

Extend AppDynamics

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Extend AppDynamics

This page describes how to extend and customize the AppDynamics Application Performance Management (APM) Platform.

The [AppDynamics Community Exchange](#) includes many pre-built extensions you can use to customize AppDynamics and integrate with other systems.

You can also use AppDynamics REST APIs to create custom integrations and automation tasks.

AppDynamics REST APIs

- [AppDynamics APIs](#)
- [Using the Controller APIs](#)

AppDynamics Extensions

- [Integration Modules](#)
- [Integrate AppDynamics with Splunk](#)
- [Integrate AppDynamics with Scalyr](#)

AppDynamics APIs

Related pages:

- [Extensions and Custom Metrics](#)
- [AppDynamics Exchange](#)

This page provides an overview of AppDynamics APIs, which let you extend and customize various aspects of the AppDynamics Application Performance Monitoring (APM) Platform.

Overview of AppDynamics APIs

The AppDynamics APM Platform exposes various APIs for customizing and extending its features on the platform-side, which are served by the Controller and Events Service, and on the agent-side.

The AppDynamics platform server components and agents offer the following APIs:

- **Controller APIs:** Administer the Controller, configure, monitor, query metrics, and more. See the [Platform API Index](#)
- **Accounts APIs:** Manage and monitor accounts, users, and other aspects of AppDynamics licensing. Accounts APIs are made up of these modules:
 - [actions suppressions](#)
 - [business transactions](#)
 - [health rules](#)
 - [license modules](#)
 - [mdsconfig](#)
 - [nodes](#)
 - [policies](#)See [Observe License Usage](#).
- **Analytics Events API:** Send custom analytics events from your data sources to the Events Service. See the Analytics Events API section in the [Platform API Index](#).
- **Machine Agent APIs:** HTTP APIs available at the machine agent for uploading custom metrics. See [Machine Agent HTTP Listener](#).
- **Database Agent APIs:** Get, create, update, and delete Database Monitoring database Collectors. See [Database Visibility API](#).
- **Application Agent Instrumentation APIs:** Control and customize transaction detection and correlation, along with exit point detection. Agent APIs include:
 - [PHP Agent API](#)
 - [Python Agent API](#)
 - [Node.js Agent API Reference](#)
 - [C/C++ SDK](#)
- **Java Agent API:** Customize agent instrumentation. See the SDK folder in the agent home directory.
- **Mobile RUM:** Instrument mobile applications for real user performance monitoring. See [Instrument iOS Applications](#).

Platform API Index

These methods are Below is a list of all the methods in the AppDynamics Controller and Events Service APIs:

- **Accounts API**
 - [Retrieve Controller Audit History](#)
 - [Configure Metric Retention by Account](#)
 - [Configure Metric Retention by Application](#)
- **Application Model API**
 - [Retrieve All Business Applications](#)
 - [Retrieve All Business Transactions in a Business Application](#)
 - [Retrieve All Tiers in a Business Application](#)
 - [Retrieve All Registered Backends in a Business Application with Their Properties](#)
 - [Retrieve Node Information for All Nodes in a Business Application](#)
 - [Retrieve Node Information by Node Name](#)
 - [Retrieve Node Information for All Nodes in a Tier](#)
 - [Retrieve Tier Information by Tier Name](#)
- **Metric and Snapshot API**
 - [Retrieve Metric Hierarchy](#)
 - [Retrieve Metric Data](#)
 - [Retrieve Transaction Snapshots](#)
- **Alert and Respond APIs**
 - **Health Rule API**
 - [Create a Health Rule](#)
 - [Retrieve a List of Health Rules for an Application](#)
 - [Retrieve Details of a Specified Health Rule](#)

- [Update a Health Rule](#)
- [Delete a Health Rule](#)
- **Schedule API**
 - [Create a New Schedule](#)
 - [Retrieve a List of Schedules for a Given Application](#)
 - [Retrieve the Details of a Specified Schedule](#)
 - [Update a Schedule](#)
 - [Delete a Schedule](#)
- **Policy API**
 - [Create a Policy](#)
 - [Retrieve a list of Policies associated with an Application](#)
 - [Retrieve Details of a Specified Policy](#)
 - [Update a Policy](#)
 - [Delete a Policy](#)
- **Actions API**
 - [Create a New Action](#)
 - [Retrieve a List of Actions for a Given Application](#)
 - [Retrieve Details of a Specified Action](#)
 - [Update an Action](#)
 - [Delete an Action](#)
- **Events and Action Suppression API**
 - [Retrieve All Health Rule Violations in a Business Application](#)
 - [Retrieve Event Data](#)
 - [Create Events](#)
 - [Create a Custom Event](#)
 - [Create Custom URLs for Notifications](#)
 - [Create and Delete Action Suppressions](#)
 - [Retrieve All Existing Action Suppressions](#)
 - [Retrieve a Specific Action Suppression by ID](#)
 - [Create a New Action Suppression](#)
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- **Configuration API**
 - [Create and Modify AppDynamics Users](#)
 - [Include or exclude a business transaction from monitoring](#)
 - [Retrieve All Controller Settings](#)
 - [Retrieve a Controller Setting by Name](#)
 - [Configure Global Controller Settings](#)
 - [Mark Nodes as Historical](#)
- **Configuration Import and Export API**
 - [About the Configuration Import/Export APIs](#)
 - [Export Actions from an Application](#)
 - [Import Actions into an Application](#)
 - [Export Email Action Templates from an Account](#)
 - [Import Email Action Templates](#)
 - [Export HTTP Request Action Templates from an Account](#)
 - [Import HTTP Action Templates into an Account](#)
 - [Export Custom Dashboards and Templates](#)
 - [Import Custom Dashboards and Templates](#)
 - [Export Health Rules from an Application](#)
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 - [Export Transaction Detection Rules for All Entry Point Types](#)
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 - [Export Policies](#)
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 - [Export Application Analytics Dynamic Service Configuration](#)
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- **Database Visibility API**
 - [Supported API Calls](#)
 - [UI Collector versus JSON Collector Configuration Field Names](#)
- **Analytics Events API**
 - [About the Analytics Events API](#)
 - [Custom Event Ingestion Limits](#)
 - [Publish Events](#)
 - [Create Event Schema](#)
 - [Retrieve Event Schema](#)
 - [Update Event Schema](#)
 - [Delete Event Schema](#)
 - [Query Events \(Single Query\)](#)
 - [Query Events \(Multiple Queries\)](#)
- **RBAC API**
 - [Create User](#)
 - [Get User by ID](#)
 - [Get User by Name](#)
 - [Get All Users](#)
 - [Update User](#)
 - [Delete User](#)

- Create Group
- Get Group by ID
- Get Group by Name
- Get All Groups
- Update Group
- Delete Group
- Add User to Group
- Remove User from Group
- Create Role
- Add Role to User
- Remove Role from User
- Add Role to Group
- Remove Role from Group
- Get Role by ID
- Get Role by Name
- Get All Roles
- Update Role
- Delete Role
- **License Rules API**
 - Creates a New License Rule
 - Returns a Summary of All License Rules for the Current Account
 - Updates a License Rule
 - Deletes a License Rule
 - Retrieve a License Rule via its Id
 - Retrieves a License Rule by Access Key
 - Retrieve a License Rule by Name

API Clients

This page describes how to create and use the API Clients identity type to provide secure access to the Controller through AppDynamics Controller REST API calls. These calls use Open Authorization (OAuth) token-based authentication.

Open Authorization (OAuth) Mechanisms

OAuth is an open protocol to allow secure authorization in a simple and standard method from web, mobile, and desktop applications. See <https://oauth.net/>

It acts as the intermediary on your behalf by providing third-party applications with an access token that authorizes sharing specific account information. Using the OAuth protocol with AppDynamics Controller REST APIs is the best way to securely grant access to your Controller information.

The OAuth authentication process authenticates a request token and uses it to obtain an encrypted access token from your Controller. Once the access token is available, you can use it to make requests to your Controller until the token expires or is revoked.

The tokens are based on JSON Web Tokens (JWT) authentication format, which is the industry standard RFC 7519 method for representing claims securely between two parties.


Accessing Authentication Provider Settings




Users with the **Account Owner** role or the **Administer users, groups, roles ...** permission can view API Clients settings in the **Settings > Administration** page.


Creating API Clients

You can create new API Client identity types that can be used to generate OAuth tokens.


1. Log in to the Controller UI as an **Account Owner** or other roles with the **Administer users, groups, roles ...** permission.
2. Click  > **Administration**.
3. Click the API Clients tab to view the list of existing clients.
4. Click **+ Create**.
5. Enter the Client Name and Description.
6. Click **Generate Secret** to populate the Client Secret.
This will generate a UUID as the secret of the API Client.

 This API Client secret acts as a password. It does not generate the authentication token.

7. Set the Default API-generated Token Expiration. This expiration only applies to authentication tokens generated through the `/controller/api/oauth/access_token` REST API, not to Temporary Access Tokens generated from the UI. See [Using the Access Token](#).

 Every API-generated access token has an expiration. Although the default is five minutes, you can set it to any second, minute, or hour limit. The Default API-generated Token has a shorter expiration than the authentication token generated through the Administration UI.

8. Add the **Roles** you would like to associate with this API Client. You can add or remove roles at any time. See [Create and Manage Custom Roles](#).

 The REST APIs will use the identity which the access token represents to pull up RBAC permissions and check those permissions at the underlying API level.

9. Click **Save** at the top right.

Using the Access Token

Using the Controller APIs

This page describes API usage information. The Controller APIs are served by the Controller instance, rather than by the Events Service or an agent component. They include:

- Accounts API
- Application Model API
- Metric and Snapshot API
- Alert and Respond API
- Configuration API
- Configuration Import and Export APIs
- Analytics Events API

Controller API Base URI

Except as indicated in the format listing for a particular method, URIs in the Controller API use the following base URI:

```
http://<controller_host>:<controller_port>/controller/rest/<REST_URI>
```



The port that serves the API is the same primary port for the Controller used by Controller UI and agents.

Retrieving Data in JSON Format

The AppDynamics Controller APIs return data in eXtensible Markup Language (XML) or JavaScript Object Notation (JSON). The default output format is XML.

Any Controller API with a URI in the `/controller/rest/` format shown in [Controller API Base URI](#) can return data in JSON format.

To retrieve data in JSON, call the API with the output query parameter set to JSON, as follows:

```
curl --user user1@customer1:secret http://demo.appdynamics.com/controller/rest/applications?output=JSON
[
  {
    "description": "",
    "id": 5,
    "name": "ECommerce_E2E"
  },
  {
    "description": "",
    "id": 8,
    "name": "ECommerce_E2E-Fulfillment"
  },
]
```

You can specify JSON output format for any of the Controller APIs.

When a client uses HTTP 1.1 and accepts gzip content-encoding, the Controller returns JSON responses using `gzip` compression.

Authentication

You can use OAuth identity types for authentication. See [API Clients](#).

To invoke the REST APIs using basic HTTP authentication, you must provide the authentication credentials as well as your account information. These are:

- Account: the AppDynamics tenant account name
- Username: a user in that account
- Password: the password for that account

Pass the credentials in the following form:

```
<your_username>@<your_accountname>:<your_password>
```

Most on-premises Controllers are single-tenant Controllers that use `customer1` as the primary default account name. The account name should be left as default. For example:

```
<your_username>@customer1:<your_password>
```

Most SaaS Controllers are multi-tenant Controllers and allow you to replace `customer1` with your own, instance-specific account name. See [Observe License Usage](#).

Invalid Characters for Usernames and Passwords

REST API calls will not authenticate usernames and passwords that contain these characters:

```
\ / " [ ] : | < > + = ; , ? * ' % tab space @
```

If you have already created user credentials that contain any of the disallowed characters, such as "user:customer66", create new credentials without the disallowed character for the purpose of accessing the REST APIs.

For usernames or passwords containing the "@" symbol, URL encode the "@" character as %40.


Copying a Metric URL in the Metric Browser

1. Right-click a metric in the **Metric Browser**.
2. Copy the full REST URL of the metric.
3. Paste the REST URL into your code or onto the command line.



For security reasons, AppDynamics only supports making API calls programmatically or at the command line. Do not attempt to paste the REST URL into a browser.

Agent Installer Platform Service API

 AppDynamics Agent Installer Platform Service API is currently beta and is subject to change. If you adopt a beta API, the future versions may not be fully compatible with it.

Navigate to [Agent Installer Platform Service API](#) to access API Reference details residing on Cisco's DevNet.

The Agent Installer Platform Service API is a collection of public REST endpoints that support the installation and monitoring use cases currently provided through the UI. You can use simple APIs as building blocks for more sophisticated orchestration scenarios. The AppDynamics Agent Installer streamlines the instrumentation of your applications with AppDynamics monitoring agents.

The Agent Installer:

- Deploys Java and Machine Agents, and is compatible with Linux
- Automatically instruments applications
- Assigns unique names to detected tiers and nodes

You can deploy other agents using the Getting Started Wizard.

See [Agent Installer](#) for details.

Getting Started

AppDynamics exposes various APIs for customizing and extending its features.

Base URI

Every API request begins with this Base URI (template for all production deployments of zero service):

Servers

```
https://{tenantName}.saas.appdynamics.com/zero/v1beta
```

Computed URL

```
https://sampletenant.saas.appdynamics.com/zero/v1beta
```


Server Variables

```
tenantName: sampletenant
```

Authorization

You can create and use the identity type, API Clients, to provide secure access to AppDynamics using REST API calls. These calls use Open Authorization (OAuth) token-based authentication. You can create new API Client identity types that can be used to generate OAuth tokens. No roles are required at this time.

To create the OAuth token, use the following API and note the created "Client Name" and "Client Secret":

 You must use this API to generate the OAuth token. The token generation method described on the [API Clients](#) page does not work with the Agent Installer Platform Service APIs.

Application Model API

This page describes how application APIs let you retrieve information about the monitored environment as modeled in AppDynamics. This information includes, for example, the names and IDs of the business applications, business transactions, tiers, and nodes in the modeled environment.

Retrieve All Business Applications


The application API method returns the business application names and internal numeric identifier. Many of the operations in the Controller APIs occur in the context of a business application. Use this method to discover the application names or IDs to use before invoking other methods.

Format

GET /controller/rest/applications

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
output	Query	HTTP Request parameter included as part of the URL to change the output format. Valid values are XML (default) or JSON.	No
time-range-type	Time	<p>A time parameter to filter data based on time range options (<code>time-range-type</code>, <code>startTime</code>, <code>endTime</code>). If a <code>time-range-type</code> option is specified, the query returns alive applications on that GMT day, otherwise, the query returns all applications.</p> <ul style="list-style-type: none"> Case 1: If <code>time-range-type</code> is last T mins and the <code>time-range-type</code> just falls into one GMT day then the API returns all the applications which are alive on that GMT day. Case 2: If <code>time-range-type</code> is last T mins and the <code>time-range-type</code> falls into 2 GMT days (for example if the current time is 4:05 PST and <code>time-range-type</code> specified is last 10 mins then the API returns applications which are alive on this and the previous GMT day). <p>This feature is available for SaaS only and the API returns all applications for on-premises.</p> <p>For more information see Metric and Snapshot API.</p>	No

 An *alive application* is an application with at least one node that submits at least one metric to the Controller in the provided time range.

Example

```
curl --user user1@customer1:your_password http://demo.appdynamics.com/controller/rest/applications

<applications>
  <application>
    <id>5</id>
    <name>ECommerce_E2E</name>
  </application>
  <application>
    <id>8</id>
    <name>ECommerce_E2E-Fulfillment</name>
  </application>
  <application>
    <id>11</id>
    <name>jimix12110919</name>
    <description></description>
    <accountGuid>429c7884-3f36-4b5a-9412-fdf827e6c86e</accountGuid>
  </application>
</applications>
```

Retrieve All Business Transactions in a Business Application

Format

GET /controller/rest/applications/*application_name*/business-transactions

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
application_name	URI	The application name or application ID.	Yes
exclude	Query	<ul style="list-style-type: none"> • false: the query retrieves only the business transactions that are included for monitoring. • true: the query retrieves only the excluded business transactions. Excluded business transactions have been configured to be excluded from monitoring either from the UI or through the REST interface. • The default is false. 	No
output	Query	HTTP Request parameter included as part of the URL to change the output format. Valid values are XML (default) or JSON.	No
time-range-type	Time	<p>Time parameter to filter data based on time range options (<i>time-range-type</i>, <i>startTime</i>, <i>endTime</i>). If a <i>time-range-type</i> option is specified, the query returns alive business transactions on that GMT day, otherwise, the query returns all business transactions.</p> <ul style="list-style-type: none"> • Case 1 : If <i>time-range-type</i> is last T mins and the <i>time-range-type</i> just falls into one GMT day then the API returns all the business transactions which are alive on that GMT day. • Case 2 : If <i>time-range-type</i> is last T mins and the <i>time-range-type</i> falls into 2 GMT days (for example if the current time is 4:05 PST and <i>time-range-type</i> specified is last 10 mins then the API returns business transactions which are alive on this and the previous GMT day). <p>This feature is available for SaaS only and the API returns all business transactions for on-premises.</p> <p>See Metric and Snapshot API.</p>	No



An *alive business transaction* is a transaction that submits at least one metric to the Controller in the provided time range.

Example

```
curl --user user1@customer1:your_password http://demo.appdynamics.com/controller/rest/applications/5/business-transactions
```

```
<business-transactions>
  <business-transaction>
    <id>92</id>
    <name>/user/.POST</name>
    <entryPointType>WEB_SERVICE</entryPointType>
    <internalName>/user/.POST</internalName>
    <tierId>9</tierId>
    <tierName>ECommerce-Services</tierName>
    <background>>false</background>
  </business-transaction>
  ...
  <business-transaction>
    <id>184</id>
    <name>OrderServiceImplService.createOrder</name>
    <entryPointType>WEB_SERVICE</entryPointType>
    <internalName>OrderServiceImplService.createOrder</internalName>
    <tierId>12</tierId>
    <tierName>Inventory-Services</tierName>
    <background>>false</background>
  </business-transaction>
</business-transactions>
```

Retrieve All Tiers in a Business Application

Format

GET /controller/rest/applications/application_name/tiers

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
application_name	URI	The application name or application ID.	Yes
output	Query	HTTP Request parameter included as part of the URL to change the output format. Valid values are XML (default) or JSON.	No
time-range-type	Time	<p>Time parameter to filter data based on time range options (<code>time-range-type</code>, <code>startTime</code>, <code>endTime</code>). If a <code>time-range-type</code> option is specified, the query returns alive tiers on that GMT day, otherwise, the query returns all tiers.</p> <ul style="list-style-type: none"> Case 1 : If <code>time-range-type</code> is last T mins and the <code>time-range-type</code> just falls into one GMT day then the API returns all the tiers which are alive on that GMT day. Case 2 : If <code>time-range-type</code> is last T mins and the <code>time-range-type</code> falls into 2 GMT days (for example if the current time is 4:05 PST and <code>time-range-type</code> specified is last 10 mins then the API returns tiers which are alive on this and the previous GMT day). <p>This feature is available for SaaS only and the API returns all tiers for on-premises.</p> <p>See Metric and Snapshot API.</p>	No



An *alive tier* is a tier with at least one node in this tier that submits at least one metric to the Controller in the provided time range.

Example

```
curl --user user1@customer1:your_password http://demo.appdynamics.com/controller/rest/applications/5/tiers

<tiers>
<tier>
  <id>8</id>
  <name>Address-Services</name>
  <type>Application Server</type>
  <agentType>APP_AGENT</agentType>
  <numberOfNodes>1</numberOfNodes>
</tier>
<tier>
  <id>16</id>
  <name>Customer-Survey-Services</name>
  <type>Application Server</type>
  <agentType>APP_AGENT</agentType>
  <numberOfNodes>1</numberOfNodes>
</tier>
<tier>
  <id>9</id>
  <name>ECommerce-Services</name>
  <type>Application Server</type>
  <agentType>APP_AGENT</agentType>
  <numberOfNodes>2</numberOfNodes>
</tier>
<tier>
  <id>12</id>
  <name>Inventory-Services</name>
  <type>Application Server</type>
  <agentType>APP_AGENT</agentType>
  <numberOfNodes>1</numberOfNodes>
</tier>
<tier>
  <id>17</id>
  <name>Order-Processing-Services</name>
  <type>Application Server</type>
  <agentType>APP_AGENT</agentType>
  <numberOfNodes>1</numberOfNodes>
</tier>
<tier>
  <id>18</id>
  <name>Web-Tier-Services</name>
  <type>Web Server</type>
  <agentType>NATIVE_WEB_SERVER</agentType>
  <numberOfNodes>1</numberOfNodes>
</tier>
</tiers>
```

Retrieve All Registered Backends in a Business Application With Their Properties

Format

GET /controller/rest/applications/application_name/backends

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
application_name	URI	Provide either the application name or application id.	Yes
output	Query	HTTP Request parameter included as part of the URL to change the output format. Valid values are XML (default) or JSON.	No

Example

```
curl --user user1@customer1:your_password http://demo.appdynamics.com/controller/rest/applications/5/backends

<backends><backend>
  <id>10</id>
  <name>INVENTORY-MySQL DB-DB</name>
  <exitPointType>JDBC</exitPointType>
  <properties>
    <name-value>
      <id>0</id>
      <name>HOST</name>
      <value>DB</value>
    </name-value>
    <name-value>
      <id>0</id>
      <name>MAJOR_VERSION</name>
      <value>5.5.44-0ubuntu0.14.04.1</value>
    </name-value>
    <name-value>
      <id>0</id>
      <name>PORT</name>
      <value>3306</value>
    </name-value>
    <name-value>
      <id>0</id>
      <name>SCHEMA</name>
      <value>INVENTORY</value>
    </name-value>
    <name-value>
      <id>0</id>
      <name>URL</name>
      <value>jdbc:mysql://db:3306/inventory?useUnicode=true&characterEncoding=UTF-8&autoReconnect=true<
/value>
    </name-value>
    <name-value>
      <id>0</id>
      <name>VENDOR</name>
      <value>MySQL DB</value>
    </name-value>
  </properties>
  <applicationComponentNodeId>0</applicationComponentNodeId>
  <tierId>0</tierId>
</backend>
...
<backend>
  <id>14</id>
  <name>Active MQ-OrderQueue</name>
  <exitPointType>JMS</exitPointType>
  <properties>
    <name-value>
      <id>0</id>
      <name>DESTINATION_NAME</name>
      <value>OrderQueue</value>
    </name-value>
    <name-value>
      <id>0</id>
      <name>DESTINATION_TYPE</name>
      <value>QUEUE</value>
    </name-value>
    <name-value>
      <id>0</id>
      <name>VENDOR</name>
      <value>Active MQ</value>
    </name-value>
  </properties>
  <applicationComponentNodeId>0</applicationComponentNodeId>
  <tierId>0</tierId>
</backend>
</backends>
```


Retrieve Node Information for All Nodes in a Business Application

Format

GET /controller/rest/applications/application_name/nodes

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
application_name	URI	Provide either the application name or application id.	Yes
output	Query	HTTP Request parameter included as part of the URL to change the output format. Valid values are XML (default) or JSON.	No
time-range-type	Time	<p>Time parameter to filter data based on time range options (time-range-type, startTime, endTime). If a time-range-type option is specified, the query returns alive nodes on that GMT day, otherwise, the query returns all nodes.</p> <ul style="list-style-type: none"> Case 1 : If time-range-type is last T mins and the time-range-type just falls into one GMT day then the API returns all the nodes which are alive on that GMT day. Case 2 : If time-range-type is last T mins and the time-range-type falls into 2 GMT days (for example if the current time is 4:05 PST and time-range-type specified is last 10 mins then the API returns nodes which are alive on this and the previous GMT day). <p>This feature is available for SaaS only and the API returns all nodes for on-premises.</p> <p>See Metric and Snapshot API.</p>	No

 An *alive node* is a node that submits at least one metric to the Controller in the provided time range.

Example

```
curl --user user1@customer1:welcome http://demo.appdynamics.com:8090/controller/rest/applications/5/nodes

<nodes><node>
  <id>7</id>
  <name>Node_8000</name>
  <type>Tomcat 5.x</type>
  <tierId>12</tierId>
  <tierName>ECommerce Server</tierName>
  <machineId>3</machineId>
  <machineName>TIER1TOMCAT</machineName>
  <machineOSType>Linux</machineOSType>
  <machineAgentPresent>true</machineAgentPresent>
  <machineAgentVersion>Machine Agent v4.2.0.0 GA Build Date 2015-12-18 18:47:15</machineAgentVersion>
  <appAgentPresent>true</appAgentPresent>
  <appAgentVersion>Server Agent v4.2.0.0 GA #10145 r514d60d3122bd992e7152820d2ca5fb5ff4e45c1 8409-master-build<
/appAgentVersion>
  <agentType>APP_AGENT</agentType>
</node>
...
<node>
  <id>10</id>
  <name>Node_8002</name>
  <type>Tomcat 5.x</type>
  <tierId>14</tierId>
  <tierName>Inventory Server</tierName>
  <machineId>6</machineId>
  <machineName>TIER3TOMCAT</machineName>
  <machineOSType>Linux</machineOSType>
  <machineAgentPresent>true</machineAgentPresent>
  <machineAgentVersion>Machine Agent v4.2.0.0 GA Build Date 2015-12-18 18:47:15</machineAgentVersion>
  <appAgentPresent>true</appAgentPresent>
  <appAgentVersion>Server Agent v4.2.0.0 GA #10145 r514d60d3122bd992e7152820d2ca5fb5ff4e45c1 8409-master-build<
/appAgentVersion>
  <agentType>APP_AGENT</agentType>
</node>
</nodes>
```

Retrieve Node Information by Node Name

Format

GET /controller/rest/applications/application_name/nodes/node_name

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
application_name	URI	The application name or application ID.	Yes
node_name	URI	The node name or ID	Yes
output	Query	HTTP Request parameter included as part of the URL to change the output format. Valid values are XML (default) or JSON.	No

Example

```
curl --user user1@customer1:welcome http://demo.appdynamics.com:8090/controller/rest/applications/5/nodes/10

<nodes><node>
  <id>10</id>
  <name>Node_8002</name>
  <type>Tomcat 5.x</type>
  <tierId>14</tierId>
  <tierName>Inventory Server</tierName>
  <machineId>6</machineId>
  <machineName>TIER3TOMCAT</machineName>
  <machineOSType>Linux</machineOSType>
  <machineAgentPresent>true</machineAgentPresent>
  <machineAgentVersion>Machine Agent v4.2.0.0 GA Build Date 2015-12-18 18:47:15</machineAgentVersion>
  <appAgentPresent>true</appAgentPresent>
  <appAgentVersion>Server Agent v4.2.0.0 GA #10145 r514d60d3122bd992e7152820d2ca5fb5ff4e45c1 8409-master-build<
/appAgentVersion>
  <ipAddresses>
    <ipAddress>10.0.32.138</ipAddress>
  </ipAddresses>
  <agentType>APP_AGENT</agentType>
</node>
</nodes>
```

Retrieve Node Information for All Nodes in a Tier

Format

GET /controller/rest/applications/application_name/tiers/tier_name/nodes

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
application_name	URI	The application name or application ID.	Yes
tier_name	URI	The tier name or ID.	Yes
output	Query	HTTP Request parameter included as part of the URL to change the output format. Valid values are XML (default) or JSON.	No
time-range-type	Time	<p>Time parameter to filter data based on time range options (time-range-type, startTime, endTime). If a time-range-type option is specified, the query returns alive nodes on that GMT day, otherwise, the query returns all nodes.</p> <ul style="list-style-type: none"> Case 1 : If time-range-type is last T mins and the time-range-type just falls into one GMT day then the API returns all the nodes which are alive on that GMT day. Case 2 : If time-range-type is last T mins and the time-range-type falls into 2 GMT days (for example if the current time is 4:05 PST and time-range-type specified is last 10 mins then the API returns nodes which are alive on this and the previous GMT day). <p>This feature is available for SaaS only and the API returns all nodes for on-premises.</p> <p>See Metric and Snapshot API.</p>	No

Example

```
curl --user user1@customer1:welcome http://demo.appdynamics.com:8090/controller/rest/applications/25/tiers/70/nodes

<nodes><node>
  <id>81</id>
  <name>PHP_Node</name>
  <type>Other</type>
  <tierId>70</tierId>
  <tierName>PHP_Tier</tierName>
  <machineId>65</machineId>
  <machineName>232fe50b8f9c</machineName>
  <machineOSType>Linux</machineOSType>
  <machineAgentPresent>>false</machineAgentPresent>
  <appAgentPresent>>true</appAgentPresent>
  <appAgentVersion>Proxy v4.2.0.0 GA SHA-1:.c86ec090f4ff77195df065fe56dade4dfc3913aa #9909 8869-master-build</appAgentVersion>
  <ipAddresses>
    <ipAddress>fe80:0:0:0:42:acff:fe11:2%eth0</ipAddress>
    <ipAddress>172.17.0.2</ipAddress>
  </ipAddresses>
  <agentType>PHP_APP_AGENT</agentType>
</node>
</nodes>
```

Retrieve Tier Information by Tier Name

Format

GET /controller/rest/applications/application_name/tiers/tier_name

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
application_name	URI	The application name or application ID.	Yes
tier_name	URI	Tier name or ID.	Yes
output	Query	HTTP Request parameter included as part of the URL to change the output format. Valid values are XML (default) or JSON.	No

Example

```
curl --user user1@customer1:welcome http://demo.appdynamics.com:8090/controller/rest/applications/5/tiers/14

<tiers><tier>
  <id>14</id>
  <name>Inventory Server</name>
  <type>Application Server</type>
  <agentType>APP_AGENT</agentType>
  <numberOfNodes>1</numberOfNodes>
</tier>
</tiers>
```

Metric and Snapshot API

This page describes the Controller Metrics and Events API methods that allow you to retrieve information on metric data and various types of activities in your monitored environment. You can also configure how long you retain the metrics.

 The [AppDynamics Dexter Data Extraction Enhanced Reporting \(DEXTER\)](#) extension provides an alternative to using a REST client to get metric data by makes AppDynamics data queryable in the manner of a data warehouse.

Retrieve Metric Hierarchy

This API returns information about the metric tree structure. Because it retrieves the first generation of child elements, you can only expand the children of the folder type.


- If a child element is a container item in the response, its type value is `folder`.
- Otherwise, the type value for the child element is `leaf`.

You can recurse the metric tree structure further by using the `metric-path` parameter as described in the [Metric Data API](#).

Format

GET `/controller/rest/applications/application_name/metrics`

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
<code>application_name</code>	URI	The name or ID of the business or EUM (browser/mobile/IoT) application. Use the call to get the application ID in the Application Model API .	Yes
<code>output</code>	Query	HTTP Request parameter included as part of the URL to change the output format. Valid values are <code>XML</code> (default) or <code>JSON</code> .	No
<code>metric-path</code>	Query	The path to the metric in the metric hierarchy. <div style="border: 1px solid #ccc; border-radius: 10px; padding: 5px; margin-top: 10px;">  When including the pipe (<code> </code>) or backslash (<code>\</code>) special characters in the <code>metric-path</code>, you must include an additional backslash to indicate escape. </div>	No

Example

```
curl --user user1@customer1:your_password "http://demo.appdynamics.com/controller/rest/applications
/ECommerce_E2E/metrics"

<metric-items><metric-item>
  <type>folder</type>
  <name>Backends</name>
</metric-item>
<metric-item>
  <type>folder</type>
  <name>Service Endpoints</name>
</metric-item>
<metric-item>
  <type>folder</type>
  <name>End User Experience</name>
</metric-item>
<metric-item>
  <type>folder</type>
  <name>Errors</name>
</metric-item>
<metric-item>
  <type>folder</type>
  <name>Business Transaction Performance</name>
</metric-item>
<metric-item>
  <type>folder</type>
  <name>Information Points</name>
</metric-item>
<metric-item>
  <type>folder</type>
  <name>Overall Application Performance</name>
</metric-item>
<metric-item>
  <type>folder</type>
  <name>Application Infrastructure Performance</name>
</metric-item>
<metric-item>
  <type>folder</type>
  <name>Mobile</name>
</metric-item></metric-items>
```

Retrieve Metric Data

The metric data method lets you get values generated for metrics. To use this method, specify the following parameters to the API:

- The path of the metric to retrieve.
- The time frame for the data.

Using the Controller UI is the simplest way to learn how to construct the metric path and time range-related parameters.

1. Right-click on the metric in the Metric Browser.
2. Select **Copy REST URL**. The copied URL includes the path to this metric and time range selected in the UI.
3. Certain clients can accept and properly encode the full path value as the metric path parameter.
4. Hover over the metric in the tree or copy it using the **Copy Full Path** option in the right-click menu.

Certain examples below are shown with the **full path value** rather than the fully encoded URL value. If you test calls with the full path, avoid using a pipe character at the start or end of the path.


These sections provide additional details and examples for the metric data method:

- [Metric Response Values](#)
- [Using Wildcards](#)
- [Using Time Ranges](#)
- [Retrieving All Other Traffic Business Transaction Metrics](#)

Format

```
GET /controller/rest/applications/application_name/metric-data
```


Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
metric-path	Query	The path to the metric in the metric hierarchy. <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;">  When including the pipe () or backslash (\) special characters in the <code>metric-path</code>, you must include an additional backslash to indicate escape. </div>	Yes
rollup	Query	By default, the values of the returned metrics are rolled up into a single data point (<code>rollup=true</code>). To get separate results for all values within the time range, set the Rollup parameter to <code>false</code> in the query.	No

Additional mandatory parameters for specifying time ranges are described in [Using Time Ranges](#).

Example

Retrieve metric values for a metric at an absolute path:

```
curl --user user1@customer1:your_password "http://demo.appdynamics.com/controller/rest/applications
/ECommerce_E2E/metric-data?metric-path=Overall%20Application%20Performance%7CAverage%20Response%20Time%20%28ms%
29&time-range-type=BEFORE_NOW&duration-in-mins=15"


<metric-datas><metric-data>
  <metricId>2339</metricId>
  <metricPath>Overall Application Performance|Average Response Time (ms)</metricPath>
  <metricName>BTM|Application Summary|Average Response Time (ms)</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450562160000</startTimeInMillis>
      <value>302</value>
      <min>0</min>
      <max>15212</max>
      <current>15212</current>
      <sum>97800</sum>
      <count>324</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>true</useRange>
    </metric-value>
  </metricValues>
</metric-data>
</metric-datas>
```

Metric Response Values

Metrics results include the following fields:

Name	Definition
current	The value for the current minute. This is used only when the time rollup type used by the Controller is current.
count	The number of times the agent collected the metric over the selected time period.
min, max	The minimum and maximum values reported across the selected time period. These are not used for all metric types.
occurrences	The number of data samples taken by the Controller to calculate the standard deviation.
standardDeviation	The intermediate values calculated by the Controller during time rollup used to calculate standard deviation. See Dynamic Baselines .
startTimeInMillis	The <code>startTimeInMillis</code> is the start time of the time range to which the result metric data applies in UNIX epoch time.
sum	The total accumulated value for the metric over the selected time period.

useRange	Used internally by the Controller to process the metric.
value	<p>The value value is one of the following for all metric values reported across the configured evaluation time length:</p> <ul style="list-style-type: none"> • Arithmetic average: if the metric time rollup type is average. • Sum: if the metric time rollup type is sum. • Latest: if the metric time rollup type is current.

 min and max values are not available for any count-based or sum-based metric except when the metric is rolled up to hourly or daily data points. These metrics include errors per minute, calls per minute, and so on.

Using Wildcards

When you copy the REST URL in the Metric Browser, you get the path to a specific metric within a specific application and tier. Alternatively, you can use wildcard characters in one or more steps in the URL path to get metric data for entities, including multiple business transactions, tiers, or nodes.

The following format examples show where to put wildcard characters in various metric paths to achieve particular results. For reading clarity, these format examples use the **Full Path** for the metric rather than the REST URL. For a full working example, click the expanding link under each format listing:

- Retrieve the **app agent availability time** for all tiers in the application using a wildcard for the tier name:

```
/controller/rest/applications/ECommerce_E2E-Fulfillment/metric-data?metric-path=Application
Infrastructure Performance|*|Agent|App|Availability&time-range-type=BEFORE_NOW&duration-in-mins=15
```

Full Example:

```
curl --user user1@customer1:your_password "http://demo.appdynamics.com/controller/rest/applications
/ECommerce_E2E-Fulfillment/metric-data?metric-path=Application%20Infrastructure%20Performance%7C*%
7CAgent%7CApp%7CAvailability&time-range-type=BEFORE_NOW&duration-in-mins=15"

<metric-datas><metric-data>
  <metricId>2329</metricId>
  <metricPath>Application Infrastructure Performance|Fulfillment-Services|Agent|App|Availability<
/metricPath>
  <metricName>Agent|App|Availability</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450562460000</startTimeInMillis>
      <value>1</value>
      <min>0</min>
      <max>0</max>
      <current>1</current>
      <sum>15</sum>
      <count>15</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>>false</useRange>
    </metric-value>
  </metricValues>
</metric-data>
<metric-data>
  <metricId>2329</metricId>
  <metricPath>Application Infrastructure Performance|Fulfillment-Client-Services|Agent|App|Availability<
/metricPath>
  <metricName>Agent|App|Availability</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450562460000</startTimeInMillis>
      <value>1</value>
      <min>0</min>
      <max>0</max>
      <current>1</current>
      <sum>15</sum>
      <count>15</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>>false</useRange>
    </metric-value>
  </metricValues>
</metric-data>
</metric-datas>
```

- Retrieve the **CPU % Busy** metric for all the nodes in all tiers using a wildcard for the tier and node names:

```
/controller/rest/applications/ECommerce_E2E-Fulfillment/metric-data?metric-path=Application
Infrastructure Performance|*|Individual Nodes|*|Hardware Resources|CPU|%Busy&time-range-
type=BEFORE_NOW&duration-in-mins=15
```

Full Example:

```
curl --user user1@customer1:your_password "http://demo.appdynamics.com/controller/rest/applications
/ECommerce_E2E-Fulfillment/metric-data?metric-path=Application%20Infrastructure%20Performance%7C*%
7CIndividual%20Nodes%7C*%7CHardware%20Resources%7CCPU%7C%25Busy&time-range-type=BEFORE_NOW&duration-in-
mins=15"
```

```
<metric-datas><metric-data>
  <metricId>2231</metricId>
  <metricPath>Application Infrastructure Performance|Fulfillment-Client-Services|Individual
Nodes|FulfillmentClient|Hardware Resources|CPU|%Busy</metricPath>
  <metricName>Hardware Resources|CPU|%Busy</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>145056300000</startTimeInMillis>
      <value>10</value>
      <min>2</min>
      <max>82</max>
      <current>6</current>
      <sum>4474</sum>
      <count>450</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>true</useRange>
    </metric-value>
  </metricValues>
</metric-data>
<metric-data>
  <metricId>2231</metricId>
  <metricPath>Application Infrastructure Performance|Fulfillment-Services|Individual
Nodes|Fulfillment|Hardware Resources|CPU|%Busy</metricPath>
  <metricName>Hardware Resources|CPU|%Busy</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>145056300000</startTimeInMillis>
      <value>10</value>
      <min>2</min>
      <max>82</max>
      <current>6</current>
      <sum>4478</sum>
      <count>450</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>true</useRange>
    </metric-value>
  </metricValues>
</metric-data>
</metric-datas>
```

- Retrieve the **Calls per Minute** metric for all the business transactions on the ECommerce tier using a wildcard for the business transaction name:

```
/controller/rest/applications/ACME Book Store Application/metric-data?metric-path=Business Transaction
Performance|Business Transactions|ECommerce Server|*|Calls per Minute&time-range-
type=BEFORE_NOW&duration-in-mins=15
```

Full Example:

```
curl --user user1@customer1:your_password "http://demo.appdynamics.com/controller/rest/applications
/ECommerce_E2E/metric-data?metric-path=Business%20Transaction%20Performance%7CBusiness%20Transactions%
7CECommerce-Services%7C*%7CCalls%20per%20Minute&time-range-type=BEFORE_NOW&duration-in-mins=15"
<metric-datas><metric-data>
  <metricId>4042</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|/json/cart/all.
GET|Calls per Minute</metricPath>
```

```

<metricName>BTM|BTs|BT:125|Component:9|Calls per Minute</metricName>
<frequency>ONE_MIN</frequency>
<metricValues>
  <metric-value>
    <startTimeInMillis>1450563420000</startTimeInMillis>
    <value>0</value>
    <min>0</min>
    <max>0</max>
    <current>0</current>
    <sum>5</sum>
    <count>30</count>
    <standardDeviation>0.0</standardDeviation>
    <occurrences>0</occurrences>
    <useRange>>false</useRange>
  </metric-value>
</metricValues>
</metric-data>
<metric-data>
  <metricId>9784</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|/appdynamicspilot
  /WEB-INF|Calls per Minute</metricPath>
  <metricName>BTM|BTs|BT:183|Component:9|Calls per Minute</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450563420000</startTimeInMillis>
      <value>0</value>
      <min>2147483647</min>
      <max>-2147483648</max>
      <current>0</current>
      <sum>0</sum>
      <count>0</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>>false</useRange>
    </metric-value>
  </metricValues>
</metric-data>
<metric-data>
  <metricId>5574</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|/appdynamicspilot
  /404.jsp|Calls per Minute</metricPath>
  <metricName>BTM|BTs|BT:140|Component:9|Calls per Minute</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450563420000</startTimeInMillis>
      <value>0</value>
      <min>2147483647</min>
      <max>-2147483648</max>
      <current>0</current>
      <sum>0</sum>
      <count>0</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>>false</useRange>
    </metric-value>
  </metricValues>
</metric-data>
<metric-data>
  <metricId>4033</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|/json/items/all.
  GET|Calls per Minute</metricPath>
  <metricName>BTM|BTs|BT:124|Component:9|Calls per Minute</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450563420000</startTimeInMillis>
      <value>0</value>
      <min>0</min>
      <max>0</max>

```

```

        <current>0</current>
        <sum>5</sum>
        <count>30</count>
        <standardDeviation>0.0</standardDeviation>
        <occurrences>0</occurrences>
        <useRange>>false</useRange>
    </metric-value>
</metricValues>
</metric-data>
<metric-data>
    <metricId>4060</metricId>
    <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|/user/login.
    POST|Calls per Minute</metricPath>
    <metricName>BTM|BTs|BT:127|Component:9|Calls per Minute</metricName>
    <frequency>ONE_MIN</frequency>
    <metricValues>
        <metric-value>
            <startTimeInMillis>1450563420000</startTimeInMillis>
            <value>0</value>
            <min>0</min>
            <max>0</max>
            <current>0</current>
            <sum>5</sum>
            <count>30</count>
            <standardDeviation>0.0</standardDeviation>
            <occurrences>0</occurrences>
            <useRange>>false</useRange>
        </metric-value>
    </metricValues>
</metric-data>
<metric-data>
    <metricId>5592</metricId>
    <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|/cart/{id}.
    DELETE|Calls per Minute</metricPath>
    <metricName>BTM|BTs|BT:142|Component:9|Calls per Minute</metricName>
    <frequency>ONE_MIN</frequency>
    <metricValues>
        <metric-value>
            <startTimeInMillis>1450563420000</startTimeInMillis>
            <value>0</value>
            <min>2147483647</min>
            <max>-2147483648</max>
            <current>0</current>
            <sum>0</sum>
            <count>0</count>
            <standardDeviation>0.0</standardDeviation>
            <occurrences>0</occurrences>
            <useRange>>false</useRange>
        </metric-value>
    </metricValues>
</metric-data>
<metric-data>
    <metricId>5583</metricId>
    <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|/cart/{id}.
    GET|Calls per Minute</metricPath>
    <metricName>BTM|BTs|BT:141|Component:9|Calls per Minute</metricName>
    <frequency>ONE_MIN</frequency>
    <metricValues>
        <metric-value>
            <startTimeInMillis>1450563420000</startTimeInMillis>
            <value>0</value>
            <min>2147483647</min>
            <max>-2147483648</max>
            <current>0</current>
            <sum>0</sum>
            <count>0</count>
            <standardDeviation>0.0</standardDeviation>
            <occurrences>0</occurrences>
            <useRange>>false</useRange>
        </metric-value>
    </metricValues>
</metric-data>

```

```

</metric-data>
<metric-data>
  <metricId>4024</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|/json/cart/co.
  GET|Calls per Minute</metricPath>
  <metricName>BTM|BTs|BT:123|Component:9|Calls per Minute</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450563420000</startTimeInMillis>
      <value>0</value>
      <min>0</min>
      <max>0</max>
      <current>0</current>
      <sum>5</sum>
      <count>30</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>>false</useRange>
    </metric-value>
  </metricValues>
</metric-data>
<metric-data>
  <metricId>2477</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|/user/.
  POST|Calls per Minute</metricPath>
  <metricName>BTM|BTs|BT:92|Component:9|Calls per Minute</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450563420000</startTimeInMillis>
      <value>5</value>
      <min>0</min>
      <max>0</max>
      <current>3</current>
      <sum>71</sum>
      <count>30</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>>false</useRange>
    </metric-value>
  </metricValues>
</metric-data>
<metric-data>
  <metricId>5601</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|/cart/co.
  GET|Calls per Minute</metricPath>
  <metricName>BTM|BTs|BT:143|Component:9|Calls per Minute</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450563420000</startTimeInMillis>
      <value>0</value>
      <min>2147483647</min>
      <max>-2147483648</max>
      <current>0</current>
      <sum>0</sum>
      <count>0</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>>false</useRange>
    </metric-value>
  </metricValues>
</metric-data>
<metric-data>
  <metricId>4099</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|UserLogin.
  memberLogin|Calls per Minute</metricPath>
  <metricName>BTM|BTs|BT:129|Component:9|Calls per Minute</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>

```

```

    <metric-value>
      <startTimeInMillis>1450563420000</startTimeInMillis>
      <value>0</value>
      <min>2147483647</min>
      <max>-2147483648</max>
      <current>0</current>
      <sum>0</sum>
      <count>0</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>>false</useRange>
    </metric-value>
  </metricValues>
</metric-data>
<metric-data>
  <metricId>4138</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|/appdynamicspilot
  /|Calls per Minute</metricPath>
  <metricName>BTM|BTs|BT:132|Component:9|Calls per Minute</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450563420000</startTimeInMillis>
      <value>0</value>
      <min>0</min>
      <max>0</max>
      <current>0</current>
      <sum>4</sum>
      <count>30</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>>false</useRange>
    </metric-value>
  </metricValues>
</metric-data>
<metric-data>
  <metricId>4108</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|ViewItems.
  getAllItems|Calls per Minute</metricPath>
  <metricName>BTM|BTs|BT:130|Component:9|Calls per Minute</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450563420000</startTimeInMillis>
      <value>0</value>
      <min>0</min>
      <max>0</max>
      <current>0</current>
      <sum>4</sum>
      <count>30</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>>false</useRange>
    </metric-value>
  </metricValues>
</metric-data>
<metric-data>
  <metricId>4129</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|ViewCart.
  sendItems|Calls per Minute</metricPath>
  <metricName>BTM|BTs|BT:131|Component:9|Calls per Minute</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450563420000</startTimeInMillis>
      <value>0</value>
      <min>0</min>
      <max>0</max>
      <current>0</current>
      <sum>2</sum>
      <count>30</count>

```



```

    <standardDeviation>0.0</standardDeviation>
    <occurrences>0</occurrences>
    <useRange>>false</useRange>
  </metric-value>
</metricValues>
</metric-data>
<metric-data>
  <metricId>4051</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|/json/cart/{id}.
GET|Calls per Minute</metricPath>
  <metricName>BTM|BTs|BT:126|Component:9|Calls per Minute</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450563420000</startTimeInMillis>
      <value>1</value>
      <min>0</min>
      <max>0</max>
      <current>0</current>
      <sum>13</sum>
      <count>30</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>>false</useRange>
    </metric-value>
  </metricValues>
</metric-data>
<metric-data>
  <metricId>4156</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|ViewCart.
addToCart|Calls per Minute</metricPath>
  <metricName>BTM|BTs|BT:134|Component:9|Calls per Minute</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450563420000</startTimeInMillis>
      <value>0</value>
      <min>0</min>
      <max>0</max>
      <current>0</current>
      <sum>3</sum>
      <count>30</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>>false</useRange>
    </metric-value>
  </metricValues>
</metric-data>
<metric-data>
  <metricId>4147</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|/json/fault
/getfaults.GET|Calls per Minute</metricPath>
  <metricName>BTM|BTs|BT:133|Component:9|Calls per Minute</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450563420000</startTimeInMillis>
      <value>9</value>
      <min>0</min>
      <max>0</max>
      <current>9</current>
      <sum>130</sum>
      <count>30</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>>false</useRange>
    </metric-value>
  </metricValues>
</metric-data>
<metric-data>
  <metricId>2630</metricId>

```

```

<metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|/items/all.
GET|Calls per Minute</metricPath>
<metricName>BTM|BTs|BT:93|Component:9|Calls per Minute</metricName>
<frequency>ONE_MIN</frequency>
<metricValues>
  <metric-value>
    <startTimeInMillis>1450563420000</startTimeInMillis>
    <value>5</value>
    <min>0</min>
    <max>0</max>
    <current>0</current>
    <sum>76</sum>
    <count>30</count>
    <standardDeviation>0.0</standardDeviation>
    <occurrences>0</occurrences>
    <useRange>>false</useRange>
  </metric-value>
</metricValues>
</metric-data>
<metric-data>
  <metricId>4090</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|UserLogout.
memberLogout|Calls per Minute</metricPath>
  <metricName>BTM|BTs|BT:128|Component:9|Calls per Minute</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450563420000</startTimeInMillis>
      <value>0</value>
      <min>2147483647</min>
      <max>-2147483648</max>
      <current>0</current>
      <sum>0</sum>
      <count>0</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>>false</useRange>
    </metric-value>
  </metricValues>
</metric-data>
</metric-datas>

```

- Retrieve data for multiple metrics for the ViewCart.addToCart transaction on the ECommerce-Services server:

```

/controller/rest/applications/ECommerce_E2E/metric-data?metric-path=Business Transaction
Performance|Business Transactions|ECommerce Server|ViewCart.addToCart|*&time-range-
type=BEFORE_NOW&duration-in-mins=15

```

Full Example:

```

curl --user user1@customer1:your_password "http://demo.appdynamics.com/controller/rest/applications
/ECommerce_E2E/metric-data?metric-path=Business%20Transaction%20Performance%7CBusiness%20Transactions%
7CECommerce-Services%7CViewCart.addToCart%7C*&time-range-type=BEFORE_NOW&duration-in-mins=15"

<metric-datas><metric-data>
  <metricId>4155</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|ViewCart.
addToCart|Average Response Time (ms)</metricPath>
  <metricName>BTM|BTs|BT:134|Component:9|Average Response Time (ms)</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450566420000</startTimeInMillis>
      <value>28</value>
      <min>0</min>
      <max>32</max>

```

```

    <current>0</current>
    <sum>84</sum>
    <count>3</count>
    <standardDeviation>0.0</standardDeviation>
    <occurrences>0</occurrences>
    <useRange>true</useRange>
  </metric-value>
</metricValues>
</metric-data>
<metric-data>
  <metricId>4159</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|ViewCart.
addToCart|Number of Very Slow Calls</metricPath>
  <metricName>BTM|BTs|BT:134|Component:9|Number of Very Slow Calls</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450566420000</startTimeInMillis>
      <value>0</value>
      <min>2147483647</min>
      <max>-2147483648</max>
      <current>0</current>
      <sum>0</sum>
      <count>0</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>false</useRange>
    </metric-value>
  </metricValues>
</metric-data>
<metric-data>
  <metricId>4157</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|ViewCart.
addToCart|Errors per Minute</metricPath>
  <metricName>BTM|BTs|BT:134|Component:9|Errors per Minute</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450566420000</startTimeInMillis>
      <value>0</value>
      <min>2147483647</min>
      <max>-2147483648</max>
      <current>0</current>
      <sum>0</sum>
      <count>0</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>false</useRange>
    </metric-value>
  </metricValues>
</metric-data>
<metric-data>
  <metricId>4161</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|ViewCart.
addToCart|Average CPU Used (ms)</metricPath>
  <metricName>BTM|BTs|BT:134|Component:9|Average CPU Used (ms)</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450566420000</startTimeInMillis>
      <value>18</value>
      <min>0</min>
      <max>20</max>
      <current>0</current>
      <sum>54</sum>
      <count>3</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>true</useRange>
    </metric-value>
  </metricValues>

```

```

</metric-data>
<metric-data>
  <metricId>4160</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|ViewCart.
  addToCart|Stall Count</metricPath>
  <metricName>BTM|BTs|BT:134|Component:9|Stall Count</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450566420000</startTimeInMillis>
      <value>0</value>
      <min>2147483647</min>
      <max>-2147483648</max>
      <current>0</current>
      <sum>0</sum>
      <count>0</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>>false</useRange>
    </metric-value>
  </metricValues>
</metric-data>
<metric-data>
  <metricId>4411</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|ViewCart.
  addToCart|95th Percentile Response Time (ms)</metricPath>
  <metricName>BTM|BTs|BT:134|Component:9|95th Percentile Response Time (ms)</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450566420000</startTimeInMillis>
      <value>28</value>
      <min>0</min>
      <max>32</max>
      <current>0</current>
      <sum>84</sum>
      <count>3</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>>true</useRange>
    </metric-value>
  </metricValues>
</metric-data>
<metric-data>
  <metricId>4335</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|ViewCart.
  addToCart|Normal Average Response Time (ms)</metricPath>
  <metricName>BTM|BTs|BT:134|Component:9|Normal Average Response Time (ms)</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450566420000</startTimeInMillis>
      <value>28</value>
      <min>0</min>
      <max>32</max>
      <current>0</current>
      <sum>84</sum>
      <count>3</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>>true</useRange>
    </metric-value>
  </metricValues>
</metric-data>
<metric-data>
  <metricId>4162</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|ViewCart.
  addToCart|Average Block Time (ms)</metricPath>
  <metricName>BTM|BTs|BT:134|Component:9|Average Block Time (ms)</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>

```

```

    <metric-value>
      <startTimeInMillis>1450566420000</startTimeInMillis>
      <value>0</value>
      <min>0</min>
      <max>0</max>
      <current>0</current>
      <sum>0</sum>
      <count>3</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>true</useRange>
    </metric-value>
  </metricValues>
</metric-data>
<metric-data>
  <metricId>4163</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|ViewCart.
addToCart|Average Wait Time (ms)</metricPath>
  <metricName>BTM|BTs|BT:134|Component:9|Average Wait Time (ms)</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450566420000</startTimeInMillis>
      <value>0</value>
      <min>0</min>
      <max>0</max>
      <current>0</current>
      <sum>0</sum>
      <count>3</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>true</useRange>
    </metric-value>
  </metricValues>
</metric-data>
<metric-data>
  <metricId>4156</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|ViewCart.
addToCart|Calls per Minute</metricPath>
  <metricName>BTM|BTs|BT:134|Component:9|Calls per Minute</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450566420000</startTimeInMillis>
      <value>0</value>
      <min>0</min>
      <max>0</max>
      <current>0</current>
      <sum>3</sum>
      <count>30</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>false</useRange>
    </metric-value>
  </metricValues>
</metric-data>
<metric-data>
  <metricId>4331</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|ViewCart.
addToCart|Average Request Size</metricPath>
  <metricName>BTM|BTs|BT:134|Component:9|Average Request Size</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450566420000</startTimeInMillis>
      <value>740</value>
      <min>0</min>
      <max>1057</max>
      <current>0</current>
      <sum>2221</sum>
      <count>3</count>

```

```
<standardDeviation>0.0</standardDeviation>
<occurrences>0</occurrences>
<useRange>true</useRange>
</metric-value>
</metricValues>
</metric-data>
<metric-data>
<metricId>4158</metricId>
<metricPath>Business Transaction Performance|Business Transactions|ECommerce-Services|ViewCart.
addToCart|Number of Slow Calls</metricPath>
<metricName>BTM|BTs|BT:134|Component:9|Number of Slow Calls</metricName>
<frequency>ONE_MIN</frequency>
<metricValues>
<metric-value>
<startTimeInMillis>1450566420000</startTimeInMillis>
<value>0</value>
<min>2147483647</min>
<max>-2147483648</max>
<current>0</current>
<sum>0</sum>
<count>0</count>
<standardDeviation>0.0</standardDeviation>
<occurrences>0</occurrences>
<useRange>false</useRange>
</metric-value>
</metricValues>
</metric-data>
</metric-datas>
```

Disabling Data Rollup

By default, metric data is rolled up for the time frame you request. You can set the rollup parameter to false to get all data points within the time frame. For example:

```
curl --user user1@customer1:your_password "http://demo.appdynamics.com/controller/rest/applications
/ECommerce_E2E/metric-data?rollup=false&metric-path=Overall%20Application%20Performance%7CAverage%20Response%
20Time%20%28ms%29&time-range-type=BEFORE_NOW&duration-in-mins=15"
```

```
<metric-datas><metric-data>
  <metricId>2339</metricId>
  <metricPath>Overall Application Performance|Average Response Time (ms)</metricPath>
  <metricName>BTM|Application Summary|Average Response Time (ms)</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450503540000</startTimeInMillis>
      <value>334</value>
      <min>0</min>
      <max>3340</max>
      <current>2</current>
      <sum>6678</sum>
      <count>20</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>true</useRange>
    </metric-value>
    <metric-value>
      <startTimeInMillis>1450503600000</startTimeInMillis>
      <value>771</value>
      <min>1</min>
      <max>11235</max>
      <current>4113</current>
      <sum>15424</sum>
      <count>20</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>true</useRange>
    </metric-value>
    <metric-value>
      <startTimeInMillis>1450503660000</startTimeInMillis>
      <value>215</value>
      <min>0</min>
      <max>4249</max>
      <current>3</current>
      <sum>4306</sum>
      <count>20</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>true</useRange>
    </metric-value>
    ...
  </metricValues>
</metric-data>
</metric-datas>
```

Using Time Ranges

You can fetch metric data for any time range, including for a range between specific points, such as from 2:00 to 2:15 pm Monday, or for a relative time range.

Time-based input parameters for the metric data API method let you specify a time range in several ways, as described in the following table.

Time Range Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
----------------	----------------	-------	-----------

time-range-type	Query	Possible values are: <ul style="list-style-type: none"> • BEFORE_NOW—must specify the duration-in-mins parameter. • BEFORE_TIME—must specify the duration-in-mins and end-time parameters. • AFTER_TIME—must specify the duration-in-mins and start-time parameters. • BETWEEN_TIMES—must specify the start-time and end-time parameters. The BETWEEN_TIMES range includes the start-time and excludes the end-time. 	Yes
duration-in-mins	Query	Duration (in minutes) to return the metric data.	If time-range-type is BEFORE_NOW, BEFORE_TIME, or AFTER_TIME
start-time	Query	Start time (in milliseconds) from which the metric data is returned in UNIX epoch time.	If time-range-type is AFTER_TIME or BETWEEN_TIMES
end-time	Query	End time (in milliseconds) until which the metric data is returned in UNIX epoch time.	If time-range-type is BEFORE_TIME or BETWEEN_TIMES

Examples

Most examples on this page use the previous 15 minutes as the request time range. The following format examples show other ways you can define the time range for the request.

- Time range of the 15 minutes after December 19, 2015 5:40:00 AM GMT:

```
?time-range-type=AFTER_TIME&start-time=1450532400000&duration-in-mins=15
```

- Time range of the 15 minutes before December 19, 2015 6:00:00 AM GMT.

```
?time-range-type=BEFORE_TIME&end-time=1450533600000&duration-in-mins=15
```

- Time range between December 19, 2015 6:00:00 AM GMT and December 19, 2015 6:30:00 AM GMT:

```
?time-range-type=BETWEEN_TIMES&start-time=1450533600000&end-time=1450535400000
```

Retrieving All Other Traffic Business Transaction Metrics

The **All Other Traffic** business transaction is a type of business transaction that aggregates traffic for new transactions once the business transaction registration limits are reached and uses the special identifier, `_APPDYNAMICS_DEFAULT_TX_`, in API URI paths. See [Business Transactions](#).

The following shows an example of retrieving the average CPU used by the **All Other Traffic** business transaction:


```
curl --user user1@customer1:your_password "http://demo.appdynamics.com:8090/controller/rest/applications/ACME%
20Book%20Store%20Application/metric-data?metric-path=Business%20Transaction%20Performance%7CBusiness%
20Transactions%7CECommerce%20Server%7C_APPDYNAMICS_DEFAULT_TX_%7CAverage%20CPU%20Used%20%28ms%29&time-range-
type=BEFORE_NOW&duration-in-mins=15"
```

```
<metric-datas><metric-data>
  <metricId>4000</metricId>
  <metricPath>Business Transaction Performance|Business Transactions|ECommerce
Server|_APPDYNAMICS_DEFAULT_TX_|Average CPU Used (ms)</metricPath>
  <metricName>BTM|BTs|BT:78|Component:12|Average CPU Used (ms)</metricName>
  <frequency>ONE_MIN</frequency>
  <metricValues>
    <metric-value>
      <startTimeInMillis>1450570800000</startTimeInMillis>
      <value>22</value>
      <min>0</min>
      <max>50</max>
      <current>20</current>
      <sum>3140</sum>
      <count>146</count>
      <standardDeviation>0.0</standardDeviation>
      <occurrences>0</occurrences>
      <useRange>true</useRange>
    </metric-value>
  </metricValues>
</metric-data>
</metric-datas>
```

Retrieve Transaction Snapshots

Snapshots contain details on transactions, by request segment. The time range parameters are the same for snapshots as for retrieving metrics. You can similarly specify a relative time range or a specific range. See [Using Time Ranges](#).

Format

```
GET /controller/rest/applications/application_name/request-snapshots
```

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
application_name	URI	Provide either the application name or application id.	Yes
time-range-type	Query	Possible values are: <ul style="list-style-type: none"> BEFORE_NOW—must specify the duration-in-mins parameter. BEFORE_TIME—must specify the duration-in-mins and end-time parameters. AFTER_TIME—must specify the duration-in-mins and start-time parameters. BETWEEN_TIMES—must specify the start-time and end-time parameters. The BETWEEN_TIMES range includes the start-time and excludes the end-time. 	Yes
duration-in-mins	Query	Duration (in minutes) to return the data.	If time-range-type is BEFORE_NOW, BEFORE_TIME, or AFTER_TIME
start-time	Query	Start time (in milliseconds) from which the data is returned.	If time-range-type is AFTER_TIME or BETWEEN_TIMES
end-time	Query	End time (in milliseconds) until which the data is returned.	If time-range-type is BEFORE_TIME or BETWEEN_TIMES
guids	Query	Array of comma-separated GUIDs for the transaction snapshots. If not specified, retrieves all snapshots in the specified time range.	No

archived	Query	True to retrieve archived snapshots. Default is false.	No
deep-dive-policy	Query	Array of comma-separated snapshot policy filters to apply. Valid values are: <ul style="list-style-type: none"> • SLA_FAILURE • TIME_SAMPLING • ERROR_SAMPLING • OCCURRENCE_SAMPLING • ON_DEMAND • APPLICATION_STARTUP • SLOW_DIAGNOSTIC_SESSION • ERROR_DIAGNOSTIC_SESSION • POLICY_FAILURE_DIAGNOSTIC_SESSION • DIAGNOSTIC_SESSION • INFLIGHT_SLOW_SESSION 	No
application-component-ids	Query	Array of comma-separated tier IDs to filter. The default is all the tiers in the application.	No
application-component-node-ids	Query	Array of comma-separated node ID filters. Default is all the nodes in the application	No
business-transaction-ids	Query	Array of comma-separated business transaction ID filters. Default is all the business transactions in the application.	No
user-experience	Query	Array of comma-separated user experiences filters. Valid values are: <ul style="list-style-type: none"> • NORMAL • SLOW • VERY_SLOW • STALL • ERROR 	No
first-in-chain	Query	If true, retrieve only the first request from the chain. Default is false.	No
need-props	Query	If true, the values of the following snapshot properties are included in the output. These values correspond to the values of the data-collector-type parameter. If false, the default, these values are empty in the output. <ul style="list-style-type: none"> • errorDetails • errorIDs • httpParameters • businessData • cookies • httpHeaders • sessionKeys • responseHeaders • logMessages • transactionProperties • transactionEvents • dotnetProperty 	No
need-exit-calls	Query	If true, exit calls are included in the result. Default is false.	No
execution-time-in-milis	Query	If set, retrieves only data for requests with execution times greater than this value.	No
session-id	Query	If set, retrieves data only for this session id.	No
user-principal-id	Query	If set, retrieves data only for this user login.	No
error-ids	Query	Array of comma-separated error codes to filter by. The default is to retrieve all error codes.	No
starting-request-id, ending-request-id	Query	If set, retrieves data only for this range of request IDs.	No
error-occurred	Query	If true, retrieves only error requests. Default is false.	No
diagnostic-snapshot	Query	If true, retrieves only diagnostic snapshots. Default is false.	No
bad-request	Query	If true, retrieves only slow and error requests. Default is false.	No
diagnostic-session-guid	Query	Array of comma-separated diagnostic session GUIDs to filter.	No
data-collector-name	Query	Used with data-collector-value to filter snapshot collection based on the value of a data collector.	No

data-collector-value	Query	Used with data-collector-name to filter snapshot collection based on the value of a data collector.	If data-collector-name is set.
data-collector-type	Query	Used with data-collector-name and data-collector-value to filter snapshot collection based on the value of a data collector. Some of the values contain spaces. All are case-sensitive and where indicated the spaces are required. Valid values are: <ul style="list-style-type: none"> • Error IDs • Stack Traces • Error Detail • Http Parameter • Business Data (This type is a method invocation data collector.) • Cookie • Http Header • Session Key • Response Header • Log Message • Transaction Property • Transaction Event • Dotnet Property • isProtoBuf • EUM Request GUID 	
output	Query	HTTP Request parameter included as part of the URL to change the output format Valid values are XML (default) or JSON.	No
maximum-results	Query	If specified, the number of maximum results will be returned. If not specified, a default of 600 results can be returned at most.	No

Examples

- Retrieve list of transaction snapshots for the ACME Book Store:

```
/controller/rest/applications/ECommerce_E2E-Fulfillment/request-snapshots?time-range-type=BEFORE_NOW&duration-in-mins=5
```

Full Example:

```
curl --user user1@customer1:your_password "http://demo.appdynamics.com/controller/rest/applications/ECommerce_E2E-Fulfillment/request-snapshots?time-range-type=BEFORE_NOW&duration-in-mins=5"
```

```
<request-segment-datas><request-segment-data>
  <id>0</id>
  <archived>>false</archived>
  <requestGUID>18a9ae17-33a8-4d24-b3fa-558fe42b98b5</requestGUID>
  <businessTransactionId>113</businessTransactionId>
  <applicationId>8</applicationId>
  <applicationComponentId>14</applicationComponentId>
  <applicationComponentNodeId>13</applicationComponentNodeId>
  <async>>false</async>
  <threadID>58</threadID>
  <threadName>http-nio-8080-exec-8</threadName>
  <localStartTime>1450574075422</localStartTime>
  <serverStartTime>1450574075422</serverStartTime>
  <firstInChain>true</firstInChain>
  <callChain>Component:14</callChain>
  <localID>0</localID>
  <errorOccured>>false</errorOccured>
  <hasDeepDiveData>true</hasDeepDiveData>
  <userExperience>NORMAL</userExperience>
  <timeTakenInMilliSecs>3693</timeTakenInMilliSecs>
  <cpuTimeTakenInMilliSecs>19</cpuTimeTakenInMilliSecs>
  <warningThreshold>5318 ms. 3.0x of standard deviation [453.7 ms] for moving average [3956.8 ms]
  (minimum baseline: 200 ms) for the last 11617 minutes.</warningThreshold>
  <criticalThreshold>5772 ms. 4.0x of standard deviation [453.7 ms] for moving average [3956.8 ms]
  (minimum baseline: 600 ms) for the last 11617 minutes.</criticalThreshold>
  <summary>Scheduled Snapshots: one every 10 minutes.</summary>
  <errorSummary></errorSummary>
  <diagnosticSessionGUID></diagnosticSessionGUID>
  <deepDivePolicy>TIME_SAMPLING</deepDivePolicy>
```

```

<delayedDeepDive>false</delayedDeepDive>
<delayedDeepDiveOffSet>0</delayedDeepDiveOffSet>
<exitCallsDataTruncated>false</exitCallsDataTruncated>
<URL>/appdynamicspilot/rest/fulfillment</URL>
<errorIDs/>
<errorDetails/>
<httpParameters/>
<businessData/>
<cookies/>
<httpHeaders/>
<sessionKeys/>
<responseHeaders/>
<logMessages/>
<transactionProperties/>
<transactionEvents/>
<unresolvedCallInCallChain>false</unresolvedCallInCallChain>
<dotnetProperty/>
<endToEndLatency>-1</endToEndLatency>
</request-segment-data>
...
<request-segment-data>
  <id>0</id>
  <archived>false</archived>
  <requestGUID>bfce5066-2409-4a4b-a869-6afcc06614d6</requestGUID>
  <businessTransactionId>113</businessTransactionId>
  <applicationId>8</applicationId>
  <applicationComponentId>14</applicationComponentId>
  <applicationComponentNodeId>13</applicationComponentNodeId>
  <async>false</async>
  <threadID>60</threadID>
  <threadName>http-nio-8080-exec-10</threadName>
  <localStartTime>1450574082926</localStartTime>
  <serverStartTime>1450574082926</serverStartTime>
  <firstInChain>true</firstInChain>
  <callChain>Component:14</callChain>
  <localID>0</localID>
  <errorOccured>false</errorOccured>
  <hasDeepDiveData>true</hasDeepDiveData>
  <userExperience>NORMAL</userExperience>
  <timeTakenInMilliSecs>3634</timeTakenInMilliSecs>
  <cpuTimeTakenInMilliSecs>16</cpuTimeTakenInMilliSecs>
  <warningThreshold>5318 ms. 3.0x of standard deviation [453.7 ms] for moving average [3956.8 ms]
  (minimum baseline: 200 ms) for the last 11617 minutes.</warningThreshold>
  <criticalThreshold>5772 ms. 4.0x of standard deviation [453.7 ms] for moving average [3956.8 ms]
  (minimum baseline: 600 ms) for the last 11617 minutes.</criticalThreshold>
  <summary>[null]</summary>
  <errorSummary></errorSummary>
  <diagnosticSessionGUID></diagnosticSessionGUID>
  <deepDivePolicy>CROSS_APP_POLICY</deepDivePolicy>
  <delayedDeepDive>false</delayedDeepDive>
  <delayedDeepDiveOffSet>0</delayedDeepDiveOffSet>
  <exitCallsDataTruncated>false</exitCallsDataTruncated>
  <URL>/appdynamicspilot/rest/fulfillment</URL>
  <errorIDs/>
  <errorDetails/>
  <httpParameters/>
  <businessData/>
  <cookies/>
  <httpHeaders/>
  <sessionKeys/>
  <responseHeaders/>
  <logMessages/>
  <transactionProperties/>
  <transactionEvents/>
  <unresolvedCallInCallChain>false</unresolvedCallInCallChain>
  <dotnetProperty/>
  <endToEndLatency>-1</endToEndLatency>
</request-segment-data>
</request-segment-datas>

```

- Retrieve list of transaction snapshots including the snapshot fields that are associated with an HTTP parameter data collector:

```
/controller/rest/applications/ECommerce_E2E-Fulfillment/request-snapshots?time-range-
type=BEFORE_NOW&duration-in-mins=5&data-collector-type=Http Parameter&data-collector-name=param1&data-
collector-value=%5B100%5D&need-props=true
```

Full Example:

```
curl --user user1@customer1:your_password "http://demo.appdynamics.com/controller/rest/applications
/ECommerce_E2E-Fulfillment/request-snapshots?time-range-type=BEFORE_NOW&duration-in-mins=5&data-
collector-type=Http%20Parameter&data-collector-name=param1&data-collector-value=%5B100%5D&need-
props=true"
```

```
<request-segment-datas><request-segment-data>
  <id>0</id>
  <archived>>false</archived>
  <requestGUID>07532d68-42b8-4a79-877a-dedf2912a2cf</requestGUID>
  <businessTransactionId>128</businessTransactionId>
  <applicationId>2</applicationId>
  <applicationComponentId>5</applicationComponentId>
  <applicationComponentNodeId>4</applicationComponentNodeId>
  <async>>false</async>
  <threadID>60</threadID>
  <threadName>http-8000-Processor24</threadName>
  <localStartTime>1389164292752</localStartTime>
  <serverStartTime>1389164292752</serverStartTime>
  <firstInChain>true</firstInChain>
  <callChain>Component:5</callChain>
  <localID>0</localID>
  <errorOccured>true</errorOccured>
  <hasDeepDiveData>true</hasDeepDiveData>
  <userExperience>ERROR</userExperience>
  <timeTakenInMilliSecs>105</timeTakenInMilliSecs>
  <cpuTimeTakenInMilliSecs>3839000</cpuTimeTakenInMilliSecs>
  <summary>[Manual Diagnostic Session] - org.hibernate.util.JDBCExceptionReporter : Cannot create
  PoolableConnectionFactory (Unknown database 'appdy') </summary>
  <errorSummary/>
  <diagnosticSessionGUID>d70a41d9-a96f-46e8-9fbc-31061c6e452f</diagnosticSessionGUID>
  <deepDivePolicy>ON_DEMAND</deepDivePolicy>
  <delayedDeepDive>>false</delayedDeepDive>
  <delayedDeepDiveOffSet>0</delayedDeepDiveOffSet>
  <exitCallsDataTruncated>>false</exitCallsDataTruncated>
  <URL>/appdynamicspilot/1.bookslist</URL>
  <httpSessionID>088B2A2DD0EF77424DD0EB3346A441F9</httpSessionID>
  <errorIDs>
  <long>29</long>
  </errorIDs>
  <errorDetails>
  <name-value>
  <id>0</id>
  <name>1. org.hibernate.util.JDBCExceptionReporter</name>
  <value>org.hibernate.util.JDBCExceptionReporter : Cannot create PoolableConnectionFactory (Unknown
  database 'appdy')</value>
  </name-value>
  </errorDetails>
  <httpParameters>
  <name-value>
  <id>0</id>
  <name>param1</name>
  <value>[100]</value>
  </name-value>
  </httpParameters>
  <businessData/>
  <cookies/>
  <httpHeaders/>
  <sessionKeys/>
  <responseHeaders/>
```

```

<logMessages/>
<transactionProperties>
<name-value>
<id>0</id>
<name>Servlet URI</name>
<value>/appdynamicspilot/WEB-INF/presentation/bookslist.jsp</value>
</name-value>
<name-value>
<id>0</id>
<name>ProcessID</name>
<value>65331</value>
</name-value>
</transactionProperties>
<transactionEvents/>
<unresolvedCallInCallChain>>false</unresolvedCallInCallChain>
<dotnetProperty/>
</request-segment-data></request-segment-datas>

```

Retrieve Controller Audit History

The Controller audit history is a record of the configuration and user activities in the Controller configuration. The `ControllerAuditHistory` API method returns the audit log for the time range specified. The output format can be JSON or CSV. This information is the same as that found in the audit log file. See [Platform Log Files](#) and [Log File Information by Platform](#)

Format

```

GET /controller/ ControllerAuditHistory?startTime=<start-time>&endTime=<end-time>&include=<field>:
<value>&exclude=<field>:<value>

```

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
start-time	Query	Start time in the format: yyyy-MM-dd'T'HH:mm:ss.SSSZ	Yes
end-time	Query	End time in the format: yyyy-MM-dd'T'HH:mm:ss.SSSZ	Yes
time-zone-id	Query	Time zone	No
include	Query	Restricted information in the Controller audit history	No
exclude	Query	Restricted information in the Controller audit history	No

- To control the size of the output, the range between the `start-time` and `end-time` cannot exceed 24 hours. For periods longer than 24 hours, use multiple queries with consecutive time parameters.
- Multiple filters of the same type are allowed.
 - The backend API treats included filters with the same `<field>` with relationship OR
 - Filters with different `<field>` with relationship AND. There is no direct interaction between `include` and `exclude` filters.
- Each filter needs to be a parameter, e.g. `include=filterName1:filterValue1&include=filterName2:filterValue2`. See the below examples:

```

http://localhost:8080/controller/ControllerAuditHistory?startTime=yyyy-MM-dd&HH:mm:ss.SSSZ&endTime=yyyy-MM-
dd&HH:mm:ss.SSSZ?include=filterName1:filterValue1&include=filterName1:filterValue1&exclude=filterName1:
filterValue1&exclude=filterName1:filterValue1

```

```
curl --user user1@customer1:welcome "http://demo.appdynamics.com:8090/controller/ControllerAuditHistory?
startTime=2015-12-19T10:50:03.607-0700&endTime=2015-12-19T17:50:03.607-0700&timeZoneId=America%2FSan%
20Francisco&include=username:user1&include=action:LOGIN&exclude=accountName:system&exclude=action:OBJECT_UPDATE"

[{"timeStamp":1450569821811,"auditDateTime":"2015-12-20T00:03:41.811+0000","accountName":"customer1",
securityProviderType":"INTERNAL","userName":"user1","action":"LOGIN"},{"timeStamp":1450570234518,
auditDateTime":"2015-12-20T00:10:34.518+0000","accountName":"customer1","securityProviderType":"INTERNAL",
userName":"user1","action":"LOGIN"},{"timeStamp":1450570273841,"auditDateTime":"2015-12-20T00:11:13.841+0000",
accountName":"customer1","securityProviderType":"INTERNAL","userName":"user1","action":"OBJECT_CREATED",
objectType":"AGENT_CONFIGURATION"},
...
{"timeStamp":1450570675345,"auditDateTime":"2015-12-20T00:17:55.345+0000","accountName":"customer1",
securityProviderType":"INTERNAL","userName":"user1","action":"OBJECT_DELETED","objectType":"
BUSINESS_TRANSACTION"},{"timeStamp":1450570719240,"auditDateTime":"2015-12-20T00:18:39.240+0000","accountName":"
customer1","securityProviderType":"INTERNAL","userName":"user1","action":"APP_CONFIGURATION","objectType":"
APPLICATION","objectName":"ACME Book Store Application"},{"timeStamp":1450571834835,"auditDateTime":"2015-12-
20T00:37:14.835+0000","accountName":"customer1","securityProviderType":"INTERNAL","userName":"user1","action

curl --user user1@customer1:welcome "http://127.0.0.1:8080/controller/ControllerAuditHistory?startTime=2019-05-
28T08:00:03.607-0700&endTime=2019-05-28T11:32:03.607-0700&timeZoneId=America%2FSan%
20Francisco&include=applicationName:ACME"
[{"timeStamp":1559066415823,"auditDateTime":"2019-05-28T18:00:15.823+0000","accountName":"customer1",
securityProviderType":"INTERNAL","userName":"user1","action":"LOGIN","objectId":0,"applicationName":"ACME"}]
```

Configure Metric Retention by Account

You can configure the Controller to purge stale metrics once a day based on the account.

- Stale metrics are metrics that have not had new data reported based on the number of days configured.
- This only deletes EUM and SIM metrics that are more than two days old.



To configure this option, you must be the account owner.

Format

POST /controller/api/accounts/<account_id>/metricstaleduration/<number_of_days>

Input Parameters

Parameter Name	Parameter Type	Value
account_id	URI	The account ID.
number_of_days	Integer	The number of days you want to retain stale metrics.

Example

```
curl -X POST -u user1@customer1:your_password "http://demo.appdynamics.com:8090/controller/api/accounts/2
/metricstaleduration/3"
```

Configure Metric Retention by Application

You can configure the Controller to purge stale metrics once a day based on application.

- Stale metrics are metrics that have not had new data reported based on the number of days configured.

- This only deletes EUM and SIM metrics that are more than two days old.

To configure this option, you must have administrator permissions or higher.

Format

POST /controller/api/accounts/<account_id>/applications/<application_name>/metricstaleduration/<number_of_days>

Input Parameters

Parameter Name	Parameter Type	Value
account_id	URI	The account ID.
application_id	URI	The application ID.
number_of_days	Integer	The number of days you want to retain stale metrics.

Example

```
curl -X POST -u user1@customer1:your_password "http://demo.appdynamics.com:8090/controller/api/accounts/2/application/12/metricstaleduration/3"
```


Alert and Respond API

This page provides links to the Alert and Respond APIs that allow you to create, configure and manage:

- [Health Rules](#)
- [Schedules](#)
- [Policies](#)
- [Actions](#)
- [Email Digests](#)
- [Action Suppression](#)
- [Events and Action Suppression](#)



You can create and use the identity type, `API Clients`, to provide secure access to the AppDynamics controller using REST API calls. These calls use Open Authorization (OAuth) token-based authentication. You can create new API Client identity types that can be used to generate OAuth tokens. See [API Clients](#).

Health Rule API

Related pages:

- [Health Rules](#)

This page describes the Health Rule API methods you can use to create, configure, update, and delete health rules for multiple applications simultaneously. This API allows you to programmatically update and maintain single or multiple health rules and migrate them across applications or Controllers.



- Minimal syntax validation of the JSON payload is done when creating the health rule.
- Path validation for a specified metric is not done. Ensure that you provide valid paths for all the metrics you define.
- If metrics are not resolved during the health rule evaluation, the health rule attains an unknown (?) state. Ensure that you provide valid metrics for all the affected entities you define.

Create a Health Rule

Creates a new health rule from the specified JSON payload. See [Property Details](#)

Resource URL

```
POST <controller_url>/controller/alerting/rest/v1/applications/<application_id>/health-rules
```

Request/Response Format

JSON

Example

This example creates a health rule with an affected entity type `business transaction performance` and defines the evaluation criteria for the health rule. See [Download Examples](#)

Retrieve a List of Health Rules for an Application

This API returns a list of all the health rule IDs and names for the specified application ID. To retrieve complete details of the health rule, use `GET //health-rule/{health-rule-id}`. See [Property Details](#)

Resource URL

```
GET <controller_url>/controller/alerting/rest/v1/applications/<application_id>/health-rules
```

Response Format

JSON

Example Response

```
[
  {
    "id": 1,
    "name": "Machine Availability is too low",
    "enabled": true
  },
  {
    "id": 2,
    "name": "Overall Disk Space Available is too low",
    "enabled": true
  },
  {
    "id": 3,
    "name": "CPU Usage is too high",
    "enabled": true
  },
  {
    "id": 4,
    "name": "Memory Usage is too high",
    "enabled": true
  },
  {
    "id": 5,
    "name": "Swap Usage is too high",
    "enabled": true
  },
  {
    "id": 6,
    "name": "Disk Usage is too high on at least one partition",
    "enabled": false
  }
]
```

Retrieve Details of a Specified Health Rule

This API Returns the health rule details for the specified health rule ID.

 JMX Health Rules are not supported.

Resource URL

GET <controller_url>/controller/alerting/rest/v1/applications/<application_id>/health-rules/{health-rule-id}

Response Format

JSON

Example Response

```
{
  "id": 26,
  "name": "My new health rule",
  "enabled": true,
  "useDataFromLastNMinutes": 30,
  "waitTimeAfterViolation": 5,
  "scheduleName": "Always",
  "affects": {
```

```

    "affectedEntityType": "BUSINESS_TRANSACTION_PERFORMANCE",
    "affectedBusinessTransactions": {
      "businessTransactionScope": "ALL_BUSINESS_TRANSACTIONS"
    }
  },
  "evalCriteria": {
    "criticalCriteria": {
      "conditionAggregationType": "ALL",
      "conditionExpression": null,
      "conditions": [
        {
          "name": "Condition 1",
          "shortName": "A",
          "evaluateToTrueOnNoData": false,
          "evalDetail": {
            "evalDetailType": "SINGLE_METRIC",
            "metricAggregateFunction": "VALUE",
            "metricPath": "Average CPU Used (ms)",
            "metricEvalDetail": {
              "metricEvalDetailType": "BASELINE_TYPE",
              "baselineCondition": "WITHIN_BASELINE",
              "baselineName": "All data - Last 15 days",
              "compareValue": 30.5,
              "baselineUnit": "PERCENTAGE"
            }
          },
          "triggerEnabled": false,
          "minimumTriggers": 0
        }
      ],
      "evalMatchingCriteria": {
        "matchType": "ANY_NODE",
        "value": null
      }
    },
    "warningCriteria": {
      "conditionAggregationType": "ALL",
      "conditionExpression": null,
      "conditions": [
        {
          "name": "Condition 1",
          "shortName": "A",
          "evaluateToTrueOnNoData": false,
          "evalDetail": {
            "evalDetailType": "METRIC_EXPRESSION",
            "metricExpression": "({metric1} + ({metric2} * 3))",
            "metricExpressionVariables": [
              {
                "variableName": "metric1",
                "metricAggregateFunction": "VALUE",
                "metricPath": "95th Percentile Response Time (ms)"
              },
              {
                "variableName": "metric2",
                "metricAggregateFunction": "MAXIMUM",
                "metricPath": "Average CPU Used (ms)"
              }
            ],
            "metricEvalDetail": {
              "metricEvalDetailType": "SPECIFIC_TYPE",
              "compareCondition": "GREATER_THAN_SPECIFIC_VALUE",
              "compareValue": 10
            }
          },
          "triggerEnabled": false,
          "minimumTriggers": 0
        }
      ],
      "evalMatchingCriteria": {
        "matchType": "ANY_NODE",
        "value": null
      }
    }
  }
}

```

```
}  
  }  
}
```

Update a Health Rule

This API updates an existing health rule (required fields) with details from the specified health rule ID. See [Property Details](#)

Resource URL

```
PUT <controller_url>/controller/alerting/rest/v1/applications/<application_id>/health-rules/{health-rule-id}
```

Request/Response Format

JSON

Example

Delete a Health Rule

Deletes an existing health rule with the specified ID.

Resource URL

```
DELETE <controller_url>/controller/alerting/rest/v1/applications/<application_id>/health-rules/{health-rule-id}
```

Update a Health Rule Configuration

This API updates one or more configuration setting(s) of a health rule. See [Property Details](#)

You can enter one or both of the following field(s) in the request:

- Enable/disable the health rule.
- Update the schedule of the health rule.

Resource URL

```
PUT <controller_url>/controller/alerting/rest/v1/applications/<application_id>/health-rules/{health-rule-id}/configuration
```

Request/Response Format

JSON

Example

Response Codes

Code	Description
------	-------------

200	Fetches successfully
201	Created successfully
204	Deleted successfully
400	Bad request
401	Unauthorized
403	Forbidden
404	Resource not found
409	Already exists

Property Details

HealthRule

Property Name	Type and Valid Values	Description
id	integer	Auto-generated by the system and returned in the response. It is a <code>readOnly</code> value.
name	string Minimum length: 1	Name of the health rule.
enabled	boolean Default value: <code>true</code>	Sets the health rule to enabled/disabled state. A health rule is evaluated only if it is in <code>enabled</code> state.
useDataFromLastNMinutes	integer Minimum value: 1 Maximum value: 360	The time interval (in minutes) during which the data collected is considered for health rule evaluation. Enter a value between 1 to 9 or a multiple of 10 that is less than 360.
waitTimeAfterViolation	integer Minimum time: 1 minute	The wait time after a violation in minutes.
scheduleName	string Default option: <code>Always</code>	Name of schedule to be associated with the health rule for evaluation.

affects*		<p>Describes entities affected by the health rule. For example, business transactions, servers, or databases.</p> <p>Affects</p> <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>affectedEntityType</td> <td>string</td> <td> OVERALL_APPLICATION_PERFORMANCE BUSINESS_TRANSACTION_PERFORMANCE TIER_NODE_TRANSACTION_PERFORMANCE TIER_NODE_HARDWARE SERVERS_IN_APPLICATION BACKENDS ERRORS SERVICE_ENDPOINTS INFORMATION_POINTS CUSTOM DATABASES SERVERS </td> </tr> </tbody> </table>	Property	Type	Enums	affectedEntityType	string	OVERALL_APPLICATION_PERFORMANCE BUSINESS_TRANSACTION_PERFORMANCE TIER_NODE_TRANSACTION_PERFORMANCE TIER_NODE_HARDWARE SERVERS_IN_APPLICATION BACKENDS ERRORS SERVICE_ENDPOINTS INFORMATION_POINTS CUSTOM DATABASES SERVERS
Property	Type	Enums						
affectedEntityType	string	OVERALL_APPLICATION_PERFORMANCE BUSINESS_TRANSACTION_PERFORMANCE TIER_NODE_TRANSACTION_PERFORMANCE TIER_NODE_HARDWARE SERVERS_IN_APPLICATION BACKENDS ERRORS SERVICE_ENDPOINTS INFORMATION_POINTS CUSTOM DATABASES SERVERS						
evalCriteria*		<p>Defines a condition or a set of conditions (maximum of 8) expressed as a boolean expression to evaluate the health rule. Depending on affectedEntityType a condition may or may not contain evalMatchingCriteria. Conditions are classified as:</p> <ul style="list-style-type: none"> critical or warning 						

HealthRuleSummaryArray

Property	Type
id*	integer
name	string minLength: 1
enabled*	boolean

HealthRuleConfiguration

The configuration details of a health rule that you can update individually without the need to send the complete health rule JSON payload. You can mention one or more properties and all those properties are set to the new specified values.

Property	Type
enabled	boolean
scheduleName	string

MetricEvalDetail

Property	Type	Enums
metricEvalDetailType*	string	BASELINE_TYPE SPECIFIC_TYPE

BaselineMetricEvalDetail

The deviation of a metric from the baseline used to evaluate the health rule.

Property	Type	Enums
metricEvalDetailType*	string	BASELINE_TYPE SPECIFIC_TYPE
baselineCondition*	string	WITHIN_BASELINE NOT_WITHIN_BASELINE GREATER_THAN_BASELINE LESS_THAN_BASELINE
baselineName*	string minLength: 1	
compareValue*	number minimum: 0	
baselineUnit*	string	STANDARD_DEVIATIONS PERCENTAGE

SpecificValueMetricEvalDetail

The deviation of a metric from a specific value used to evaluate the health rule.

Property	Type	Enums
metricEvalDetailType*	string	BASELINE_TYPE SPECIFIC_TYPE
compareCondition*	string	GREATER_THAN_SPECIFIC_VALUE LESS_THAN_SPECIFIC_VALUE
compareValue*	number minimum: 0	

MetricAggregateFunction

Metrics aggregated to determine the deviation and evaluate the health rule.

Property	Type	Enums
----------	------	-------

MetricAggregateFunction*	string	MINIMUM MAXIMUM VALUE SUM COUNT CURRENT GROUP_COUNT
--------------------------	--------	---

SingleMetricEvalDetail

The deviation of a single metric from the aggregated value used to evaluate the health rule.

Property	Type	Enums
evalDetailType*	string	SINGLE_METRIC METRIC_EXPRESSION
metricAggregateFunction*	string	MINIMUM MAXIMUM VALUE SUM COUNT CURRENT GROUP_COUNT
metricPath*	string minLength: 1	
metricEvalDetail*	string	BASELINE_TYPE SPECIFIC_TYPE

MetricExpressionEvalDetail

The metric expression used to evaluate the health rule.

Property	Type	Enums
evalDetailType*	string	SINGLE_METRIC METRIC_EXPRESSION
metricExpression*	string minLength: 1	

metricExpressionVariables*	string minItems: 2	MetricDetailWithVariableName <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>variableName*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>metricAggregateFunction*</td> <td>string</td> <td>MINIMUM MAXIMUM VALUE SUM COUNT CURRENT GROUP_COUNT</td> </tr> <tr> <td>metricPath*</td> <td>string minLength: 1</td> <td></td> </tr> </tbody> </table>	Property	Type	Enums	variableName*	string minLength: 1		metricAggregateFunction*	string	MINIMUM MAXIMUM VALUE SUM COUNT CURRENT GROUP_COUNT	metricPath*	string minLength: 1	
Property	Type	Enums												
variableName*	string minLength: 1													
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metricPath*	string minLength: 1													
metricEvalDetail*	string	SpecificValueMetricEvalDetail <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>metricEvalDetailType*</td> <td>string</td> <td>BASELINE_TYPE SPECIFIC_TYPE</td> </tr> <tr> <td>compareCondition*</td> <td>string</td> <td>GREATER_THAN_SPECIFIC_VALUE LESS_THAN_SPECIFIC_VALUE</td> </tr> <tr> <td>compareValue*</td> <td>number minimum: 0</td> <td></td> </tr> </tbody> </table>	Property	Type	Enums	metricEvalDetailType*	string	BASELINE_TYPE SPECIFIC_TYPE	compareCondition*	string	GREATER_THAN_SPECIFIC_VALUE LESS_THAN_SPECIFIC_VALUE	compareValue*	number minimum: 0	
Property	Type	Enums												
metricEvalDetailType*	string	BASELINE_TYPE SPECIFIC_TYPE												
compareCondition*	string	GREATER_THAN_SPECIFIC_VALUE LESS_THAN_SPECIFIC_VALUE												
compareValue*	number minimum: 0													

MetricDetailWithVariableName

Property	Type	Enums
variableName*	string minLength: 1	
metricAggregateFunction*	string	MINIMUM MAXIMUM VALUE SUM COUNT CURRENT GROUP_COUNT
metricPath*	string minLength: 1	

NodeEvalMatchingCriteria

Property	Type	Enums
matchType	string	AVERAGE ANY_NODE PERCENTAGE_NODES NUMBER_OF_NODES
value	number	
Enter the matching criteria only when you select PERCENTAGE_NODES or NUMBER_OF_NODES as matchType. If you select NUMBER_OF_NODES, enter an integer; else if you select PERCENTAGE_NODES, enter a number.		
	minimum: 0	

Condition

A single condition that can be independently evaluated to `true` or `false`. List of conditions (maximum 8) along with other properties form a criteria.

Property	Description	Type/Enums						
name*	Name of the condition.	string						
shortname*	A short name used in <code>conditionExpression</code> to evaluate CUSTOM <code>conditionType</code> .	string pattern: <code>^[A-Z]{1,3}\$</code> Enums A B C D E F G H						
evaluateToTrueOnNoData	Controls the evaluation of the condition in cases where any metric on which the condition is based, returns no data. The condition evaluates to <code>unknown</code> by default when no data is returned. If the health rule is based on all the conditions evaluating to <code>true</code> , having no data returned may affect whether the health rule triggers an action.	boolean default: <code>false</code>						
evalDetail*	Details of metric(s) considered for evaluation of the condition. Use SINGLE_METRIC to evaluate a single metric. Use METRIC_EXPRESSION to evaluate a metric expression.	ConditionEvalDetail <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>evalDetailType</td> <td>string</td> <td>SINGLE_METRIC METRIC_EXPRESSION</td> </tr> </tbody> </table>	Property	Type	Enums	evalDetailType	string	SINGLE_METRIC METRIC_EXPRESSION
Property	Type	Enums						
evalDetailType	string	SINGLE_METRIC METRIC_EXPRESSION						
triggerEnabled	If set to <code>true</code> , the value in field <code>minimumTriggers</code> is considered for evaluation.	boolean default: <code>false</code>						

minimumTriggers	If you set a non-zero value, persistence thresholds are considered when evaluating the conditions. Ensure that you define a value less than useDataFromLastNMinutes .	integer default: 0 minimum: 0 maximum: 30
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ConditionEvalDetail

Property	Type	Enums
evalDetailType	string	SINGLE_METRIC METRIC_EXPRESSION

Criteria

Property	Description	Type/Enums
conditionAggregationType	Condition evaluation criteria that constitute a health rule violation.	string default: ALL Enums ALL ANY CUSTOM
conditionExpression	Use only when you set the conditionAggregationType variable to CUSTOM . Use the ShortName of the condition to define the boolean expression.	String minLength: 1

<p>conditions*</p> <p>A single condition that can be evaluated independently to true or false. OR</p> <p>A list of conditions (maximum of 8) along with other properties to form a criteria.</p>	<p>String</p> <p>minItems: 1</p> <p>Condition</p> <table border="1"> <thead> <tr> <th>Property</th> <th>Description</th> <th>Type/Enums</th> </tr> </thead> <tbody> <tr> <td>name*</td> <td>Name of the condition.</td> <td>string</td> </tr> <tr> <td>shortname*</td> <td>A short name used in conditionExpression to evaluate CUSTOM conditionType.</td> <td>string pattern: ^[A-Z]{1,3}\$ Enums A B C D E F G H</td> </tr> <tr> <td>evaluateToTrueOnNoData</td> <td>Controls the evaluation of the condition in cases where any metric on which the condition is based, returns no data. The default when no data is returned is for the condition to evaluate to unknown. If the health rule is based on all the conditions evaluating to true, having no data returned may affect whether the health rule triggers an action.</td> <td>boolean default: false</td> </tr> <tr> <td>evalDetail*</td> <td>Details of metric(s) considered for evaluation of the condition. Use SINGLE_METRIC to evaluate a single metric. Use METRIC_EXPRESSION to evaluate a metric expression.</td> <td>ConditionEvalDetail <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>evalDetailType</td> <td>string</td> <td>SINGLE_METRIC METRIC_EXPRESSION</td> </tr> </tbody> </table></td> </tr> <tr> <td>triggerEnabled</td> <td>If set to true, the value in field minimumTriggers is considered for evaluation.</td> <td>boolean default: false</td> </tr> <tr> <td>minimumTriggers</td> <td>If you set a non-zero value, persistence thresholds are considered when evaluating the conditions. Ensure that you define a value less than useDataFromLastNMinutes.</td> <td>integer default: 0 minimum: 0 maximum: 30</td> </tr> </tbody> </table>	Property	Description	Type/Enums	name*	Name of the condition.	string	shortname*	A short name used in conditionExpression to evaluate CUSTOM conditionType.	string pattern: ^[A-Z]{1,3}\$ Enums A B C D E F G H	evaluateToTrueOnNoData	Controls the evaluation of the condition in cases where any metric on which the condition is based, returns no data. The default when no data is returned is for the condition to evaluate to unknown. If the health rule is based on all the conditions evaluating to true, having no data returned may affect whether the health rule triggers an action.	boolean default: false	evalDetail*	Details of metric(s) considered for evaluation of the condition. Use SINGLE_METRIC to evaluate a single metric. Use METRIC_EXPRESSION to evaluate a metric expression.	ConditionEvalDetail <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>evalDetailType</td> <td>string</td> <td>SINGLE_METRIC METRIC_EXPRESSION</td> </tr> </tbody> </table>	Property	Type	Enums	evalDetailType	string	SINGLE_METRIC METRIC_EXPRESSION	triggerEnabled	If set to true, the value in field minimumTriggers is considered for evaluation.	boolean default: false	minimumTriggers	If you set a non-zero value, persistence thresholds are considered when evaluating the conditions. Ensure that you define a value less than useDataFromLastNMinutes.	integer default: 0 minimum: 0 maximum: 30
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evalMatchingCriteria	<p>The criteria for evaluating a condition for the following health rule types:</p> <ul style="list-style-type: none"> • Business Transaction • Node health-hardware • Node health-transaction performance <p>It defines how many nodes in the affected entities must violate the condition before the health rule is considered to violate.</p>	<h3>NodeEvalMatchingCriteria</h3> <table border="1"> <thead> <tr> <th>Property</th> <th>Description</th> <th>Type /Enums</th> </tr> </thead> <tbody> <tr> <td>matchType</td> <td> <p>The evaluation scope type that defines how many nodes in the affected entities must violate the condition before the health rule is considered violated.</p> <p>Enter the matching criteria only when you select PERCENTAGE_NODES or NUMBER_OF_NODES as matchType.</p> </td> <td> String Enums AVERAGE ANY_NODE PERCENTAGE_NODES NUMBER_OF_NODES </td> </tr> <tr> <td>value</td> <td> <p>The number or percentage of nodes that must violate the condition to constitute a health rule violation. If you select NUMBER_OF_NODES, enter an integer. If you select PERCENTAGE_NODES, enter a number.</p> </td> <td> number minimum: 0 </td> </tr> </tbody> </table>	Property	Description	Type /Enums	matchType	<p>The evaluation scope type that defines how many nodes in the affected entities must violate the condition before the health rule is considered violated.</p> <p>Enter the matching criteria only when you select PERCENTAGE_NODES or NUMBER_OF_NODES as matchType.</p>	String Enums AVERAGE ANY_NODE PERCENTAGE_NODES NUMBER_OF_NODES	value	<p>The number or percentage of nodes that must violate the condition to constitute a health rule violation. If you select NUMBER_OF_NODES, enter an integer. If you select PERCENTAGE_NODES, enter a number.</p>	number minimum: 0
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EntityMatchingPattern

Property	Type	Enums
matchTo*	string	STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX
matchValue*	string minLength: 1	
shouldNot	boolean	

AffectedTiers

Property	Type	Enums
affectedTierScope*	string	ALL_TIERS SPECIFIC_TIERS

AllTiers

The scope of affected tiers is set to all tiers for an affected entity.

Property	Type	Enums
affectedTierScope*	string	ALL_TIERS SPECIFIC_TIERS

SpecificTiers

The scope of affected tiers is set to specific tiers for an affected entity.

Property	Type	Enums
affectedTierScope*	string	ALL_TIERS SPECIFIC_TIERS
tiers*	string minItems: 1	

AffectedNodes

Property	Type	Enums
affectedNodeScope*	string	ALL_NODES SPECIFIC_NODES NODES_OF_SPECIFIC_TIERS NODES_MATCHING_PATTERN NODE_PROPERTY_VARIABLE_MATCHER

AllNodes

The scope of affected nodes is set to all nodes for an affected entity.

Property	Type	Enums
affectedNodeScope*	string	ALL_NODES

SpecificNodes

The scope of affected nodes is set to all nodes for an affected entity.

Property	Type	Enums
affectedNodeScope*	string	SPECIFIC_NODES
nodes*	string minItems: 1	

NodesOfSpecificTiers

The scope of affected nodes is set to nodes of specific tiers for an affected entity.

Property	Type	Enums
affectedNodeScope*	string	NODES_OF_SPECIFIC_TIERS
specificTiers*	string minItems: 1	

NodesMatchingPattern

The scope of affected nodes is set to nodes matching a pattern for an affected entity.

Property	Type	Enums												
affectedNodeScope*	string	NODES_MATCHING_PATTERN												
patternMatcher*		EntityMatchingPattern <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td>string</td> <td>STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX</td> </tr> <tr> <td>matchValue*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>shouldNot</td> <td>boolean</td> <td></td> </tr> </tbody> </table>	Property	Type	Enums	matchTo*	string	STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean	
Property	Type	Enums												
matchTo*	string	STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX												
matchValue*	string minLength: 1													
shouldNot	boolean													

NodePropertyVariableMatcher

The scope of affected nodes is set to nodes matching a variable property for an affected entity.

Property	Type	Enums												
affectedNodeScope*	string	NODE_PROPERTY_VARIABLE_MATCHER												
propVarPairs*	array minItems: 1	<table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>propertyType</td> <td>string</td> <td>META ENV JVM</td> </tr> <tr> <td>name</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>value</td> <td>string minLength: 1</td> <td></td> </tr> </tbody> </table>	Property	Type	Enums	propertyType	string	META ENV JVM	name	string minLength: 1		value	string minLength: 1	
Property	Type	Enums												
propertyType	string	META ENV JVM												
name	string minLength: 1													
value	string minLength: 1													

OverallApplicationPerformance

The scope of the affected entity is set to overall application performance.

Property	Type	Enums
affectedEntityType*	string	OVERALL_APPLICATION_PERFORMANCE

BusinessTransactionPerformance

The scope of the affected entity is set to business transaction performance.

Property	Type	Enums
affectedEntityType*	string	BUSINESS_TRANSACTION_PERFORMANCE

affectedBusinessTransactions*	string	AffectedBusinessTransactions <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>businessTransactionScope*</td> <td>string</td> <td> ALL_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS BUSINESS_TRANSACTIONS_MATCHING_PATTERN </td> </tr> </tbody> </table>		Property	Type	Enums	businessTransactionScope*	string	ALL_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS BUSINESS_TRANSACTIONS_MATCHING_PATTERN
Property	Type	Enums							
businessTransactionScope*	string	ALL_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS BUSINESS_TRANSACTIONS_MATCHING_PATTERN							

AffectedBusinessTransactions

Property	Type	Enums
businessTransactionScope*	string	ALL_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS BUSINESS_TRANSACTIONS_MATCHING_PATTERN

AllBusinessTransactions

The scope of business transactions is set to all business transactions.

Property	Type	Enums
businessTransactionScope*	string	ALL_BUSINESS_TRANSACTIONS

SpecificBusinessTransactions

The scope of business transactions is set to specific business transactions.

Property	Type	Enums
businessTransactionScope*	string	SPECIFIC_BUSINESS_TRANSACTIONS
businessTransactions*	string minItems: 1	

BusinessTransactionsInSpecificTiers

The scope of business transactions is set to business transactions for specific tiers.

Property	Type	Enums
businessTransactionScope*	string	BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS
specificTiers*	string minItems: 1	

BusinessTransactionsMatchingPattern

The scope of business transactions is set to business transactions matching a certain pattern.

Property	Type	Enums												
businessTransactionScope*	string	BUSINESS_TRANSACTIONS_MATCHING_PATTERN												
specificTiers*	string	EntityMatchingPattern <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td>string</td> <td>STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX</td> </tr> <tr> <td>matchValue*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>shouldNot</td> <td>boolean</td> <td></td> </tr> </tbody> </table>	Property	Type	Enums	matchTo*	string	STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean	
Property	Type	Enums												
matchTo*	string	STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX												
matchValue*	string minLength: 1													
shouldNot	boolean													

TierNodeTransactionPerformance

The type of affected entities is set to the performance of tier and node transactions.

Property	Type	Enums						
affectedEntityType*	string	TIER_NODE_TRANSACTION_PERFORMANCE						
affectedEntities*	string	AffectedTierOrNodeEntities <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>tierOrNode*</td> <td>string</td> <td>TIER_AFFECTED_ENTITIES NODE_AFFECTED_ENTITIES</td> </tr> </tbody> </table>	Property	Type	Enums	tierOrNode*	string	TIER_AFFECTED_ENTITIES NODE_AFFECTED_ENTITIES
Property	Type	Enums						
tierOrNode*	string	TIER_AFFECTED_ENTITIES NODE_AFFECTED_ENTITIES						

AffectedTierOrNodeEntities

Property	Type	Enums
tierOrNode*	string	TIER_AFFECTED_ENTITIES NODE_AFFECTED_ENTITIES

TierAffectedEntities

The scope of affected entities is set to tiers.

Property	Type	Enums
tierOrNode*	string	TIER_AFFECTED_ENTITIES NODE_AFFECTED_ENTITIES

affectedTiers*	string	AffectedTiers <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>affectedTierScope*</td> <td>string</td> <td>ALL_TIERS SPECIFIC_TIERS</td> </tr> </tbody> </table>	Property	Type	Enums	affectedTierScope*	string	ALL_TIERS SPECIFIC_TIERS
Property	Type	Enums						
affectedTierScope*	string	ALL_TIERS SPECIFIC_TIERS						

NodeAffectedEntities

The scope of affected entities is set to nodes.

Property	Type	Enums						
tierOrNode*	string	TIER_AFFECTED_ENTITIES NODE_AFFECTED_ENTITIES						
typeofNode*	string	ALL_NODES JAVA_NODES DOT_NET_NODES PHP_NODES						
affectedNodes*	string	AffectedNodes <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>affectedNodeScope*</td> <td>string</td> <td>ALL_NODES SPECIFIC_NODES NODES_OF_SPECIFIC_TIERS NODES_MATCHING_PATTERN NODE_PROPERTY_VARIABLE_MATCHER</td> </tr> </tbody> </table>	Property	Type	Enums	affectedNodeScope*	string	ALL_NODES SPECIFIC_NODES NODES_OF_SPECIFIC_TIERS NODES_MATCHING_PATTERN NODE_PROPERTY_VARIABLE_MATCHER
Property	Type	Enums						
affectedNodeScope*	string	ALL_NODES SPECIFIC_NODES NODES_OF_SPECIFIC_TIERS NODES_MATCHING_PATTERN NODE_PROPERTY_VARIABLE_MATCHER						

TierNodeHardware

The affected entity type is set to tier node hardware.

Property	Type	Enums						
affectedEntityType*	string	TIER_NODE_HARDWARE						
affectedEntities*	string	AffectedTierOrNodeEntities <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>tierOrNode*</td> <td>string</td> <td>TIER_AFFECTED_ENTITIES NODE_AFFECTED_ENTITIES</td> </tr> </tbody> </table>	Property	Type	Enums	tierOrNode*	string	TIER_AFFECTED_ENTITIES NODE_AFFECTED_ENTITIES
Property	Type	Enums						
tierOrNode*	string	TIER_AFFECTED_ENTITIES NODE_AFFECTED_ENTITIES						

ServersInApplication

The affected entity type is set to **servers in the application**.

Property	Type	Enums						
affectedEntityType*	string	SERVERS_IN_APPLICATION						
affectedServers*	string	ApplicationAffectedServers <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>serversScope*</td> <td>string</td> <td> ALL_SERVERS_IN_APPLICATION SPECIFIC_SERVERS_IN_APPLICATION ALL_SERVERS_IN_SPECIFIC_TIERS </td> </tr> </tbody> </table>	Property	Type	Enums	serversScope*	string	ALL_SERVERS_IN_APPLICATION SPECIFIC_SERVERS_IN_APPLICATION ALL_SERVERS_IN_SPECIFIC_TIERS
Property	Type	Enums						
serversScope*	string	ALL_SERVERS_IN_APPLICATION SPECIFIC_SERVERS_IN_APPLICATION ALL_SERVERS_IN_SPECIFIC_TIERS						

ApplicationAffectedServers

Property	Type	Enums
serversScope*	string	ALL_SERVERS_IN_APPLICATION SPECIFIC_SERVERS_IN_APPLICATION ALL_SERVERS_IN_SPECIFIC_TIERS

AllServersInApplication

The scope of servers is set to all servers in the application.

Property	Type	Enums
serversScope*	string	ALL_SERVERS_IN_APPLICATION

SpecificServersInApplication

The scope of servers is set to specific servers in the application.

Property	Type	Enums
serversScope*	string	SPECIFIC_SERVERS_IN_APPLICATION
specificServers*	string minLength: 1	

AllServersInSpecificTiers

The scope of servers is set to all servers in specific tiers.

Property	Type	Enums
serversScope*	string	ALL_SERVERS_IN_SPECIFIC_TIERS
specificTiers*	string minItems: 1	

Backends

The affected entity type is set to backends.

Property	Type	Enums						
affectedEntityType*	string	BACKENDS						
affectedBackends*	string	AffectedBackends <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>backendScope*</td> <td>string</td> <td> ALL_BACKENDS SPECIFIC_BACKENDS BACKENDS_MATCHING_PATTERN </td> </tr> </tbody> </table>	Property	Type	Enums	backendScope*	string	ALL_BACKENDS SPECIFIC_BACKENDS BACKENDS_MATCHING_PATTERN
Property	Type	Enums						
backendScope*	string	ALL_BACKENDS SPECIFIC_BACKENDS BACKENDS_MATCHING_PATTERN						

AffectedBackends

Property	Type	Enums
backendScope*	string	ALL_BACKENDS SPECIFIC_BACKENDS BACKENDS_MATCHING_PATTERN

AllBackends

The scope of backends is set to all backends.

Property	Type	Enums
backendScope*	string	ALL_BACKENDS

SpecificBackends

The scope of backends is set to specific backends.

Property	Type	Enums
backendScope*	string	SPECIFIC_BACKENDS
backends*	string minItems: 1	

BackendsMatchingPattern

The scope of backends is set to backends matching a specific pattern.

Property	Type	Enums
backendScope*	string	BACKENDS_MATCHING_PATTERN

patternMatcher*	string	EntityMatchingPattern	
		Property	Type
		matchTo*	string
			STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX
		matchValue*	string
			minLength: 1
		shouldNot	boolean

Errors

The affected entity type is set to errors.

Property	Type	Enums	
affectedEntityType*	string	ERRORS	
affectedErrors*	string	AffectedErrors	
		Property	Type
		errorScope*	string
			ALL_ERRORS SPECIFIC_ERRORS ERRORS_OF_SPECIFIC_TIERS ERRORS_MATCHING_PATTERN

AffectedErrors

Property	Type	Enums
errorScope*	string	ALL_ERRORS SPECIFIC_ERRORS ERRORS_OF_SPECIFIC_TIERS ERRORS_MATCHING_PATTERN


AllErrors

The scope of errors is set to all errors.

Property	Type	Enums
errorScope*	string	ALL_ERRORS

SpecificErrors

The scope of errors is set to specific errors.

Property	Type	Description/Enums
errorScope*	string	SPECIFIC_ERRORS
errors*	string minItems: 1	
tiers	string minItems: 1	<p>Use if error names belong to multiple tiers. Provide the tier names as a list in <code>affects.affectedErrors.tiers</code> in the same order as the error names. In the following example, 'Page Not Found: 404' corresponds to <code>Tier1</code>, while 'Error2' corresponds to <code>SomeOtherTier</code>.</p> <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p> • If the error names are unique to each tier, tiers map errors one to one. You need not specify the tier name in this case.</p> <p>• If errors have same name but belong to different tiers, duplicate names are handled by appending tier names with the delimiter ' '.</p> <p>• If there is a mismatch between the number of error names and tier names, then the list <code>affects.affectedErrors.tiers</code> is ignored.</p> <p>• If an error belongs to multiple tiers, and you do not specify the tier names, the error name cannot be uniquely identified. Hence, an error is displayed.</p> </div>

```

{
  "id": 33,
  "name": "Specific Error",
  "enabled": true,
  "useDataFromLastNMinutes": 1,
  "waitTimeAfterViolation": 1,
  "scheduleName": "Always",
  "affects": {
    "affectedEntityType": "ERRORS",
    "affectedErrors": {
      "errorScope": "SPECIFIC_ERRORS",
      "errors": [
        "Page Not Found : 404", "Error2"
      ],
      "tiers": [
        "Tier1", "SomeOtherTier"
      ]
    }
  },
  "evalCriteria": {
    "criticalCriteria": {
      "conditionAggregationType": "ALL",
      "conditionExpression": null,
      "conditions": [
        {
          "name": "Condition 1",
          "shortName": "A",
          "evaluateToTrueOnNoData": false,
          "evalDetail": {
            "evalDetailType": "SINGLE_METRIC",
            "metricAggregateFunction": "VALUE",
            "metricPath": "Errors per Minute",
            "metricEvalDetail": {
              "metricEvalDetailType": "SPECIFIC_TYPE",
              "compareCondition": "GREATER_THAN_SPECIFIC_VALUE",
              "compareValue": 10
            }
          }
        },
        {
          "triggerEnabled": false,
          "minimumTriggers": 1
        }
      ],
      "evalMatchingCriteria": {
        "matchType": "ANY_NODE",
        "value": null
      }
    },
    "warningCriteria": null
  }
}

```

ErrorsOfSpecificTiers

The scope of errors is set to errors related to specific tiers.

Property	Type	Enums
errorScope*	string	ERRORS_OF_SPECIFIC_TIERS
specificTiers*	string	
	minItems: 1	

ErrorsMatchingPattern

The scope of errors is set to errors matching a specific pattern.

Property	Type	Enums												
errorScope*	string	ERRORS_MATCHING_PATTERN												
patternMatcher	string	EntityMatchingPattern <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td>string</td> <td>STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX</td> </tr> <tr> <td>matchValue*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>shouldNot</td> <td>boolean</td> <td></td> </tr> </tbody> </table>	Property	Type	Enums	matchTo*	string	STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean	
Property	Type	Enums												
matchTo*	string	STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX												
matchValue*	string minLength: 1													
shouldNot	boolean													

ServiceEndpoints

The affected entity type is set to service endpoints.

Property	Type	Enums						
affectedEntityType*	string	SERVICE_ENDPOINTS						
affectedServiceEndpoints*		AffectedServiceEndpoints <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>serviceEndpointScope*</td> <td>string</td> <td>ALL_SERVICE_ENDPOINTS SPECIFIC_SERVICE_ENDPOINTS SERVICE_ENDPOINTS_IN_SPECIFIC_TIERS SERVICE_ENDPOINTS_MATCHING_PATTERN</td> </tr> </tbody> </table>	Property	Type	Enums	serviceEndpointScope*	string	ALL_SERVICE_ENDPOINTS SPECIFIC_SERVICE_ENDPOINTS SERVICE_ENDPOINTS_IN_SPECIFIC_TIERS SERVICE_ENDPOINTS_MATCHING_PATTERN
Property	Type	Enums						
serviceEndpointScope*	string	ALL_SERVICE_ENDPOINTS SPECIFIC_SERVICE_ENDPOINTS SERVICE_ENDPOINTS_IN_SPECIFIC_TIERS SERVICE_ENDPOINTS_MATCHING_PATTERN						

AffectedServiceEndpoints

Property	Type	Enums
serviceEndpointScope*	string	ALL_SERVICE_ENDPOINTS SPECIFIC_SERVICE_ENDPOINTS SERVICE_ENDPOINTS_IN_SPECIFIC_TIERS SERVICE_ENDPOINTS_MATCHING_PATTERN

AllServiceEndpoints

The scope of service endpoints is set to all service endpoints.

Property	Type	Enums
serviceEndpointScope*	string	ALL_SERVICE_ENDPOINTS

SpecificServiceEndpoints

The scope of service endpoints is set to specific service endpoints.

Property	Type	Enums
serviceEndpointScope*	string	SPECIFIC_SERVICE_ENDPOINTS
serviceEndpoints*	string minItems: 1	

ServiceEndpointsInSpecificTiers

The scope of service endpoints is set to specific service endpoints.

Property	Type	Enums
serviceEndpointScope*	string	SERVICE_ENDPOINTS_IN_SPECIFIC_TIERS
specificTiers*	string minItems: 1	

ServiceEndpointsMatchingPattern

The scope of service endpoints is set to service endpoints that match a specific pattern.

Property	Type	Enums												
serviceEndpointScope*	string	SERVICE_ENDPOINTS_MATCHING_PATTERN												
patternMatcher*	string minItems: 1	EntityMatchingPattern <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td>string</td> <td>STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX</td> </tr> <tr> <td>matchValue*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>shouldNot</td> <td>boolean</td> <td></td> </tr> </tbody> </table>	Property	Type	Enums	matchTo*	string	STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean	
Property	Type	Enums												
matchTo*	string	STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX												
matchValue*	string minLength: 1													
shouldNot	boolean													

InformationPoints

The affected entity type is set to information points.

Property	Type	Enums
----------	------	-------

affectedEntityType*	string	INFORMATION_POINTS						
affectedInformationPoints*	string	AffectedInformationPoints <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>informationPointScope*</td> <td>string</td> <td> ALL_INFORMATION_POINTS SPECIFIC_INFORMATION_POINTS INFORMATION_POINTS_MATCHING_PATTERN </td> </tr> </tbody> </table>	Property	Type	Enums	informationPointScope*	string	ALL_INFORMATION_POINTS SPECIFIC_INFORMATION_POINTS INFORMATION_POINTS_MATCHING_PATTERN
Property	Type	Enums						
informationPointScope*	string	ALL_INFORMATION_POINTS SPECIFIC_INFORMATION_POINTS INFORMATION_POINTS_MATCHING_PATTERN						

AffectedInformationPoints

Property	Type	Enums
informationPointScope*	string	ALL_INFORMATION_POINTS SPECIFIC_INFORMATION_POINTS INFORMATION_POINTS_MATCHING_PATTERN

AllInformationPoints

The scope of information points is set to all information points.

Property	Type	Enums
informationPointScope*	string	ALL_INFORMATION_POINTS

SpecificInformationPoints

The scope of information points is set to specific information points.

Property	Type	Enums
informationPointScope*	string	SPECIFIC_INFORMATION_POINTS
informationPoints*	string	
	minItems: 1	

InformationPointsMatchingPattern

The scope of information points is set to information points matching a pattern.

Property	Type	Enums
informationPointScope*	string	INFORMATION_POINTS_MATCHING_PATTERN

patternMatcher*	string	EntityMatchingPattern <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td>string</td> <td>STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX</td> </tr> <tr> <td>matchValue*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>shouldNot</td> <td>boolean</td> <td></td> </tr> </tbody> </table>	Property	Type	Enums	matchTo*	string	STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean	
	Property		Type	Enums										
	matchTo*		string	STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX										
	matchValue*		string minLength: 1											
shouldNot	boolean													
minItems: 1														

Custom

The affected entity type is set to custom.

Property	Type	Enums						
affectedEntityType*	string	CUSTOM						
affectedEntityScope*	string	AffectedEntityScope <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>entityScope*</td> <td>string</td> <td>APPLICATION_PERFORMANCE SPECIFIC_ENTITY_PERFORMANCE</td> </tr> </tbody> </table>	Property	Type	Enums	entityScope*	string	APPLICATION_PERFORMANCE SPECIFIC_ENTITY_PERFORMANCE
		Property	Type	Enums				
		entityScope*	string	APPLICATION_PERFORMANCE SPECIFIC_ENTITY_PERFORMANCE				

AffectedEntityScope

Property	Type	Enums
entityScope*	string	APPLICATION_PERFORMANCE SPECIFIC_ENTITY_PERFORMANCE

ApplicationPerformance

The scope of the affected entity is set to application performance.

Property	Type	Enums
entityScope*	string	APPLICATION_PERFORMANCE

SpecificEntityPerformance

The scope of the affected entity is set to specific entity performance.

Property	Type	Enums
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entityScope*	string	SPECIFIC_ENTITY_PERFORMANCE
entityType*	string	BUSINESS_TRANSACTION NODE SERVER
affectedEntityName*	string minLength: 1	

Databases

The affected entity type is set to databases.

Property	Type	Enums						
affectedEntityType*	string	DATABASES						
databaseType*	string	ALL_DATABASE_TYPES COUCHBASE DB2 MONGO_DB MICROSOFT_SQL_SERVER MYSQL ORACLE POSTGRE_SQL AZURE_SQL SYBASE						
affectedDatabases*	string	AffectedDatabases <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>databaseScope</td> <td>string</td> <td>ALL_DATABASES SPECIFIC_DATABASES</td> </tr> </tbody> </table>	Property	Type	Enums	databaseScope	string	ALL_DATABASES SPECIFIC_DATABASES
Property	Type	Enums						
databaseScope	string	ALL_DATABASES SPECIFIC_DATABASES						

AffectedDatabases

Property	Type	Enums
databaseScope*	string	ALL_DATABASES SPECIFIC_DATABASES

AllDatabases

The scope of affected databases is set to all databases.

Property	Type	Enums
databaseScope*	string	ALL_DATABASES

SpecificDatabases

The scope of affected databases is set to specific databases.

Property	Type	Enums						
databaseScope*	string	SPECIFIC_DATABASES						
databases*	string minItems: 1	DbServer <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>serverName*</td> <td>string minLength: 1</td> </tr> <tr> <td>collectorConfigName*</td> <td>string minLength: 1</td> </tr> </tbody> </table>	Property	Type	serverName*	string minLength: 1	collectorConfigName*	string minLength: 1
Property	Type							
serverName*	string minLength: 1							
collectorConfigName*	string minLength: 1							

DbServer

Property	Type
serverName*	string minLength: 1
collectorConfigName*	string minLength: 1

Servers

The affected entity type is set to servers.

Property	Type	Enums						
affectedEntityType*	string	SERVERS						
serverSelectionCriteria*	string	AffectedServersCriteria <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>selectServersBy*</td> <td>string</td> <td>AFFECTED_SERVER_SUBGROUPS AFFECTED_SERVERS</td> </tr> </tbody> </table>	Property	Type	Enums	selectServersBy*	string	AFFECTED_SERVER_SUBGROUPS AFFECTED_SERVERS
Property	Type	Enums						
selectServersBy*	string	AFFECTED_SERVER_SUBGROUPS AFFECTED_SERVERS						

AffectedServersCriteria

Property	Type	Enums
selectServersBy*	string	AFFECTED_SERVER_SUBGROUPS AFFECTED_SERVERS

AffectedServers

Property	Type	Enums
----------	------	-------

selectServersBy*	string	AFFECTED_SERVER_SUBGROUPS AFFECTED_SERVERS						
affectedServers*	string	ServerSelectionCriteria <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>severSelectionScope*</td> <td>string</td> <td>ALL_SERVERS_IN_ACCOUNT SERVERS_WITHIN_SUBGROUP SPECIFIC_SERVERS SERVERS_MATCHING_PATTERN</td> </tr> </tbody> </table>	Property	Type	Enums	severSelectionScope*	string	ALL_SERVERS_IN_ACCOUNT SERVERS_WITHIN_SUBGROUP SPECIFIC_SERVERS SERVERS_MATCHING_PATTERN
Property	Type	Enums						
severSelectionScope*	string	ALL_SERVERS_IN_ACCOUNT SERVERS_WITHIN_SUBGROUP SPECIFIC_SERVERS SERVERS_MATCHING_PATTERN						

ServerSelectionCriteria

Property	Type	Enums
severSelectionScope*	string	ALL_SERVERS_IN_ACCOUNT SERVERS_WITHIN_SUBGROUP SPECIFIC_SERVERS SERVERS_MATCHING_PATTERN

AllServersInAccount

The scope of servers is set to all servers within an account.

Property	Type	Enums
severSelectionScope*	string	ALL_SERVERS_IN_ACCOUNT

ServersWithinSubGroup

The scope of servers is set to all servers within a subgroup.

Property	Type	Enums
severSelectionScope*	string	SERVERS_WITHIN_SUBGROUP
subGroups*	string minItems: 1	

SpecificServers

The scope of servers is set to specific servers.

Property	Type	Enums
severSelectionScope*	string	SPECIFIC_SERVERS
servers*	string minItems: 1	

ServersMatchingPattern

The scope of servers is set to servers matching a specific pattern.

Property	Type	Enums												
serverSelectionScope*	string	SERVERS_MATCHING_PATTERN												
patternMatcher*		EntityMatchingPattern <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td>string</td> <td>STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX</td> </tr> <tr> <td>matchValue*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>shouldNot</td> <td>boolean</td> <td></td> </tr> </tbody> </table>	Property	Type	Enums	matchTo*	string	STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean	
Property	Type	Enums												
matchTo*	string	STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX												
matchValue*	string minLength: 1													
shouldNot	boolean													

AffectedServerSubGroups

The scope of affected servers is set to affected servers within a subgroup.

Property	Type	Enums						
selectServersBy*	string	AFFECTED_SERVER_SUBGROUPS						
subGroups*	string minItems: 1	AffectedSubGroups <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>subGroupScope*</td> <td>string</td> <td>ALL_SUBGROUPS SPECIFIC_SERVER_SUB_GROUPS</td> </tr> </tbody> </table>	Property	Type	Enums	subGroupScope*	string	ALL_SUBGROUPS SPECIFIC_SERVER_SUB_GROUPS
Property	Type	Enums						
subGroupScope*	string	ALL_SUBGROUPS SPECIFIC_SERVER_SUB_GROUPS						

AffectedSubGroups

Property	Type	Enums
subGroupScope*	string	ALL_SUBGROUPS SPECIFIC_SERVER_SUB_GROUPS

AllSubGroups

The scope of affected servers is set to servers within all subgroups.

Property	Type	Enums
subGroupScope*	string	ALL_SUBGROUPS

SpecificServerSubGroups

The scope of affected servers is set to **servers within specific subgroups**.

Property	Type	Enums
subGroupScope*	string	SPECIFIC_SERVER_SUB_GROUPS
subGroupNames	string minItems: 1	

Affects

Describes what entities the health rule affects. For example, business transactions, servers, or databases.

Property	Type	Enums
affectedEntityType*	string	OVERALL_APPLICATION_PERFORMANCE BUSINESS_TRANSACTION_PERFORMANCE TIER_NODE_TRANSACTION_PERFORMANCE TIER_NODE_HARDWARE SERVERS_IN_APPLICATION BACKENDS ERRORS SERVICE_ENDPOINTS INFORMATION_POINTS CUSTOM DATABASES SERVERS

EvalCriteria

Property	Type/Enums						
criticalCriteria	<p>Criteria</p> <p>Critical conditions are evaluated before warning conditions. If you have defined a critical condition and a warning condition in the same health rule, the warning condition is evaluated only if the critical condition is not true.</p> <table border="1"> <thead> <tr> <th>Property</th> <th>Description</th> <th>Type/Enums</th> </tr> </thead> <tbody> <tr> <td>conditionAggregationType</td> <td>Condition evaluation criteria that constitute a health rule violation.</td> <td> String default: ALL Enums ALL ANY CUSTOM </td> </tr> </tbody> </table>	Property	Description	Type/Enums	conditionAggregationType	Condition evaluation criteria that constitute a health rule violation.	String default: ALL Enums ALL ANY CUSTOM
Property	Description	Type/Enums					
conditionAggregationType	Condition evaluation criteria that constitute a health rule violation.	String default: ALL Enums ALL ANY CUSTOM					

conditionExpression	Use only when you set the conditionAggregationType variable to CUSTOM . Use the ShortName of the condition to define the boolean expression.	String minLength: 1																											
conditions*	<p>A single condition that can be evaluated independently to true or false. OR</p> <p>A list of conditions (maximum of 8) along with other properties to form a criteria.</p>	<p>String minItems: 1</p> <p>Condition</p> <table border="1"> <thead> <tr> <th>Property</th> <th>Description</th> <th>Type/Enums</th> </tr> </thead> <tbody> <tr> <td>name*</td> <td>Name of the condition.</td> <td>string</td> </tr> <tr> <td>shortname*</td> <td>A short name used in condition Expression to evaluate CUSTOM conditionType.</td> <td> string pattern: ^[A-Z]{1,3}\$ Enums A B C D E F G H </td> </tr> <tr> <td>evaluateToTrueOnNoData</td> <td>Controls the evaluation of the condition in cases where any metric on which the condition is based, returns no data. The default when no data is returned is for the condition to evaluate to unknown. If the health rule is based on all the conditions evaluating to true, having no data returned may affect whether the health rule triggers an action.</td> <td> boolean default: false </td> </tr> <tr> <td>evaluationDetail*</td> <td>Details of metric(s) considered for evaluation of the condition. Use SINGLE_METRIC to evaluate a single metric. Use METRIC_EXPRESSION to evaluate a metric expression.</td> <td> <p>ConditionEvalDetail</p> <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>evaluationDetailType</td> <td>string</td> <td> SINGLE_METRIC METRIC_EXPRESSION </td> </tr> </tbody> </table> </td> </tr> <tr> <td>triggerEnabled</td> <td>If set to true, the value in field minimumTriggers is considered for evaluation.</td> <td> boolean default: false </td> </tr> <tr> <td>minimumTriggers</td> <td>If you set a non-zero value, persistence thresholds are considered when evaluating the conditions. Ensure that you define a value less than useDataFromLastNMinutes.</td> <td> integer default: 0 minimum: 0 maximum: 30 </td> </tr> </tbody> </table>	Property	Description	Type/Enums	name*	Name of the condition.	string	shortname*	A short name used in condition Expression to evaluate CUSTOM conditionType.	string pattern: ^[A-Z]{1,3}\$ Enums A B C D E F G H	evaluateToTrueOnNoData	Controls the evaluation of the condition in cases where any metric on which the condition is based, returns no data. The default when no data is returned is for the condition to evaluate to unknown. If the health rule is based on all the conditions evaluating to true, having no data returned may affect whether the health rule triggers an action.	boolean default: false	evaluationDetail*	Details of metric(s) considered for evaluation of the condition. Use SINGLE_METRIC to evaluate a single metric. Use METRIC_EXPRESSION to evaluate a metric expression.	<p>ConditionEvalDetail</p> <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>evaluationDetailType</td> <td>string</td> <td> SINGLE_METRIC METRIC_EXPRESSION </td> </tr> </tbody> </table>	Property	Type	Enums	evaluationDetailType	string	SINGLE_METRIC METRIC_EXPRESSION	triggerEnabled	If set to true, the value in field minimumTriggers is considered for evaluation.	boolean default: false	minimumTriggers	If you set a non-zero value, persistence thresholds are considered when evaluating the conditions. Ensure that you define a value less than useDataFromLastNMinutes .	integer default: 0 minimum: 0 maximum: 30
Property	Description	Type/Enums																											
name*	Name of the condition.	string																											
shortname*	A short name used in condition Expression to evaluate CUSTOM conditionType.	string pattern: ^[A-Z]{1,3}\$ Enums A B C D E F G H																											
evaluateToTrueOnNoData	Controls the evaluation of the condition in cases where any metric on which the condition is based, returns no data. The default when no data is returned is for the condition to evaluate to unknown. If the health rule is based on all the conditions evaluating to true, having no data returned may affect whether the health rule triggers an action.	boolean default: false																											
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evaluationDetailType	string	SINGLE_METRIC METRIC_EXPRESSION																											
triggerEnabled	If set to true, the value in field minimumTriggers is considered for evaluation.	boolean default: false																											
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warningCriteria

Criteria

If you have defined a critical condition and a warning condition in the same health rule, the warning condition is evaluated only if the critical condition is not true.

Property	Description	Type/Enums
conditionAggregationType	Condition evaluation criteria that constitute a health rule violation.	String default: ALL Enums ALL ANY CUSTOM
conditionExpression	Use only when you set the conditionAggregationType variable to CUSTOM . Use the ShortName of the condition to define the boolean expression.	String minLength: 1

<p>conditions*</p>	<p>A single condition that can be evaluated independently to true or false. OR</p> <p>A list of conditions (maximum of 8) along with other properties to form a criteria.</p>	<p>String</p> <p>minItems: 1</p> <p>Condition</p> <table border="1"> <thead> <tr> <th>Property</th> <th>Description</th> <th>Type/Enums</th> </tr> </thead> <tbody> <tr> <td>name*</td> <td>Name of the condition.</td> <td>string</td> </tr> <tr> <td>shortname*</td> <td>A short name used in condition Expression to evaluate CUSTOM conditionType.</td> <td>string pattern: ^[A-Z]{1,3}\$ Enums A B C D E F G H</td> </tr> <tr> <td>evaluateToTrueOnNoData</td> <td>Controls the evaluation of the condition in cases where any metric on which the condition is based, returns no data. The default when no data is returned is for the condition to evaluate to unknown. If the health rule is based on all the conditions evaluating to true, having no data returned may affect whether the health rule triggers an action.</td> <td>boolean default: false</td> </tr> <tr> <td>evalDetail*</td> <td>Details of metric(s) considered for evaluation of the condition. Use SINGLE_METRIC to evaluate a single metric. Use METRIC_EXPRESSION to evaluate a metric expression.</td> <td> <p>ConditionEvalDetail</p> <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>evalDetailType</td> <td>string</td> <td>SINGLE_METRIC METRIC_EXPRESSION</td> </tr> </tbody> </table> </td> </tr> <tr> <td>triggerEnabled</td> <td>If set to true, the value in field minimumTriggers is considered for evaluation.</td> <td>boolean default: false</td> </tr> <tr> <td>minimumTriggers</td> <td>If you set a non-zero value, persistence thresholds are considered when evaluating the conditions. Ensure that you define a value less than useDataFromLastNMinutes.</td> <td>integer default: 0 minimum: 0 maximum: 30</td> </tr> </tbody> </table>	Property	Description	Type/Enums	name*	Name of the condition.	string	shortname*	A short name used in condition Expression to evaluate CUSTOM conditionType.	string pattern: ^[A-Z]{1,3}\$ Enums A B C D E F G H	evaluateToTrueOnNoData	Controls the evaluation of the condition in cases where any metric on which the condition is based, returns no data. The default when no data is returned is for the condition to evaluate to unknown. If the health rule is based on all the conditions evaluating to true, having no data returned may affect whether the health rule triggers an action.	boolean default: false	evalDetail*	Details of metric(s) considered for evaluation of the condition. Use SINGLE_METRIC to evaluate a single metric. Use METRIC_EXPRESSION to evaluate a metric expression.	<p>ConditionEvalDetail</p> <table border="1"> <thead> <tr> <th>Property</th> <th>Type</th> <th>Enums</th> </tr> </thead> <tbody> <tr> <td>evalDetailType</td> <td>string</td> <td>SINGLE_METRIC METRIC_EXPRESSION</td> </tr> </tbody> </table>	Property	Type	Enums	evalDetailType	string	SINGLE_METRIC METRIC_EXPRESSION	triggerEnabled	If set to true, the value in field minimumTriggers is considered for evaluation.	boolean default: false	minimumTriggers	If you set a non-zero value, persistence thresholds are considered when evaluating the conditions. Ensure that you define a value less than useDataFromLastNMinutes .	integer default: 0 minimum: 0 maximum: 30
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HealthRuleSummary

Property	Type
id*	integer
name	string
enabled*	boolean

ErrorResponse

Property	Type
statusCode	integer
message	string

*This property is required (mandatory).

Download Examples

Download a set of examples that help you configure a health rule, [health_rule_request_examples.zip](#).

Download Swagger YAML spec

Download the Swagger YAML spec [health_rule_openapi.yml](#).

Schedule API

This page describes the Schedule API methods you can use to create, configure, and manage the evaluation time frame for the health rules of an application. The metrics associated with a health rule are evaluated according to a schedule that you control. See [Health Rule Schedules](#).



- Syntax validation of the JSON payload is done when creating the schedule.
- Ensure that you pick a time zone the [Time Zone List](#).

Create a New Schedule

Creates a new schedule with the specified JSON payload. See [Property Details](#).

Resource URL

```
POST <controller_url>/controller/alerting/rest/v1  
/applications/<application_id>/schedules
```

Request/Response Format

JSON

Example

This example creates a health rule schedule that evaluates the health rule once. See [Download Examples](#).

Retrieve a List of Schedules for a Given Application

Returns a list of [schedule\(s\) details](#) for a health rule associated with the specified application ID. This API returns the schedule ID, name, and description of the schedule. See [Property Details](#).

Resource URL

```
GET <controller_url>/controller/alerting/rest/v1/applications/<application_id>/schedules
```

Response Format

JSON

Example Response

This example returns a list of schedules applicable to a given application ID.

```
[
  {
    "id": 62,
    "name": "Daily Schedule",
    "description": "Daily Schedule",
    "timezone": "America/Los_Angeles"
  },
  {
    "id": 12,
    "name": "End of Business Hour: 5pm-6pm, Mon-Fri",
    "description": "This schedule is active Monday through Friday, during end of business hour",
    "timezone": "Asia/Kolkata"
  },
  {
    "id": 61,
    "name": "Schedule1",
    "description": "Custom Schedule",
    "timezone": "America/Los_Angeles"
  },
  {
    "id": 11,
    "name": "Weekday lunch: 12pm-1pm, Mon-Fri",
    "description": "This schedule is active Monday through Friday, during lunch hour",
    "timezone": "Asia/Kolkata"
  },
  {
    "id": 10,
    "name": "Weekday mornings: 8am-12pm, Mon-Fri",
    "description": "This schedule is active Monday through Friday, during morning hours",
    "timezone": "Asia/Kolkata"
  },
  {
    "id": 7,
    "name": "Weekdays: 8am-5pm, Mon-Fri",
    "description": "This schedule is active Monday through Friday, during business hours",
    "timezone": "Asia/Kolkata"
  },
  {
    "id": 9,
    "name": "Weekends: 12am-11pm, Sat-Sun",
    "description": "This schedule is active all day and night on the weekend",
    "timezone": "Asia/Kolkata"
  },
  {
    "id": 8,
    "name": "Weeknights: 11pm-6am, Mon-Fri",
    "description": "This schedule is active Monday through Friday, during night time batch runs",
    "timezone": "Asia/Kolkata"
  }
]
```

Retrieve the Details of a Specified Schedule

Retrieves a schedule with a specified ID. See [Property Details](#).

Resource URL

GET <controller_url>/controller/alerting/rest/v1/applications/<application_id>/schedules/{schedule-id}

Response Format

JSON

Example Response

This example retrieves the details of a schedule. See [Download Examples](#).

```
{
  "id": 12,
  "name": "End of Business Hour: 5pm-6pm, Mon-Fri",
  "description": "This schedule is active Monday through Friday, during end of business hour",
  "timezone": "Asia/Kolkata",
  "scheduleConfiguration": {
    "scheduleFrequency": "WEEKLY",
    "days": [
      "MONDAY",
      "TUESDAY",
      "WEDNESDAY",
      "THURSDAY",
      "FRIDAY"
    ],
    "startTime": "17:00",
    "endTime": "18:00"
  }
}
```

Update a Schedule

Updates an existing schedule with a specified JSON payload. See [Property Details](#).

Resource URL

PUT <controller_url>/controller/alerting/rest/v1/applications/<application_id>/schedules/{schedule-id}

Request/Response Format

JSON

Example

This example updates a schedule that evaluates the health rule once. See [Download Examples](#).

Delete a Schedule

Delete a schedule with the specified ID. See [Property Details](#).

Resource URL

DELETE <controller_url>/controller/alerting/rest/v1/applications/<application_id>/schedules/{schedule-id}

Response Codes

Code	Description
200	Fetches successfully
201	Created successfully

204	Deleted successfully
400	Bad request
401	Unauthorized
403	Forbidden
404	Resource not found
409	Already exists

Property Details

Schedule

Payload details for the health rule schedule.

Property Name	Type	Description and Valid Values						
id	integer	Auto-generated by the system and returned in the response. It is a <code>ReadOnly</code> value.						
name*	string	Name of schedule to be associated with the health rule for evaluation. Minimum length: 1						
description	string	Description of the schedule with evaluation details. Example: Health rules are evaluated daily at 12 noon. Default value: <code>true</code>						
timezone*	string	Timezone Id - Unique identifier of the time zone. See Time Zones . Example: <code>America/Los_Angeles</code>						
scheduleConfiguration*		<table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>scheduleFrequency</td> <td>string</td> <td>The health rule(s) evaluation frequency specified in the schedule. Enums: ONE_TIME DAILY WEEKLY MONTHLY_SPECIFIC_DATE MONTHLY_SPECIFIC_DAY CUSTOM</td> </tr> </tbody> </table>	Property Name	Type	Description	scheduleFrequency	string	The health rule(s) evaluation frequency specified in the schedule. Enums: ONE_TIME DAILY WEEKLY MONTHLY_SPECIFIC_DATE MONTHLY_SPECIFIC_DAY CUSTOM
Property Name	Type	Description						
scheduleFrequency	string	The health rule(s) evaluation frequency specified in the schedule. Enums: ONE_TIME DAILY WEEKLY MONTHLY_SPECIFIC_DATE MONTHLY_SPECIFIC_DAY CUSTOM						

OneTimeSchedule

This schedule evaluates the health rule once.

Property Name	Type	Description
scheduleFrequency*	string	The frequency to evaluate the health rule(s). See Enums .

startDate*	string	The scheduled start date in DD/MM/YYYY format. Pattern: ^(?:((?:31(\- \/ \.)?(?:0?[13578] 1[02]))\1 ((?:29 30)(\- \/ \.)?(?:0?[13-9] 1[0-2]))\2))((?:1[6-9] 2[0-9]\d)?\d{2})\$ ^(?:29(\- \/ \.)0?2\3(?:((?:1[6-9] 2[0-9]\d)?(?:0[48] [2468][048] 13579)[26]) (?:16 [2468][048] [3579][26])00)))\$ ^(?:0?[1-9] 1\d 2[0-8])(\- \/ \.)((?:0?[1-9] 1[0-2]))\4(?:1[6-9] 2[0-9]\d)?\d{2})\$
startTime*	string	The scheduled start time in a 24-hour format. Pattern: ^([01]\d 2[0-3]):([0-5]\d)\$
endDate*	string	The scheduled end date in DD/MM/YYYY format. Pattern: ^(?:((?:31(\- \/ \.)?(?:0?[13578] 1[02]))\1 ((?:29 30)(\- \/ \.)?(?:0?[13-9] 1[0-2]))\2))((?:1[6-9] 2[0-9]\d)?\d{2})\$ ^(?:29(\- \/ \.)0?2\3(?:((?:1[6-9] 2[0-9]\d)?(?:0[48] [2468][048] 13579)[26]) (?:16 [2468][048] [3579][26])00)))\$ ^(?:0?[1-9] 1\d 2[0-8])(\- \/ \.)((?:0?[1-9] 1[0-2]))\4(?:1[6-9] 2[0-9]\d)?\d{2})\$
endTime*	string	The scheduled end time in a 24-hour format. Pattern: ^([01]\d 2[0-3]):([0-5]\d)\$

DailySchedule

A recurring schedule to evaluate the health rule every day.

Property Name	Type	Description
scheduleFrequency*	string	The frequency to evaluate the health rule(s). See Enums .
startTime*	string	The scheduled start time in a 24-hour format. pattern: ^([01]\d 2[0-3]):([0-5]\d)\$
endTime*	string	The scheduled end time in a 24-hour format. pattern: ^([01]\d 2[0-3]):([0-5]\d)\$

WeeklySchedule

A recurring schedule to evaluate the health rule every week.

Property Name	Type	Description
scheduleFrequency*	string	The frequency to evaluate the health rule(s). See Enums .

days*	string	The day of the week to evaluate the health rule. minItems: 1 maxItems: 7						
		<table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>DayOfWeek</td> <td>string</td> <td> Enums SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY </td> </tr> </tbody> </table>	Property Name	Type	Description	DayOfWeek	string	Enums SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY
Property Name	Type	Description						
DayOfWeek	string	Enums SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY						
startTime*	string	The scheduled start time in a 24-hour format. pattern: <code>^([01]\d 2[0-3]):([0-5]\d)\$</code>						
endTime*	string	The schedule end time in 24-hour format. pattern: <code>^([01]\d 2[0-3]):([0-5]\d)\$</code>						

MonthlySpecificDateSchedule

A recurring schedule to evaluate the health rule every month on a specific date.

Property Name	Type	Description
scheduleFrequency*	string	The frequency to evaluate the health rule(s). See Enums .
startDate*	string	The schedule start date in DD/MM/YYYY format. pattern: <code>^(?:((?:31(\- \/ \.)?(?:0?[13578] 1[02]))\1 ((?:29 30)(\- \/ \.)?(?:0?[13-9] 1[0-2]))\2))(?:((?:1[6-9] 2[9]\d)?\d{2})\$ ^((?:29(\- \/ \.)0?2\3(?:((?:1[6-9] 2[9]\d)?(?:0[48] [2468][048] 13579)[26]) (?:16 [2468][048] 3579)[26]00)))\$ ^((?:0?[1-9] 1\d 2[0-8])(\- \/ \.)?(?:0?[1-9]) (?:1[0-2]))\4(?:((?:1[6-9] 2[9]\d)?\d{2})\$</code>
startTime*	string	The scheduled start time in a 24-hour format. pattern: <code>^([01]\d 2[0-3]):([0-5]\d)\$</code>
endDate*	string	The scheduled end date in DD/MM/YYYY format. pattern: <code>^(?:((?:31(\- \/ \.)?(?:0?[13578] 1[02]))\1 ((?:29 30)(\- \/ \.)?(?:0?[13-9] 1[0-2]))\2))(?:((?:1[6-9] 2[9]\d)?\d{2})\$ ^((?:29(\- \/ \.)0?2\3(?:((?:1[6-9] 2[9]\d)?(?:0[48] [2468][048] 13579)[26]) (?:16 [2468][048] 3579)[26]00)))\$ ^((?:0?[1-9] 1\d 2[0-8])(\- \/ \.)?(?:0?[1-9]) (?:1[0-2]))\4(?:((?:1[6-9] 2[9]\d)?\d{2})\$</code>

endTime*	string	The scheduled end time in a 24-hour format. pattern: ^([01]\d 2[0-3]):([0-5]\d)\$
----------	--------	---

MonthlySpecificDaySchedule

A recurring schedule to evaluate the health rule every month on a specific date.

Property Name	Type	Description						
scheduleFrequency*	string	The frequency to evaluate the health rule(s). See Enums .						
startTime*	string	The scheduled start time in a 24-hour format. pattern: ^([01]\d 2[0-3]):([0-5]\d)\$						
endTime*	string	The schedules end time in a 24-hour format. pattern: ^([01]\d 2[0-3]):([0-5]\d)\$						
day*	string	The day of the week to evaluate the health rule. minItems: 1 maxItems: 7 <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>DayOfWeek</td> <td>string</td> <td>Enums SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY</td> </tr> </tbody> </table>	Property Name	Type	Description	DayOfWeek	string	Enums SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY
Property Name	Type	Description						
DayOfWeek	string	Enums SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY						
occurrence*	string	The occurrence of the day within a month. Enums: FIRST SECOND THIRD FOURTH LAST						

CustomSchedule

A custom schedule to evaluate the health rule based on specific requirements and timezone. Use UNIX cron expressions to define properties.

Property Name	Type	Description
scheduleFrequency*	string	The frequency to evaluate the health rule(s). See Enums .

startCron*	string	The beginning of the UNIX cron expression.
endCron*	string	The end of the UNIX cron expression.

ScheduleSummaryElement

The details of the schedule you have defined that are returned when you retrieve the schedules API.

Property Name	Type	Description
id	integer	Auto-generated by the system and returned in the response.
name*	string	Name of the schedule associated with the health rule for evaluation.
description	string	Description of the schedule and evaluation details.
timezone*	string	Timezone ID - Unique identifier of the time zone.

*This property is required (mandatory).

Download Examples

Download a set of examples that help you configure a schedule, [Schedule Examples.zip](#).

Download SWAGGER YAML file

Download the Swagger YAML spec [schedule_openapi.yml](#).

List of Time Zone IDs

Sl.No	Time Zone
1	ACT
2	AET
3	AGT
4	ART
5	AST
6	Africa/Abidjan
7	Africa/Accra
8	Africa/Addis_Ababa
9	Africa/Algiers
10	Africa/Asmara
11	Africa/Asmera
12	Africa/Bamako
13	Africa/Bangui
14	Africa/Banjul
15	Africa/Bissau
16	Africa/Blantyre
17	Africa/Brazzaville
18	Africa/Bujumbura
19	Africa/Cairo
20	Africa/Casablanca
21	Africa/Ceuta
22	Africa/Conakry
23	Africa/Dakar
24	Africa/Dar_es_Salaam
25	Africa/Djibouti
26	Africa/Douala
27	Africa/El_Aaiun
28	Africa/Freetown
29	Africa/Gaborone
30	Africa/Harare
31	Africa/Johannesburg
32	Africa/Juba
33	Africa/Kampala
34	Africa/Khartoum
35	Africa/Kigali

36	Africa/Kinshasa
37	Africa/Lagos
38	Africa/Libreville
39	Africa/Lome
40	Africa/Luanda
41	Africa/Lubumbashi
42	Africa/Lusaka
43	Africa/Malabo
44	Africa/Maputo
45	Africa/Maseru
46	Africa/Mbabane
47	Africa/Mogadishu
48	Africa/Monrovia
49	Africa/Nairobi
50	Africa/Ndjamena
51	Africa/Niamey
52	Africa/Nouakchott
53	Africa/Ouagadougou
54	Africa/Porto-Novo
55	Africa/Sao_Tome
56	Africa/Timbuktu
57	Africa/Tripoli
58	Africa/Tunis
59	Africa/Windhoek
60	America/Adak
61	America/Anchorage
62	America/Anguilla
63	America/Antigua
64	America/Araguaina
65	America/Argentina/Buenos_Aires
66	America/Argentina/Catamarca
67	America/Argentina/ComodRivadavia
68	America/Argentina/Cordoba
69	America/Argentina/Jujuy
70	America/Argentina/La_Rioja
71	America/Argentina/Mendoza
72	America/Argentina/Rio_Gallegos
73	America/Argentina/Salta
74	America/Argentina/San_Juan
75	America/Argentina/San_Luis
76	America/Argentina/Tucuman

77	America/Argentina/Ushuaia
78	America/Aruba
79	America/Asuncion
80	America/Atikokan
81	America/Atka
82	America/Bahia
83	America/Bahia_Banderas
84	America/Barbados
85	America/Belem
86	America/Belize
87	America/Blanc-Sablon
88	America/Boa_Vista
89	America/Bogota
90	America/Boise
91	America/Buenos_Aires
92	America/Cambridge_Bay
93	America/Campo_Grande
94	America/Cancun
95	America/Caracas
96	America/Catamarca
97	America/Cayenne
98	America/Cayman
99	America/Chicago
100	America/Chihuahua
101	America/Coral_Harbour
102	America/Cordoba
103	America/Costa_Rica
104	America/Creston
105	America/Cuiaba
106	America/Curacao
107	America/Danmarkshavn
108	America/Dawson
109	America/Dawson_Creek
110	America/Denver
111	America/Detroit
112	America/Dominica
113	America/Edmonton
114	America/Eirunepe
115	America/El_Salvador
116	America/Ensenada
117	America/Fort_Nelson

118	America/Fort_Wayne
119	America/Fortaleza
120	America/Glace_Bay
121	America/Godthab
122	America/Goose_Bay
123	America/Grand_Turk
124	America/Grenada
125	America/Guadeloupe
126	America/Guatemala
127	America/Guayaquil
128	America/Guyana
129	America/Halifax
130	America/Havana
131	America/Hermosillo
132	America/Indiana/Indianapolis
133	America/Indiana/Knox
134	America/Indiana/Marengo
135	America/Indiana/Petersburg
136	America/Indiana/Tell_City
137	America/Indiana/Vevay
138	America/Indiana/Vincennes
139	America/Indiana/Winamac
140	America/Indianapolis
141	America/Inuvik
142	America/Iqaluit
143	America/Jamaica
144	America/Jujuy
145	America/Juneau
146	America/Kentucky/Louisville
147	America/Kentucky/Monticello
148	America/Knox_IN
149	America/Kralendijk
150	America/La_Paz
151	America/Lima
152	America/Los_Angeles
153	America/Louisville
154	America/Lower_Princes
155	America/Maceio
156	America/Managua
157	America/Manaus
158	America/Marigot

159	America/Martinique
160	America/Matamoros
161	America/Mazatlan
162	America/Mendoza
163	America/Menominee
164	America/Merida
165	America/Metlakatla
166	America/Mexico_City
167	America/Miquelon
168	America/Moncton
169	America/Monterrey
170	America/Montevideo
171	America/Montreal
172	America/Montserrat
173	America/Nassau
174	America/New_York
175	America/Nipigon
176	America/Nome
177	America/Noronha
178	America/North_Dakota/Beulah
179	America/North_Dakota/Center
180	America/North_Dakota/New_Salem
181	America/Ojinaga
182	America/Panama
183	America/Pangnirtung
184	America/Paramaribo
185	America/Phoenix
186	America/Port-au-Prince
187	America/Port_of_Spain
188	America/Porto_Acre
189	America/Porto_Velho
190	America/Puerto_Rico
191	America/Punta_Arenas
192	America/Rainy_River
193	America/Rankin_Inlet
194	America/Recife
195	America/Regina
196	America/Resolute
197	America/Rio_Branco
198	America/Rosario
199	America/Santa_Isabel

200	America/Santarem
201	America/Santiago
202	America/Santo_Domingo
203	America/Sao_Paulo
204	America/Scoresbysund
205	America/Shiprock
206	America/Sitka
207	America/St_Barthelemy
208	America/St_Johns
209	America/St_Kitts
210	America/St_Lucia
211	America/St_Thomas
212	America/St_Vincent
213	America/Swift_Current
214	America/Tegucigalpa
215	America/Thule
216	America/Thunder_Bay
217	America/Tijuana
218	America/Toronto
219	America/Tortola
220	America/Vancouver
221	America/Virgin
222	America/Whitehorse
223	America/Winnipeg
224	America/Yakutat
225	America/Yellowknife
226	Antarctica/Casey
227	Antarctica/Davis
228	Antarctica/DumontDURville
229	Antarctica/Macquarie
230	Antarctica/Mawson
231	Antarctica/McMurdo
232	Antarctica/Palmer
233	Antarctica/Rothera
234	Antarctica/South_Pole
235	Antarctica/Syowa
236	Antarctica/Troll
237	Antarctica/Vostok
238	Arctic/Longyearbyen
239	Asia/Aden
240	Asia/Almaty

241	Asia/Amman
242	Asia/Anadyr
243	Asia/Aqtau
244	Asia/Aqtobe
245	Asia/Ashgabat
246	Asia/Ashkhabad
247	Asia/Atyrau
248	Asia/Baghdad
249	Asia/Bahrain
250	Asia/Baku
251	Asia/Bangkok
252	Asia/Barnaul
253	Asia/Beirut
254	Asia/Bishkek
255	Asia/Brunei
256	Asia/Calcutta
257	Asia/Chita
258	Asia/Choibalsan
259	Asia/Chongqing
260	Asia/Chungking
261	Asia/Colombo
262	Asia/Dacca
263	Asia/Damascus
264	Asia/Dhaka
265	Asia/Dili
266	Asia/Dubai
267	Asia/Dushanbe
268	Asia/Famagusta
269	Asia/Gaza
270	Asia/Harbin
271	Asia/Hebron
272	Asia/Ho_Chi_Minh
273	Asia/Hong_Kong
274	Asia/Hovd
275	Asia/Irkutsk
276	Asia/Istanbul
277	Asia/Jakarta
278	Asia/Jayapura
279	Asia/Jerusalem
280	Asia/Kabul
281	Asia/Kamchatka

282	Asia/Karachi
283	Asia/Kashgar
284	Asia/Kathmandu
285	Asia/Katmandu
286	Asia/Khandyga
287	Asia/Kolkata
288	Asia/Krasnoyarsk
289	Asia/Kuala_Lumpur
290	Asia/Kuching
291	Asia/Kuwait
292	Asia/Macao
293	Asia/Macau
294	Asia/Magadan
295	Asia/Makassar
296	Asia/Manila
297	Asia/Muscat
298	Asia/Nicosia
299	Asia/Novokuznetsk
300	Asia/Novosibirsk
301	Asia/Omsk
302	Asia/Oral
303	Asia/Phnom_Penh
304	Asia/Pontianak
305	Asia/Pyongyang
306	Asia/Qatar
307	Asia/Qyzylorda
308	Asia/Rangoon
309	Asia/Riyadh
310	Asia/Saigon
311	Asia/Sakhalin
312	Asia/Samarkand
313	Asia/Seoul
314	Asia/Shanghai
315	Asia/Singapore
316	Asia/Srednekolymsk
317	Asia/Taipei
318	Asia/Tashkent
319	Asia/Tbilisi
320	Asia/Tehran
321	Asia/Tel_Aviv
322	Asia/Thimbu

323	Asia/Thimphu
324	Asia/Tokyo
325	Asia/Tomsk
326	Asia/Ujung_Pandang
327	Asia/Ulaanbaatar
328	Asia/Ulan_Bator
329	Asia/Urumqi
330	Asia/Ust-Nera
331	Asia/Vientiane
332	Asia/Vladivostok
333	Asia/Yakutsk
334	Asia/Yangon
335	Asia/Yekaterinburg
336	Asia/Yerevan
337	Atlantic/Azores
338	Atlantic/Bermuda
339	Atlantic/Canary
340	Atlantic/Cape_Verde
341	Atlantic/Faeroe
342	Atlantic/Faroe
343	Atlantic/Jan_Mayen
344	Atlantic/Madeira
345	Atlantic/Reykjavik
346	Atlantic/South_Georgia
347	Atlantic/St_Helena
348	Atlantic/Stanley
349	Australia/ACT
350	Australia/Adelaide
351	Australia/Brisbane
352	Australia/Broken_Hill
353	Australia/Canberra
354	Australia/Currie
355	Australia/Darwin
356	Australia/Eucla
357	Australia/Hobart
358	Australia/LHI
359	Australia/Lindeman
360	Australia/Lord_Howe
361	Australia/Melbourne
362	Australia/NSW
363	Australia/North

364	Australia/Perth
365	Australia/Queensland
366	Australia/South
367	Australia/Sydney
368	Australia/Tasmania
369	Australia/Victoria
370	Australia/West
371	Australia/Yancowinna
372	BET
373	BST
374	Brazil/Acre
375	Brazil/DeNoronha
376	Brazil/East
377	Brazil/West
378	CAT
379	CET
380	CNT
381	CST
382	CST6CDT
383	CTT
384	Canada/Atlantic
385	Canada/Central
386	Canada/Eastern
387	Canada/Mountain
388	Canada/Newfoundland
389	Canada/Pacific
390	Canada/Saskatchewan
391	Canada/Yukon
392	Chile/Continental
393	Chile/EasterIsland
394	Cuba
395	EAT
396	ECT
397	EET
398	EST
399	EST5EDT
400	Egypt
401	Eire
402	Etc/GMT
403	Etc/GMT+0
404	Etc/GMT+1

405	Etc/GMT+10
406	Etc/GMT+11
407	Etc/GMT+12
408	Etc/GMT+2
409	Etc/GMT+3
410	Etc/GMT+4
411	Etc/GMT+5
412	Etc/GMT+6
413	Etc/GMT+7
414	Etc/GMT+8
415	Etc/GMT+9
416	Etc/GMT-0
417	Etc/GMT-1
418	Etc/GMT-10
419	Etc/GMT-11
420	Etc/GMT-12
421	Etc/GMT-13
422	Etc/GMT-14
423	Etc/GMT-2
424	Etc/GMT-3
425	Etc/GMT-4
426	Etc/GMT-5
427	Etc/GMT-6
428	Etc/GMT-7
429	Etc/GMT-8
430	Etc/GMT-9
431	Etc/GMT0
432	Etc/Greenwich
433	Etc/UCT
434	Etc/UTC
435	Etc/Universal
436	Etc/Zulu
437	Europe/Amsterdam
438	Europe/Andorra
439	Europe/Astrakhan
440	Europe/Athens
441	Europe/Belfast
442	Europe/Belgrade
443	Europe/Berlin
444	Europe/Bratislava
445	Europe/Brussels

446	Europe/Bucharest
447	Europe/Budapest
448	Europe/Busingen
449	Europe/Chisinau
450	Europe/Copenhagen
451	Europe/Dublin
452	Europe/Gibraltar
453	Europe/Guernsey
454	Europe/Helsinki
455	Europe/Isle_of_Man
456	Europe/Istanbul
457	Europe/Jersey
458	Europe/Kaliningrad
459	Europe/Kiev
460	Europe/Kirov
461	Europe/Lisbon
462	Europe/Ljubljana
463	Europe/London
464	Europe/Luxembourg
465	Europe/Madrid
466	Europe/Malta
467	Europe/Mariehamn
468	Europe/Minsk
469	Europe/Monaco
470	Europe/Moscow
471	Europe/Nicosia
472	Europe/Oslo
473	Europe/Paris
474	Europe/Podgorica
475	Europe/Prague
476	Europe/Riga
477	Europe/Rome
478	Europe/Samara
479	Europe/San_Marino
480	Europe/Sarajevo
481	Europe/Saratov
482	Europe/Simferopol
483	Europe/Skopje
484	Europe/Sofia
485	Europe/Stockholm
486	Europe/Tallinn

487	Europe/Tirane
488	Europe/Tiraspol
489	Europe/Ulyanovsk
490	Europe/Uzhgorod
491	Europe/Vaduz
492	Europe/Vatican
493	Europe/Vienna
494	Europe/Vilnius
495	Europe/Volgograd
496	Europe/Warsaw
497	Europe/Zagreb
498	Europe/Zaporozhye
499	Europe/Zurich
500	GB
501	GB-Eire
502	GMT
503	GMT0
504	Greenwich
505	HST
506	Hongkong
507	IET
508	IST
509	Iceland
510	Indian/Antananarivo
511	Indian/Chagos
512	Indian/Christmas
513	Indian/Cocos
514	Indian/Comoro
515	Indian/Kerguelen
516	Indian/Mahe
517	Indian/Maldives
518	Indian/Mauritius
519	Indian/Mayotte
520	Indian/Reunion
521	Iran
522	Israel
523	JST
524	Jamaica
525	Japan
526	Kwajalein
527	Libya

528	MET
529	MIT
530	MST
531	MST7MDT
532	Mexico/BajaNorte
533	Mexico/BajaSur
534	Mexico/General
535	NET
536	NST
537	NZ
538	NZ-CHAT
539	Navajo
540	PLT
541	PNT
542	PRC
543	PRT
544	PST
545	PST8PDT
546	Pacific/Apia
547	Pacific/Auckland
548	Pacific/Bougainville
549	Pacific/Chatham
550	Pacific/Chuuk
551	Pacific/Easter
552	Pacific/Efate
553	Pacific/Enderbury
554	Pacific/Fakaofu
555	Pacific/Fiji
556	Pacific/Funafuti
557	Pacific/Galapagos
558	Pacific/Gambier
559	Pacific/Guadalcanal
560	Pacific/Guam
561	Pacific/Honolulu
562	Pacific/Johnston
563	Pacific/Kiritimati
564	Pacific/Kosrae
565	Pacific/Kwajalein
566	Pacific/Majuro
567	Pacific/Marquesas
568	Pacific/Midway

569	Pacific/Nauru
570	Pacific/Niue
571	Pacific/Norfolk
572	Pacific/Noumea
573	Pacific/Pago_Pago
574	Pacific/Palau
575	Pacific/Pitcairn
576	Pacific/Pohnpei
577	Pacific/Ponape
578	Pacific/Port_Moresby
579	Pacific/Rarotonga
580	Pacific/Saipan
581	Pacific/Samoa
582	Pacific/Tahiti
583	Pacific/Tarawa
584	Pacific/Tongatapu
585	Pacific/Truk
586	Pacific/Wake
587	Pacific/Wallis
588	Pacific/Yap
589	Poland
590	Portugal
591	ROK
592	SST
593	Singapore
594	SystemV/AST4
595	SystemV/AST4ADT
596	SystemV/CST6
597	SystemV/CST6CDT
598	SystemV/EST5
599	SystemV/EST5EDT
600	SystemV/HST10
601	SystemV/MST7
602	SystemV/MST7MDT
603	SystemV/PST8
604	SystemV/PST8PDT
605	SystemV/YST9
606	SystemV/YST9YDT
607	Turkey
608	UCT
609	US/Alaska

610	US/Aleutian
611	US/Arizona
612	US/Central
613	US/East-Indiana
614	US/Eastern
615	US/Hawaii
616	US/Indiana-Starke
617	US/Michigan
618	US/Mountain
619	US/Pacific
620	US/Pacific-New
621	US/Samoa
622	UTC
623	Universal
624	VST
625	W-SU
626	WET
627	Zulu

Policy API

This page describes the Policy API methods you can use to create, configure, and manage [policies](#) for an application.

A policy consists of a *trigger* based on one or more events and an *action* in response to that trigger. You use policies to automate monitoring, alerting, and problem remediation.



- Syntax validation of the JSON payload is done when creating the policy.
- Objects/Entities corresponding to EUM applications are not supported.

Create a Policy

Creates a new policy using the given JSON payload.

Resource URL

```
POST <controller_url>/controller/alerting/rest  
/v1/applications/<application_id>/policies
```

Request/Response Format

JSON

Example

Retrieve a list of Policies associated with an Application

This API returns a list of all policies associated with the given application, policy names, IDs, and enable flag details. To fetch the complete details of a policy, use `GET /policies/{policy-id}`.

Resource URL

```
GET <controller_url>/controller/alerting/rest/v1/applications/<application_id>/policies
```

Response Format

JSON

Example Response

```
[
  {
    "id": 1,
    "name": "Policy json update example",
    "enabled": true
  },
  {
    "id": 2,
    "name": "Policy json create example",
    "enabled": true
  }
]
```

Retrieve Details of a Specified Policy

Returns a JSON representation of a policy for the given policy ID.

Resource URL

GET <controller_url>/controller/alerting/rest/v1/applications/<application_id>/policies/{policy-id}

Response Format

JSON

Example Response

This example retrieves the configuration details of a policy.

```
{
  "id": 1,
  "name": "Policy REST get json example",
  "enabled": true,
  "executeActionsInBatch": true,
  "actions": [
    {
      "actionName": "your@email.com",
      "actionType": "EMAIL",
      "notes": "example notes"
    },
    {
      "actionName": "1234567890",
      "actionType": "SMS"
    },
    {
      "actionName": "Thread dump action",
      "actionType": "THREAD_DUMP",
      "specifiedEntityActionDetails": {
        "specifiedEntityActionScope": "SPECIFIC_NODES",
        "nodes": [
          "node1"
        ]
      }
    }
  ],
  "events": {
    "healthRuleEvents": {
      "healthRuleEventTypes": [
        "HEALTH_RULE_OPEN_CRITICAL",
        "HEALTH_RULE_UPGRADED",
        "HEALTH_RULE_CONTINUES_CRITICAL",

```



Request/Response Format

JSON

Example

Delete a Policy

Deletes an existing policy with the specified ID.

 Ensure that you provide a valid existing policy ID.

Resource URL

```
DELETE <controller_url>/controller/alerting/rest/v1/applications/<application_id>/policies/{policy-id}
```

Update a Policy Configuration

Updates one or more specific configuration setting(s) of a policy. You can update the **Name** and **Enabled** fields using this API.

Resource URL

```
PUT <controller_url>/controller/alerting/rest/v1/applications/<application_id>/policies/{policy-id}/configuration
```

Request/Response Format

JSON

Example

Example Response

Response Codes

Code	Description
200	Fetches successfully
201	Created successfully
204	Deleted successfully
400	Bad request
401	Unauthorized
403	Forbidden
404	Resource not found
409	Already exists

Property Details

Policy

Payload details of a policy.

Property Name	Type	Description and Valid Values									
id	integer	This is auto-generated by the system and returned in the response. It is a readOnly value.									
name*	string	Name of the policy. Minimum length: 1									
enabled	boolean	Sets the policy to enabled/disabled state. Default value: true									
executeActionsInBatch*	boolean	Executes the actions configured for a policy, once for all the triggering events that occurred during the last minute. Default value: true									
actions*	minItems : 1	<p>Action</p> <p>Describes the predefined, reusable, and automated response to an event to be taken when the policy is triggered.</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>actionName*</td> <td>string</td> <td>Name of the action defined for a policy.</td> </tr> <tr> <td>actionType*</td> <td>string</td> <td> ActionType Enum Creates the following types of actions: SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSTIC_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA </td> </tr> </tbody> </table>	Property Name	Type	Description	actionName*	string	Name of the action defined for a policy.	actionType*	string	ActionType Enum Creates the following types of actions: SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSTIC_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA
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actionType*	string	ActionType Enum Creates the following types of actions: SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSTIC_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA									
events*		<p>Events</p> <p>Describes the events that trigger the policy.</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Description</th> </tr> </thead> <tbody> </tbody> </table>	Property Name	Description							
Property Name	Description										

healthRuleEvents

HealthRuleEvents

Describes the trigger event type(s) generated due to health rule issues.


Property Name	Description
healthRuleEventTypes*	<p>HealthRuleEventTypes</p> <p>Describes the event type related to health rule that triggers the policy.</p> <p>minItems: 1</p> <p>HealthRuleEventTypeEnum</p> <p>HEALTH_RULE_CONTINUES_CRITICAL</p> <p>HEALTH_RULE_OPEN_CRITICAL</p> <p>HEALTH_RULE_OPEN_WARNING</p> <p>HEALTH_RULE_UPGRADED</p> <p>HEALTH_RULE_DOWNGRADED</p> <p>HEALTH_RULE_CONTINUES_WARNING</p> <p>HEALTH_RULE_CLOSE_WARNING</p> <p>HEALTH_RULE_CLOSE_CRITICAL</p> <p>HEALTH_RULE_CANCELED_WARNING</p> <p>HEALTH_RULE_CANCELED_CRITICAL</p>
healthRuleScope*	<p>HealthRuleScope</p> <p>Describes the scope of the health rule based on which, the events are triggered.</p> <p>Enums</p> <p>ALL_HEALTH_RULES</p> <p>SPECIFIC_HEALTH_RULES</p>

otherEvents

OtherEvents

Describes the trigger event type(s) generated due to other issues.

Property Name	Description
OtherEventType	<p>Lists the event type that triggers an action.</p> <p>Enums</p> <p>CLR_CRASH</p> <p>APPLICATION_CRASH</p> <p>DEADLOCK</p> <p>RESOURCE_POOL_LIMIT</p> <p>APPLICATION_DEPLOYMENT</p> <p>APP_SERVER_RESTART</p> <p>APPLICATION_CONFIG_CHANGE</p> <p>AGENT_CONFIGURATION_ERROR</p> <p>APPLICATION_DISCOVERED</p> <p>TIER_DISCOVERED</p> <p>NODE_DISCOVERED</p> <p>MACHINE_DISCOVERED</p> <p>BT_DISCOVERED</p> <p>SERVICE_ENDPOINT_DISCOVERED</p> <p>BACKEND_DISCOVERED</p> <p>EUM_CLOUD_SYNTHETIC_HEALTHY_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_CONFIRMED_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_ONGOING_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_ERROR_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_CONFIRMED_ERROR_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_ONGOING_ERROR_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_HEALTHY_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_CONFIRMED_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_ONGOING_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_CRITICAL_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_CONFIRMED_CRITICAL_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_ONGOING_CRITICAL_EVENT</p> <p>MOBILE_NEW_CRASH_EVENT, SLOW, VERY_SLOW, STALL</p> <p>ERROR</p>

	<p>anomalyEvents</p> <p>AnomalyEvents</p> <p>Describes the trigger event type(s) generated due to anomaly detection.</p> <p>minItems: 1</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>AnomalyEventType</td> <td>Lists the event type that triggers an action.</td> </tr> <tr> <td></td> <td> Enums ANOMALY_OPEN_WARNING ANOMALY_OPEN_CRITICAL ANOMALY_UPGRADED ANOMALY_DOWNGRADED ANOMALY_CLOSE_WARNING ANOMALY_CLOSE_CRITICAL ANOMALY_CANCELED_WARNING ANOMALY_CANCELED_CRITICAL </td> </tr> </tbody> </table>	Property Name	Description	AnomalyEventType	Lists the event type that triggers an action.		Enums ANOMALY_OPEN_WARNING ANOMALY_OPEN_CRITICAL ANOMALY_UPGRADED ANOMALY_DOWNGRADED ANOMALY_CLOSE_WARNING ANOMALY_CLOSE_CRITICAL ANOMALY_CANCELED_WARNING ANOMALY_CANCELED_CRITICAL						
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AnomalyEventType	Lists the event type that triggers an action.												
	Enums ANOMALY_OPEN_WARNING ANOMALY_OPEN_CRITICAL ANOMALY_UPGRADED ANOMALY_DOWNGRADED ANOMALY_CLOSE_WARNING ANOMALY_CLOSE_CRITICAL ANOMALY_CANCELED_WARNING ANOMALY_CANCELED_CRITICAL												
	<p>customEvents</p> <p>Describes the custom event type(s) generated.</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>eventName*</td> <td>string</td> <td>Custom event name.</td> </tr> <tr> <td>propertyMatchCriteria</td> <td>string</td> <td> Enums ANY ALL </td> </tr> <tr> <td>keyValuePairArray</td> <td>string</td> <td> KeyValuePair key_ value_ </td> </tr> </tbody> </table>	Property Name	Type	Description	eventName*	string	Custom event name.	propertyMatchCriteria	string	Enums ANY ALL	keyValuePairArray	string	KeyValuePair key_ value_
Property Name	Type	Description											
eventName*	string	Custom event name.											
propertyMatchCriteria	string	Enums ANY ALL											
keyValuePairArray	string	KeyValuePair key_ value_											
<p>selectedEntities</p>	<p>SelectedEntityType</p> <p>Scope of entities considered for the policy evaluation.</p> <div style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> <p> Entities corresponding to EUM applications are not supported.</p> </div> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>SelectedEntityType*</td> <td>string</td> <td> Enums ANY_ENTITY SPECIFIC_ENTITIES </td> </tr> </tbody> </table>	Property Name	Type	Description	SelectedEntityType*	string	Enums ANY_ENTITY SPECIFIC_ENTITIES						
Property Name	Type	Description											
SelectedEntityType*	string	Enums ANY_ENTITY SPECIFIC_ENTITIES											

SelectedEntityType

Scope of entities considered for the policy evaluation.

i Entities corresponding to EUM applications are not supported.

Property Name	Type	Description
SelectedEntityType*	string	Enums ANY_ENTITY SPECIFIC_ENTITIES

SpecificEntities

Scope of specific entities considered for the policy evaluation.

Property Name	Type	Description						
selectedEntityType*	string	Enums ANY_ENTITY SPECIFIC_ENTITIES						
entities	minItems: 1	Entity <table border="1"> <thead> <tr> <th>Property name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>entityType*</td> <td>string minItems: 1</td> <td>Enums BUSINESS_TRANSACTION TIER_NODE ERRORS SERVICE_ENDPOINTS INFORMATION_POINTS DATABASES_IN_APPLICATION SERVERS_IN_APPLICATION</td> </tr> </tbody> </table>	Property name	Type	Description	entityType*	string minItems: 1	Enums BUSINESS_TRANSACTION TIER_NODE ERRORS SERVICE_ENDPOINTS INFORMATION_POINTS DATABASES_IN_APPLICATION SERVERS_IN_APPLICATION
Property name	Type	Description						
entityType*	string minItems: 1	Enums BUSINESS_TRANSACTION TIER_NODE ERRORS SERVICE_ENDPOINTS INFORMATION_POINTS DATABASES_IN_APPLICATION SERVERS_IN_APPLICATION						

Entity

Property name	Type	Description
entityType*	string minItems: 1	Enums BUSINESS_TRANSACTION TIER_NODE ERRORS SERVICE_ENDPOINTS INFORMATION_POINTS DATABASES_IN_APPLICATION SERVERS_IN_APPLICATION

AnyEntity

Scope of entities considered for the policy evaluation.

 Entities corresponding to EUM applications are not supported.

Property Name	Type	Description
SelectedEntityType*	string	Enums ANY_ENTITY SPECIFIC_ENTITIES

BusinessTransaction

All entities of type BUSINESS_TRANSACTION are considered for policy evaluation.

Property Name	Type	Description				
entityType*	string minItems: 1	Enums BUSINESS_TRANSACTION TIER_NODE ERRORS SERVICE_ENDPOINTS INFORMATION_POINTS DATABASES_IN_APPLICATION SERVERS_IN_APPLICATION				
selectedBusinessTransactions*	string	BusinessTransactionScope <table border="1"> <thead> <tr> <th>Property Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>businessTransactionScope*</td> <td>Enums ALL_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS BUSINESS_TRANSACTIONS_MATCHING_PATTERN</td> </tr> </tbody> </table>	Property Name	Description	businessTransactionScope*	Enums ALL_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS BUSINESS_TRANSACTIONS_MATCHING_PATTERN
Property Name	Description					
businessTransactionScope*	Enums ALL_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS BUSINESS_TRANSACTIONS_MATCHING_PATTERN					

SelectedBusinessTransactions

Property Name	Description
businessTransactionScope*	Enums ALL_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS BUSINESS_TRANSACTIONS_MATCHING_PATTERN

AllBusinessTransactions

The scope of business transactions is set to all business transactions.

Property Name	Description
businessTransactionScope*	Enums ALL_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS BUSINESS_TRANSACTIONS_MATCHING_PATTERN

SpecificBusinessTransactions

The scope of business transactions is set to select business transactions.

Property Name	Type	Description
businessTransactionScope*		Enums ALL_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS BUSINESS_TRANSACTIONS_MATCHING_PATTERN
businessTransactions*	string minItems: 1	Name(s) of the business transactions.

BusinessTransactionsInSpecificTiers

The scope of business transactions is set to business transactions associated with a specific tier.

Property Name	Type	Description
businessTransactionScope*		Enums ALL_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS BUSINESS_TRANSACTIONS_MATCHING_PATTERN
specificTiers*	string minItems: 1	Name of the specified tier.

BusinessTransactionsMatchingPattern

The scope of business transactions is set to business transactions that match a specific pattern.

Property Name	Description
businessTransactionScope*	Enums ALL_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS BUSINESS_TRANSACTIONS_MATCHING_PATTERN

patternMatcher*

EntityMatchingPattern

Business transactions that match the specified pattern are included in the scope.

Property Name	Type	Description
matchTo*		Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX
matchValue*	string minLength: 1	
shouldNot	boolean default: false	

SelectedTierOrNodeEntities

Specific tiers or nodes are considered for policy evaluation.

Property Name	Type	Description						
entityType*	string	Enums BUSINESS_TRANSACTION TIER_NODE ERRORS SERVICE_ENDPOINTS INFORMATION_POINTS DATABASES_IN_APPLICATION SERVERS_IN_APPLICATION						
tierOrNode*	string minLength: 1	TierOrNode <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>tierOrNodeScope*</td> <td>string</td> <td>Enums TIER_SELECTED_ENTITIES NODE_SELECTED_ENTITIES</td> </tr> </tbody> </table>	Property Name	Type	Description	tierOrNodeScope*	string	Enums TIER_SELECTED_ENTITIES NODE_SELECTED_ENTITIES
Property Name	Type	Description						
tierOrNodeScope*	string	Enums TIER_SELECTED_ENTITIES NODE_SELECTED_ENTITIES						

TierOrNode

Property Name	Type	Description
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tierOrNodeScope*	string	Enums TIER_SELECTED_ENTITIES NODE_SELECTED_ENTITIES
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TierSelectedEntities

Property Name	Type	Description						
tierOrNodeScope*	string	Enums TIER_SELECTED_ENTITIES NODE_SELECTED_ENTITIES						
selectedTiers*		SelectedTiers <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>selectedTierScope*</td> <td>string</td> <td> Enums ALL_TIERS SPECIFIC_TIERS </td> </tr> </tbody> </table>	Property Name	Type	Description	selectedTierScope*	string	Enums ALL_TIERS SPECIFIC_TIERS
Property Name	Type	Description						
selectedTierScope*	string	Enums ALL_TIERS SPECIFIC_TIERS						

SelectedTiers

Property Name	Type	Description
selectedTierScope*	string	Enums ALL_TIERS SPECIFIC_TIERS

AllTiers

Property Name	Type	Description
selectedTierScope*	string	Enums ALL_TIERS SPECIFIC_TIERS

SpecificTiers

Property Name	Type	Description
selectedTierScope*	string	Enums ALL_TIERS SPECIFIC_TIERS
tiers*	string minItems: 1	Name(s) of the specified tier(s).

NodeSelectedEntities

Property Name	Type	Description						
tierOrNodeScope*	string	Enums TIER_SELECTED_ENTITIES NODE_SELECTED_ENTITIES						
typeofNode*	string	Enums ALL_NODES JAVA_NODES DOT_NET_NODES PHP_NODES						
selectedNodes*		<p>SelectedNodes</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>selectedNodeScope*</td> <td>string</td> <td>Enums ALL_NODES SPECIFIC_NODES NODES_OF_SPECIFIC_TIERS NODES_MATCHING_PATTERN NODE_PROPERTY_VARIABLE_MATCHER</td> </tr> </tbody> </table>	Property Name	Type	Description	selectedNodeScope*	string	Enums ALL_NODES SPECIFIC_NODES NODES_OF_SPECIFIC_TIERS NODES_MATCHING_PATTERN NODE_PROPERTY_VARIABLE_MATCHER
Property Name	Type	Description						
selectedNodeScope*	string	Enums ALL_NODES SPECIFIC_NODES NODES_OF_SPECIFIC_TIERS NODES_MATCHING_PATTERN NODE_PROPERTY_VARIABLE_MATCHER						

SelectedNodes

Property Name	Type	Description
selectedNodeScope*	string	Enums ALL_NODES SPECIFIC_NODES NODES_OF_SPECIFIC_TIERS NODES_MATCHING_PATTERN NODE_PROPERTY_VARIABLE_MATCHER

AllNodes

Property Name	Type	Description
selectedNodeScope*	string	Enums ALL_NODES SPECIFIC_NODES NODES_OF_SPECIFIC_TIERS NODES_MATCHING_PATTERN NODE_PROPERTY_VARIABLE_MATCHER

SpecificNodes

Property Name	Type	Description
selectedNodeScope*	string	Enums ALL_NODES SPECIFIC_NODES NODES_OF_SPECIFIC_TIERS NODES_MATCHING_PATTERN NODE_PROPERTY_VARIABLE_MATCHER
nodes*	string minItems: 1	Name(s) of the specified node(s).

NodesOfSpecificTiers

Property Name	Type	Description
selectedNodeScope*	string	Enums ALL_NODES SPECIFIC_NODES NODES_OF_SPECIFIC_TIERS NODES_MATCHING_PATTERN NODE_PROPERTY_VARIABLE_MATCHER
specificTiers*	string minItems: 1	Name(s) of tier with the associated nodes.

NodesMatchingPattern

Property Name	Type	Description
selectedNodeScope*	string	Enums ALL_NODES SPECIFIC_NODES NODES_OF_SPECIFIC_TIERS NODES_MATCHING_PATTERN NODE_PROPERTY_VARIABLE_MATCHER

patternMatcher*	string minItems: 1	EntityMatchingPattern Nodes that match a specified pattern are included in the scope.												
		<table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td></td> <td> Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX </td> </tr> <tr> <td>matchValue*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>shouldNot</td> <td>boolean default: false</td> <td></td> </tr> </tbody> </table>	Property Name	Type	Description	matchTo*		Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean default: false	
Property Name	Type	Description												
matchTo*		Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX												
matchValue*	string minLength: 1													
shouldNot	boolean default: false													

NodePropertyVariableMatcher

Property Name	Type	Description												
selectedNodeScope*	string	Enums ALL_NODES SPECIFIC_NODES NODES_OF_SPECIFIC_TIERS NODES_MATCHING_PATTERN NODE_PROPERTY_VARIABLE_MATCHER												
propVarPairs*	minItems: 1	propVarPairs <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>propertyType*</td> <td>string</td> <td> NodePropertyTypeEnum META ENV JVM </td> </tr> <tr> <td>name*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>value*</td> <td>string minLength: 1</td> <td></td> </tr> </tbody> </table>	Property Name	Type	Description	propertyType*	string	NodePropertyTypeEnum META ENV JVM	name*	string minLength: 1		value*	string minLength: 1	
Property Name	Type	Description												
propertyType*	string	NodePropertyTypeEnum META ENV JVM												
name*	string minLength: 1													
value*	string minLength: 1													

Errors

Specific errors are considered for policy evaluation.

Property Name	Type	Description						
entityType*	string	Enums BUSINESS_TRANSACTION TIER_NODE ERRORS SERVICE_ENDPOINTS INFORMATION_POINTS DATABASES_IN_APPLICATION SERVERS_IN_APPLICATION						
selectedErrors*		SelectedErrors <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>errorScope*</td> <td>string</td> <td>Enums ALL_ERRORS SPECIFIC_ERRORS ERRORS_OF_SPECIFIC_TIERS ERRORS_MATCHING_PATTERN</td> </tr> </tbody> </table>	Property Name	Type	Description	errorScope*	string	Enums ALL_ERRORS SPECIFIC_ERRORS ERRORS_OF_SPECIFIC_TIERS ERRORS_MATCHING_PATTERN
Property Name	Type	Description						
errorScope*	string	Enums ALL_ERRORS SPECIFIC_ERRORS ERRORS_OF_SPECIFIC_TIERS ERRORS_MATCHING_PATTERN						

SelectedErrors

Property Name	Type	Description
errorScope*	string	Enums ALL_ERRORS SPECIFIC_ERRORS ERRORS_OF_SPECIFIC_TIERS ERRORS_MATCHING_PATTERN

AllErrors

Property Name	Type	Description
errorScope*	string	Enums ALL_ERRORS SPECIFIC_ERRORS ERRORS_OF_SPECIFIC_TIERS ERRORS_MATCHING_PATTERN

SpecificErrors

Property Name	Type	Description
errorScope*	string	Enums ALL_ERRORS SPECIFIC_ERRORS ERRORS_OF_SPECIFIC_TIERS ERRORS_MATCHING_PATTERN
errors*	string minItems: 1 Example: NullPointerException	

ErrorsOfSpecificTiers

Property Name	Type	Description
errorScope*	string	Enums ALL_ERRORS SPECIFIC_ERRORS ERRORS_OF_SPECIFIC_TIERS ERRORS_MATCHING_PATTERN
specificTiers*	string minItems: 1	

ErrorsMatchingPattern

Property Name	Type	Description
errorScope*	string	Enums ALL_ERRORS SPECIFIC_ERRORS ERRORS_OF_SPECIFIC_TIERS ERRORS_MATCHING_PATTERN

patternMatcher*	EntityMatchingPattern		
	Property Name	Type	Description
	matchTo*	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX
	matchValue*	string minLength: 1	
shouldNot	boolean default: false		

ServiceEndpoints

Specific service endpoints are considered for policy evaluation.

Property Name	Type	Description						
entityType*	string	Enums BUSINESS_TRANSACTION TIER_NODE ERRORS SERVICE_ENDPOINTS INFORMATION_POINTS DATABASES_IN_APPLICATION SERVERS_IN_APPLICATION						
selectedServiceEndpoints*		SelectedServiceEndpoints <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>serviceEndpointScope*</td> <td>string</td> <td>Enums ALL_SERVICE_ENDPOINTS SPECIFIC_SERVICE_ENDPOINTS SERVICE_ENDPOINTS_IN_SPECIFIC_TIERS SERVICE_ENDPOINTS_MATCHING_PATTERN</td> </tr> </tbody> </table>	Property Name	Type	Description	serviceEndpointScope*	string	Enums ALL_SERVICE_ENDPOINTS SPECIFIC_SERVICE_ENDPOINTS SERVICE_ENDPOINTS_IN_SPECIFIC_TIERS SERVICE_ENDPOINTS_MATCHING_PATTERN
Property Name	Type	Description						
serviceEndpointScope*	string	Enums ALL_SERVICE_ENDPOINTS SPECIFIC_SERVICE_ENDPOINTS SERVICE_ENDPOINTS_IN_SPECIFIC_TIERS SERVICE_ENDPOINTS_MATCHING_PATTERN						

SelectedServiceEndpoints

Property Name	Type	Description
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serviceEndpointScope*	string	Enums ALL_SERVICE_ENDPOINTS SPECIFIC_SERVICE_ENDPOINTS SERVICE_ENDPOINTS_IN_SPECIFIC_TIERS SERVICE_ENDPOINTS_MATCHING_PATTERN
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AllServiceEndpoints

Property Name	Type	Description
serviceEndpointScope*	string	Enums ALL_SERVICE_ENDPOINTS SPECIFIC_SERVICE_ENDPOINTS SERVICE_ENDPOINTS_IN_SPECIFIC_TIERS SERVICE_ENDPOINTS_MATCHING_PATTERN

SpecificServiceEndpoints

Property Name	Type	Description
serviceEndpointScope*	string	Enums ALL_SERVICE_ENDPOINTS SPECIFIC_SERVICE_ENDPOINTS SERVICE_ENDPOINTS_IN_SPECIFIC_TIERS SERVICE_ENDPOINTS_MATCHING_PATTERN
serviceEndpoints*	string minItems: 1	

ServiceEndpointsInSpecificTiers

Property Name	Type	Description
serviceEndpointScope*	string	Enums ALL_SERVICE_ENDPOINTS SPECIFIC_SERVICE_ENDPOINTS SERVICE_ENDPOINTS_IN_SPECIFIC_TIERS SERVICE_ENDPOINTS_MATCHING_PATTERN
specificTiers*	string minItems: 1	

ServiceEndpointsInSpecificTiers

Property Name	Type	Description
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serviceEndpointScope*	string	Enums ALL_SERVICE_ENDPOINTS SPECIFIC_SERVICE_ENDPOINTS SERVICE_ENDPOINTS_IN_SPECIFIC_TIERS SERVICE_ENDPOINTS_MATCHING_PATTERN												
patternMatcher*		EntityMatchingPattern <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td>string</td> <td>Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX</td> </tr> <tr> <td>matchValue*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>shouldNot</td> <td>boolean default: false</td> <td></td> </tr> </tbody> </table>	Property Name	Type	Description	matchTo*	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean default: false	
Property Name	Type	Description												
matchTo*	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX												
matchValue*	string minLength: 1													
shouldNot	boolean default: false													

InformationPoints

Specific information points are considered for policy evaluation.

Property Name	Type	Description						
entityType*	string	Enums BUSINESS_TRANSACTION TIER_NODE ERRORS SERVICE_ENDPOINTS INFORMATION_POINTS DATABASES_IN_APPLICATION SERVERS_IN_APPLICATION						
selectedInformationPoints*		SelectedInformationPoints <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>informationPointScope*</td> <td>string</td> <td>Enums ALL_INFORMATION_POINTS SPECIFIC_INFORMATION_POINTS INFORMATION_POINTS_MATCHING_PATTERN</td> </tr> </tbody> </table>	Property Name	Type	Description	informationPointScope*	string	Enums ALL_INFORMATION_POINTS SPECIFIC_INFORMATION_POINTS INFORMATION_POINTS_MATCHING_PATTERN
Property Name	Type	Description						
informationPointScope*	string	Enums ALL_INFORMATION_POINTS SPECIFIC_INFORMATION_POINTS INFORMATION_POINTS_MATCHING_PATTERN						

SelectedInformationPoints

Property Name	Type	Description
informationPointScope*	string	Enums ALL_INFORMATION_POINTS SPECIFIC_INFORMATION_POINTS INFORMATION_POINTS_MATCHING_PATTERN

AllInformationPoints

Property Name	Type	Description
informationPointScope*	string	Enums ALL_INFORMATION_POINTS SPECIFIC_INFORMATION_POINTS INFORMATION_POINTS_MATCHING_PATTERN

SpecificInformationPoints

Property Name	Type	Description
informationPointScope*	string	Enums ALL_INFORMATION_POINTS SPECIFIC_INFORMATION_POINTS INFORMATION_POINTS_MATCHING_PATTERN
informationPoints*	string minItems: 1	

InformationPointsMatchingPattern

Property Name	Type	Description
informationPointScope*	string	Enums ALL_INFORMATION_POINTS SPECIFIC_INFORMATION_POINTS INFORMATION_POINTS_MATCHING_PATTERN

patternMatcher*		<p>EntityMatchingPattern</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td>string</td> <td>Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX</td> </tr> <tr> <td>matchValue*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>shouldNot</td> <td>boolean default: false</td> <td></td> </tr> </tbody> </table>	Property Name	Type	Description	matchTo*	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean default: false	
Property Name	Type	Description												
matchTo*	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX												
matchValue*	string minLength: 1													
shouldNot	boolean default: false													

DatabasesInApplication

Specific databases associated with the application are considered for policy evaluation.

Property Name	Type	Description						
entityType*	string	Enums BUSINESS_TRANSACTION TIER_NODE ERRORS SERVICE_ENDPOINTS INFORMATION_POINTS DATABASES_IN_APPLICATION SERVERS_IN_APPLICATION						
selectedApplicationDatabases*		<p>SelectedApplicationDatabases</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>applicationDatabaseScope</td> <td>string</td> <td>Enums ALL_APPLICATION_DATABASES SPECIFIC_APPLICATION_DATABASES APPLICATION_DATABASES_MATCHING_PATTERN</td> </tr> </tbody> </table>	Property Name	Type	Description	applicationDatabaseScope	string	Enums ALL_APPLICATION_DATABASES SPECIFIC_APPLICATION_DATABASES APPLICATION_DATABASES_MATCHING_PATTERN
Property Name	Type	Description						
applicationDatabaseScope	string	Enums ALL_APPLICATION_DATABASES SPECIFIC_APPLICATION_DATABASES APPLICATION_DATABASES_MATCHING_PATTERN						

SelectedApplicationDatabases

Property Name	Type	Description
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applicationDatabaseScope*	string	Enums ALL_APPLICATION_DATABASES SPECIFIC_APPLICATION_DATABASES APPLICATION_DATABASES_MATCHING_PATTERN
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AllApplicationDatabases

Property Name	Type	Description
applicationDatabaseScope*	string	Enums ALL_APPLICATION_DATABASES SPECIFIC_APPLICATION_DATABASES APPLICATION_DATABASES_MATCHING_PATTERN

SpecificApplicationDatabases

Property Name	Type	Description
applicationDatabaseScope*	string	Enums ALL_APPLICATION_DATABASES SPECIFIC_APPLICATION_DATABASES APPLICATION_DATABASES_MATCHING_PATTERN
applicationDatabases*	string minItems: 1	

ApplicationDatabasesMatchingPattern

Property Name	Type	Description
applicationDatabaseScope*	string	Enums ALL_APPLICATION_DATABASES SPECIFIC_APPLICATION_DATABASES APPLICATION_DATABASES_MATCHING_PATTERN

patternMatcher*		EntityMatchingPattern <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td>string</td> <td>Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX</td> </tr> <tr> <td>matchValue*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>shouldNot</td> <td>boolean default: false</td> <td></td> </tr> </tbody> </table>	Property Name	Type	Description	matchTo*	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean default: false	
Property Name	Type	Description												
matchTo*	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX												
matchValue*	string minLength: 1													
shouldNot	boolean default: false													

ServersInApplication

Specific servers associated with the application, are considered for the policy evaluation.

Property Name	Type	Description						
entityType*	string	Enums BUSINESS_TRANSACTION TIER_NODE ERRORS SERVICE_ENDPOINTS INFORMATION_POINTS DATABASES_IN_APPLICATION SERVERS_IN_APPLICATION						
selectedServers*	string	ApplicationSelectedServers <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>serversScope*</td> <td>string</td> <td>Enums ALL_SERVERS_IN_APPLICATION SPECIFIC_SERVERS_IN_APPLICATION ALL_SERVERS_IN_SPECIFIC_TIERS</td> </tr> </tbody> </table>	Property Name	Type	Description	serversScope*	string	Enums ALL_SERVERS_IN_APPLICATION SPECIFIC_SERVERS_IN_APPLICATION ALL_SERVERS_IN_SPECIFIC_TIERS
Property Name	Type	Description						
serversScope*	string	Enums ALL_SERVERS_IN_APPLICATION SPECIFIC_SERVERS_IN_APPLICATION ALL_SERVERS_IN_SPECIFIC_TIERS						

ApplicationSelectedServers

Property Name	Type	Description
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serversScope*	string	Enums ALL_SERVERS_IN_APPLICATION SPECIFIC_SERVERS_IN_APPLICATION ALL_SERVERS_IN_SPECIFIC_TIERS
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AllServersInApplication

Property Name	Type	Description
serversScope*	string	Enums ALL_SERVERS_IN_APPLICATION SPECIFIC_SERVERS_IN_APPLICATION ALL_SERVERS_IN_SPECIFIC_TIERS

SpecificServersInApplication

Property Name	Type	Description
serversScope*	string	Enums ALL_SERVERS_IN_APPLICATION SPECIFIC_SERVERS_IN_APPLICATION ALL_SERVERS_IN_SPECIFIC_TIERS
specificServers*	string minLength: 1 minItems: 1	

AllServersInSpecificTiers

Property Name	Type	Description
serversScope*	string	Enums ALL_SERVERS_IN_APPLICATION SPECIFIC_SERVERS_IN_APPLICATION ALL_SERVERS_IN_SPECIFIC_TIERS
specificTiers*	string minItems: 1	

Events

Different types of events that trigger a policy.

Property Name	Type	Description
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healthRuleEvents

HealthRuleEvent

Events associated with health rules that trigger the policy.

Property Name	Type	Description						
healthRuleEventTypes*	string minItems: 1	<p>HealthRuleEventType</p> <p>Enums</p> <p>HEALTH_RULE_CONTINUES_CRITICAL</p> <p>HEALTH_RULE_OPEN_CRITICAL</p> <p>HEALTH_RULE_OPEN_WARNING</p> <p>HEALTH_RULE_UPGRADED</p> <p>HEALTH_RULE_DOWNGRADED</p> <p>HEALTH_RULE_CONTINUES_WARNING</p> <p>HEALTH_RULE_CLOSE_WARNING</p> <p>HEALTH_RULE_CLOSE_CRITICAL</p> <p>HEALTH_RULE_CANCELED_WARNING</p> <p>HEALTH_RULE_CANCELED_CRITICAL</p>						
healthRuleScope*	string	<p>Events associated with specific health rules or all health rules that trigger the policy.</p> <p>HealthRuleScopeType</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>healthRuleScopeType</td> <td>string</td> <td>ALL_HEALTH_RULES SPECIFIC_HEALTH_RULES</td> </tr> </tbody> </table>	Property Name	Type	Description	healthRuleScopeType	string	ALL_HEALTH_RULES SPECIFIC_HEALTH_RULES
Property Name	Type	Description						
healthRuleScopeType	string	ALL_HEALTH_RULES SPECIFIC_HEALTH_RULES						

otherEvents	string	<p>OtherEventType</p> <p>Enums</p> <p>CLR_CRASH</p> <p>APPLICATION_CRASH</p> <p>DEADLOCK</p> <p>RESOURCE_POOL_LIMIT</p> <p>APPLICATION_DEPLOYMENT</p> <p>APP_SERVER_RESTART</p> <p>APPLICATION_CONFIG_CHANGE</p> <p>AGENT_CONFIGURATION_ERROR</p> <p>APPLICATION_DISCOVERED</p> <p>TIER_DISCOVERED</p> <p>NODE_DISCOVERED</p> <p>MACHINE_DISCOVERED</p> <p>BT_DISCOVERED</p> <p>SERVICE_ENDPOINT_DISCOVERED</p> <p>BACKEND_DISCOVERED</p> <p>EUM_CLOUD_SYNTHETIC_HEALTHY_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_CONFIRMED_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_ONGOING_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_ERROR_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_CONFIRMED_ERROR_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_ONGOING_ERROR_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_HEALTHY_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_CONFIRMED_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_ONGOING_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_CRITICAL_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_CONFIRMED_CRITICAL_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_ONGOING_CRITICAL_EVENT</p> <p>MOBILE_NEW_CRASH_EVENT</p> <p>SLOW</p> <p>VERY_SLOW</p> <p>STALL</p> <p>ERROR</p>
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anomalyEvents	minItems: 1	<p>Events triggered due to anomaly detection.</p> <p>AnomalyEventType</p> <p>Enums</p> <p>ANOMALY_OPEN_WARNING</p> <p>ANOMALY_OPEN_CRITICAL</p> <p>ANOMALY_UPGRADED</p> <p>ANOMALY_DOWNGRADED</p> <p>ANOMALY_CLOSE_WARNING</p> <p>ANOMALY_CLOSE_CRITICAL</p> <p>ANOMALY_CANCELED_WARNING</p> <p>ANOMALY_CANCELED_CRITICAL</p>																		
customEvents		<p>Custom-defined events that trigger the policy.</p> <p>CustomEvent</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>eventName*</td> <td>string</td> <td></td> </tr> <tr> <td>PropertyMatchCriteria</td> <td>string default: ANY</td> <td>Enums ANY ALL</td> </tr> <tr> <td>keyValuePairArray</td> <td></td> <td>KeyValuePair <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>Key*</td> <td>string</td> </tr> <tr> <td>Value*</td> <td>string</td> </tr> </tbody> </table> </td> </tr> </tbody> </table>	Property Name	Type	Description	eventName*	string		PropertyMatchCriteria	string default: ANY	Enums ANY ALL	keyValuePairArray		KeyValuePair <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>Key*</td> <td>string</td> </tr> <tr> <td>Value*</td> <td>string</td> </tr> </tbody> </table>	Property Name	Type	Key*	string	Value*	string
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Property Name	Type																			
Key*	string																			
Value*	string																			

CustomEvent

Details of custom-defined event that triggers the policy.

Property Name	Type	Description
eventName*	string	
PropertyMatchCriteria	string default: ANY	Enums ANY ALL

keyValuePairArray		KeyValuePair						
		<table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>Key*</td> <td>string</td> </tr> <tr> <td>Value*</td> <td>string</td> </tr> </tbody> </table>	Property Name	Type	Key*	string	Value*	string
Property Name	Type							
Key*	string							
Value*	string							

HealthRuleEvent

Events associated with health rules that trigger the policy.

Property Name	Type	Description						
healthRuleEventTypes*	string minItems: 1	HealthRuleEventType Enums HEALTH_RULE_CONTINUES_CRITICAL HEALTH_RULE_OPEN_CRITICAL HEALTH_RULE_OPEN_WARNING HEALTH_RULE_UPGRADED HEALTH_RULE_DOWNGRADED HEALTH_RULE_CONTINUES_WARNING HEALTH_RULE_CLOSE_WARNING HEALTH_RULE_CLOSE_CRITICAL HEALTH_RULE_CANCELED_WARNING HEALTH_RULE_CANCELED_CRITICAL						
healthRuleScope*	string	Events associated with specific health rules or all health rules that trigger the policy. healthRuleScopeType <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>healthRuleScopeType*</td> <td>string</td> <td> Enums ALL_HEALTH_RULES SPECIFIC_HEALTH_RULES </td> </tr> </tbody> </table>	Property Name	Type	Description	healthRuleScopeType*	string	Enums ALL_HEALTH_RULES SPECIFIC_HEALTH_RULES
Property Name	Type	Description						
healthRuleScopeType*	string	Enums ALL_HEALTH_RULES SPECIFIC_HEALTH_RULES						

HealthRuleScope

Events associated with specific health rules or all health rules that trigger the policy.

Property Name	Type	Description
healthRuleScopeType*	string	Enums ALL_HEALTH_RULES SPECIFIC_HEALTH_RULES

AllHealthRules

Events associated with all health rules within an application, trigger the policy.

Property Name	Type	Description
healthRuleScopeType*	string	Enums ALL_HEALTH_RULES SPECIFIC_HEALTH_RULES

AllHealthRules

Events associated with specific health rules within an application, trigger the policy.

Property Name	Type	Description
healthRuleScopeType*	string	Enums ALL_HEALTH_RULES SPECIFIC_HEALTH_RULES
healthRules*	string minItems: 1	

HealthRuleEventTypes

Property Name	Type	Description
healthRuleEventTypes*	string	Enums HEALTH_RULE_CONTINUES_CRITICAL HEALTH_RULE_OPEN_CRITICAL HEALTH_RULE_OPEN_WARNING HEALTH_RULE_UPGRADED HEALTH_RULE_DOWNGRADED HEALTH_RULE_CONTINUES_WARNING HEALTH_RULE_CLOSE_WARNING HEALTH_RULE_CLOSE_CRITICAL HEALTH_RULE_CANCELED_WARNING HEALTH_RULE_CANCELED_CRITICAL

OtherEvents

Property Name	Type	Description
---------------	------	-------------

otherEvents	<p>string</p> <p>OtherEventType</p> <p>Enums</p> <p>CLR_CRASH</p> <p>APPLICATION_CRASH</p> <p>DEADLOCK</p> <p>RESOURCE_POOL_LIMIT</p> <p>APPLICATION_DEPLOYMENT</p> <p>APP_SERVER_RESTART</p> <p>APPLICATION_CONFIG_CHANGE</p> <p>AGENT_CONFIGURATION_ERROR</p> <p>APPLICATION_DISCOVERED</p> <p>TIER_DISCOVERED</p> <p>NODE_DISCOVERED</p> <p>MACHINE_DISCOVERED</p> <p>BT_DISCOVERED</p> <p>SERVICE_ENDPOINT_DISCOVERED</p> <p>BACKEND_DISCOVERED</p> <p>EUM_CLOUD_SYNTHETIC_HEALTHY_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_CONFIRMED_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_ONGOING_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_ERROR_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_CONFIRMED_ERROR_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_ONGOING_ERROR_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_HEALTHY_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_CONFIRMED_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_ONGOING_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_CRITICAL_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_CONFIRMED_CRITICAL_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_ONGOING_CRITICAL_EVENT</p> <p>MOBILE_NEW_CRASH_EVENT</p> <p>SLOW</p> <p>VERY_SLOW</p> <p>STALL</p> <p>ERROR</p>
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AnomalyEvents

Events generated due to anomaly detection that trigger the policy.

Property Name	Type	Description
anomalyEvents	string minItems: 1	AnomalyEventType Enums ANOMALY_OPEN_WARNING ANOMALY_OPEN_CRITICAL ANOMALY_UPGRADED ANOMALY_DOWNGRADED ANOMALY_CLOSE_WARNING ANOMALY_CLOSE_CRITICAL ANOMALY_CANCELED_WARNING ANOMALY_CANCELED_CRITICAL

Action

A list of actions that are taken when a policy is triggered.

Property Name	Type	Description
actionName*	string	
actionType*	string	ActionType Enums SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSTIC_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA

SimpleActionType

A simple action that is taken when the policy is triggered.

Property Name	Type	Description
actionName*	string	

actionType*	string	ActionType Enums SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSTIC_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA
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EmailActionType

An email is sent when the policy is triggered.

Property Name	Type	Description
actionName*	string	
actionType*	string	ActionType Enums SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSTIC_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA
notes	string	

ActionOnSpecifiedEntities

A simple action that is taken for specific entities when the policy is triggered.

Property Name	Type	Description
actionName*	string	

actionType*	string	<p>ActionType</p> <p>Enums</p> <p>SMS</p> <p>EMAIL</p> <p>CUSTOM_EMAIL</p> <p>THREAD_DUMP</p> <p>HTTP_REQUEST</p> <p>CUSTOM</p> <p>RUN_SCRIPT_ON_NODES</p> <p>DIAGNOSTIC_BUSINESS_TRANSACTIONS</p> <p>CREATE_UPDATE_JIRA</p>						
specifiedEntityActionDetails*	string	<p>SpecifiedEntityActionDetails</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>specifiedEntityActionScope</td> <td>string</td> <td> <p>SpecifiedEntityActionScope</p> <p>Enums</p> <p>PERCENTAGE</p> <p>ABSOLUTE</p> <p>SPECIFIC_NODES</p> </td> </tr> </tbody> </table>	Property Name	Type	Description	specifiedEntityActionScope	string	<p>SpecifiedEntityActionScope</p> <p>Enums</p> <p>PERCENTAGE</p> <p>ABSOLUTE</p> <p>SPECIFIC_NODES</p>
Property Name	Type	Description						
specifiedEntityActionScope	string	<p>SpecifiedEntityActionScope</p> <p>Enums</p> <p>PERCENTAGE</p> <p>ABSOLUTE</p> <p>SPECIFIC_NODES</p>						

SpecifiedEntityActionDetails

Property Name	Type	Description
specifiedEntityActionScope	string	<p>SpecifiedEntityActionScope</p> <p>Enums</p> <p>PERCENTAGE</p> <p>ABSOLUTE</p> <p>SPECIFIC_NODES</p>

ActionOnPercentageEntities

The scope of entities on which the action is performed is set to 'percentage'.

Property Name	Type	Description
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specifiedEntityActionScope	string	SpecifiedEntityActionScope Enums PERCENTAGE ABSOLUTE SPECIFIC_NODES
value*	integer	

ActionOnPercentageEntities

The scope of entities on which the action is performed is set to **absolute**.

Property Name	Type	Description
specifiedEntityActionScope	string	SpecifiedEntityActionScope Enums PERCENTAGE ABSOLUTE SPECIFIC_NODES
value*	integer	

ActionOnPercentageEntities

A list of nodes on which the action is performed.

Property Name	Type	Description
specifiedEntityActionScope	string	SpecifiedEntityActionScope Enums PERCENTAGE ABSOLUTE SPECIFIC_NODES
nodes*	string minItems: 1	

PolicySummaryArray

Property Name	Type
id*	integer
name*	string minLength: 1
enabled*	boolean

KeyValuePair

Property Name	Type
key*	string
value*	string

PolicySummary

Property Name	Type
id*	integer
name*	string minLength: 1
enabled*	boolean

PolicyConfiguration

Property Name	Type
enabled*	boolean
policyName	string

EntityMatchingPattern

Entities that match the specified pattern.

Property Name	Type	Description
matchTo*	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX
matchValue*	string minLength: 1	
shouldNot	boolean default: false	

ErrorResponse

Property Name	Type
statusCode	integer
message	string

PropertyMatchCriteria

Property Name	Type	Description
propertyMatchCriteria	string default: ANY	Enums ANY ALL

EntityMatchingPatternEnum

Property Name	Type	Description
EntityMatchingPatternEnum	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX

BusinessTransactionScopeEnum

Property Name	Type	Description
businessTransactionScope	string	Enums ALL_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS BUSINESS_TRANSACTIONS_MATCHING_PATTERN

TierOrNodeScopeEnum

Property Name	Type	Description
TierOrNodeScope	string	Enums TIER_SELECTED_ENTITIES NODE_SELECTED_ENTITIES

SelectedTierScopeEnum

Property Name	Type	Description
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SelectedTierScope	string	Enums ALL_TIERS SPECIFIC_TIERS
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TypeOfNodeEnum

Property Name	Type	Description
typeofNode	string	Enums ALL_NODES JAVA_NODES DOT_NET_NODES PHP_NODES

SelectedNodesScopeEnum

Property Name	Type	Description
selectedNodeScope	string	Enums ALL_NODES SPECIFIC_NODES NODES_OF_SPECIFIC_TIERS NODES_MATCHING_PATTERN NODE_PROPERTY_VARIABLE_MATCHER

NodePropertyTypeEnum

Property Name	Type	Description
NodePropertyTypeEnum	string	Enums META ENV JVM

ErrorScopeEnum

Property Name	Type	Description
ErrorScopeEnum	string	Enums ALL_ERRORS SPECIFIC_ERRORS ERRORS_OF_SPECIFIC_TIERS ERRORS_MATCHING_PATTERN

ServiceEndpointScopeEnum

Property Name	Type	Description
ServiceEndpointScopeEnum	string	Enums ALL_SERVICE_ENDPOINTS SPECIFIC_SERVICE_ENDPOINTS SERVICE_ENDPOINTS_IN_SPECIFIC_TIERS SERVICE_ENDPOINTS_MATCHING_PATTERN

InformationPointScopeEnum

Property Name	Type	Description
InformationPointScopeEnum	string	ALL_INFORMATION_POINTS SPECIFIC_INFORMATION_POINTS INFORMATION_POINTS_MATCHING_PATTERN

DatabaseTypeEnum

Property Name	Type	Description
DatabaseTypeEnum	string	Enums ALL_DATABASE_TYPES COUCHBASE DB2 MONGO_DB MICROSOFT_SQL_SERVER MYSQL ORACLE POSTGRE_SQL AZURE_SQL SYBASE

ApplicationDatabaseScopeEnum

Property Name	Type	Description
ApplicationDatabaseScopeEnum	string	Enums ALL_APPLICATION_DATABASES SPECIFIC_APPLICATION_DATABASES APPLICATION_DATABASES_MATCHING_PATTERN

ServersScopeEnum

Property Name	Type	Description
ServersScopeEnum	string	Enums ALL_SERVERS_IN_APPLICATION SPECIFIC_SERVERS_IN_APPLICATION ALL_SERVERS_IN_SPECIFIC_TIERS

SpecifiedEntityActionScopeEnum

Property Name	Type	Description
SpecifiedEntityActionScopeEnum	string	Enums PERCENTAGE ABSOLUTE SPECIFIC_NODES

AnomalyEventType

Property Name	Type	Description
AnomalyEventType	string	Enums ANOMALY_OPEN_WARNING ANOMALY_OPEN_CRITICAL ANOMALY_UPGRADED ANOMALY_DOWNGRADED ANOMALY_CLOSE_WARNING ANOMALY_CLOSE_CRITICAL ANOMALY_CANCELED_WARNING ANOMALY_CANCELED_CRITICAL

HealthRuleEventTypeEnum

Property Name	Type	Description
HealthRuleEventTypeEnum	string	Enums HEALTH_RULE_CONTINUES_CRITICAL HEALTH_RULE_OPEN_CRITICAL HEALTH_RULE_OPEN_WARNING HEALTH_RULE_UPGRADED HEALTH_RULE_DOWNGRADED HEALTH_RULE_CONTINUES_WARNING HEALTH_RULE_CLOSE_WARNING HEALTH_RULE_CLOSE_CRITICAL HEALTH_RULE_CANCELED_WARNING HEALTH_RULE_CANCELED_CRITICAL

HealthRuleScopeType

Property Name	Type	Description
HealthRuleScopeType	string	ALL_HEALTH_RULES SPECIFIC_HEALTH_RULES

OtherEventType

Property Name	Type	Description
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OtherEventType	string	Enums CLR_CRASH APPLICATION_CRASH DEADLOCK RESOURCE_POOL_LIMIT APPLICATION_DEPLOYMENT APP_SERVER_RESTART APPLICATION_CONFIG_CHANGE AGENT_CONFIGURATION_ERROR APPLICATION_DISCOVERED TIER_DISCOVERED NODE_DISCOVERED MACHINE_DISCOVERED BT_DISCOVERED SERVICE_ENDPOINT_DISCOVERED BACKEND_DISCOVERED EUM_CLOUD_SYNTHETIC_HEALTHY_EVENT EUM_CLOUD_SYNTHETIC_WARNING_EVENT EUM_CLOUD_SYNTHETIC_CONFIRMED_WARNING_EVENT EUM_CLOUD_SYNTHETIC_ONGOING_WARNING_EVENT EUM_CLOUD_SYNTHETIC_ERROR_EVENT EUM_CLOUD_SYNTHETIC_CONFIRMED_ERROR_EVENT EUM_CLOUD_SYNTHETIC_ONGOING_ERROR_EVENT EUM_CLOUD_SYNTHETIC_PERF_HEALTHY_EVENT EUM_CLOUD_SYNTHETIC_PERF_WARNING_EVENT EUM_CLOUD_SYNTHETIC_PERF_CONFIRMED_WARNING_EVENT EUM_CLOUD_SYNTHETIC_PERF_ONGOING_WARNING_EVENT EUM_CLOUD_SYNTHETIC_PERF_CRITICAL_EVENT EUM_CLOUD_SYNTHETIC_PERF_CONFIRMED_CRITICAL_EVENT EUM_CLOUD_SYNTHETIC_PERF_ONGOING_CRITICAL_EVENT MOBILE_NEW_CRASH_EVENT, SLOW, VERY_SLOW, STALL ERROR
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SelectedEntityType

Property Name	Type	Description
SelectedEntityType	string	Enums ANY_ENTITY SPECIFIC_ENTITIES

EntityType

Property Name	Type	Description
EntityType	string	Enums BUSINESS_TRANSACTION TIER_NODE ERRORS SERVICE_ENDPOINTS INFORMATION_POINTS DATABASES_IN_APPLICATION SERVERS_IN_APPLICATION

ActionTypeEnum

Property Name	Type	Description
ActionTypeEnum	string	Enums SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSTIC_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA

*This property is required.

Download Examples

Download a set of examples that help you configure a policy, [AppDynamicsPoliciesExamples.zip](#).

Download SWAGGER YAML Spec

Download the Swagger YAML spec [policies_openapi.yml](#).

Actions API

This page describes the Action API methods you can use to create, configure, and manage various [actions](#) that are to be triggered as a response to events. Use this API to create these types of actions:

- [Notification](#)
- [Diagnostic](#)
- [Remediation](#)
- [JIRA](#)
- [HTTP Request](#)
- [Custom](#)



Syntax validation of the JSON payload is done when creating the action.

Create a New Action

Creates a new action with the specified JSON payload. See [Property Details](#).

Resource URL

```
POST <controller_url>/controller/alerting/rest/v1  
/applications/<application_id>/actions
```

Request/Response Format

JSON

Example

Retrieve a List of Actions for a Given Application

Returns the action ID, name, and description of the action pertaining to a specified application ID. See [Property Details](#).

Resource URL

```
GET <controller_url>/controller/alerting/rest/v1/applications/<application_id>/actions
```

Response Format

JSON


Example Response

This example returns a list of actions pertaining to a given application ID.

```
[{"id":1,"name":"Thread Dump Action","actionType":"THREAD_DUMP"}]
```

Retrieve Details of a Specified Action

Retrieves the details of action with a specified ID. See [Property Details](#).

 Ensure that you provide a valid action ID.

Resource URL

```
GET <controller_url>/controller/alerting/rest/v1/applications/<application_id>/actions/{action-id}
```

Response Format

JSON


Example Response

This example retrieves the details of an action. See [Download Examples](#).

```
{
  "id": 1,
  "actionType": "THREAD_DUMP",
  "name": "Thread Dump Action",
  "numberOfThreadDumps": 2,
  "intervalInMs": 500,
  "approvalBeforeExecution": {
    "requireApproval": true,
    "approverEmail": "email@website.com"
  }
}
```

Update an Action

Updates an existing action with a specified JSON payload. See [Property Details](#).

 This request requires a complete JSON payload as input. Hence, it is recommended that you retrieve the JSON payload using, `GET /action/{action-id}` and update the required fields. Then, send the modified payload as part of a `PUT` request.

Resource URL

```
PUT <controller_url>/controller/alerting/rest/v1/applications/<application_id>/action/{action-id}
```

Request/Response Format


JSON

Example

This example updates an action. See [Download Examples](#).

Delete an Action

Deletes an action with the specified ID. See [Property Details](#).

 Ensure that you provide a valid action ID.

Resource URL

DELETE <controller_url>/controller/alerting/rest/v1/applications/<application_id>/action/{action-id}

Response Codes

Code	Description
200	Fetches successfully
201	Created successfully
204	Deleted successfully
400	Bad request
401	Unauthorized
403	Forbidden
404	Resource not found
409	Already exists

Property Details

Action

Payload details for an action triggered as a response to an event.

Property Name	Type	Description and Valid Values
id	integer	This is auto-generated by the system and returned in the response. It is a readOnly value.
actionType*	string	The type of action triggered as a response to an event. Enums SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSE_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA

SmsAction

An SMS notification is triggered as a response to an event.



Note

Ensure that you have configured the email and SMS settings for AppDynamics. See [Configure the SMTP Server](#).

Property Name	Type	Description and Valid Values
id	integer	This is auto-generated by the system and returned in the response. It is a <code>readOnly</code> value.
actionType*	string	The type of action triggered as a response to an event. Enums SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSE_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA
phoneNumber*	string pattern: <code>^\d{10,}\$</code>	

EmailAction


An email notification is triggered as a response to an event.

Property Name	Type	Description and Valid Values
id	integer	This is auto-generated by the system and returned in the response. It is a <code>readOnly</code> value.
actionType*	string	The type of action triggered as a response to an event. Enums SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST

		CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSE_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA
emails*	string pattern ^[a-zA-Z0-9_+]+@[a-zA-Z0-9]+\.[a-zA-Z0-9-]+\$	

CustomEmailAction

An email notification based on a predefined template is triggered as a response to an event.

 The template must already exist before you can use it in an action. See [Email Templates](#).

Property Name	Type	Description and Valid Values
id	integer	This is auto-generated by the system and returned in the response. It is a readOnly value.
actionType*	string	The type of action triggered as a response to an event. Enums SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSE_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA
name*	string minLength: 1	ActionName The name you assign to the action.
emailTemplateName*	string minLength: 1	The name of the template to be used for email notification.
to*	string pattern: ^[a-zA-Z0-9_+]+@[a-zA-Z0-9]+\.[a-zA-Z0-9-]+\$	EmailArray A list of email IDs.
cc*	string pattern: ^[a-zA-Z0-9_+]+@[a-zA-Z0-9]+\.[a-zA-Z0-9-]+\$	EmailArray A list of email IDs.
bcc*	string pattern:	EmailArray

	^[a-zA-Z0-9_+-.]+@[a-zA-Z0-9-]+\.[a-zA-Z0-9-]+\.\$	A list of email IDs.						
customTemplateVariables*	string	KeyValuePair <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>key*</td> <td>string</td> </tr> <tr> <td>value*</td> <td>string</td> </tr> </tbody> </table>	Property Name	Type	key*	string	value*	string
Property Name	Type							
key*	string							
value*	string							

ThreadDumpAction

Property Name	Type	Description and Valid Values						
id	integer	This is auto-generated by the system and returned in the response. It is a readOnly value.						
actionType*	string	The type of action triggered as a response to an event. Enums SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSE_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA						
name*	string minLength: 1	ActionName The name you assign to the action.						
numberOfThreadDumps*	integer minimum: 1 maximum: 50	The number of thread dump samples you want the 'action' to collect.						
intervalInMs*	integer minimum: 500	The time interval in milliseconds between the thread dump samples collected.						
approvalBeforeExecution*		ApprovalBeforeExecution Mandate an approval before the thread dump action is started. <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>requireApproval</td> <td>boolean</td> </tr> <tr> <td>approverEmail</td> <td>string pattern: ^[a-zA-Z0-9_+-.]+@[a-zA-Z0-9-]+\.[a-zA-Z0-9-]+\.\$</td> </tr> </tbody> </table>	Property Name	Type	requireApproval	boolean	approverEmail	string pattern: ^[a-zA-Z0-9_+-.]+@[a-zA-Z0-9-]+\.[a-zA-Z0-9-]+\.\$
Property Name	Type							
requireApproval	boolean							
approverEmail	string pattern: ^[a-zA-Z0-9_+-.]+@[a-zA-Z0-9-]+\.[a-zA-Z0-9-]+\.\$							

HttpRequestAction


Property Name	Type	Description and Valid Values						
id	integer	This is auto-generated by the system and returned in the response. It is a readOnly value.						
actionType*	string	The type of action triggered as a response to an event. Enums SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSE_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA						
name*	string minLength: 1	ActionName The name you assign to the action.						
httpRequestTemplateName	string minLength: 1	An existing HTTP request template to be used in an HTTP request action.						
customTemplateVariables		KeyValuePair <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>key*</td> <td>string</td> </tr> <tr> <td>value*</td> <td>string</td> </tr> </tbody> </table>	Property Name	Type	key*	string	value*	string
Property Name	Type							
key*	string							
value*	string							

CustomAction

Property Name	Type	Description and Valid Values
id	integer	This is auto-generated by the system and returned in the response. It is a readOnly value.
actionType*	string	The type of action triggered as a response to an event. Enums SMS EMAIL CUSTOM_EMAIL THREAD_DUMP

		HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSE_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA
name*	string minLength: 1	ActionName The name you assign to the action.
customActionName*	string minLength: 1	

ScriptAction

Property Name	Type	Description and Valid Values
id	integer	This is auto-generated by the system and returned in the response. It is a readOnly value.
actionType*	string	The type of action triggered as a response to an event. Enums SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSE_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA
name*	string minLength: 1	ActionName The name you assign to the action.
scriptPath*	string minLength: 1	The relative path of the script. <div style="border: 1px solid #ccc; border-radius: 5px; padding: 5px; display: inline-block;">  Enter the part after <code>\${machine.agent.directory}/local-scripts/</code> </div>
logFilePath		The absolute path of the log file(s).
scriptTimeout*	string integer minimum: 1 maximum: 1440	
approvalBeforeExecution*		Mandate approval before the script action is started.

Property Name	Type
---------------	------

		requireApproval	boolean
		approverEmail	string pattern: ^[a-zA-Z0-9_+]+@[a-zA-Z0-9-]+\.[a-zA-Z0-9-]+\$

DiagnosticAction

Property Name	Type	Description and Valid Values
id	integer	This is auto-generated by the system and returned in the response. It is a readOnly value.
actionType*	string	The type of action triggered as a response to an event. Enums SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSE_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA
name*	string minLength: 1	ActionName The name you assign to the action.
duration*	integer minimum: 1 maximum: 10	The duration in minutes to run the diagnostic session.
snapshotRate*	integer minimum: 1 maximum: 10	The rate at which diagnostic snapshots are captured.
businessTransactions*	string	Runs the diagnostic session on the specified Business Transactions. Enums ALL_AFFECTED_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS

JiraAction

Property Name	Type	Description and Valid Values
id	integer	This is auto-generated by the system and returned in the response. It is a readOnly value.

actionType*	string	<p>The type of action triggered as a response to an event.</p> <p>Enums</p> <p>SMS</p> <p>EMAIL</p> <p>CUSTOM_EMAIL</p> <p>THREAD_DUMP</p> <p>HTTP_REQUEST</p> <p>CUSTOM</p> <p>RUN_SCRIPT_ON_NODES</p> <p>DIAGNOSE_BUSINESS_TRANSACTIONS</p> <p>CREATE_UPDATE_JIRA</p>
name*	string minLength: 1	<p>ActionName</p> <p>The name you assign to the action.</p>
jiraActionDetails*	string	<p>jiraActionType</p> <p>The JIRA action type triggered as a response to an event.</p> <p>Enums</p> <p>CREATE_JIRA</p> <p>UPDATE_JIRA</p>

JiraActionDetails

The JIRA action type triggered as a response to an event.

Property Name	Type	Description and Valid Values
jiraActionType	string	<p>Enums</p> <p>CREATE_JIRA</p> <p>UPDATE_JIRA</p>

JiraCreateAction

The Jira action type `create` JIRA is triggered as a response to an event.

Property Name	Type	Description and Valid Values
jiraActionType*	string	<p>Enums</p> <p>CREATE_JIRA</p> <p>UPDATE_JIRA</p>
assignee*	string minLength: 1	

project*	string minLength: 1	
priority*	string minLength: 1	
issueType*	string minLength: 1	

JiraUpdateAction

The Jira action type `update_JIRA` is triggered as a response to an event.

Property Name	Type	Description and Valid Values
jiraActionType*	string	Enums CREATE_JIRA UPDATE_JIRA
changePriorityTo*	string minLength: 1	

ActionName

The name you assign to the action.

Property Name	Type	Description and Valid Values
ActionName	string minLength: 1	

ApprovalBeforeExecution

Mandate email approval before the action execution is initiated.

Property Name	Type
requireApproval	boolean
approverEmail	string pattern: ^[a-zA-Z0-9_+-.]+@[a-zA-Z0-9-]+\.[a-zA-Z0-9-]+\$

BusinessTransactions

Run the diagnostic session on the specified Business Transactions.

Property Name	Type	Description and Valid Values
businessTransactionScope	string	Enums ALL_AFFECTED_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS

AllAffectedBusinessTransactions

Run the diagnostic session on all Business Transactions.

Property Name	Type	Description and Valid Values
businessTransactionScope	string	Enums ALL_AFFECTED_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS

SpecificBusinessTransactions

Run the diagnostic session on the Business Transactions that match the specified criteria.

Property Name	Type	Description and Valid Values
businessTransactionScope	string	Enums ALL_AFFECTED_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS
businessTransactionNames*	string minItems: 1	

EmailArray

Property Name	Type
EmailArray	string pattern: ^[a-zA-Z0-9_+]+@[a-zA-Z0-9]+\.[a-zA-Z0-9-]+\.\$

KeyValuePair

Property Name	Type
key*	string
value*	string

Email

Property Name	Type
Email	string pattern: ^[a-zA-Z0-9_+]+@[a-zA-Z0-9]+\.[a-zA-Z0-9-]+\.\$

ActionSummaryArray

Property Name	Type	Description and Valid Values
id	integer	This is auto-generated by the system and returned in the response.

		It is a readOnly value.
name*	string minLength: 1	ActionName The name you assign to the action.
actionType*	string	The type of action triggered as a response to an event. Enums SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSE_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA

ActionSummary

Property Name	Type	Description and Valid Values
id	integer	This is auto-generated by the system and returned in the response. It is a readOnly value.
name*	string minLength: 1	ActionName The name you assign to the action.
actionType*	string	The type of action triggered as a response to an event. Enums SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSE_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA

StringIntegerPair

Property Name	Type

id	integer
name*	string minLength: 1

JiraActionTypeEnum

Property Name	Type	Description and Valid Values
jiraActionTypeEnum	string	CREATE_JIRA UPDATE_JIRA

BusinessTransactionScopeEnum

Property Name	Type	Description and Valid Values
BusinessTransactionScopeEnum	string	ALL_AFFECTED_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS

ActionTypeEnum

Property Name	Type	Description and Valid Values
ActionTypeEnum	string	Enums SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSE_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA

ErrorResponse

Property Name	Type
statusCode	integer
message	string

*This property is required.

Download Examples


Download [actions_api.zip](#) for a set of examples that help you configure an action.

Download SWAGGER YAML file

Download the Swagger [actions_openapi.yml](#).

Email Digest API

This page provides Email Digest API methods you can use to report a summary of a specific event(s) to a recipient list configured on a health rule schedule. [Email digests](#) are triggered as a response to a health rule violation event.

 Syntax validation of the JSON payload is done when creating the email digest.

Create a New Email Digest

Creates a new email digest with the specified JSON payload. See [Property Details](#).

Resource URL

```
POST <controller_url>/controller/alerting/rest/v1  
/applications/<application_id>/email-digests
```

Request/Response Format

JSON

Example

Retrieve a List of Email Digests for an Application

This API returns the email digest names, IDs, and enable flag details pertaining to the specified application. See [Property Details](#).

Resource URL

```
GET <controller_url>/controller/alerting/rest/v1/applications/<application_id>/email-digests
```

Response Format

JSON

Example Response

This example returns a list of email digests pertaining to the specified application ID.

```
[  
  {  
    "id": 12,  
    "name": "some email digest name",  
    "enabled": true  
  }  
]
```

Retrieve Details of an Email Digest

Retrieves the details of an email digest with a specified ID. See [Property Details](#).

 Ensure that you provide a valid email digest ID.

Resource URL

GET <controller_url>/controller/alerting/rest/v1/applications/<application_id>/email-digests/{email-digest-id}

Response Format

JSON

Example Response

```
{
  "id": 0,
  "name": "My new email digest",
  "enabled": true,
  "executeActionsInBatch": true,
  "frequency": 2,
  "actions": [
    {
      "actionName": "My action 1",
      "actionType": "SMS"
    }
  ],
  "events": {
    "healthRuleEvents": {
      "healthRuleEventTypes": [
        "HEALTH_RULE_CONTINUES_CRITICAL",
        "HEALTH_RULE_UPGRADED"
      ],
      "healthRuleScope": {
        "healthRuleScopeType": "ALL_HEALTH_RULES"
      }
    },
    "otherEvents": [
      "CLR_CRASH",
      "DEADLOCK"
    ],
    "anomalyEvents": [
      "ANOMALY_OPEN_WARNING",
      "ANOMALY_CLOSE_CRITICAL"
    ],
    "customEvents": [
      {
        "eventName": "string",
        "propertyMatchCriteria": "ANY",
        "keyValuePairArray": [
          {
            "key": "key1",
            "value": "value1"
          }
        ]
      }
    ]
  },
  "selectedEntities": {
    "selectedEntityType": "ANY_ENTITY"
  }
}
```

Update an Email Digest

Updates an existing email digest with a specified JSON payload. See [Property Details](#).



This request requires a complete JSON payload as input. It is recommended that you retrieve the JSON payload using, `GET email-digests/{email-digest-id}` and update the required fields. Then, send the modified payload as part of `PUT` request.

Resource URL

`PUT <controller_url>/controller/alerting/rest/v1/applications/<application_id>/email-digests/{email-digest-id}`

Request/Response Format

JSON

Example

Delete an Email Digest

Deletes an email digest with the specified ID. See [Property Details](#).



Ensure that you provide a valid email digest ID.

Resource URL

`DELETE <controller_url>/controller/alerting/rest/v1/applications/<application_id>/email-digests/{email-digest-id}`

Update one or more properties of an Email Digest

Updates the properties of an existing email digest with a specified JSON payload. See [Property Details](#)

Resource URL

`PUT <controller_url>/controller/alerting/rest/v1/applications/<application_id>/email-digests/{email-digest-id}/configuration`

Request/Response Format

JSON

Example

Response Codes

Code	Description
200	Fetches successfully
201	Created successfully
204	Deleted successfully
400	Bad request
401	Unauthorized
403	Forbidden
404	Resource not found
409	Already exists

Property Details

Email Digest

Payload details of an email digest.

Property Name	Type	Description and Valid Values
id	integer	This is auto-generated by the system and returned in the response. It is a readOnly value.
name*	string Minimum length: 1	Name of the email digest.
enabled	boolean Default value: true	Sets the email digest to enabled/disabled state.
frequency	integer minimum: 1 maximum: 168	The frequency in hours at which emails are sent as a response to an event.

actions*	minItems: 1	<p>Action</p> <p>Describes the predefined, reusable, and automated response to an event to be taken when the event is triggered.</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>actionName*</td> <td>string</td> <td>Name of the action defined for an email digest.</td> </tr> <tr> <td>actionType*</td> <td>string</td> <td>ActionTypeEnum Creates the following types of actions: SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSTIC_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA</td> </tr> </tbody> </table>	Property Name	Type	Description	actionName*	string	Name of the action defined for an email digest.	actionType*	string	ActionTypeEnum Creates the following types of actions: SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSTIC_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA
Property Name	Type	Description									
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actionType*	string	ActionTypeEnum Creates the following types of actions: SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSTIC_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA									
events*		<p>Events</p> <p>Describes the events that trigger the email digest.</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Description</th> </tr> </thead> <tbody> </tbody> </table>	Property Name	Description							
Property Name	Description										

healthRuleEvents

HealthRuleEvents

Describes the trigger event type(s) generated due to health rule issues.


Property Name	Description
healthRuleEventTypes*	<p>HealthRuleEventTypes</p> <p>Describes the event type related to health rule that triggers the email digest.</p> <p>minItems: 1</p> <p>HealthRuleEventTypeEnum</p> <p>HEALTH_RULE_CONTINUES_CRITICAL</p> <p>HEALTH_RULE_OPEN_CRITICAL</p> <p>HEALTH_RULE_OPEN_WARNING</p> <p>HEALTH_RULE_UPGRADED</p> <p>HEALTH_RULE_DOWNGRADED</p> <p>HEALTH_RULE_CONTINUES_WARNING</p> <p>HEALTH_RULE_CLOSE_WARNING</p> <p>HEALTH_RULE_CLOSE_CRITICAL</p> <p>HEALTH_RULE_CANCELED_WARNING</p> <p>HEALTH_RULE_CANCELED_CRITICAL</p>
healthRuleScope*	<p>HealthRuleScope</p> <p>Describes the scope of the health rule based on which, the events are triggered.</p> <p>Enums</p> <p>ALL_HEALTH_RULES</p> <p>SPECIFIC_HEALTH_RULES</p>

otherEvents

OtherEvents

Describes the trigger event type(s) generated due to other issues.

Property Name	Description
OtherEventType	<p>Lists the event type that triggers an action.</p> <p>Enums</p> <p>CLR_CRASH</p> <p>APPLICATION_CRASH</p> <p>DEADLOCK</p> <p>RESOURCE_POOL_LIMIT</p> <p>APPLICATION_DEPLOYMENT</p> <p>APP_SERVER_RESTART</p> <p>APPLICATION_CONFIG_CHANGE</p> <p>AGENT_CONFIGURATION_ERROR</p> <p>APPLICATION_DISCOVERED</p> <p>TIER_DISCOVERED</p> <p>NODE_DISCOVERED</p> <p>MACHINE_DISCOVERED</p> <p>BT_DISCOVERED</p> <p>SERVICE_ENDPOINT_DISCOVERED</p> <p>BACKEND_DISCOVERED</p> <p>EUM_CLOUD_SYNTHETIC_HEALTHY_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_CONFIRMED_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_ONGOING_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_ERROR_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_CONFIRMED_ERROR_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_ONGOING_ERROR_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_HEALTHY_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_CONFIRMED_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_ONGOING_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_CRITICAL_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_CONFIRMED_CRITICAL_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_ONGOING_CRITICAL_EVENT</p> <p>MOBILE_NEW_CRASH_EVENT, SLOW, VERY_SLOW, STALL</p> <p>ERROR</p>

		<p>anomalyEvents</p> <p>AnomalyEvents</p> <p>Describes the trigger event type(s) generated due to anomaly detection.</p> <p>minItems: 1</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>AnomalyEventType</td> <td>Lists the event type that triggers an action.</td> </tr> <tr> <td></td> <td> Enums ANOMALY_OPEN_WARNING ANOMALY_OPEN_CRITICAL ANOMALY_UPGRADED ANOMALY_DOWNGRADED ANOMALY_CLOSE_WARNING ANOMALY_CLOSE_CRITICAL ANOMALY_CANCELED_WARNING ANOMALY_CANCELED_CRITICAL </td> </tr> </tbody> </table>	Property Name	Description	AnomalyEventType	Lists the event type that triggers an action.		Enums ANOMALY_OPEN_WARNING ANOMALY_OPEN_CRITICAL ANOMALY_UPGRADED ANOMALY_DOWNGRADED ANOMALY_CLOSE_WARNING ANOMALY_CLOSE_CRITICAL ANOMALY_CANCELED_WARNING ANOMALY_CANCELED_CRITICAL						
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		<p>customEvents</p> <p>The custom event type(s) you define.</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>eventName*</td> <td>string</td> <td>Custom event name.</td> </tr> <tr> <td>propertyMatchCriteria</td> <td>string</td> <td> Enums ANY ALL </td> </tr> <tr> <td>keyValuePairArray</td> <td>string</td> <td> KeyValuePair key_ value_* </td> </tr> </tbody> </table>	Property Name	Type	Description	eventName*	string	Custom event name.	propertyMatchCriteria	string	Enums ANY ALL	keyValuePairArray	string	KeyValuePair key_ value_*
Property Name	Type	Description												
eventName*	string	Custom event name.												
propertyMatchCriteria	string	Enums ANY ALL												
keyValuePairArray	string	KeyValuePair key_ value_*												
<p>selectedEntities</p>		<p>SelectedEntityType</p> <p>Scope of entities considered for the email digest.</p> <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;">  Entities corresponding to EUM applications are not supported. </div> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>SelectedEntityType*</td> <td>string</td> <td> Enums ANY_ENTITY SPECIFIC_ENTITIES </td> </tr> </tbody> </table>	Property Name	Type	Description	SelectedEntityType*	string	Enums ANY_ENTITY SPECIFIC_ENTITIES						
Property Name	Type	Description												
SelectedEntityType*	string	Enums ANY_ENTITY SPECIFIC_ENTITIES												

SelectedEntityType

Scope of entities considered for the email digest.

Property Name	Type	Description
SelectedEntityType*	string	Enums ANY_ENTITY SPECIFIC_ENTITIES

SpecificEntities

Scope of specific entities considered for the email digest.

Property Name	Type	Description						
selectedEntityType*	string	Enum SPECIFIC_ENTITIES						
entities	minItems: 1	Entity <table border="1"> <thead> <tr> <th>Property name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>entityType*</td> <td>string minItems: 1</td> <td>Enums BUSINESS_TRANSACTION TIER_NODE ERRORS SERVICE_ENDPOINTS INFORMATION_POINTS DATABASES_IN_APPLICATION SERVERS_IN_APPLICATION PAGE AJAX_REQUEST SYNTHETIC_JOBS IFRAME VIRTUAL_PAGE MOBILE_APPS MOBILE_NETWORK_REQUESTS</td> </tr> </tbody> </table>	Property name	Type	Description	entityType*	string minItems: 1	Enums BUSINESS_TRANSACTION TIER_NODE ERRORS SERVICE_ENDPOINTS INFORMATION_POINTS DATABASES_IN_APPLICATION SERVERS_IN_APPLICATION PAGE AJAX_REQUEST SYNTHETIC_JOBS IFRAME VIRTUAL_PAGE MOBILE_APPS MOBILE_NETWORK_REQUESTS
Property name	Type	Description						
entityType*	string minItems: 1	Enums BUSINESS_TRANSACTION TIER_NODE ERRORS SERVICE_ENDPOINTS INFORMATION_POINTS DATABASES_IN_APPLICATION SERVERS_IN_APPLICATION PAGE AJAX_REQUEST SYNTHETIC_JOBS IFRAME VIRTUAL_PAGE MOBILE_APPS MOBILE_NETWORK_REQUESTS						

Entity

Property name	Type	Description
---------------	------	-------------

entityType*	string minItems: 1	Enums BUSINESS_TRANSACTION TIER_NODE ERRORS SERVICE_ENDPOINTS INFORMATION_POINTS DATABASES_IN_APPLICATION SERVERS_IN_APPLICATION PAGE AJAX_REQUEST SYNTHETIC_JOBS IFRAME VIRTUAL_PAGE MOBILE_APPS MOBILE_NETWORK_REQUESTS
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AnyEntity

Scope of entities considered for the email digest.

Property Name	Type	Description
SelectedEntityType*	string	Enums ANY_ENTITY

SelectedMobileApps

Property name	Type	Description
mobileAppsScope*	string	Enums ALL_MOBILE_APPS SPECIFIC_MOBILE_APPS MOBILE_APPS_MATCHING_PATTERN

AllMobileApps

Property name	Type	Description
mobileAppsScope*	string	Enum ALL_MOBILE_APPS

SpecificMobileApps

Property name	Type	Description
---------------	------	-------------

mobileAppsScope*	string	Enum SPECIFIC_MOBILE_APPS
mobileApps	string minItems: 1	

MobileAppsMatchingPattern

Property name	Type	Description												
mobileAppsScope*	string	Enum MOBILE_APPS_MATCHING_PATTERN												
patternMatcher*		<p>EntityMatchingPattern</p> <p>Business transactions that match the specified pattern are included in the scope.</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td></td> <td>Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX</td> </tr> <tr> <td>matchValue*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>shouldNot</td> <td>boolean default: false</td> <td></td> </tr> </tbody> </table>	Property Name	Type	Description	matchTo*		Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean default: false	
Property Name	Type	Description												
matchTo*		Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX												
matchValue*	string minLength: 1													
shouldNot	boolean default: false													

MobileNetworkRequests

Property name	Type	Description
entityType*	string minItems: 1	Enum MOBILE_NETWORK_REQUESTS
selectedMobileNetworkRequests*	string	<p>MobileNetworkRequestsScope</p> <p>Enums</p> <p>ALL_MOBILE_NETWORK_REQUESTS SPECIFIC_MOBILE_NETWORK_REQUESTS SPECIFIC_MOBILE_APPS_NETWORK_REQUESTS MOBILE_NETWORK_REQUESTS_MATCHING_PATTERN</p>

SelectedMobileNetworkRequests

Property name	Type	Description
mobileNetworkRequestsScope*	string	MobileNetworkRequestsScope Enums ALL_MOBILE_NETWORK_REQUESTS SPECIFIC_MOBILE_NETWORK_REQUESTS SPECIFIC_MOBILE_APPS_NETWORK_REQUESTS MOBILE_NETWORK_REQUESTS_MATCHING_PATTERN

AllMobileNetworkRequests

The scope of mobile network requests is ALL_MOBILE_NETWORK_REQUESTS.

Property name	Type	Description
mobileNetworkRequestsScope*	string	MobileNetworkRequestsScope Enum ALL_MOBILE_NETWORK_REQUESTS

SpecificMobileNetworkRequests

The scope of mobile network requests is SPECIFIC_MOBILE_NETWORK_REQUESTS.

Property name	Type	Description
mobileNetworkRequestsScope*	string	MobileNetworkRequestsScope Enum SPECIFIC_MOBILE_NETWORK_REQUESTS
mobileNetworkRequests*	string minItems:1	

SpecificMobileAppsNetworkRequests

The scope of mobile network requests is SPECIFIC_MOBILE_APPS_NETWORK_REQUESTS.

Property name	Type	Description
mobileNetworkRequestsScope*	string	MobileNetworkRequestsScope Enum SPECIFIC_MOBILE_APPS_NETWORK_REQUESTS
mobileApps*	string minItems:1	

MobileNetworkRequestsMatchingPattern

The scope of mobile network requests is MOBILE_NETWORK_REQUESTS_MATCHING_PATTERN.

Property name	Type	Description												
mobileNetworkRequestsScope*	string	MobileNetworkRequestsScope Enum MOBILE_NETWORK_REQUESTS_MATCHING_PATTERN												
patternMatcher*		EntityMatchingPattern Business transactions that match the specified pattern are included in the scope. <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td></td> <td> Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX </td> </tr> <tr> <td>matchValue*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>shouldNot</td> <td>boolean default: false</td> <td></td> </tr> </tbody> </table>	Property Name	Type	Description	matchTo*		Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean default: false	
Property Name	Type	Description												
matchTo*		Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX												
matchValue*	string minLength: 1													
shouldNot	boolean default: false													

Page

The scope of entities considered for the email digest is page for EUM applications.

Property name	Type	Description
entityType*	string minItems: 1	Enum PAGE
selectedPages*	string	pageScope Enums ALL_PAGES SPECIFIC_PAGES PAGES_MATCHING_PATTERN

SelectedPages

The scope of entities considered for the email digest is selected pages for EUM applications.

Property name	Type	Description
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pageScope*	string	Enums ALL_PAGES SPECIFIC_PAGES PAGES_MATCHING_PATTERN
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AllPages

The scope of entities considered for the email digest is ALL_PAGES for EUM applications.

Property name	Type	Description
pageScope*	string	Enum ALL_PAGES

SpecificPages

The scope of entities considered for the email digest is SPECIFIC_PAGES for EUM applications.

Property name	Type	Description
pageScope*	string	Enum SPECIFIC_PAGES
pages*	array of strings minItems: 1	

PagesMatchingPattern

The scope of entities considered for the email digest is SPECIFIC_PAGES for EUM applications.

Property name	Type	Description
pageScope*	string	Enum PAGES_MATCHING_PATTERN

pages*		<p>EntityMatchingPattern</p> <p>Business transactions that match the specified pattern are included in the scope.</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td></td> <td> Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX </td> </tr> <tr> <td>matchValue*</td> <td> string minLength: 1 </td> <td></td> </tr> <tr> <td>shouldNot</td> <td> boolean default: false </td> <td></td> </tr> </tbody> </table>	Property Name	Type	Description	matchTo*		Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean default: false	
Property Name	Type	Description												
matchTo*		Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX												
matchValue*	string minLength: 1													
shouldNot	boolean default: false													

VirtualPage

Property name	Type	Description
entityType*	string minItems: 1	Enum VIRTUAL_PAGE
selectedVirtualPages*	string	SelectedVirtualPages Enums ALL_VIRTUAL_PAGES SPECIFIC_VIRTUAL_PAGES VIRTUAL_PAGES_MATCHING_PATTERN

SelectedVirtualPages

Property name	Type	Description
virtualPageScope*	string	SelectedVirtualPages Enums ALL_VIRTUAL_PAGES SPECIFIC_VIRTUAL_PAGES VIRTUAL_PAGES_MATCHING_PATTERN

AllVirtualPages

Property name	Type	Description
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virtualPageScope*	string	SelectedVirtualPages Enum ALL_VIRTUAL_PAGES
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SpecificVirtualPages

Property name	Type	Description
virtualPageScope*	string	SelectedVirtualPages Enum SPECIFIC_VIRTUAL_PAGES
virtualPages	string minItems: 1	

VirtualPagesMatchingPattern

Property name	Type	Description												
virtualPageScope*	string	SelectedVirtualPages Enum VIRTUAL_PAGES_MATCHING_PATTERN												
patternMatcher		EntityMatchingPattern Business transactions that match the specified pattern are included in the scope. <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td></td> <td> Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX </td> </tr> <tr> <td>matchValue*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>shouldNot</td> <td>boolean default: false</td> <td></td> </tr> </tbody> </table>	Property Name	Type	Description	matchTo*		Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean default: false	
Property Name	Type	Description												
matchTo*		Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX												
matchValue*	string minLength: 1													
shouldNot	boolean default: false													

SyntheticJob

Property name	Type	Description
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entityType*	string minItems: 1	Enum SYNTHETIC_JOBS
selectedSyntheticJobs*	string	SelectedSyntheticJobs Enums ALL_SYNTHETIC_JOBS SPECIFIC_SYNTHETIC_JOBS SYNTHETIC_JOBS_MATCHING_PATTERN

SelectedSyntheticJobs

Property name	Type	Description
syntheticJobScope*	string	Enums ALL_SYNTHETIC_JOBS SPECIFIC_SYNTHETIC_JOBS SYNTHETIC_JOBS_MATCHING_PATTERN

AllSyntheticJobs

Property name	Type	Description
syntheticJobScope*	string	Enum ALL_SYNTHETIC_JOBS

SpecificSyntheticJobs

Property name	Type	Description
syntheticJobScope*	string	Enum SPECIFIC_SYNTHETIC_JOBS
syntheticJobs*	string minItems: 1	

SyntheticJobsMatchingPattern

Property name	Type	Description
syntheticJobScope*	string	Enum SYNTHETIC_JOBS_MATCHING_PATTERN

patternMatcher*		<p>EntityMatchingPattern</p> <p>Business transactions that match the specified pattern are included in the scope.</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td></td> <td> Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX </td> </tr> <tr> <td>matchValue*</td> <td> string minLength: 1 </td> <td></td> </tr> <tr> <td>shouldNot</td> <td> boolean default: false </td> <td></td> </tr> </tbody> </table>	Property Name	Type	Description	matchTo*		Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean default: false	
Property Name	Type	Description												
matchTo*		Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX												
matchValue*	string minLength: 1													
shouldNot	boolean default: false													

IFrame

Property name	Type	Description
entityType*	string minItems: 1	Enum IFRAME
selectedIFrames*	string	iFrameScope Enums ALL_IFRAMES SPECIFIC_IFRAMES IFRAMES_MATCHING_PATTERN

SelectedIFrames

Property name	Type	Description
iFrameScope*	string	Enums ALL_IFRAMES SPECIFIC_IFRAMES IFRAMES_MATCHING_PATTERN

AllIFrames

Property name	Type	Description
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iFrameScope*	string	Enum ALL_IFRAMES
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SpecificIFrames

Property name	Type	Description
iFrameScope*	string	Enum SPECIFIC_IFRAMES
iFrames*	string minItems: 1	

IFramesMatchingPattern

Property name	Type	Description												
iFrameScope*	string	Enum IFRAMES_MATCHING_PATTERN												
patternMatcher*		<p>EntityMatchingPattern</p> <p>Business transactions that match the specified pattern are included in the scope.</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td></td> <td>Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX</td> </tr> <tr> <td>matchValue*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>shouldNot</td> <td>boolean default: false</td> <td></td> </tr> </tbody> </table>	Property Name	Type	Description	matchTo*		Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean default: false	
Property Name	Type	Description												
matchTo*		Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX												
matchValue*	string minLength: 1													
shouldNot	boolean default: false													

AjaxRequest

Property name	Type	Description
entityType*	string minItems: 1	Enum AJAX_REQUEST

selectedAjaxRequests*	string	AjaxRequestsScope Enums ALL_AJAX_REQUESTS SPECIFIC_AJAX_REQUESTS AJAX_REQUESTS_MATCHING_PATTERN
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SelectedAjaxRequests

Property name	Type	Description
selectedAjaxRequests*	string	Enums ALL_AJAX_REQUESTS SPECIFIC_AJAX_REQUESTS AJAX_REQUESTS_MATCHING_PATTERN

AllAjaxRequests

Property name	Type	Description
selectedAjaxRequests*	string	Enum ALL_AJAX_REQUESTS

SpecificAjaxRequests

Property name	Type	Description
selectedAjaxRequests*	string	Enum SPECIFIC_AJAX_REQUESTS
ajaxRequests*	array of strings minItems: 1	

AjaxRequestsMatchingPattern

Property name	Type	Description
ajaxRequestScope*	string	Enum AJAX_REQUESTS_MATCHING_PATTERN

patternMatcher*	<p>EntityMatchingPattern</p> <p>Business transactions that match the specified pattern are included in the scope.</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td></td> <td> Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX </td> </tr> <tr> <td>matchValue*</td> <td> string minLength: 1 </td> <td></td> </tr> <tr> <td>shouldNot</td> <td> boolean default: false </td> <td></td> </tr> </tbody> </table>	Property Name	Type	Description	matchTo*		Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean default: false	
Property Name	Type	Description											
matchTo*		Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX											
matchValue*	string minLength: 1												
shouldNot	boolean default: false												

BusinessTransaction

All entities of type BUSINESS_TRANSACTION are considered for email digest.

Property Name	Type	Description				
entityType*	string	Enum BUSINESS_TRANSACTION				
selectedBusinessTransactions*	string	<p>BusinessTransactionScope</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>businessTransactionScope*</td> <td> Enums ALL_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS BUSINESS_TRANSACTIONS_MATCHING_PATTERN </td> </tr> </tbody> </table>	Property Name	Description	businessTransactionScope*	Enums ALL_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS BUSINESS_TRANSACTIONS_MATCHING_PATTERN
Property Name	Description					
businessTransactionScope*	Enums ALL_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS BUSINESS_TRANSACTIONS_MATCHING_PATTERN					

SelectedBusinessTransactions

Property Name	Description
businessTransactionScope*	Enums ALL_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS BUSINESS_TRANSACTIONS_MATCHING_PATTERN

AllBusinessTransactions

The scope of business transactions is set to all business transactions.

Property Name	Description
businessTransactionScope*	Enum ALL_BUSINESS_TRANSACTIONS

SpecificBusinessTransactions

The scope of business transactions is set to select business transactions.

Property Name	Type	Description
businessTransactionScope*	string	Enum SPECIFIC_BUSINESS_TRANSACTIONS
businessTransactions*	array of strings minItems: 1	Name(s) of the business transactions.

BusinessTransactionsInSpecificTiers

The scope of business transactions is set to business transactions associated with a specific tier.

Property Name	Type	Description
businessTransactionScope*		Enum BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS
specificTiers*	string minItems: 1	Name of the specified tier.

BusinessTransactionsMatchingPattern

The scope of business transactions is set to business transactions that match a specific pattern.

Property Name	Description
businessTransactionScope*	Enum BUSINESS_TRANSACTIONS_MATCHING_PATTERN

patternMatcher*	<p>EntityMatchingPattern</p> <p>Business transactions that match the specified pattern are included in the scope.</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td></td> <td> Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX </td> </tr> <tr> <td>matchValue*</td> <td> string minLength: 1 </td> <td></td> </tr> <tr> <td>shouldNot</td> <td> boolean default: false </td> <td></td> </tr> </tbody> </table>	Property Name	Type	Description	matchTo*		Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean default: false	
Property Name	Type	Description											
matchTo*		Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX											
matchValue*	string minLength: 1												
shouldNot	boolean default: false												

SelectedTierOrNodeEntities

Specific tiers or nodes are considered for the email digest.

Property Name	Type	Description						
entityType*	string	Enum TIER_NODE						
tierOrNode*	string minLength: 1	<p>TierOrNode</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>tierOrNodeScope*</td> <td>string</td> <td> Enums TIER_SELECTED_ENTITIES NODE_SELECTED_ENTITIES </td> </tr> </tbody> </table>	Property Name	Type	Description	tierOrNodeScope*	string	Enums TIER_SELECTED_ENTITIES NODE_SELECTED_ENTITIES
Property Name	Type	Description						
tierOrNodeScope*	string	Enums TIER_SELECTED_ENTITIES NODE_SELECTED_ENTITIES						

TierOrNode

Property Name	Type	Description
tierOrNodeScope*	string	Enums TIER_SELECTED_ENTITIES NODE_SELECTED_ENTITIES

TierSelectedEntities

Property Name	Type	Description
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tierOrNodeScope*	string	Enums TIER_SELECTED_ENTITIES						
selectedTiers*		SelectedTiers <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>selectedTierScope*</td> <td>string</td> <td>Enums ALL_TIERS SPECIFIC_TIERS</td> </tr> </tbody> </table>	Property Name	Type	Description	selectedTierScope*	string	Enums ALL_TIERS SPECIFIC_TIERS
Property Name	Type	Description						
selectedTierScope*	string	Enums ALL_TIERS SPECIFIC_TIERS						

SelectedTiers

Property Name	Type	Description
selectedTierScope*	string	Enums ALL_TIERS SPECIFIC_TIERS

AllTiers

Property Name	Type	Description
selectedTierScope*	string	Enum ALL_TIERS

SpecificTiers

Property Name	Type	Description
selectedTierScope*	string	Enum SPECIFIC_TIERS
tiers_*	string minItems: 1	Name(s) of the specified tier(s).

NodeSelectedEntities

Property Name	Type	Description
tierOrNodeScope*	string	Enum NODE_SELECTED_ENTITIES

typeofNode*	string	Enums ALL_NODES JAVA_NODES DOT_NET_NODES PHP_NODES						
selectedNodes*		SelectedNodes <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>selectedNodeScope*</td> <td>string</td> <td>Enums ALL_NODES SPECIFIC_NODES NODES_OF_SPECIFIC_TIERS NODES_MATCHING_PATTERN NODE_PROPERTY_VARIABLE_MATCHER</td> </tr> </tbody> </table>	Property Name	Type	Description	selectedNodeScope*	string	Enums ALL_NODES SPECIFIC_NODES NODES_OF_SPECIFIC_TIERS NODES_MATCHING_PATTERN NODE_PROPERTY_VARIABLE_MATCHER
Property Name	Type	Description						
selectedNodeScope*	string	Enums ALL_NODES SPECIFIC_NODES NODES_OF_SPECIFIC_TIERS NODES_MATCHING_PATTERN NODE_PROPERTY_VARIABLE_MATCHER						

SelectedNodes

Property Name	Type	Description
selectedNodeScope*	string	Enums ALL_NODES SPECIFIC_NODES NODES_OF_SPECIFIC_TIERS NODES_MATCHING_PATTERN NODE_PROPERTY_VARIABLE_MATCHER

AllNodes

Property Name	Type	Description
selectedNodeScope*	string	Enum ALL_NODES

SpecificNodes

Property Name	Type	Description
selectedNodeScope*	string	Enum SPECIFIC_NODES
nodes*	string minItems: 1	Name(s) of the specified node(s).

NodesOfSpecificTiers

Property Name	Type	Description
selectedNodeScope*	string	Enum NODES_OF_SPECIFIC_TIERS
specificTiers*	string minItems: 1	Name(s) of tier with the associated nodes.

NodesMatchingPattern

Property Name	Type	Description												
selectedNodeScope*	string	Enum NODES_MATCHING_PATTERN												
patternMatcher*		<p>EntityMatchingPattern</p> <p>Nodes that match a specified pattern are included in the scope.</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td></td> <td>Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX</td> </tr> <tr> <td>matchValue*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>shouldNot</td> <td>boolean default: false</td> <td></td> </tr> </tbody> </table>	Property Name	Type	Description	matchTo*		Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean default: false	
Property Name	Type	Description												
matchTo*		Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX												
matchValue*	string minLength: 1													
shouldNot	boolean default: false													

NodePropertyVariableMatcher

Property Name	Type	Description
selectedNodeScope*	string	Enum NODE_PROPERTY_VARIABLE_MATCHER

propVarPairs*	minItems: 1	<p>propVarPairs</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>propertyType*</td> <td>string</td> <td>NodePropertyTypeEnum META ENV JVM</td> </tr> <tr> <td>name*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>value*</td> <td>string minLength: 1</td> <td></td> </tr> </tbody> </table>	Property Name	Type	Description	propertyType*	string	NodePropertyTypeEnum META ENV JVM	name*	string minLength: 1		value*	string minLength: 1	
Property Name	Type	Description												
propertyType*	string	NodePropertyTypeEnum META ENV JVM												
name*	string minLength: 1													
value*	string minLength: 1													

Errors

Specific errors are considered for email digest.

Property Name	Type	Description						
entityType*	string	Enum ERRORS						
selectedErrors*		<p>SelectedErrors</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>errorScope*</td> <td>string</td> <td>Enums ALL_ERRORS SPECIFIC_ERRORS ERRORS_OF_SPECIFIC_TIERS ERRORS_MATCHING_PATTERN</td> </tr> </tbody> </table>	Property Name	Type	Description	errorScope*	string	Enums ALL_ERRORS SPECIFIC_ERRORS ERRORS_OF_SPECIFIC_TIERS ERRORS_MATCHING_PATTERN
Property Name	Type	Description						
errorScope*	string	Enums ALL_ERRORS SPECIFIC_ERRORS ERRORS_OF_SPECIFIC_TIERS ERRORS_MATCHING_PATTERN						

SelectedErrors

Property Name	Type	Description
errorScope*	string	Enums ALL_ERRORS SPECIFIC_ERRORS ERRORS_OF_SPECIFIC_TIERS ERRORS_MATCHING_PATTERN

AllErrors

Property Name	Type	Description
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errorScope*	string	Enum ALL_ERRORS
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SpecificErrors

Property Name	Type	Description
errorScope*	string	Enum SPECIFIC_ERRORS
errors*	string minItems: 1 Example: NullPointerException	

ErrorsOfSpecificTiers

Property Name	Type	Description
errorScope*	string	Enum ERRORS_OF_SPECIFIC_TIERS
specificTiers*	string minItems: 1	

ErrorsMatchingPattern

Property Name	Type	Description												
errorScope*	string	Enum ERRORS_MATCHING_PATTERN												
patternMatcher*		EntityMatchingPattern <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td>string</td> <td>Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX</td> </tr> <tr> <td>matchValue*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>shouldNot</td> <td>boolean default: false</td> <td></td> </tr> </tbody> </table>	Property Name	Type	Description	matchTo*	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean default: false	
Property Name	Type	Description												
matchTo*	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX												
matchValue*	string minLength: 1													
shouldNot	boolean default: false													

ServiceEndpoints

Specific service endpoints are considered for email digest.

Property Name	Type	Description						
entityType*	string	Enum SERVICE_ENDPOINTS						
selectedServiceEndpoints*		SelectedServiceEndpoints <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>serviceEndpointScope*</td> <td>string</td> <td>Enums ALL_SERVICE_ENDPOINTS SPECIFIC_SERVICE_ENDPOINTS SERVICE_ENDPOINTS_IN_SPECIFIC_TIERS SERVICE_ENDPOINTS_MATCHING_PATTERN</td> </tr> </tbody> </table>	Property Name	Type	Description	serviceEndpointScope*	string	Enums ALL_SERVICE_ENDPOINTS SPECIFIC_SERVICE_ENDPOINTS SERVICE_ENDPOINTS_IN_SPECIFIC_TIERS SERVICE_ENDPOINTS_MATCHING_PATTERN
Property Name	Type	Description						
serviceEndpointScope*	string	Enums ALL_SERVICE_ENDPOINTS SPECIFIC_SERVICE_ENDPOINTS SERVICE_ENDPOINTS_IN_SPECIFIC_TIERS SERVICE_ENDPOINTS_MATCHING_PATTERN						

SelectedServiceEndpoints

Property Name	Type	Description
serviceEndpointScope*	string	Enums ALL_SERVICE_ENDPOINTS SPECIFIC_SERVICE_ENDPOINTS SERVICE_ENDPOINTS_IN_SPECIFIC_TIERS SERVICE_ENDPOINTS_MATCHING_PATTERN

AllServiceEndpoints

Property Name	Type	Description
serviceEndpointScope*	string	Enums ALL_SERVICE_ENDPOINTS

SpecificServiceEndpoints

Property Name	Type	Description
serviceEndpointScope*	string	Enum SPECIFIC_SERVICE_ENDPOINTS
serviceEndpoints*	string minItems: 1	

ServiceEndpointsInSpecificTiers

Property Name	Type	Description
serviceEndpointScope*	string	Enum SERVICE_ENDPOINTS_IN_SPECIFIC_TIERS
specificTiers*	string minItems: 1	

ServiceEndpointsMatchingPattern

Property Name	Type	Description												
serviceEndpointScope*	string	Enum SERVICE_ENDPOINTS_MATCHING_PATTERN												
patternMatcher*		<p>EntityMatchingPattern</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td>string</td> <td>Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX</td> </tr> <tr> <td>matchValue*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>shouldNot</td> <td>boolean default: false</td> <td></td> </tr> </tbody> </table>	Property Name	Type	Description	matchTo*	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean default: false	
Property Name	Type	Description												
matchTo*	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX												
matchValue*	string minLength: 1													
shouldNot	boolean default: false													

InformationPoints

Specific information points are considered for email digest.

Property Name	Type	Description						
entityType*	string	Enum INFORMATION_POINTS						
selectedInformationPoints*		<p>SelectedInformationPoints</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>informationPointScope*</td> <td>string</td> <td>Enums ALL_INFORMATION_POINTS SPECIFIC_INFORMATION_POINTS INFORMATION_POINTS_MATCHING_PATTERN</td> </tr> </tbody> </table>	Property Name	Type	Description	informationPointScope*	string	Enums ALL_INFORMATION_POINTS SPECIFIC_INFORMATION_POINTS INFORMATION_POINTS_MATCHING_PATTERN
Property Name	Type	Description						
informationPointScope*	string	Enums ALL_INFORMATION_POINTS SPECIFIC_INFORMATION_POINTS INFORMATION_POINTS_MATCHING_PATTERN						

SelectedInformationPoints

Property Name	Type	Description
informationPointScope*	string	Enums ALL_INFORMATION_POINTS SPECIFIC_INFORMATION_POINTS INFORMATION_POINTS_MATCHING_PATTERN

AllInformationPoints

Property Name	Type	Description
informationPointScope*	string	Enums ALL_INFORMATION_POINTS

SpecificInformationPoints

Property Name	Type	Description
informationPointScope*	string	Enum SPECIFIC_INFORMATION_POINTS
informationPoints*	string minItems: 1	

InformationPointsMatchingPattern

Property Name	Type	Description												
informationPointScope*	string	Enum INFORMATION_POINTS_MATCHING_PATTERN												
patternMatcher*		EntityMatchingPattern <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td>string</td> <td>Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX</td> </tr> <tr> <td>matchValue*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>shouldNot</td> <td>boolean default: false</td> <td></td> </tr> </tbody> </table>	Property Name	Type	Description	matchTo*	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean default: false	
Property Name	Type	Description												
matchTo*	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX												
matchValue*	string minLength: 1													
shouldNot	boolean default: false													

DatabasesInApplication

Specific databases associated with the application are considered for email digest.

Property Name	Type	Description						
entityType*	string	Enums DATABASES_IN_APPLICATION						
selectedApplicationDatabases*		SelectedApplicationDatabases <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>applicationDatabaseScope</td> <td>string</td> <td>Enums ALL_APPLICATION_DATABASES SPECIFIC_APPLICATION_DATABASES APPLICATION_DATABASES_MATCHING_PATTERN</td> </tr> </tbody> </table>	Property Name	Type	Description	applicationDatabaseScope	string	Enums ALL_APPLICATION_DATABASES SPECIFIC_APPLICATION_DATABASES APPLICATION_DATABASES_MATCHING_PATTERN
Property Name	Type	Description						
applicationDatabaseScope	string	Enums ALL_APPLICATION_DATABASES SPECIFIC_APPLICATION_DATABASES APPLICATION_DATABASES_MATCHING_PATTERN						

SelectedApplicationDatabases

Property Name	Type	Description
applicationDatabaseScope*	string	Enums ALL_APPLICATION_DATABASES SPECIFIC_APPLICATION_DATABASES APPLICATION_DATABASES_MATCHING_PATTERN

AllApplicationDatabases

Property Name	Type	Description
applicationDatabaseScope*	string	Enum ALL_APPLICATION_DATABASES

SpecificApplicationDatabases

Property Name	Type	Description
applicationDatabaseScope*	string	Enum SPECIFIC_APPLICATION_DATABASES
applicationDatabases*	string minItems: 1	

ApplicationDatabasesMatchingPattern

Property Name	Type	Description
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applicationDatabaseScope*	string	Enum APPLICATION_DATABASES_MATCHING_PATTERN												
patternMatcher*		EntityMatchingPattern <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td>string</td> <td>Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX</td> </tr> <tr> <td>matchValue*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>shouldNot</td> <td>boolean default: false</td> <td></td> </tr> </tbody> </table>	Property Name	Type	Description	matchTo*	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1		shouldNot	boolean default: false	
Property Name	Type	Description												
matchTo*	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX												
matchValue*	string minLength: 1													
shouldNot	boolean default: false													

ServersInApplication

Specific servers associated with the application are considered for the email digest.

Property Name	Type	Description						
entityType*	string	Enum SERVERS_IN_APPLICATION						
selectedServers*	string	ApplicationSelectedServers <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>serversScope*</td> <td>string</td> <td>Enums ALL_SERVERS_IN_APPLICATION SPECIFIC_SERVERS_IN_APPLICATION ALL_SERVERS_IN_SPECIFIC_TIERS</td> </tr> </tbody> </table>	Property Name	Type	Description	serversScope*	string	Enums ALL_SERVERS_IN_APPLICATION SPECIFIC_SERVERS_IN_APPLICATION ALL_SERVERS_IN_SPECIFIC_TIERS
Property Name	Type	Description						
serversScope*	string	Enums ALL_SERVERS_IN_APPLICATION SPECIFIC_SERVERS_IN_APPLICATION ALL_SERVERS_IN_SPECIFIC_TIERS						

ApplicationSelectedServers

Property Name	Type	Description
serversScope*	string	Enums ALL_SERVERS_IN_APPLICATION SPECIFIC_SERVERS_IN_APPLICATION ALL_SERVERS_IN_SPECIFIC_TIERS

AllServersInApplication

Property Name	Type	Description
serversScope*	string	Enum ALL_SERVERS_IN_APPLICATION

SpecificServersInApplication

Property Name	Type	Description
serversScope*	string	Enum SPECIFIC_SERVERS_IN_APPLICATION
specificServers*	string minLength: 1 minItems: 1	

AllServersInSpecificTiers

Property Name	Type	Description
serversScope*	string	Enum ALL_SERVERS_IN_SPECIFIC_TIERS
specificTiers*	string minItems: 1	

Events

Different types of events considered for an email digest.

Property Name	Type	Description
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healthRuleEvents

HealthRuleEvent

Events associated with health rules that trigger the email digest.

Property Name	Type	Description									
healthRuleEventTypes*	string minItems: 1	<p>HealthRuleEventType</p> <p>Enums</p> <p>HEALTH_RULE_CONTINUES_CRITICAL</p> <p>HEALTH_RULE_OPEN_CRITICAL</p> <p>HEALTH_RULE_OPEN_WARNING</p> <p>HEALTH_RULE_UPGRADED</p> <p>HEALTH_RULE_DOWNGRADED</p> <p>HEALTH_RULE_CONTINUES_WARNING</p> <p>HEALTH_RULE_CLOSE_WARNING</p> <p>HEALTH_RULE_CLOSE_CRITICAL</p> <p>HEALTH_RULE_CANCELED_WARNING</p> <p>HEALTH_RULE_CANCELED_CRITICAL</p>									
healthRuleScope*	string	<p>Events associated with specific health rules or all health rules that trigger the email digest.</p> <p>HealthRuleScopeType</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>healthRuleScopeType</td> <td>string</td> <td>ALL_HEALTH_RULES</td> </tr> <tr> <td></td> <td></td> <td>SPECIFIC_HEALTH_RULES</td> </tr> </tbody> </table>	Property Name	Type	Description	healthRuleScopeType	string	ALL_HEALTH_RULES			SPECIFIC_HEALTH_RULES
Property Name	Type	Description									
healthRuleScopeType	string	ALL_HEALTH_RULES									
		SPECIFIC_HEALTH_RULES									

otherEvents	string	<p>OtherEventType</p> <p>Enums</p> <p>CLR_CRASH</p> <p>APPLICATION_CRASH</p> <p>DEADLOCK</p> <p>RESOURCE_POOL_LIMIT</p> <p>APPLICATION_DEPLOYMENT</p> <p>APP_SERVER_RESTART</p> <p>APPLICATION_CONFIG_CHANGE</p> <p>AGENT_CONFIGURATION_ERROR</p> <p>APPLICATION_DISCOVERED</p> <p>TIER_DISCOVERED</p> <p>NODE_DISCOVERED</p> <p>MACHINE_DISCOVERED</p> <p>BT_DISCOVERED</p> <p>SERVICE_ENDPOINT_DISCOVERED</p> <p>BACKEND_DISCOVERED</p> <p>EUM_CLOUD_SYNTHETIC_HEALTHY_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_CONFIRMED_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_ONGOING_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_ERROR_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_CONFIRMED_ERROR_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_ONGOING_ERROR_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_HEALTHY_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_CONFIRMED_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_ONGOING_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_CRITICAL_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_CONFIRMED_CRITICAL_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_ONGOING_CRITICAL_EVENT</p> <p>MOBILE_NEW_CRASH_EVENT</p> <p>SLOW</p> <p>VERY_SLOW</p> <p>STALL</p> <p>ERROR</p>
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anomalyEvents	minItems: 1	<p>Events triggered due to anomaly detection.</p> <p>AnomalyEventType</p> <p>Enums</p> <p>ANOMALY_OPEN_WARNING</p> <p>ANOMALY_OPEN_CRITICAL</p> <p>ANOMALY_UPGRADED</p> <p>ANOMALY_DOWNGRADED</p> <p>ANOMALY_CLOSE_WARNING</p> <p>ANOMALY_CLOSE_CRITICAL</p> <p>ANOMALY_CANCELED_WARNING</p> <p>ANOMALY_CANCELED_CRITICAL</p>																		
customEvents		<p>Custom-defined events that trigger the email digest.</p> <p>CustomEvent</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>eventName*</td> <td>string</td> <td></td> </tr> <tr> <td>PropertyMatchCriteria</td> <td>string default: ANY</td> <td>Enums ANY ALL</td> </tr> <tr> <td>keyValuePairArray</td> <td></td> <td>KeyValuePair <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>Key*</td> <td>string</td> </tr> <tr> <td>Value*</td> <td>string</td> </tr> </tbody> </table> </td> </tr> </tbody> </table>	Property Name	Type	Description	eventName*	string		PropertyMatchCriteria	string default: ANY	Enums ANY ALL	keyValuePairArray		KeyValuePair <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>Key*</td> <td>string</td> </tr> <tr> <td>Value*</td> <td>string</td> </tr> </tbody> </table>	Property Name	Type	Key*	string	Value*	string
Property Name	Type	Description																		
eventName*	string																			
PropertyMatchCriteria	string default: ANY	Enums ANY ALL																		
keyValuePairArray		KeyValuePair <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>Key*</td> <td>string</td> </tr> <tr> <td>Value*</td> <td>string</td> </tr> </tbody> </table>	Property Name	Type	Key*	string	Value*	string												
Property Name	Type																			
Key*	string																			
Value*	string																			

CustomEvent

Details of custom-defined event considered for an email digest.

Property Name	Type	Description						
eventName*	string							
PropertyMatchCriteria	string default: ANY	Enums ANY ALL						
keyValuePairArray		KeyValuePair <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>Key*</td> <td>string</td> </tr> <tr> <td>Value*</td> <td>string</td> </tr> </tbody> </table>	Property Name	Type	Key*	string	Value*	string
Property Name	Type							
Key*	string							
Value*	string							

HealthRuleEvent

Events associated with health rules considered for an email digest.

Property Name	Type	Description						
healthRuleEventTypes*	string minItems: 1	HealthRuleEventType Enums HEALTH_RULE_CONTINUES_CRITICAL HEALTH_RULE_OPEN_CRITICAL HEALTH_RULE_OPEN_WARNING HEALTH_RULE_UPGRADED HEALTH_RULE_DOWNGRADED HEALTH_RULE_CONTINUES_WARNING HEALTH_RULE_CLOSE_WARNING HEALTH_RULE_CLOSE_CRITICAL HEALTH_RULE_CANCELED_WARNING HEALTH_RULE_CANCELED_CRITICAL						
healthRuleScope*	string	Events associated with specific health rules or all health rules that trigger the email digest. healthRuleScopeType <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>healthRuleScopeType*</td> <td>string</td> <td> Enums ALL_HEALTH_RULES SPECIFIC_HEALTH_RULES </td> </tr> </tbody> </table>	Property Name	Type	Description	healthRuleScopeType*	string	Enums ALL_HEALTH_RULES SPECIFIC_HEALTH_RULES
Property Name	Type	Description						
healthRuleScopeType*	string	Enums ALL_HEALTH_RULES SPECIFIC_HEALTH_RULES						

HealthRuleScope

Events associated with specific health rules or all health rules considered for an email digest.

Property Name	Type	Description
healthRuleScopeType*	string	Enums ALL_HEALTH_RULES SPECIFIC_HEALTH_RULES

AllHealthRules

Events associated with all health rules within an application considered for an email digest.

Property Name	Type	Description
healthRuleScopeType*	string	Enum ALL_HEALTH_RULES

SpecificHealthRules

Events associated with specific health rules within an application considered for an email digest.

Property Name	Type	Description
healthRuleScopeType*	string	Enum SPECIFIC_HEALTH_RULES
healthRules*	string minItems: 1	

HealthRuleEventTypes

Property Name	Type	Description
healthRuleEventTypes*	string	Enums HEALTH_RULE_CONTINUES_CRITICAL HEALTH_RULE_OPEN_CRITICAL HEALTH_RULE_OPEN_WARNING HEALTH_RULE_UPGRADED HEALTH_RULE_DOWNGRADED HEALTH_RULE_CONTINUES_WARNING HEALTH_RULE_CLOSE_WARNING HEALTH_RULE_CLOSE_CRITICAL HEALTH_RULE_CANCELED_WARNING HEALTH_RULE_CANCELED_CRITICAL

OtherEvents

Property Name	Type	Description
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otherEvents	<p>string</p> <p>OtherEventType</p> <p>Enums</p> <p>CLR_CRASH</p> <p>APPLICATION_CRASH</p> <p>DEADLOCK</p> <p>RESOURCE_POOL_LIMIT</p> <p>APPLICATION_DEPLOYMENT</p> <p>APP_SERVER_RESTART</p> <p>APPLICATION_CONFIG_CHANGE</p> <p>AGENT_CONFIGURATION_ERROR</p> <p>APPLICATION_DISCOVERED</p> <p>TIER_DISCOVERED</p> <p>NODE_DISCOVERED</p> <p>MACHINE_DISCOVERED</p> <p>BT_DISCOVERED</p> <p>SERVICE_ENDPOINT_DISCOVERED</p> <p>BACKEND_DISCOVERED</p> <p>EUM_CLOUD_SYNTHETIC_HEALTHY_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_CONFIRMED_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_ONGOING_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_ERROR_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_CONFIRMED_ERROR_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_ONGOING_ERROR_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_HEALTHY_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_CONFIRMED_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_ONGOING_WARNING_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_CRITICAL_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_CONFIRMED_CRITICAL_EVENT</p> <p>EUM_CLOUD_SYNTHETIC_PERF_ONGOING_CRITICAL_EVENT</p> <p>MOBILE_NEW_CRASH_EVENT</p> <p>SLOW</p> <p>VERY_SLOW</p> <p>STALL</p> <p>ERROR</p>
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AnomalyEvents

Events generated due to anomaly detection considered for an email digest.

Property Name	Type	Description
anomalyEvents	string minItems: 1	AnomalyEventType Enums ANOMALY_OPEN_WARNING ANOMALY_OPEN_CRITICAL ANOMALY_UPGRADED ANOMALY_DOWNGRADED ANOMALY_CLOSE_WARNING ANOMALY_CLOSE_CRITICAL ANOMALY_CANCELED_WARNING ANOMALY_CANCELED_CRITICAL

Action

A list of actions that are taken in response to an event.

Property Name	Type	Description
actionName*	string	
actionType*	string	ActionType Enums SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSTIC_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA

SimpleActionType

A simple action that is taken when the policy is triggered.

Property Name	Type	Description
actionName*	string	

actionType*	string	ActionType Enums SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSTIC_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA
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EmailActionType

An email is sent when the policy is triggered.

Property Name	Type	Description
actionName*	string	
actionType*	string	ActionType Enums SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSTIC_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA
notes	string	

ActionOnSpecifiedEntities

A simple action that is taken for specific entities when the policy is triggered.

Property Name	Type	Description
actionName*	string	

actionType*	string	<p>ActionType</p> <p>Enums</p> <p>SMS</p> <p>EMAIL</p> <p>CUSTOM_EMAIL</p> <p>THREAD_DUMP</p> <p>HTTP_REQUEST</p> <p>CUSTOM</p> <p>RUN_SCRIPT_ON_NODES</p> <p>DIAGNOSTIC_BUSINESS_TRANSACTIONS</p> <p>CREATE_UPDATE_JIRA</p>						
specifiedEntityActionDetails*	string	<p>SpecifiedEntityActionDetails</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>specifiedEntityActionScope</td> <td>string</td> <td> <p>SpecifiedEntityActionScope</p> <p>Enums</p> <p>PERCENTAGE</p> <p>ABSOLUTE</p> <p>SPECIFIC_NODES</p> </td> </tr> </tbody> </table>	Property Name	Type	Description	specifiedEntityActionScope	string	<p>SpecifiedEntityActionScope</p> <p>Enums</p> <p>PERCENTAGE</p> <p>ABSOLUTE</p> <p>SPECIFIC_NODES</p>
Property Name	Type	Description						
specifiedEntityActionScope	string	<p>SpecifiedEntityActionScope</p> <p>Enums</p> <p>PERCENTAGE</p> <p>ABSOLUTE</p> <p>SPECIFIC_NODES</p>						

SpecifiedEntityActionDetails

Property Name	Type	Description
specifiedEntityActionScope	string	<p>SpecifiedEntityActionScope</p> <p>Enums</p> <p>PERCENTAGE</p> <p>ABSOLUTE</p> <p>SPECIFIC_NODES</p>

ActionOnPercentageEntities

The scope of entities on which the action is performed is set to `percentage`.

Property Name	Type	Description
specifiedEntityActionScope	string	<p>SpecifiedEntityActionScope</p> <p>Enum</p> <p>PERCENTAGE</p>

value*	integer	
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ActionOnAbsoluteEntities

The scope of entities on which the action is performed is set to `absolute`.

Property Name	Type	Description
specifiedEntityActionScope	string	SpecifiedEntityActionScope Enum ABSOLUTE
value*	integer	

ActionOnSpecificNodes

A list of nodes on which the action is performed.

Property Name	Type	Description
specifiedEntityActionScope	string	SpecifiedEntityActionScope Enum SPECIFIC_NODES
nodes*	string minItems: 1	

EmailDigestSummaryArray

Property Name	Type
id*	integer
name*	string minLength: 1
enabled*	boolean

KeyValuePair

Property Name	Type
key*	string
value*	string

EmailDigestSummary

Property Name	Type
id*	integer

name*	string minLength: 1
enabled*	boolean

EmailDigestConfiguration

Property Name	Type
enabled*	boolean
EmailDigestName	string
frequency	integer minimum: 1 maximum: 168

EntityMatchingPattern

Entities that match the specified pattern.

Property Name	Type	Description
matchTo*	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX
matchValue*	string minLength: 1	
shouldNot	boolean default: false	

Enums

PropertyMatchCriteria

Property Name	Type	Description
propertyMatchCriteria	string default: ANY	Enums ANY ALL

EntityMatchingPatternEnum

Property Name	Type	Description
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EntityMatchingPatternEnum	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX
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PageScopeEnum

Property Name	Type	Description
PageScopeEnum	string	Enums ALL_PAGES SPECIFIC_PAGES PAGES_MATCHING_PATTERN

VirtualPageScopeEnum

Property Name	Type	Description
PageScopeEnum	string	Enums ALL_VIRTUAL_PAGES SPECIFIC_VIRTUAL_PAGES VIRTUAL_PAGES_MATCHING_PATTERN

AjaxRequestScopeEnum

Property Name	Type	Description
AjaxRequestScopeEnum	string	Enums ALL_AJAX_REQUESTS SPECIFIC_AJAX_REQUESTS AJAX_REQUESTS_MATCHING_PATTERN

AjaxRequestScopeEnum

Property Name	Type	Description
AjaxRequestScopeEnum	string	Enums ALL_AJAX_REQUESTS SPECIFIC_AJAX_REQUESTS AJAX_REQUESTS_MATCHING_PATTERN

SyntheticJobScopeEnum

Property Name	Type	Description
SyntheticJobScopeEnum	string	Enums ALL_SYNTHETIC_JOBS SPECIFIC_SYNTHETIC_JOBS SYNTHETIC_JOBS_MATCHING_PATTERN

IFrameScopeEnum

Property Name	Type	Description
IFrameScopeEnum	string	Enums ALL_IFRAMES SPECIFIC_IFRAMES IFRAMES_MATCHING_PATTERN

BusinessTransactionScopeEnum

Property Name	Type	Description
businessTransactionScope	string	Enums ALL_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS BUSINESS_TRANSACTIONS_MATCHING_PATTERN

MobileAppsScopeEnum

Property Name	Type	Description
MobileAppsScopeEnum	string	Enums ALL_MOBILE_APPS SPECIFIC_MOBILE_APPS MOBILE_APPS_MATCHING_PATTERN

MobileNetworkRequestsScopeEnum

Property Name	Type	Description
MobileAppsScopeEnum	string	Enums ALL_MOBILE_NETWORK_REQUESTS SPECIFIC_MOBILE_NETWORK_REQUESTS SPECIFIC_MOBILE_APPS_NETWORK_REQUESTS MOBILE_NETWORK_REQUESTS_MATCHING_PATTERN

TierOrNodeScopeEnum

Property Name	Type	Description
TierOrNodeScope	string	Enums TIER_SELECTED_ENTITIES NODE_SELECTED_ENTITIES

SelectedTierScopeEnum

Property Name	Type	Description
SelectedTierScope	string	Enums ALL_TIERS SPECIFIC_TIER

TypeOfNodeEnum

Property Name	Type	Description
typeofNode	string	Enums ALL_NODES JAVA_NODES DOT_NET_NODES PHP_NODES

SelectedNodesScopeEnum

Property Name	Type	Description
selectedNodeScope	string	Enums ALL_NODES SPECIFIC_NODES NODES_OF_SPECIFIC_TIERS NODES_MATCHING_PATTERN NODE_PROPERTY_VARIABLE_MATCHER

NodePropertyTypeEnum

Property Name	Type	Description
NodePropertyTypeEnum	string	Enums META ENV JVM

ErrorScopeEnum

Property Name	Type	Description
ErrorScopeEnum	string	Enums ALL_ERRORS SPECIFIC_ERRORS ERRORS_OF_SPECIFIC_TIERS ERRORS_MATCHING_PATTERN

ServiceEndpointScopeEnum

Property Name	Type	Description
ServiceEndpointScopeEnum	string	Enums ALL_SERVICE_ENDPOINTS SPECIFIC_SERVICE_ENDPOINTS SERVICE_ENDPOINTS_IN_SPECIFIC_TIERS SERVICE_ENDPOINTS_MATCHING_PATTERN

InformationPointScopeEnum

Property Name	Type	Description
InformationPointScopeEnum	string	ALL_INFORMATION_POINTS SPECIFIC_INFORMATION_POINTS INFORMATION_POINTS_MATCHING_PATTERN

DatabaseTypeEnum

Property Name	Type	Description
DatabaseTypeEnum	string	ALL_DATABASE_TYPES COUCHBASE DB2 MONGO_DB MICROSOFT_SQL_SERVER MYSQL ORACLE POSTGRE_SQL AZURE_SQL SYBASE

ApplicationDatabaseScopeEnum

Property Name	Type	Description
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ApplicationDatabaseScopeEnum	string	ALL_APPLICATION_DATABASES SPECIFIC_APPLICATION_DATABASES APPLICATION_DATABASES_MATCHING_PATTERN
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ServersScopeEnum

Property Name	Type	Description
ServersScopeEnum	string	ALL_SERVERS_IN_APPLICATION SPECIFIC_SERVERS_IN_APPLICATION ALL_SERVERS_IN_SPECIFIC_TIERS

SpecifiedEntityActionScopeEnum

Property Name	Type	Description
SpecifiedEntityActionScopeEnum	string	PERCENTAGE ABSOLUTE SPECIFIC_NODES

AnomalyEventType

Property Name	Type	Description
AnomalyEventType	string	Enums ANOMALY_OPEN_WARNING ANOMALY_OPEN_CRITICAL ANOMALY_UPGRADED ANOMALY_DOWNGRADED ANOMALY_CLOSE_WARNING ANOMALY_CLOSE_CRITICAL ANOMALY_CANCELED_WARNING ANOMALY_CANCELED_CRITICAL

HealthRuleEventTypeEnum

Property Name	Type	Description
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HealthRuleEventTypeEnum	string	Enums HEALTH_RULE_CONTINUES_CRITICAL HEALTH_RULE_OPEN_CRITICAL HEALTH_RULE_OPEN_WARNING HEALTH_RULE_UPGRADED HEALTH_RULE_DOWNGRADED HEALTH_RULE_CONTINUES_WARNING HEALTH_RULE_CLOSE_WARNING HEALTH_RULE_CLOSE_CRITICAL HEALTH_RULE_CANCELED_WARNING HEALTH_RULE_CANCELED_CRITICAL
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HealthRuleScopeType

Property Name	Type	Description
HealthRuleScopeType	string	ALL_HEALTH_RULES SPECIFIC_HEALTH_RULES

OtherEventType

Property Name	Type	Description
---------------	------	-------------

OtherEventType	string	Enums CLR_CRASH APPLICATION_CRASH DEADLOCK RESOURCE_POOL_LIMIT APPLICATION_DEPLOYMENT APP_SERVER_RESTART APPLICATION_CONFIG_CHANGE AGENT_CONFIGURATION_ERROR APPLICATION_DISCOVERED TIER_DISCOVERED NODE_DISCOVERED MACHINE_DISCOVERED BT_DISCOVERED SERVICE_ENDPOINT_DISCOVERED BACKEND_DISCOVERED EUM_CLOUD_SYNTHETIC_HEALTHY_EVENT EUM_CLOUD_SYNTHETIC_WARNING_EVENT EUM_CLOUD_SYNTHETIC_CONFIRMED_WARNING_EVENT EUM_CLOUD_SYNTHETIC_ONGOING_WARNING_EVENT EUM_CLOUD_SYNTHETIC_ERROR_EVENT EUM_CLOUD_SYNTHETIC_CONFIRMED_ERROR_EVENT EUM_CLOUD_SYNTHETIC_ONGOING_ERROR_EVENT EUM_CLOUD_SYNTHETIC_PERF_HEALTHY_EVENT EUM_CLOUD_SYNTHETIC_PERF_WARNING_EVENT EUM_CLOUD_SYNTHETIC_PERF_CONFIRMED_WARNING_EVENT EUM_CLOUD_SYNTHETIC_PERF_ONGOING_WARNING_EVENT EUM_CLOUD_SYNTHETIC_PERF_CRITICAL_EVENT EUM_CLOUD_SYNTHETIC_PERF_CONFIRMED_CRITICAL_EVENT EUM_CLOUD_SYNTHETIC_PERF_ONGOING_CRITICAL_EVENT MOBILE_NEW_CRASH_EVENT, SLOW, VERY_SLOW, STALL ERROR
----------------	--------	---

SelectedEntityType

Property Name	Type	Description
SelectedEntityType	string	ANY_ENTITY SPECIFIC_ENTITIES

EntityType

Property Name	Type	Description
EntityType	string	Enums BUSINESS_TRANSACTION TIER_NODE ERRORS SERVICE_ENDPOINTS INFORMATION_POINTS DATABASES_IN_APPLICATION SERVERS_IN_APPLICATION

ActionTypeEnum

Property Name	Type	Description
ActionTypeEnum	string	SMS EMAIL CUSTOM_EMAIL THREAD_DUMP HTTP_REQUEST CUSTOM RUN_SCRIPT_ON_NODES DIAGNOSTIC_BUSINESS_TRANSACTIONS CREATE_UPDATE_JIRA

ErrorResponse

Property Name	Type
statusCode	integer
message	string

***This property is required.**

Download Examples

Download [Appdynamics Email Digest Examples.zip](#) to get a set of examples that help you configure an email digest,

Download SWAGGER YAML file

Download the Swagger [email_digests_openapi.yml](#) file.

Action Suppression API

This page describes the Action Suppression API methods you can use to temporarily suspend the automatic trigger of actions and alerts by a policy in response to an event. This API is useful when performing maintenance activities or troubleshooting a component.



Note

Syntax validation of the JSON payload is done when creating action suppression.

Create a New Action Suppression

Creates a new action suppression with the specified JSON payload. See [Property Details](#).

Resource URL

POST <controller_url>/controller/alerting/rest/v1/applications/<application_id>/action-suppressions

Request/Response Format

JSON

Example

Retrieve a List of Action Suppressions Configured for a Given Application

Returns all the action suppressions that are configured for a given application. The required fields are action suppression IDs and names. Details such as `timezone`, `startTime`, `endTime` and `recurringSchedule` of configured action suppressions are returned. See [Property Details](#).

Resource URL

GET <controller_url>/controller/alerting/rest/v1/applications/<application_id>/action-suppressions

Response Format

JSON

Example Response

```
[
  {
    "id": 11,
    "name": "TestAS1",
    "timezone": "Asia/Kolkata",
    "startTime": "2020-08-19T12:06:00",
    "endTime": "2020-08-19T13:06:00"
  }
  {
    "id": 12,
    "name": "TestAS2",
    "timezone": "Asia/Kolkata",
    "startTime": "2020-08-19T12:27:00",
    "endTime": "2020-08-19T13:27:00"
  }
  {
    "id": 13,
    "name": "TestAS3",
    "timezone": "Asia/Kolkata",
    "startTime": "2020-08-19T12:08:00",
    "endTime": "2020-08-19T13:08:00"
  }
]
```

Retrieve the Details of an Action Suppression

Returns JSON representation of action suppression for the given action suppression ID. See [Property Details](#).

Resource URL

```
GET <controller_url>/controller/alerting/rest/v1/applications/<application_id>/action-suppressions/{action-suppression-id}
```

Response Format

JSON

Example Response

```
{
  "id": 9,
  "name": "TestAS",
  "disableAgentReporting": false,
  "suppressionScheduleType": "ONE_TIME",
  "timezone": "Asia/Kolkata",
  "startTime": "2020-08-19T11:43:00",
  "endTime": "2020-08-19T12:43:00",
  "recurringSchedule": null,
  "affects": {
    "affectedInfoType": "APPLICATION"
  },
  "healthRuleScope": null
}
```

Update an Action Suppression

Updates an existing action suppression with a specified JSON payload. See [Property Details](#).

Resource URL

PUT <controller_url>/controller/alerting/rest/v1/applications/<application_id>/action-suppressions/{action-suppression-id}

Request/Response Format

JSON

Example

Delete an Action Suppression

Deletes an action suppression with the specified ID. See [Property Details](#).

Resource URL

DELETE <controller_url>/controller/alerting/rest/v1/applications/<application_id>/action-suppressions/{action-suppression-id}

Retrieve the Details of an Action Suppression by Name

Returns JSON representation of action suppression for the given action suppression name. See [Property Details](#).

Resource URL

GET <controller_url>/controller/alerting/rest/v1/applications/<application_id>/action-suppressions/action-suppression-by-name/?name=<ActionSuppressionName>



Replace <ActionSuppressionName> with a name you specified for the action suppression. For example, ACTION_SUP_15.

Response Format

JSON

Example Response

```
{
  "id": 9,
  "name": "TestAS1",
  "timezone": "Asia/Kolkata",
  "startTime": "2020-08-19T12:05:00",
  "endTime": "2020-08-19T13:05:00",
  "recurringSchedule": null
}
```

Response Codes


Code	Description
200	Fetches successfully
201	Created successfully

204	Deleted successfully
400	Bad request
401	Unauthorized
403	Forbidden
404	Resource not found
409	Already exists

Property Details

Action Suppression

Payload details for action suppression.

Property Name	Type	Description and Valid Values
id	integer	This is auto-generated by the system and returned in the response. It is a readOnly value.
name *	string minLength: 1 maxLength: 100	The name of action suppression.
disableAgentReporting	boolean default: false	If enabled, the agents defined in the scope do not report any metric data during the specified time frame.
<div style="border: 1px solid #ccc; padding: 5px; border-radius: 5px;">  You cannot define a recurring action suppression if you set <code>disableAgentReporting</code> to <code>true</code>. </div>		
suppressionScheduleType	string default: ONE_TIME	The available scheduling options for action suppression. Enums ONE_TIME RECURRING
timezone	string	The timezone ID. The default time zone is the controller timezone.
startTime	string format: yyyy-MM-ddTHH:mm:ss	The time at which the action suppression is initiated. Specify <code>startTime</code> only if <code>suppressionScheduleType</code> is set to <code>ONE_TIME</code> . If you do not specify the <code>startTime</code> , action suppression starts from the current time. The expected format is <code>yyyy-MM-ddTHH:mm:ss</code> conforming to <code>rfc3339</code> .
endTime	string format: yyyy-MM-ddTHH:mm:ss	The time at which the ongoing action suppression ends. Specify <code>startTime</code> only if <code>suppressionScheduleType</code> is set to <code>ONE_TIME</code> . If not specified, action suppression ends at 60 minutes from the current time. The expected format is <code>yyyy-MM-ddTHH:mm:ss</code> conforming to <code>rfc3339</code> .

recurringSchedule	string	<p>The recurring schedule details to initiate an action suppression.</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>scheduleFrequency*</td> <td>string</td> <td> <p>The frequency of invoking action suppression.</p> <p>Enums</p> <p>DAILY</p> <p>WEEKLY</p> <p>MONTHLY_SPECIFIC_DATE</p> <p>MONTHLY_SPECIFIC_DAY</p> </td> </tr> </tbody> </table>	Property Name	Type	Description	scheduleFrequency*	string	<p>The frequency of invoking action suppression.</p> <p>Enums</p> <p>DAILY</p> <p>WEEKLY</p> <p>MONTHLY_SPECIFIC_DATE</p> <p>MONTHLY_SPECIFIC_DAY</p>
Property Name	Type	Description						
scheduleFrequency*	string	<p>The frequency of invoking action suppression.</p> <p>Enums</p> <p>DAILY</p> <p>WEEKLY</p> <p>MONTHLY_SPECIFIC_DATE</p> <p>MONTHLY_SPECIFIC_DAY</p>						
affects*		<p>Describes entities affected by action suppression. For example, applications, business transactions, servers, or databases.</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>affectedInfoType*</td> <td>string</td> <td> <p>The affected entity type.</p> <p>Enums</p> <p>APPLICATION</p> <p>BUSINESS_TRANSACTIONS</p> <p>TIERS_NODES</p> <p>SERVERS</p> <p>DATABASES</p> </td> </tr> </tbody> </table>	Property Name	Type	Description	affectedInfoType*	string	<p>The affected entity type.</p> <p>Enums</p> <p>APPLICATION</p> <p>BUSINESS_TRANSACTIONS</p> <p>TIERS_NODES</p> <p>SERVERS</p> <p>DATABASES</p>
Property Name	Type	Description						
affectedInfoType*	string	<p>The affected entity type.</p> <p>Enums</p> <p>APPLICATION</p> <p>BUSINESS_TRANSACTIONS</p> <p>TIERS_NODES</p> <p>SERVERS</p> <p>DATABASES</p>						
healthRuleScope*		<p>The scope of the health rules applicable to action suppression.</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>healthRuleScopeType*</td> <td>string</td> <td> <p>The health rule types affected by action suppression.</p> <p>Enums</p> <p>SPECIFIC_HEALTH_RULES</p> </td> </tr> </tbody> </table>	Property Name	Type	Description	healthRuleScopeType*	string	<p>The health rule types affected by action suppression.</p> <p>Enums</p> <p>SPECIFIC_HEALTH_RULES</p>
Property Name	Type	Description						
healthRuleScopeType*	string	<p>The health rule types affected by action suppression.</p> <p>Enums</p> <p>SPECIFIC_HEALTH_RULES</p>						

Action Suppression Schedule Type

Use this property to schedule a one-time or recurring action suppression.

Property Name	Type	Description
ActionSuppressionScheduleType	string	<p>Enums</p> <p>ONE_TIME</p> <p>RECURRING</p>

Example for one-time action suppression

```
{
  "name": "Action Suppression With One Time Schedule",
  "disableAgentReporting": false,
  "suppressionScheduleType": "ONE_TIME",
  "timezone": "Asia/Kolkata",
  "startTime": "2020-06-18T13:33:37",
  "endTime": "2021-06-30T16:48:37",
  "recurringSchedule": null,
  "affects": {
    "affectedInfoType": "APPLICATION"
  },
  "healthRuleScope": null
}
```

Recurring Schedule Frequency Details

Use this property to define the frequency of invoking action suppression on a recurring basis.

Property Name	Type	Description
scheduleFrequency*	string	Describes how often action suppression is invoked. Enums DAILY WEEKLY MONTHLY_SPECIFIC_DATE MONTHLY_SPECIFIC_DAY

Example for recurring action suppression scheduled on a daily basis

```
{
  "name": "Action Suppression With Daily Schedule",
  "disableAgentReporting": false,
  "suppressionScheduleType": "RECURRING",
  "timezone": "Asia/Kolkata",
  "startTime": null,
  "endTime": null,
  "recurringSchedule": {
    "scheduleFrequency": "DAILY",
    "startTime": "01:00",
    "endTime": "01:22"
  },
  "affects": {
    "affectedInfoType": "APPLICATION"
  },
  "healthRuleScope": null
}
```

Daily Schedule - Configuration Details

Use the following properties to configure the details of an action suppression that is scheduled on a daily basis.

Property Name	Type	Description
---------------	------	-------------

scheduleFrequency*	string	Action suppression is invoked daily. Enum DAILY
startTime*	Time string pattern: ^([01]d 2[0-3]):([0-5]d)\$	The time at which the action suppression is initiated. The time in 24 hour format.
endTime*	Time string pattern: ^([01]d 2[0-3]):([0-5]d)\$	The time at which the ongoing action suppression ends. The time in 24 hour format.

Example

```
{
  "name": "Action Suppression With Daily Schedule",
  "disableAgentReporting": false,
  "suppressionScheduleType": "RECURRING",
  "timezone": "Asia/Kolkata",
  "startTime": null,
  "endTime": null,
  "recurringSchedule": {
    "scheduleFrequency": "DAILY",
    "startTime": "01:00",
    "endTime": "01:22"
  },
  "affects": {
    "affectedInfoType": "APPLICATION"
  },
  "healthRuleScope": null
}
```

Weekly Schedule - Configuration Details

Use the following properties to configure the details of an action suppression that is scheduled on a weekly basis.

Property Name	Type	Description
scheduleFrequency*	string	Action suppression is invoked on a specific day of the week. Enum WEEKLY

days*	string minItems: 1 maxItems: 7	The day(s) of the week to suppress actions. <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>DayOfWeek</td> <td>string</td> <td>Enums SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY</td> </tr> </tbody> </table>	Property Name	Type	Description	DayOfWeek	string	Enums SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY
Property Name	Type	Description						
DayOfWeek	string	Enums SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY						
startTime*	Time string pattern: ^([01]\d 2[0-3]):([0-5]\d)\$	The time at which the action suppression is initiated. The time in 24 hour format.						
endTime*	Time string pattern: ^([01]\d 2[0-3]):([0-5]\d)\$	The time at which the ongoing action suppression ends. The time in 24 hour format.						
Example <pre>{ "name": "Action Suppression With Weekly Schedule", "disableAgentReporting": false, "suppressionScheduleType": "RECURRING", "timezone": "Asia/Kolkata", "startTime": null, "endTime": null, "recurringSchedule": { "scheduleFrequency": "WEEKLY", "startTime": "06:00", "endTime": "18:00", "days": ["SUNDAY", "MONDAY"] }, "affects": { "affectedInfoType": "APPLICATION" }, "healthRuleScope": null }</pre>								

Monthly Schedule, Specific Date - Configuration Details

Use the following properties to configure the details of an action suppression that is scheduled on a monthly basis, on a specific date.

Property Name	Type	Description
scheduleFrequency*	string	Action suppression is invoked on a specific date every month. Enum MONTHLY_SPECIFIC_DATE
startDate*	string pattern: ^(0[1-9] [12][0-9] 3[01])\$ ^Last Day\$	The start date of the month to suppress actions.

startTime*	Time string pattern: ^([01]\d 2[0-3]):([0-5]\d)\$	The time at which action suppression is initiated. The time in 24 hour format.
endDate*	string pattern: ^(0[1-9] [12][0-9] 3[01])\$ ^Last Day\$	The end date of the month to suppress actions.
endTime*	Time string pattern: ^([01]\d 2[0-3]):([0-5]\d)\$	The time at which the ongoing action suppression ends. The time in 24 hour format.

Example

```
{
  "name": "Action Suppression With Monthly Specific Date Schedule",
  "disableAgentReporting": false,
  "suppressionScheduleType": "RECURRING",
  "timezone": "Asia/Kolkata",
  "startTime": null,
  "endTime": null,
  "recurringSchedule": {
    "scheduleFrequency": "MONTHLY_SPECIFIC_DATE",
    "startDate": "01",
    "startTime": "06:00",
    "endDate": "Last Day",
    "endTime": "18:00"
  },
  "affects": {
    "affectedInfoType": "APPLICATION"
  },
  "healthRuleScope": null
}
```

Monthly Schedule, Specific Day - Configuration Details

Use the following properties to configure the details of an action suppression that is scheduled on a monthly basis, on a specific date.

Property Name	Type	Description
scheduleFrequency*	string	Action suppression is invoked on a specific day of the month. Enum MONTHLY_SPECIFIC_DAY
startTime*	Time string pattern: ^([01]\d 2[0-3]):([0-5]\d)\$	The time at which action suppression is initiated. The time in 24 hour format.
endTime*	Time string pattern: ^([01]\d 2[0-3]):([0-5]\d)\$	The time at which the ongoing action suppression ends. The time in 24 hour format.

days*	string	<p>The day of the month to suppress actions.</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>DayOfWeek</td> <td>string</td> <td> Enums SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY </td> </tr> </tbody> </table>	Property Name	Type	Description	DayOfWeek	string	Enums SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY
Property Name	Type	Description						
DayOfWeek	string	Enums SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY						
occurrence*	string	Enums FIRST SECOND THIRD FOURTH LAST						
<p>Example</p> <pre> { "name": "Action Suppression With Monthly Specific Day Schedule", "disableAgentReporting": false, "suppressionScheduleType": "RECURRING", "timezone": "Asia/Kolkata", "startTime": null, "endTime": null, "recurringSchedule": { "scheduleFrequency": "MONTHLY_SPECIFIC_DAY", "startTime": "06:00", "endTime": "18:00", "day": "SUNDAY", "occurrence": "FIRST" }, "affects": { "affectedInfoType": "APPLICATION" }, "healthRuleScope": null } </pre>								

Schedule Frequency Details

Use this property to define the frequency of invoking an action suppression.

Property Name	Type	Description
---------------	------	-------------

scheduleFrequency*	string	<p>Enums</p> <p>DAILY</p> <p>WEEKLY</p> <p>MONTHLY_SPECIFIC_DATE</p> <p>MONTHLY_SPECIFIC_DAY</p>
<p>Example</p> <pre>{ "recurringSchedule": { "scheduleFrequency": "WEEKLY", "startTime": "06:00", "endTime": "18:00", "days": ["SUNDAY", "MONDAY"] } }</pre>		

Occurrence Details

The occurrence of the day of the month to suppress actions.

Property Name	Type	Description
occurrence	string	<p>Enums</p> <p>FIRST</p> <p>SECOND</p> <p>THIRD</p> <p>FOURTH</p> <p>LAST</p>
<p>Example</p> <pre>{ "recurringSchedule": { "scheduleFrequency": "MONTHLY_SPECIFIC_DAY", "startTime": "06:00", "endTime": "18:00", "day": "SUNDAY", "occurrence": "FIRST" } }</pre>		

Monthly Action Suppression - Day

The day of the month to suppress actions.

Property Name	Type	Description
---------------	------	-------------

DayOfWeek	string	Enums SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY
Example <pre> { "recurringSchedule": { "scheduleFrequency": "MONTHLY_SPECIFIC_DAY", "startTime": "06:00", "endTime": "18:00", "day": "SUNDAY", "occurrence": "FIRST" } } </pre>		

Action Suppression Time Details

Use this property to define the time details to suppress an action.

Property Name	Type	Description
Time	string pattern: ^([01]\d 2[0-3]):([0-5]\d)\$	The time in 24 hour format.
Example <pre> { "recurringSchedule": { "scheduleFrequency": "MONTHLY_SPECIFIC_DATE", "startDate": "01", "startTime": "06:00", "endDate": "Last Day", "endTime": "18:00" } } </pre>		

Timezone

Property Name	Type	Description
Timezone	string	Timezone Id. The default time zone is the controller timezone.

Example

```

{
  "name": "Action Suppression With One Time Schedule",
  "disableAgentReporting": false,
  "suppressionScheduleType": "ONE_TIME",
  "timezone": "Asia/Kolkata",
  "startTime": "2020-06-18T13:33:37",
  "endTime": "2021-06-30T16:48:37",
  "recurringSchedule": null,
  "affects": {
    "affectedInfoType": "APPLICATION"
  },
  "healthRuleScope": null
}

```

Entities Affected by Action Suppression

Information pertaining to entities affected by action suppression.

Property Name	Type	Description and Valid Values
affectedInfoType*	string	Enums APPLICATION BUSINESS_TRANSACTIONS TIERS_NODES SERVERS DATABASES

Example

```

{
  "affectedInfoType": "TIERS_NODES",
  "affectedEntities": {
    "tierNodeType": "NODE",
    "nodeType": "ALL_NODES",
    "affectedNodes": {
      "affectedNodeScope": "NODES_OF_SPECIFIC_TIERS",
      "specificTiers": ["Tier1"]
    }
  }
}

```

Application-level Entities Affected by Action Suppression

Use to suppress actions for entities at the application-level.

Property Name	Type	Description and Valid Values
affectedInfoType*	string	Enum APPLICATION

Example

```
{
  "affectedInfoType": "APPLICATION"
}
```

Business Transactions Affected by Action Suppression

Use this to suppress actions for entities at the business transaction (BT) level.

Property Name	Type	Description and Valid Values						
affectedInfoType*	string	Enum BUSINESS_TRANSACTIONS						
affectedBusinessTransactions*		The scope of the business transactions affected by action suppression. <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description and Valid Values</th> </tr> </thead> <tbody> <tr> <td>businessTransactionScope*</td> <td>string</td> <td> Enums ALL_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS BUSINESS_TRANSACTIONS_MATCHING_PATTERN </td> </tr> </tbody> </table>	Property Name	Type	Description and Valid Values	businessTransactionScope*	string	Enums ALL_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS BUSINESS_TRANSACTIONS_MATCHING_PATTERN
Property Name	Type	Description and Valid Values						
businessTransactionScope*	string	Enums ALL_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS BUSINESS_TRANSACTIONS_MATCHING_PATTERN						

Example

```
{
  "affectedInfoType": "BUSINESS_TRANSACTIONS",
  "affectedBusinessTransactions": {
    "businessTransactionScope": "BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS",
    "specificTiers": [ "DefaultTier1" ]
  }
}
```

Scope of Business Transactions Affected

Use this to suppress actions for entities at the BT level for the selected BT types.

Property Name	Type	Description and Valid Values
businessTransactionScope*	string	Enums ALL_BUSINESS_TRANSACTIONS SPECIFIC_BUSINESS_TRANSACTIONS BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS BUSINESS_TRANSACTIONS_MATCHING_PATTERN

All Types of Business Transactions

Use this to suppress actions for entities at the BT level for all BTs.

Property Name	Type	Description and Valid Values
businessTransactionScope*	string	Enum ALL_BUSINESS_TRANSACTIONS
Example		
<pre>{ "affectedInfoType": "BUSINESS_TRANSACTIONS", "affectedBusinessTransactions": { "businessTransactionScope": "ALL_BUSINESS_TRANSACTIONS" } }</pre>		

Specific Business Transactions

Use this to suppress actions for entities at the BT level for the specific BTs only.

Property Name	Type	Description and Valid Values
businessTransactionScope*	string	Enum SPECIFIC_BUSINESS_TRANSACTIONS
businessTransactions*	array of strings minItems: 1	Specific business transactions affected by action suppression. For example: [CheckoutBt, LoginBt]
Example		
<pre>{ "affectedInfoType": "BUSINESS_TRANSACTIONS", "affectedBusinessTransactions": { "businessTransactionScope": "SPECIFIC_BUSINESS_TRANSACTIONS", "businessTransactions": ["/BT/", "/BT/rest"] } }</pre>		

Business Transactions Associated with Specific Tiers

Use this to suppress actions for entities at the BT level for BTs within specific tiers only.

Property Name	Type	Description and Valid Values
businessTransactionScope*	string	Enum BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS
specificTiers*	array of strings minItems: 1	Business transactions associated with specific tiers affected by action suppression. For example: [CheckoutTier, LoginTier]

Example

```

{
  "affectedInfoType": "BUSINESS_TRANSACTIONS",
  "affectedBusinessTransactions": {
    "businessTransactionScope": "BUSINESS_TRANSACTIONS_IN_SPECIFIC_TIERS",
    "specificTiers": ["DefaultTier1"]
  }
}

```

Business Transactions Matching a Pattern

Use this to suppress actions for entities at the BT level for BTs with properties that match a given pattern.

Property Name	Type	Description and Valid Values												
businessTransactionScope*	string	Enums BUSINESS_TRANSACTIONS_MATCHING_PATTERN												
patternMatcher*		EntityMatchingPattern <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description and Valid Values</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td>string</td> <td> Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX </td> </tr> <tr> <td>matchValue*</td> <td>string minLength: 1</td> <td>The pattern match value.</td> </tr> <tr> <td>shouldNot</td> <td>boolean default: false</td> <td>Select this to reverse the pattern match condition.</td> </tr> </tbody> </table>	Property Name	Type	Description and Valid Values	matchTo*	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1	The pattern match value.	shouldNot	boolean default: false	Select this to reverse the pattern match condition.
Property Name	Type	Description and Valid Values												
matchTo*	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX												
matchValue*	string minLength: 1	The pattern match value.												
shouldNot	boolean default: false	Select this to reverse the pattern match condition.												

Example

```

{
  "affectedInfoType": "BUSINESS_TRANSACTIONS",
  "affectedBusinessTransactions": {
    "businessTransactionScope": "BUSINESS_TRANSACTIONS_MATCHING_PATTERN",
    "patternMatcher": {
      "matchTo": "STARTS_WITH",
      "matchValue": "E",
      "shouldNot": false
    }
  }
}

```

Tiers/Nodes Entities Affected

Use this to suppress actions for entities at the Tier/Node level.

Property Name	Type	Description and Valid Values						
affectedInfoType*	string	Enum TIERS_NODES						
affectedEntities*		TierNodeEntities <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description and Valid Values</th> </tr> </thead> <tbody> <tr> <td>tierNodeType*</td> <td>string</td> <td> Enums TIER NODE </td> </tr> </tbody> </table>	Property Name	Type	Description and Valid Values	tierNodeType*	string	Enums TIER NODE
Property Name	Type	Description and Valid Values						
tierNodeType*	string	Enums TIER NODE						

Example

```

{
  "affectedInfoType": "TIERS_NODES",
  "affectedEntities": {
    "tierNodeType": "NODE",
    "nodeType": "ALL_NODES",
    "affectedNodes": {
      "affectedNodeScope": "NODES_OF_SPECIFIC_TIERS",
      "specificTiers": ["Tier1"]
    }
  }
}

```

Tier or Node Entities Affected

Use this to suppress actions for entities at the tier level or node level.

Property Name	Type	Description and Valid Values
tierNodeType*	string	Enums TIER NODE

Tier-level Entities Affected

Property Name	Type	Description and Valid Values
tierNodeType*	string	Enum TIER

affectedTiers*		<p>AffectedTiers</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description and Valid Values</th> </tr> </thead> <tbody> <tr> <td>affectedTierScope*</td> <td>string</td> <td> <p>Enums</p> <p>ALL_TIERS</p> <p>SPECIFIC_TIERS</p> </td> </tr> </tbody> </table>	Property Name	Type	Description and Valid Values	affectedTierScope*	string	<p>Enums</p> <p>ALL_TIERS</p> <p>SPECIFIC_TIERS</p>
Property Name	Type	Description and Valid Values						
affectedTierScope*	string	<p>Enums</p> <p>ALL_TIERS</p> <p>SPECIFIC_TIERS</p>						
<p>Example</p> <pre> { "affectedInfoType": "TIERS_NODES", "affectedEntities": { "tierNodeType": "TIER", "affectedTiers": { "affectedTierScope": "SPECIFIC_TIERS", "tiers": ["ECommerce-Services", "Inventory-Services"] } } } </pre>								

Node-level Entities Affected

Property Name	Type	Description and Valid Values						
tierNodeType*	string	<p>Enum</p> <p>NODE</p>						
nodeType*	string	<p>Enums</p> <p>ALL_NODES</p> <p>JAVA_NODES</p> <p>DOT_NET_NODES</p> <p>PHP_NODES</p>						
affectedNodes*		<p>AffectedNodes</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description and Valid Values</th> </tr> </thead> <tbody> <tr> <td>affectedNodeScope*</td> <td>string</td> <td> <p>Enums</p> <p>ALL_NODES</p> <p>SPECIFIC_NODES</p> <p>NODES_OF_SPECIFIC_TIERS</p> <p>NODES_MATCHING_PATTERN</p> <p>NODE_PROPERTY_VARIABLE_MATCHER</p> </td> </tr> </tbody> </table>	Property Name	Type	Description and Valid Values	affectedNodeScope*	string	<p>Enums</p> <p>ALL_NODES</p> <p>SPECIFIC_NODES</p> <p>NODES_OF_SPECIFIC_TIERS</p> <p>NODES_MATCHING_PATTERN</p> <p>NODE_PROPERTY_VARIABLE_MATCHER</p>
Property Name	Type	Description and Valid Values						
affectedNodeScope*	string	<p>Enums</p> <p>ALL_NODES</p> <p>SPECIFIC_NODES</p> <p>NODES_OF_SPECIFIC_TIERS</p> <p>NODES_MATCHING_PATTERN</p> <p>NODE_PROPERTY_VARIABLE_MATCHER</p>						

Example

```

{
  "affectedInfoType": "TIERS_NODES",
  "affectedEntities": {
    "tierNodeType": "NODE",
    "nodeType": "ALL_NODES",
    "affectedNodes": {
      "affectedNodeScope": "NODES_OF_SPECIFIC_TIERS",
      "specificTiers": ["Tier1"]
    }
  }
}

```

Affected Tier Scope

Property Name	Type	Description and Valid Values
affectedTierScope*	string	Enums ALL_TIERS SPECIFIC_TIERS

All Tiers

Use this to suppress actions for entities at the tier level for all tiers.

Property Name	Type	Description and Valid Values
affectedTierScope*	string	Enum ALL_TIERS

Example

```

{
  "affectedInfoType": "TIERS_NODES",
  "affectedEntities": {
    "tierNodeType": "TIER",
    "affectedTiers": {
      "affectedTierScope": "ALL_TIERS"
    }
  }
}

```

Specific Tiers

Use this to suppress actions for entities at the tier level for specific tiers only.

Property Name	Type	Description and Valid Values
affectedTierScope*	string	Enum SPECIFIC_TIERS

tiers*	array of strings minItems: 1	
Example		
<pre> { "affectedInfoType": "TIERS_NODES", "affectedEntities": { "tierNodeType": "TIER", "affectedTiers": { "affectedTierScope": "SPECIFIC_TIERS", "tiers": ["ECommerce-Services", "Inventory-Services"] } } } </pre>		

Affected Nodes

Property Name	Type	Description and Valid Values
affectedNodeScope*	string	Enums ALL_NODES SPECIFIC_NODES NODES_OF_SPECIFIC_TIERS NODES_MATCHING_PATTERN NODE_PROPERTY_VARIABLE_MATCHER
Example		
<pre> { "affectedNodeScope": "NODES_OF_SPECIFIC_TIERS", "specificTiers": ["Tier1"] } </pre>		

All Nodes

Use this to suppress actions for entities at the node level for all nodes.

Property Name	Type	Description and Valid Values
affectedNodeScope*	string	Enum ALL_NODES

Example

```

{
  "affectedInfoType": "TIERS_NODES",
  "affectedEntities": {
    "tierNodeType": "NODE",
    "nodeType": "ALL_NODES",
    "affectedNodes": {
      "affectedNodeScope": "ALL_NODES"
    }
  }
}

```

Specific Nodes

Use this to suppress actions for entities at the node level for specific nodes only.

Property Name	Type	Description and Valid Values
affectedNodeScope*	string	Enum SPECIFIC_NODES
nodes*	array of strings minItems: 1	A list of nodes considered as affected entities for action suppression. For example: [Node1, Node2]

Example

```

{
  "affectedInfoType": "TIERS_NODES",
  "affectedEntities": {
    "tierNodeType": "NODE",
    "nodeType": "ALL_NODES",
    "affectedNodes": {
      "affectedNodeScope": "SPECIFIC_NODES",
      "nodes": ["Node1", "Node2"]
    }
  }
}

```

Nodes within Specific Tiers

Use this to suppress actions for entities at the node level for nodes within specific tiers only.

Property Name	Type	Description and Valid Values
affectedNodeScope*	string	Enum NODES_OF_SPECIFIC_TIERS
specificTiers*	array of strings minItems: 1	

Example

```

{
  "affectedInfoType": "TIERS_NODES",
  "affectedEntities": {
    "tierNodeType": "NODE",
    "nodeType": "ALL_NODES",
    "affectedNodes": {
      "affectedNodeScope": "NODES_OF_SPECIFIC_TIERS",
      "specificTiers": ["ECommerce-Services", "Inventory-Services"]
    }
  }
}

```

Nodes that Match a Pattern

Use this to suppress actions for entities at the node level for nodes with properties that match a pattern.

Property Name	Type	Description and Valid Values												
affectedNodeScope*	string	Enum NODES_MATCHING_PATTERN												
patternMatcher*		EntityMatchingPattern <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>matchTo*</td> <td>string</td> <td> Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX </td> </tr> <tr> <td>matchValue*</td> <td>string minLength: 1</td> <td>The pattern match value.</td> </tr> <tr> <td>shouldNot</td> <td>boolean default: false</td> <td>Select this if you want to reverse the pattern match condition.</td> </tr> </tbody> </table>	Property Name	Type	Description	matchTo*	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX	matchValue*	string minLength: 1	The pattern match value.	shouldNot	boolean default: false	Select this if you want to reverse the pattern match condition.
Property Name	Type	Description												
matchTo*	string	Enums STARTS_WITH ENDS_WITH CONTAINS EQUALS MATCH_REG_EX												
matchValue*	string minLength: 1	The pattern match value.												
shouldNot	boolean default: false	Select this if you want to reverse the pattern match condition.												

Example

```

{
  "affectedInfoType": "TIERS_NODES",
  "affectedEntities": {
    "tierNodeType": "NODE",
    "nodeType": "ALL_NODES",
    "affectedNodes": {
      "affectedNodeScope": "NODES_MATCHING_PATTERN",
      "patternMatcher": {
        "matchTo": "STARTS_WITH",
        "matchValue": "A",
        "shouldNot": false
      }
    }
  }
}

```

Node Property Variable Matcher

Use this to suppress actions for entities at the node level for nodes that match specified environment variables.

Property Name	Type	Description and Valid Values												
affectedNodeScope*	string	Enum NODE_PROPERTY_VARIABLE_MATCHER												
propVarPairs*		<table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>propertyType*</td> <td>string</td> <td> Enums META ENV JVM </td> </tr> <tr> <td>name*</td> <td>string minLength: 1</td> <td></td> </tr> <tr> <td>value*</td> <td>string minLength: 1</td> <td></td> </tr> </tbody> </table>	Property Name	Type	Description	propertyType*	string	Enums META ENV JVM	name*	string minLength: 1		value*	string minLength: 1	
Property Name	Type	Description												
propertyType*	string	Enums META ENV JVM												
name*	string minLength: 1													
value*	string minLength: 1													

Example

```
{
  "affectedInfoType": "TIERS_NODES",
  "affectedEntities": {
    "tierNodeType": "NODE",
    "nodeType": "ALL_NODES",
    "affectedNodes": {
      "affectedNodeScope": "NODE_PROPERTY_VARIABLE_MATCHER",
      "propVarPairs": [{
        "propertyType": "ENV",
        "name": "CLASSPATH",
        "value": "C:\\Users\\Java\\Classes"
      }]
    }
  }
}
```

Servers Affected

Use this to suppress actions for entities at the server level.

Property Name	Type	Description and Valid Values						
affectedInfoType*	string	Enum SERVERS						
affectedServers*		ApplicationAffectedServers <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>serversScope*</td> <td>string</td> <td>Enum SPECIFIC_SERVERS_IN_APPLICATION</td> </tr> </tbody> </table>	Property Name	Type	Description	serversScope*	string	Enum SPECIFIC_SERVERS_IN_APPLICATION
Property Name	Type	Description						
serversScope*	string	Enum SPECIFIC_SERVERS_IN_APPLICATION						

Example

```
{
  "affectedInfoType": "SERVERS",
  "affectedServers": {
    "serversScope": "SPECIFIC_SERVERS_IN_APPLICATION",
    "specificServers": ["DropWizardTestApplicationDropWizardDefaultNode1"]
  }
}
```

Specific Servers within an Application

Use this property to suppress actions for entities at the server level for specific servers within an application.

Property Name	Type	Description
---------------	------	-------------

serversScope*	string	Enum SPECIFIC_SERVERS_IN_APPLICATION
specificServers*	array of strings minItems: 1 MinLength: 1	A list of servers considered as affected entities for action suppression. For example: [server1, server2]
<p>Example</p> <pre>{ "affectedInfoType": "SERVERS", "affectedServers": { "serversScope": "SPECIFIC_SERVERS_IN_APPLICATION", "specificServers": ["DropWizardTestApplicationDropWizardDefaultNode1"] } }</pre>		

Databases Affected

Use this property to suppress actions for entities at the database level.

Property Name	Type	Description and Valid Values												
affectedInfoType*	string	Enum DATABASES												
affectedDatabases*		<p>AffectedDatabases</p> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>databaseScope*</td> <td>string</td> <td> <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>AffectedDatabaseType</td> <td>string</td> <td> Enums ALL_DATABASES SPECIFIC_DATABASES </td> </tr> </tbody> </table> </td> </tr> </tbody> </table>	Property Name	Type	Description	databaseScope*	string	<table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>AffectedDatabaseType</td> <td>string</td> <td> Enums ALL_DATABASES SPECIFIC_DATABASES </td> </tr> </tbody> </table>	Property Name	Type	Description	AffectedDatabaseType	string	Enums ALL_DATABASES SPECIFIC_DATABASES
Property Name	Type	Description												
databaseScope*	string	<table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>AffectedDatabaseType</td> <td>string</td> <td> Enums ALL_DATABASES SPECIFIC_DATABASES </td> </tr> </tbody> </table>	Property Name	Type	Description	AffectedDatabaseType	string	Enums ALL_DATABASES SPECIFIC_DATABASES						
Property Name	Type	Description												
AffectedDatabaseType	string	Enums ALL_DATABASES SPECIFIC_DATABASES												
<p>Example</p> <pre>{ "affects": { "affectedInfoType": "DATABASES", "affectedDatabases": { "databaseScope": "ALL_DATABASES" } } }</pre>														

Scope of Affected Databases

Use this property to define the scope of action suppression at the database level.

Property Name	Type	Description						
databaseScope*	string	<table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>AffectedDatabaseType</td> <td>string</td> <td> Enums ALL_DATABASES SPECIFIC_DATABASES </td> </tr> </tbody> </table>	Property Name	Type	Description	AffectedDatabaseType	string	Enums ALL_DATABASES SPECIFIC_DATABASES
		Property Name	Type	Description				
AffectedDatabaseType	string	Enums ALL_DATABASES SPECIFIC_DATABASES						

Scope of Affected Databases—All Databases

Use this property to suppress actions for entities of all the databases.

Property Name	Type	Description						
databaseScope*	string	<table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>AffectedDatabaseType</td> <td>string</td> <td> Enums ALL_DATABASES </td> </tr> </tbody> </table>	Property Name	Type	Description	AffectedDatabaseType	string	Enums ALL_DATABASES
		Property Name	Type	Description				
AffectedDatabaseType	string	Enums ALL_DATABASES						

Scope of Affected Databases—Specific Databases

Use this property to suppress actions for entities of specific databases.

Property Name	Type	Description						
databaseScope*	string	<table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>AffectedDatabaseType</td> <td>string</td> <td> Enums SPECIFIC_DATABASES </td> </tr> </tbody> </table>	Property Name	Type	Description	AffectedDatabaseType	string	Enums SPECIFIC_DATABASES
		Property Name	Type	Description				
AffectedDatabaseType	string	Enums SPECIFIC_DATABASES						
databases*	array of strings minItems: 1	DbServer <table border="1"> <thead> <tr> <th>Property Name</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>serverName*</td> <td>string minLength: 1</td> </tr> <tr> <td>collectorConfigName*</td> <td>string minLength: 1</td> </tr> </tbody> </table>	Property Name	Type	serverName*	string minLength: 1	collectorConfigName*	string minLength: 1
Property Name	Type							
serverName*	string minLength: 1							
collectorConfigName*	string minLength: 1							

Example

```

{
  "affects":{
    "affectedInfoType": "DATABASES",
    "affectedDatabases":{
      "databaseScope": "SPECIFIC_DATABASES",
      "databases":[
        {
          "serverName": "MongoNewKC",
          "collectorConfigName": "MongoNewKC"
        },
        {
          "serverName": "Collector41",
          "collectorConfigName": "Collector41"
        }
      ]
    }
  }
}

```

Database Server Details

Use this property to define database server details.

Property Name	Type
serverName*	string minLength: 1
collectorConfigName*	string minLength: 1

Affected Database Types

Use this property to define the scope of affected databases.

Property Name	Type	Description
AffectedDatabaseType	string	Enums ALL_DATABASES SPECIFIC_DATABASES

Health Rule Scope

Use this to suppress actions triggered as a response to health rule violation events.

Property Name	Type	Description
healthRuleScopeType*	string	HealthRuleScopeType Enum SPECIFIC_HEALTH_RULES

Example

```
{
  "healthRuleScopeType": "SPECIFIC_HEALTH_RULES",
  "healthRules": ["CPU utilization is too high", "JVM Garbage Collection Time is too high"]
}
```

Health Rule Scope Type

Property Name	Type	Description
healthRuleScope*	string	Enum SPECIFIC_HEALTH_RULES

Specific Health Rules

Property Name	Type	Description
healthRuleScopeType*	string	HealthRuleScopeType Enum SPECIFIC_HEALTH_RULES
healthRules*	array of strings minItems: 1	

Example

```
{
  "healthRuleScopeType": "SPECIFIC_HEALTH_RULES",
  "healthRules": ["CPU utilization is too high", "JVM Garbage Collection Time is too high"]
}
```

Action Suppression Summary

Property Name	Type
id*	integer
name*	string minLength: 1

Error Response

Property Name	Type
statusCode	integer
message	string

*This property is required.

Download Examples

Download [Appdynamics Action Suppression examples.zip](#) to get a set of examples that help you configure a schedule.

Download SWAGGER YAML file

Download the Swagger YAML spec [action_suppression_openapi.yml](#).

Events and Action Suppression API

This page describes the Events and Suppression API methods you can use to create, manage, and monitor events and action suppression.

Retrieve All Health Rule Violations in a Business Application

Returns all [health rule](#) violations that have occurred in an application within a specified time frame.

URI

`/controller/rest/applications/application_id/problems/healthrule-violations`

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
application_id	URI	Provide either the application name or application id.	Yes
time-range-type	Query	Possible values are: BEFORE_NOW To use the "BEFORE_NOW" option, you must also specify the "duration-in-mins" parameter. BEFORE_TIME To use the "BEFORE_TIME" option, you must also specify the "duration-in-mins" and "end-time" parameters. AFTER_TIME To use the "AFTER_TIME" option, you must also specify the "duration-in-mins" and "start-time" parameters. BETWEEN_TIMES To use this option, you must also specify the "start-time" and "end-time" parameters. The "BETWEEN_TIMES" range includes the start-time and excludes the end-time.	Yes
duration-in-mins	Query	Duration (in minutes) to return the metric data.	If time-range-type is BEFORE_NOW, BEFORE_TIME, or AFTER_TIME
start-time	Query	Start time (in milliseconds) from which the metric data is returned.	If time-range-type is AFTER_TIME or BETWEEN_TIMES
end-time	Query	End time (in milliseconds) until which the metric data is returned.	If time-range-type is BEFORE_TIME or BETWEEN_TIMES
output	Query	HTTP Request parameter included as part of the URL to change the output format. Valid values are XML (default) or JSON.	No

```

http://demo.appdynamics.com/controller/rest/applications/7/problems/healthrule-violations?time-range-
type=BEFORE_NOW&duration-in-mins=15
<policy-violations><policy-violation>
  <id>266</id>
  <name>CPU utilization is too high</name>
  <startTimeInMillis>1452630655000</startTimeInMillis>
  <detectedTimeInMillis>0</detectedTimeInMillis>
  <endTimeInMillis>1452630715000</endTimeInMillis>
  <incidentStatus>RESOLVED</incidentStatus>
  <severity>WARNING</severity>
  <triggeredEntityDefinition>
    <entityType>POLICY</entityType>
    <entityId>30</entityId>
    <name>CPU utilization is too high</name>
  </triggeredEntityDefinition>
  <affectedEntityDefinition>
    <entityType>APPLICATION_COMPONENT_NODE</entityType>
    <entityId>16</entityId>
    <name>Fulfillment</name>
  </affectedEntityDefinition>
  <deepLinkUrl>http://demo.appdynamics.com/controller/#location=APP_INCIDENT_DETAIL&amp;incident=266<
/deepLinkUrl>
  <description>AppDynamics has detected a problem.<br><b>errorAbhi</b> is violating.
</description>
</policy-violation>
<policy-violation>
  <id>268</id>
  <name>CPU utilization is too high</name>
  <startTimeInMillis>1452630655000</startTimeInMillis>
  <detectedTimeInMillis>0</detectedTimeInMillis>
  <endTimeInMillis>1452630715000</endTimeInMillis>
  <incidentStatus>RESOLVED</incidentStatus>
  <severity>WARNING</severity>
  <triggeredEntityDefinition>
    <entityType>POLICY</entityType>
    <entityId>30</entityId>
    <name>CPU utilization is too high</name>
  </triggeredEntityDefinition>
  <affectedEntityDefinition>
    <entityType>APPLICATION_COMPONENT_NODE</entityType>
    <entityId>20</entityId>
    <name>FulfillmentClient</name>
  </affectedEntityDefinition>
  <deepLinkUrl>http://demo.appdynamics.com/controller/#location=APP_INCIDENT_DETAIL&amp;incident=268<
/deepLinkUrl>
  <description>AppDynamics has detected a problem with Node &lt;b>FulfillmentClient</b>. &lt;br>&lt;br>
&lt;b>CPU utilization is too high</b> started violating and is now &lt;b>warning</b>. &lt;br>
All of the following conditions were found to be violating&lt;br>For Node &lt;b>FulfillmentClient</b>
&lt;br>1) Hardware Resources|CPU|Busy Condition&lt;br>&lt;b>Busy's</b> value &lt;br>
76.0&lt;br> was &lt;br>greater than&lt;br> the threshold &lt;br>75.0&lt;br> for the last &lt;br>
30&lt;br> minutes&lt;br></description>
</policy-violation>
</policy-violations>

```

Retrieve Event Data

You can capture data for the event types listed in the eventtypes parameter.

URI

/controller/rest/applications/application_id/events

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
application_id	URI	Provides either the application name or application id.	Yes
summary	Query	Provides the summary for the event.	Yes
comment	Query	Provides the comments (if any) for the event.	No
eventtype	Query	APPLICATION_DEVELOPMENT	Yes
time-range-type	Query	Possible values are: BEFORE_NOW To use the "BEFORE_NOW" option, you must also specify the "duration-in-mins" parameter. BEFORE_TIME To use the "BEFORE_TIME" option, you must also specify the "duration-in-mins" and "end-time" parameters. AFTER_TIME To use the "AFTER_TIME" option, you must also specify the "duration-in-mins" and "start-time" parameters. BETWEEN_TIMES To use this option, you must also specify the "start-time" and "end-time" parameters. The "BETWEEN_TIMES" range includes the start-time and excludes the end-time.	Yes
duration-in-mins	Query	Specify the duration (in minutes) to return the metric data.	If time-range-type is BEFORE_NOW, BEFORE_TIME, or AFTER_TIME
start-time	Query	Specify the start time (in milliseconds) from which the metric data is returned.	If time-range-type is AFTER_TIME or BETWEEN_TIMES
end-time	Query	Specify the end time (in milliseconds) until which the metric data is returned.	If time-range-type is BEFORE_TIME or BETWEEN_TIMES
event-types	Query	Specify the comma-separated list of event types for which you want to retrieve event information. See Events Reference .	Yes
severity	Query	Provides the severity level. Specify the comma-separated list of severities for which you want to retrieve event information. Allowed values are: <ul style="list-style-type: none"> • INFO • WARN • ERROR In the UI these values become Info, Warning, and Critical.	Yes
output	Query	HTTP Request parameter included as part of the URL to change the output format. Valid values are XML (default) or JSON.	No
tier	Query	Name of the tier in the application	No

 This API can retrieve 600 events at a time.

Example

Retrieve the list of events of type APPLICATION_ERROR or DIAGNOSTIC_SESSION of any severity that occurred in the specified time range:

```
curl --user user1@customer1:your_password http://demo.appdynamics.com//controller/rest/applications/6/events?
time-range-type=BEFORE_NOW&duration-in-mins=30&event-types=%20APPLICATION_ERROR,
DIAGNOSTIC_SESSION&severities=INFO,WARN,ERROR

<events><event>
  <id>44658</id>
  <type>DIAGNOSTIC_SESSION</type>
  <subType>ERROR_DIAGNOSTIC_SESSION</subType>
  <eventTime>1451343453085</eventTime>
  <severity>WARN</severity>
  <summary>Starting Diagnostic Session after series of errors for a Business Transaction 18% (2/11) of requests
had errors in the last minute starting 12/28/15 10:57 PM local time</summary>
  <affectedEntities>
    <entity-definition>
      <entityType>APPLICATION</entityType>
      <entityId>6</entityId>
      <name>ECommerce</name>
    </entity-definition>
    <entity-definition>
      <entityType>APPLICATION_COMPONENT</entityType>
      <entityId>11</entityId>
      <name>ECommerce-Services</name>
    </entity-definition>
    <entity-definition>
      <entityType>APPLICATION_COMPONENT_NODE</entityType>
      <entityId>19</entityId>
      <name>ECommerce_WEB2</name>
    </entity-definition>
    <entity-definition>
      <entityType>BUSINESS_TRANSACTION</entityType>
      <entityId>35</entityId>
      <name>/items/all.GET</name>
    </entity-definition>
    <entity-definition>
      <entityType>MACHINE_INSTANCE</entityType>
      <entityId>8</entityId>
      <name>ECommerce-webl</name>
    </entity-definition>
  </affectedEntities>
  <triggeredEntity>
    <entityType>APPLICATION_COMPONENT_NODE</entityType>
    <entityId>19</entityId>
    <name>ECommerce_WEB2</name>
  </triggeredEntity>
  <markedAsRead>>false</markedAsRead>
  <markedAsResolved>>false</markedAsResolved>
  <archived>>false</archived>
  <deepLinkUrl>http://demo.appdynamics.com:8090/controller/#location=APP_EVENT_VIEWER_MODAL&
eventSummary=44658</deepLinkUrl>
</event>
</events>
```

Create Events

Application deployment events notify AppDynamics when you upgrade your application, push new code, etc. This lets you correlate these application deployment activities with other data inside AppDynamics. This is useful for regression analysis, root cause analysis, and performance studies. It is beneficial to inject your application deployment event into AppDynamics as part of the build process for deploying a new version of your application.

The AppDynamics REST API lets you integrate events of type `APPLICATION_DEPLOYMENT` with other systems.

For example, to create an event automatically in your AppDynamics monitored system for every new release you would integrate these systems and use the following REST API to create an event of type "APPLICATION_DEPLOYMENT" in your managed environment.

You should receive the event ID after the successful invocation of the request.

Roles and Permissions



Creating events requires the **Create Events** permission. See [Application Permissions](#).

URI

POST /controller/rest/applications/application_id/events

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
application_id	URI	Provide either application name or application id.	Yes
summary	Query	Provide a summary describing the event.	Yes
comment	Query	Provide the comments (if any) for the event.	No
eventtype	Query	APPLICATION_DEPLOYMENT	Yes
severity	Query	Provide a severity level. Allowed values include: <ul style="list-style-type: none"> • "INFO" • "WARN" • "ERROR" In the UI, these become "Info", "Warning", and "Critical"	Yes

Create a Custom Event

You can create custom events to be reported in the AppDynamics event viewer and in the event panels on the AppDynamics dashboards. See [Monitor Events](#) to learn how to filter on your custom events. Then you can create alerts triggered by these events as you do for AppDynamics standard events.

You should receive the event ID after the successful invocation of the request.

Roles and Permissions



Creating a custom event requires the **Create Events** permission. See [Application Permissions](#).

URI

POST /controller/rest/applications/application_id/events

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
application_id	URI	Provide either application name or application id.	Yes
summary	Query	Provide a summary describing the event.	Yes
comment	Query	Provide a comment for the event.	No
severity	Query	Provide a severity level. Allowed values include: <ul style="list-style-type: none"> • "INFO" • "WARN" • "ERROR" In the UI, these become "Info", "Warning", and "Critical"	Yes

eventtype	Query	CUSTOM	Yes
customeventtype	Query	Provide a name for the "type" . For example, the source could be "nagios" .	No
node	Query	Provide the affected node name.	No
tier	Query	Provide the affected tier name.	Yes, if node and bt are specified
bt	Query	Provide the affected business transaction name.	No
propertynames	Query	Provide a property name as a pair, i.e., the "key" .	No, but if one element of the pair is defined, the other must be defined also
propertyvalues	Query	Provide the property value as a pair, i.e., the "value" .	No, but if one element of the pair is defined, the other must be defined also

Example

```
curl -X POST --user user1@customer1:your_password 'http://demo.appdynamics.com/controller/rest/applications/5/
events?
severity=INFO&summary=test1&eventtype=CUSTOM&customeventtype=mycustomevent&propertynames=key1&propertynames=key2
&propertyvalues=value1&propertyvalues=value'
```



Notice the pattern for custom properties: `propertynames` and `propertyvalues` get matched up by order position, so to set N property values, you need N occurrences of `propertynames` and N occurrences of `propertyvalues`.

Create Custom URLs for Notifications

Single tenants in a multi-tenant Controller instance should use this API method to specify a custom or vanity URL for notification purposes. Instead of a URL such as `paid8.appdynamics.com` being displayed as the host, the custom URL can be displayed as `yourcompany.appdynamics.com` in the notification.

URI

POST /controller/rest/accounts/customer_name/update-controller-url

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
customer_name	URI	The customer account name	Yes

Body Parameter

As Application/JSON content:

```
{
  "controllerURL": "http://<my-custom-hostname:port>"
}
```


i If the URL in the alerts is invalid, you can set it using the following curl command:

```
curl -k --basic --user root@system --header "Content-Type: application/json" --data '{ "controllerURL": "http://<controller>:<port>" }' http://<controller>:<port>/controller/rest/accounts/<ACCOUNT-NAME>/update-controller-url
```

```
curl -k --basic --user root@system --header "Content-Type: application/json" --data '{ "controllerURL": "http://<controller>:<port>" }' http://<controller>:<port>/controller/rest/accounts/<ACCOUNT-NAME>/update-controller-url
```

For example:

```
curl -k --basic --user root@system --header "Content-Type: application/json" --data '{ "controllerURL": "https://myVIP:443" }' https://myhost:8181/controller/rest/accounts/customer1/update-controller-url
```

There is no need to reset the Controller as upgrading it will reset the deep link URL settings.

Create and Delete Action Suppressions

By default any response is in JSON, although XML can be requested by using the following header:

```
Name : Accept
Value : application/vnd.appd.cntrl+xml;v=1
```

Retrieve All Existing Action Suppressions

Use this to retrieve a list of all existing action suppressions.

URI

```
GET /controller/api/accounts/account_id/applications/application_id/actionsuppressions
```

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
account_id	URI	The account ID	Yes
application_id	URI	The application ID	Yes

Example request to get all action suppressions:

```
/controller/api/accounts/2/applications/9/actionsuppressions
```

Example response:

```
Status : 200 ok
Output Data :
{"actionSuppressions": [{"id": "15", "name": "App-ASW", "timeRange": {"startTimeMillis": "2014-10-25T04:16:30+0000", "endTimeMillis": "2014-10-25T06:16:30+0000"}, "affects": {"type": "APP"}}, {"id": "16", "name": "Node-ASW", "timeRange": {"startTimeMillis": "2014-10-25T04:16:57+0000", "endTimeMillis": "2014-10-25T05:16:57+0000"}, "healthRuleIds": [60, 61], "affects": {"type": "NODE", "nodeAffectedEntities": {"type": "SPECIFIC", "nodeType": "ALL", "nodes": [17, 18]}}}], "actions": [{"href": "http://demo.appdynamics.com:8090/controller/api/accounts/2/applications/9/actionsSuppressions/%7BactionsSuppressions.id%7D/%7Bactions.name%7D", "method": ["POST", "DELETE"], "name": "enabled"}], "links": [{"href": "http://ec2-54-80-163-175.compute-1.amazonaws.com:8090/controller/api/accounts/2/applications/9/actionsSuppressions/%7BactionsSuppressions.id%7D", "name": "actionsSuppressions"}]}
```

Retrieve a Specific Action Suppression by ID

Use this to get an action suppression by the specified ID.

URI

```
/controller/api/accounts/account_id/applications/application_id/actionsSuppressions/actionsSuppression_id
```

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
account_id	URI	The account id.	Yes
application_id	URI	The application id.	Yes
actionsSuppressions_id	URI	The action suppression id.	Yes

Example request:

```
/controller/api/accounts/2/applications/9/actionsSuppressions/15
```

Example response:

```
Status : 200 ok
Output Data :
{"id": "15", "name": "App-ASW", "timeRange": {"startTimeMillis": "2014-10-25T04:16:30+0000", "endTimeMillis": "2014-10-25T06:16:30+0000"}, "affects": {"type": "APP"}}
```

Create a New Action Suppression

This is a POST request that should return a 201 - created response.

URI

```
POST /controller/api/accounts/account_id/applications/application_id/actionsSuppressions
```

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
account_id	URI	The account ID.	Yes

applicatio n_id	URI	The application ID.		Yes																																															
name	body key	The name of the action suppression window.		Yes																																															
timeRange	body key	The start and end time of the window. Includes: startMillis, eg 2014-10-25T04:16:57+0000 endMillis, eg 2014-10-25T05:16:57+0000		Yes																																															
healthRule Ids	body key	The ids of the affected health rules. If not provided, all rules affected		No																																															
affects	body key	Type of entity and corresponding IDs:		Yes																																															
		<table border="1"> <thead> <tr> <th>Scope</th> <th>Type</th> <th>Value</th> <th>Example</th> </tr> </thead> <tbody> <tr> <td>Application</td> <td>APP</td> <td>Covers the entire application</td> <td>"affects": {"type": "APP"}</td> </tr> <tr> <td rowspan="3">Business Transaction</td> <td rowspan="3">BT</td> <td>Covers one or more Business Transactions</td> <td></td> </tr> <tr> <td>All Business Transactions</td> <td>"affects": {"type": "BT", "btAffectedEntities": {"type": "ALL"}}</td> </tr> <tr> <td>Business Transactions from specific tiers</td> <td>"affects": {"type": "BT", "btAffectedEntities": {"type": "WITHIN_TIERS", "tiers": [11,12]}} where 11,12 are Tier Ids</td> </tr> <tr> <td rowspan="2">Specific Business Transactions by id</td> <td rowspan="2"></td> <td></td> <td>"affects": {"type": "BT", "btAffectedEntities": {"type": "SPECIFIC", "bts": [1,2]}} where 1,2 are BT Ids</td> </tr> <tr> <td>Business Transactions that match criteria</td> <td> "affects": {"type": "BT", "btAffectedEntities": {"type": "CRITERIA", "matchesOperator": "CONTAINS", "matchesValue": "pojo"}} where "matchesOperator" can be: <ul style="list-style-type: none"> CONTAINS EQUALS STARTS ENDS REGEX_VALUE </td> </tr> <tr> <td rowspan="3">Tier</td> <td rowspan="3">TIER</td> <td>Covers one or more tiers</td> <td></td> </tr> <tr> <td>All tiers</td> <td>"affects": {"type": "TIER", "tierAffectedEntities": {"type": "ALL"}}</td> </tr> <tr> <td>Specific tiers</td> <td>"affects": {"type": "TIER", "tierAffectedEntities": {"type": "SPECIFIC", "tiers": [11,12]}} where 11,12 are Tier Ids</td> </tr> <tr> <td rowspan="4">Node</td> <td rowspan="4">NODE</td> <td>Covers one or more nodes</td> <td></td> </tr> <tr> <td>All nodes</td> <td>"affects": {"type": "NODE", "nodeAffectedEntities": {"type": "ALL", "nodeType": "ALL"}}</td> </tr> <tr> <td>Nodes belonging to specific tiers</td> <td>"affects": {"type": "NODE", "nodeAffectedEntities": {"type": "WITHIN_TIERS", "nodeType": "ALL", "tiers": [11,12]}} where 11,12 are Tier Ids</td> </tr> <tr> <td>Specific nodes</td> <td>"affects": {"type": "NODE", "nodeAffectedEntities": {"type": "SPECIFIC", "nodeType": "ALL", "nodes": [9,10]}} where 9,10 are Node Ids</td> </tr> <tr> <td></td> <td></td> <td>Nodes that match criteria</td> <td> "affects": {"type": "NODE", "nodeAffectedEntities": {"type": "NAME_CRITERIA", "nodeType": "ALL", "nameMatchesOperator": "EQUALS", "nameMatchesValue": "Node"}} - String match "affects": {"type": "NODE", "nodeAffectedEntities": {"type": "PROPERTY_CRITERIA", "nodeType": "ALL", "metaInfoProperties": [{"name": "ProcessID", "value": 12343}]} - Meta Info Properties match where "matchesOperator" can be: <ul style="list-style-type: none"> CONTAINS EQUALS STARTS ENDS REGEX_VALUE </td> </tr> <tr> <td>Machine</td> <td>MACHINE</td> <td>Covers one or more machines</td> <td> "affects": {"type": "MACHINE", "machineAffectedEntities": {"type": "SPECIFIC", "machines": [4,5]}} where 4,5 are Machine Ids You must spell the value as "SPECITIC" due to a typo in the underlying code. </td> </tr> </tbody> </table>		Scope	Type	Value	Example	Application	APP	Covers the entire application	"affects": {"type": "APP"}	Business Transaction	BT	Covers one or more Business Transactions		All Business Transactions	"affects": {"type": "BT", "btAffectedEntities": {"type": "ALL"}}	Business Transactions from specific tiers	"affects": {"type": "BT", "btAffectedEntities": {"type": "WITHIN_TIERS", "tiers": [11,12]}} where 11,12 are Tier Ids	Specific Business Transactions by id			"affects": {"type": "BT", "btAffectedEntities": {"type": "SPECIFIC", "bts": [1,2]}} where 1,2 are BT Ids	Business Transactions that match criteria	"affects": {"type": "BT", "btAffectedEntities": {"type": "CRITERIA", "matchesOperator": "CONTAINS", "matchesValue": "pojo"}} where "matchesOperator" can be: <ul style="list-style-type: none"> CONTAINS EQUALS STARTS ENDS REGEX_VALUE 	Tier	TIER	Covers one or more tiers		All tiers	"affects": {"type": "TIER", "tierAffectedEntities": {"type": "ALL"}}	Specific tiers	"affects": {"type": "TIER", "tierAffectedEntities": {"type": "SPECIFIC", "tiers": [11,12]}} where 11,12 are Tier Ids	Node	NODE	Covers one or more nodes		All nodes	"affects": {"type": "NODE", "nodeAffectedEntities": {"type": "ALL", "nodeType": "ALL"}}	Nodes belonging to specific tiers	"affects": {"type": "NODE", "nodeAffectedEntities": {"type": "WITHIN_TIERS", "nodeType": "ALL", "tiers": [11,12]}} where 11,12 are Tier Ids	Specific nodes	"affects": {"type": "NODE", "nodeAffectedEntities": {"type": "SPECIFIC", "nodeType": "ALL", "nodes": [9,10]}} where 9,10 are Node Ids			Nodes that match criteria	"affects": {"type": "NODE", "nodeAffectedEntities": {"type": "NAME_CRITERIA", "nodeType": "ALL", "nameMatchesOperator": "EQUALS", "nameMatchesValue": "Node"}} - 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Example request

```
/controller/api/accounts/2/applications/9/actionsSuppressions
```

Header

- Name: Content-Type
- Value: application/vnd.appd.cntrl+json;v=1

Body

```
{ "name": "App-ASW_2", "timeRange": { "startTimeMillis": "2014-10-25T04:16:30+0000", "endTimeMillis": "2014-10-25T06:16:30+0000" }, "affects": { "type": "APP" } }
```

or

```
{ "name": "Node-ASW_1", "timeRange": { "startTimeMillis": "2014-10-25T04:16:57+0000", "endTimeMillis": "2014-10-25T05:16:57+0000" }, "healthRuleIds": [60,61], "affects": { "type": "NODE", "nodeAffectedEntities": { "type": "SPECIFIC", "nodeType": "ALL", "nodes": [17,18] } } }
```

Delete a Specific Action Suppression by ID

This is a DELETE request that should return a 204 - No Content message.

URI

DELETE /controller/api/accounts/account_id/applications/application_id/actionsSuppressions/actionsSuppression_id

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
account_id	URI	The account ID	Yes
application_id	URI	The application ID	Yes
actionsSuppression_id	URI	The ID of the action suppression to be deleted	Yes—The Alert and Respond APIs let you manage and monitor events, health rules, and other aspects of the AppDynamics alert and respond features.

Configuration API

This page describes the Configuration API methods you can use to read and modify selected Controller configuration settings programmatically. You can use it to script or automate tasks that must be performed frequently or in large batches, such as adding users.

i The Configuration Export and Import API provides the ability to perform select configuration changes as well as you can edit and import Controller configuration definition files.

Create and Modify AppDynamics Users

Use this API to create or modify user accounts in the Controller.

You pass the user configuration settings as query parameters to the API call. The format of the create and modify user calls are identical except for the `user-id` parameter, which is not passed for the create operation. The `user-id` is generated by the `create` operation.

Format

POST `/controller/rest/users`

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
<code>user-name</code>	Query	user name	Yes
<code>user-id</code>	Query	user id	No for a create; yes for an update
<code>user-display-name</code>	Query	display name	Yes
<code>user-roles</code>	Query	comma-separated list of roles	No
<code>user-password</code>	Query	user password	Yes for a create; optional for an update
<code>user-email</code>	Query	user email	Yes

Example

```
curl -X POST --user user1@customer1:your_password http://demo.appdynamics.com/controller/rest/users?user-name=user2\&user-display-name=User%20Two\&user-password=welcome\&user-email=user2@example.com
```

Include or Exclude a Business Transaction from Monitoring

You can exclude or include business transactions for monitoring by passing the `exclude` parameter to the business-transactions retrieval API described in the [Application Model API](#).

To exclude a business transaction, pass the XML-represented ID of the business transaction to be excluded with the `exclude` parameter set to `true`. To turn on monitoring for a currently excluded business transaction, set the `exclude` parameter to `false`.

Send the list of business transactions to be excluded or re-included as the XML-formatted `POST` payload. A sample business-transaction list is:

```
<business-transactions>
  <business-transaction>
    <id>15</id>
  </business-transaction>
  <business-transaction>
    <id>16</id>
  </business-transaction>
</business-transactions>
```



Ensure that the Content-Type header is set to application/xml.

Format

POST /controller/rest/applications/application_id/business-transactions

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
application_id	URI	Provide either the application name or application id.	Yes
exclude	Post	true false	Yes

Example

```
curl -X POST -H "Content-Type:text/xml" --user user1@customer1:your_password http://demo.appdynamics.com
/controller/rest/applications/6/business-transactions?exclude=true -d @businesstransaction.xml
```

Retrieve All Controller Settings

The Controller global configuration values are made up of the Controller settings that are presented in the [Administration Console](#).

Format

GET /controller/rest/configuration

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
output	Query	HTTP Request parameter included as part of the URL to change the output format. Valid values are XML (default) or JSON.	No

Example

```

curl --user admin@customer1:your_password http://demo.appdynamics.com/controller/rest/configuration

<configuration-items><configuration-item>
  <name>eventsvcr.request.segment.data.max.retrieval.size</name>
  <value>5000</value>
  <description>Max number of request segment data that can be retrieved from event service in a query<
/description>
  <updateable>true</updateable>
  <scope>cluster</scope>
</configuration-item>
<configuration-item>
  <name>machine.agent.max.new.actions.per.min</name>
  <value>15</value>
  <description>Maximum number of new actions dispatched per minute for each machine agent</description>
  <updateable>true</updateable>
  <scope>cluster</scope>
</configuration-item>
...
<configuration-item>
  <name>tss.retention.period</name>
  <value>336</value>
  <description>Time (in hours) to retain 12 hour tss data values before they are purged from the system.<
/description>
  <updateable>true</updateable>
  <scope>cluster</scope>
</configuration-item>
<configuration-item>
  <name>snapshots.retention.period</name>
  <value>336</value>
  <description>Time (in hours) to retain snapshots before they are purged from the system.</description>
  <updateable>true</updateable>
  <scope>cluster</scope>
</configuration-item>
<configuration-item>
  <name>metrics.min.retention.period</name>
  <value>4</value>
  <description>Time (in hours) to retain minute metric data values before they are purged from the system.<
/description>
  <updateable>true</updateable>
  <scope>cluster</scope>
</configuration-item>
<configuration-item>
  <name>system.notification.event.types</name>
  <value>LICENSE,DISK_SPACE,CONTROLLER_AGENT_VERSION_INCOMPATIBILITY,CONTROLLER_EVENT_UPLOAD_LIMIT_REACHED,
CONTROLLER_RSD_UPLOAD_LIMIT_REACHED,CONTROLLER_METRIC_REG_LIMIT_REACHED,CONTROLLER_METRIC_DATA_BUFFER_OVERFLOW,
CONTROLLER_ERROR_ADD_REG_LIMIT_REACHED,CONTROLLER_ASYNC_ADD_REG_LIMIT_REACHED,
AGENT_ADD_BLACKLIST_REG_LIMIT_REACHED,AGENT_METRIC_BLACKLIST_REG_LIMIT_REACHED,
CONTROLLER_STACKTRACE_ADD_REG_LIMIT_REACHED,CONTROLLER_SEP_ADD_REG_LIMIT_REACHED,
CONTROLLER_MEMORY_ADD_REG_LIMIT_REACHED,CONTROLLER_TRACKED_OBJECT_ADD_REG_LIMIT_REACHED,
CONTROLLER_COLLECTIONS_ADD_REG_LIMIT_REACHED</value>
  <description>Comma separated list of Event Types (with no spaces between each) that will shown as System
Notifications in the UI.</description>
  <updateable>true</updateable>
  <scope>cluster</scope>
</configuration-item>
</configuration-items>

```

Retrieve a Controller Setting by Name

Use this API to get the value of a given Controller configuration setting.

Format

GET /configuration?name=controller_setting_name

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
name	Query	Name of the Controller setting to retrieve	Yes
output	Query	HTTP Request parameter included as part of the URL to change the output format. Valid values are XML (default) or JSON.	No

Example

```
curl --user admin@customer1:your_password http://demo.appdynamics.com/controller/rest/configuration?
name=metrics\.min\.retention\.period

<configuration-items><configuration-item>
  <name>metrics.min.retention.period</name>
  <value>4</value>
  <description>Time (in hours) to retain minute metric data values before they are purged from the system.<
/description>
  <updateable>true</updateable>
  <scope>cluster</scope>
</configuration-item>
</configuration-items>
```

Configure Global Controller Settings

Use this API to set a Controller setting to a specified value.



You cannot use this REST API to modify Controller settings on SaaS.

Format

POST /controller/rest/configuration

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
name	Query	Name of the Controller setting to get.	Yes
value	Query	Value to set.	Yes

Mark Nodes as Historical

Use this API to [mark nodes as historical](#), which suspends certain types of processing activities for the node (i.e. rule evaluation). By default, AppDynamics marks as historical (soft deletes) a node that has lost contact with the Controller for the number of hours configured in the `node.retention.period` Controller setting. The default is 500 hours.

Pass one or more identifiers of the node to be marked as historical, up to a maximum of 25 nodes. Multiple IDs should be comma-separated.

Format

POST /controller/rest/mark-nodes-historical?application-component-node-ids=value

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
application-component-node-ids	Query	Comma-separated list of node IDs	Yes

Example

```
curl -X POST --user admin@customer1:your_password http://demo.appdynamics.com/controller/rest/mark-nodes-historical?application-component-node-ids=44,45
```

```
<application-component-node-id>  
<44/>  
<45/>  
</application-component-node-id>
```

Configuration Import and Export API

This page describes the AppDynamics API methods you can use to import and export various types of configuration settings in the Controller.

About the Configuration Import/Export APIs

The Configuration Import/Export APIs enable you to migrate configuration settings across Controller accounts, business applications, or Controller instances. You can also use it to add configuration artifacts like transaction detection rules, health rules, or custom dashboards to an existing configuration programmatically.

An exported configuration is an XML or JSON representation of the configuration artifact. After exporting the file, you can upload it to another account or application, optionally modifying the configuration.

Export Actions from an Application

Use this to export all actions in the specified application to a JSON file.



The user account you use to make the API call must have permission to view an action or action template in the application you are exporting from.

Format

GET /controller/actions/application_id

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
application_id	URI	The application name or application ID.	Yes

Example

```
curl --user user1@customer1:your_password http://demo.appdynamics.com/controller/actions/7

[
  {
    actionType: "EmailAction",
    name: "6DA8942B-DF4A-417A-E1NF-59F14231D670",
    priority: 1,
    description: null,
    toAddress: "user1@example.com",
    subject: "",
    timeZone: null
  },
  {
    actionType: "DiagnosticSessionAction",
    name: "MyDiagnostic",
    priority: 0,
    description: null,
    businessTransactionTemplates: [ ],
    numberOfSnapshotsPerMinute: 5,
    durationInMinutes: 10,
    adjudicate: false,
    adjudicatorEmail: null
  }
]
```

Import Actions into an Application

After you have exported actions, you can import them to a different application passing the JSON file created by the export operation as the payload to a POST request.



The user account you use to make the API call must have permission to create an action or action template in the account.

Actions in the import file that have conflicting names with actions in the existing configuration are not imported. The import for those actions fails, while new actions are imported successfully.

This call takes data as multipart/form-data content. Use UTF-8 URL encoding of the URI before posting; for example, do not replace a space (" ") with "%20" in the URI.

Format

POST /controller/actions/application_id

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
application_id	URI	The application name or application ID.	Yes

Example

```
curl -X POST --user user1@customer1:your_password http://demo.appdynamics.com/controller/actions/38 -F
file=@ExportActions.json

{"success":true,"errors":[],"warnings":[]}
```

If there are actions in the file with the same name as ones in the configuration, those actions are not imported, and the response indicates the success of the request as false. For example:

```
{ "success":false,"errors":["Not importing Action with name: DuplicateExportedDiagnosticAction, since it already exists."],"warnings":["Imported 1 out of 2 actions"]}
```

Export Email Action Templates from an Account

This API exports all the email action templates in the current account in JSON format.

Format

GET /controller/actiontemplate/email

Example

```
curl --user user1@customer1:your_password http://demo.appdynamics.com/controller/actiontemplate/email

[ {
  "actionPlanType" : "email",
  "name" : "MyCustomEmailTemplate",
  "oneEmailPerEvent" : true,
  "eventClampLimit" : 100,
  "defaultCustomProperties" : [ {
    "id" : 0,
    "version" : 0,
    "name" : "env",
    "value" : "%OS"
  } ],
  "allowCustomRecipients" : true,
  "toRecipients" : [ ],
  "ccRecipients" : [ ],
  "bccRecipients" : [ ],
  "headers" : [ ],
  "subject" : "We've got a situation...",
  "includeTextBody" : true,
  "textBody" : "<h1>Summary of events occurring during the ${policy.digestDurationInMins}+ minute(s) prior to
${action.triggerTime}:</h1> <table> #foreach(${eventList} in ${fullEventsByTypeMap.values()}) #foreach(${event}
in ${eventList}) <tr> <td> <!-- Event icon -->  </td> <td> <!-- Event name with event link --> <a href="${event.deepLink}">${event.displayName}<
/a> </td> <td> <!-- Event message --> ${event.eventMessage} </td> </tr> #end #end </table>",
  "includeHtmlBody" : true,
  "htmlBody" : "<p>Please look into it.</p>",
  "testLogLevel" : "DEBUG",
  "testPropertiesPairs" : [ ],
  "testToRecipients" : [ ],
  "testCcRecipients" : [ ],
  "testBccRecipients" : [ ],
  "eventTypeCountPairs" : [ ]
} ]
```

Import Email Action Templates

Use this to import email action templates to an account as a JSON file.



The import will fail if you attempt to import a template with the same name as an existing template of the same type in the destination account.

Data for this call should be in the form of multipart/form-data. Use UTF-8 URL encoding of the URI before posting; for example, do not replace a space (" ") with "%20" in the URI.

Format

POST /controller/actiontemplate/email

Example

```
curl -X POST --user user1@customer1:your_password http://demo.appdynamics.com/controller/actiontemplate/email -F file=@emailactiontemplate.json
```

```
{"success":true,"errors":[],"warnings":[]}
```

Export HTTP Request Action Templates from an Account

This API exports all the HTTP request action templates in the current account to a JSON file.

Format

GET /controller/actiontemplate/httprequest/

Example:


```
curl --user user1@customer1:your_password http://demo.appdynamics.com/controller/actiontemplate/httprequest
```

```
[ {
  "actionPlanType" : "httprequest",
  "name" : "MyCustomHTTPTemplate",
  "oneRequestPerEvent" : false,
  "eventClampLimit" : -1,
  "defaultCustomProperties" : [ ],
  "method" : "GET",
  "scheme" : "HTTP",
  "host" : "http",
  "port" : 0,
  "path" : "//demo.appdynamics.com/controller/rest/applications/${latestEvent.application.name}/nodes/${latestEvent.node.name}",
  "query" : "",
  "urlCharset" : "UTF_8",
  "authType" : "BASIC",
  "authUsername" : "user1",
  "authPassword" : "your_password",
  "headers" : [ ],
  "payloadTemplate" : {
    "httpRequestActionMediaType" : "text/plain",
    "charset" : "UTF_8",
    "formDataPairs" : [ ],
    "payload" : ""
  },
  "connectTimeoutInMillis" : 5000,
  "socketTimeoutInMillis" : 15000,
  "maxFollowRedirects" : 0,
  "responseMatchCriteriaAnyTemplate" : [ ],
  "responseMatchCriteriaNoneTemplate" : [ ],
  "testLogLevel" : "DEBUG",
  "testPropertiesPairs" : [ ],
  "eventTypeCountPairs" : [ ]
} ]
```

Import HTTP Action Templates into an Account

After you have exported HTTP request action templates, you can import them to a different account by logging into the destination account and passing the JSON file created by the export operation as the payload to the `POST` request.

You can modify the exported file before you import it. You might want to do this to remove one or more template configurations or to change their names.

 The import will fail if you attempt to import a template with the same name as an existing template of the same type in the destination account.

Use UTF-8 URL encoding of the URI before posting; for example, do not replace a space (" ") with "%20" in the URI.

Format

```
GET /controller/actiontemplate/httprequest
```

Example

```
curl -X POST --user user1@customer1:your_password http://demo.appdynamics.com/controller/actiontemplate
/httprequest -F file=@httpactiontemplate.json

{"success":true,"errors":[],"warnings":[]}
```

Export Custom Dashboards and Templates

You can export and import custom dashboards and custom dashboard templates interactively from the Controller UI or by using this API call. See [Import and Export Custom Dashboards and Templates Using the UI](#).



To export the dashboard, the user making the API call must have permission to view the custom dashboard.

In the export call, you must identify the dashboard to export by its ID. When you open the dashboard in the UI, the ID appears as the dashboard parameter at the end of the URL.

For example, in this URL snippet, the custom dashboard ID is 3: `location=CDASHBOARD_DETAIL&mode=MODE_DASHBOARD&dashboard=3`

Format

```
GET /controller/CustomDashboardImportExportServlet?dashboardId=dashboard_id
```

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
dashboardId	Query	The numeric ID of the custom dashboard.	Yes

Example

```
curl --user user1@customer1:your_password http://demo.appdynamics.com/controller
/CustomDashboardImportExportServlet?dashboardId=8

{
  "schemaVersion" : null,
  "dashboardFormatVersion" : "3.0",
  "name" : "Analytics-BrowserData",
  ...
  "warRoom" : false,
  "template" : false
}
```

View a complete response example:

```
{
  "schemaVersion" : null,
  "dashboardFormatVersion" : "3.0",
  "name" : "Analytics-BrowserData",
  "description" : null,
  "properties" : null,
  "templateEntityType" : "APPLICATION_COMPONENT_NODE",
  "associatedEntityTemplates" : null,
  "minutesBeforeAnchorTime" : 15,
  "startDate" : null,
  "endDate" : null,
  "refreshInterval" : 120000,
  "backgroundColor" : 15395562,
  "color" : 15395562,
  "height" : 768,
  "width" : 1024,
  "canvasType" : "CANVAS_TYPE_GRID",
  "layoutType" : "",
  "widgetTemplates" : [ {
    "widgetType" : "AnalyticsWidget",
    "title" : "Browser_data",
    "height" : 4,
    "width" : 4,
    "x" : 0,
    "y" : 0,
    "label" : "",
    "description" : "",
    "drillDownUrl" : "",
    "useMetricBrowserAsDrillDown" : false,
    "backgroundColor" : 16777215,
    "backgroundColors" : null,
    "backgroundColorsStr" : null,
    "color" : 4210752,
    "fontSize" : 12,
    "useAutomaticFontSize" : false,
    "borderEnabled" : false,
    "borderThickness" : 0,
    "borderColor" : 0,
    "backgroundAlpha" : 1.0,
    "showValues" : false,
    "compactMode" : false,
    "showTimeRange" : false,
    "renderIn3D" : false,
    "showLegend" : false,
    "legendPosition" : null,
    "legendColumnCount" : null,
    "startTime" : null,
    "endTime" : null,
    "minutesBeforeAnchorTime" : 0,
    "isGlobal" : true,
    "propertiesMap" : null,
    "dataSeriesTemplates" : null,
    "adqlQueries" : [ "SELECT apkey, pageexperience, distinctcount(pageurl) AS \"URL (Count Distinct)\" FROM
browser_records LIMIT 100,100" ],
  } ]
}
```

```
"analyticsWidgetType" : "COLUMN",
"maxAllowedYAxisFields" : 3,
"maxAllowedXAxisFields" : 2,
"min" : null,
"interval" : 98,
"max" : null,
"intervalType" : "By Fixed Number",
"showMinExtremes" : null,
"showMaxExtremes" : null,
"displayPercentileMarkers" : null,
"percentileValue1" : null,
"percentileValue2" : null,
"percentileValue3" : null,
"percentileValue4" : null,
"resolution" : "1m",
"dataFetchSize" : null,
"percentileLine" : null,
"timeRangeInterval" : null,
"pollingInterval" : null,
"unit" : null
} ],
"warRoom" : false,
"template" : false
}o
```

Import Custom Dashboards and Templates

You can import custom dashboards and templates based on a previously exported JSON definition, which has optionally been modified. Import the definition as an `application/json` content type.



The user making the API call must have permission to create dashboards in the Controller.

Data for this call should be in the form of multipart/form-data. Use UTF-8 URL encoding of the URI before posting; for example, do not replace a space (" ") with "%20" in the URI.



Prior to version 4.1, exported custom dashboards were in XML format. You can import custom dashboards previously exported as XML data into the current Controller; however, custom dashboards can only be exported as JSON data.

Format

POST `/controller/CustomDashboardImportExportServlet`

Example

```
curl -X POST --user user1@customer1:your_password http://demo.appdynamics.com/controller
/CustomDashboardImportExportServlet -F file=@customdashboards.json

{"success":true,"errors":[],"warnings":[],"createdDashboardName":"Uploaded-Analytics-BrowserData"}
```

Export Health Rules from an Application

Returns all health rules in XML format.



The user account you use to make the API call must have permission to view the health rule.

Format

GET /controller/healthrules/application_id?name=health_rule_name

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
application_id	URI	The application name or application ID.	Yes
name	Query	The name of the health rule to export. If not specified, exports all health rules.	No

Example

```
curl --user user1@customer1:your_password http://demo.appdynamics.com/controller/healthrules/38?
name=MyCustomHealthRule
```

```
<health-rules controller-version="004-002-000-000">
  <health-rule>
    <name>MyCustomHealthRule</name>
    <type>BUSINESS_TRANSACTION</type>
    <description/>
    <enabled>true</enabled>
    <is-default>false</is-default>
    <always-enabled>true</always-enabled>
    <duration-min>30</duration-min>
    <wait-time-min>30</wait-time-min>
    <affected-entities-match-criteria>
      <affected-bt-match-criteria>
        <type>ALL</type>
      </affected-bt-match-criteria>
    </affected-entities-match-criteria>
    <warning-execution-criteria>
      <entity-aggregation-scope>
        <type>ANY</type>
        <value>0</value>
      </entity-aggregation-scope>
    <policy-condition>
      <type>leaf</type>
      <display-name>CPU</display-name>
      <condition-value-type>BASELINE_STANDARD_DEVIATION</condition-value-type>
      <condition-value>2.0</condition-value>
      <operator>GREATER_THAN</operator>
      <condition-expression/>
      <use-active-baseline>true</use-active-baseline>
      <metric-expression>
        <type>leaf</type>
        <function-type>VALUE</function-type>
        <value>0</value>
        <is-literal-expression>false</is-literal-expression>
        <display-name>null</display-name>
        <metric-definition>
          <type>LOGICAL_METRIC</type>
          <logical-metric-name>Average CPU Used (ms)</logical-metric-name>
        </metric-definition>
      </metric-expression>
    </policy-condition>
  </warning-execution-criteria>
</health-rule>
</health-rules>
```

Import Health Rules into an Application

You can import health rules defined in an XML file into a business application.

Data for this call should be in the form of multipart/form-data. In the POST request, use UTF-8 URL encoding for the URI; for example, do not replace a space (" ") with "%20" in the URI.

By default, a health rule in the posted data with an identical name to one in the existing configuration does not overwrite the existing health rule. If you want to overwrite an existing health rule of the same name, use the overwrite parameter.

The syntax is the same for importing one health rule configuration or several. All the health rule configurations in the posted XML file are imported.

Format

POST /controller/healthrules/application_id?overwrite=true_or_false

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
application_id	URI	The application name or application ID.	Yes
overwrite	Query	Set to true to have health rules in the posted data overwrite existing health rules with the same name. The default is false.	No

Example

```
curl -X POST --user user1@customer1:your_password http://demo.appdynamics.com/controller/healthrules/38 -F
file=@uploadhealthrule.xml
```

```
Imported 1 health rules successfully.
```

If the health rule exists and you have not enabled the overwrite parameters, you will get the following response:

```
Not importing the health rule: healthrulename since it already exists.
```

Export Transaction Detection Rules

Use this to get all transaction detection rules in XML format. This call returns different types of detection rule configurations when MDS is enabled.

You can get transaction detection rules from a number of different configurations, including the configuration for a specific scope by name.

The URI used by clients for this call should be UTF-8 encoded.

Format

GET /controller/transactiondetection/application_id/[scope_name]/rule_type/[entry_point_type]/[rule_name]
 >> xml_name.xml

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
applicatio n_id	URI	The application name or application ID. It can be found in the URL in the address bar if you click the specified application. It is an Integer value. It will return an error if you do not specify.	Yes

scope_name	URI	<p>The name of the scope from which you are exporting the entry point configuration.</p> <p>The scope name cannot be <code>custom</code> and <code>auto</code>. If the scope name contains a space, type <code>%20</code> instead of space. For example: <code>curl -X GET --user user1@customer1:welcome http://localhost:8080/controller/transactiondetection/10/default%20scope/custom >> result.xml</code></p> <p>It will export all the rules under all the scopes if you do not specify.</p>	No
rule_type	URI	<p>The type of rule to export, from these options:</p> <ul style="list-style-type: none"> • <code>auto</code>: Automatic detection rules • <code>custom</code>: Custom detection rules in the configuration <p>It will return an error if you do not specify.</p>	Yes
entry_point_type	URI	<p>The POJO, Servlet, EJB, Spring Bean, etc. It exports the rules which belong to all the entry point types if you do not specify.</p> <p>Complete List below (Case insensitive):</p> <pre> binaryRemoting servlet strutsAction springBean ejb pojo jms webService aspDotNet dotNetRemoting dotNetWebService wcf dotNetJms poco phpWeb phpMvc phpDrupal phpWordpress phpCli phpWebService nodeJsWeb native nativeSDKWeb nativeDynamicWeb nativeWebServerWeb golangSDKWeb wmbAgentWeb </pre>	No
rule_name	URI	<p>The name of the rule which you are exporting.</p> <p>It will export all the rules under a scope or all the scopes if you do not specify.</p>	No



- The order of the parameters cannot be changed. The order of the parameters should be: `application_id/[scope_name]/rule_type/[entry_point_type]/[rule_name]`.
- It will return an XML file with error content if you use the wrong name(s) in all the parameters.
- Tier information is provided in the scope list.
- If you do not specify the scope when exporting, then you should also not specify it when importing.
- Please check the `server.log` file if you do not get the expected result after exporting.


Scenarios:

- Export the rules from all the scopes.

```
curl -X GET --user user1@customer1:welcome http://localhost:8080/controller/transactiondetection/applicationID/{rule_type} >> {xml_name}.xml
```

Example:

```
curl -X GET --user user1@customer1:welcome http://localhost:8080/controller/transactiondetection/10/custom >> result.xml
```

 If you do not include `scope_name`, the output is divided into three parts under `<mds-config-data>`: `scope-list`, `rule-list`, and `scope-rule-mapping-list`.

```

<mds-data>
  <mds-config-data>
    <scope-list>
      <scope scope-description="" scope-name="scope0"
        scope-type="ALL_TIERS_IN_APP" scope-version="0"/>
      <scope scope-description="" scope-name="scope1"
        scope-type="SELECTED_TIERS" scope-version="0"/>
    </scope-list>
    <rule-list>
      <rule agent-type="APPLICATION_SERVER" enabled="true"
        priority="1"
        rule-description="ruleInScope1_SERVLET"
        rule-name="ruleInScope1_SERVLET" rule-type="TX_MATCH_RULE" version="0">
        <tx-match-rule>{"type":"CUSTOM","txautodiscoveryrule":{"autodiscoveryconfigs":[]},"
txcustomrule":{"type":"INCLUDE","txentrypointtype":"SERVLET","matchconditions":[{"type":"HTTP","
httpmatch":{"uri":{"type":"IS_NOT_EMPTY","matchstrings":[""]},"parameters":[],"headers":[],"cookies":
[]}}],"actions":[],"properties":[]},"agenttype":"APPLICATION_SERVER"}</tx-match-rule>
      </rule>
      <rule agent-type="DOT_NET_APPLICATION_SERVER"
        enabled="true" priority="0"
        rule-description="ASP.NET MVC5 Resource Handler"
        rule-name="ASP.NET MVC5 Resource Handler"
        rule-type="TX_MATCH_RULE" version="0">
        <tx-match-rule>{"type":"CUSTOM","txcustomrule":{"type":"EXCLUDE","txentrypointtype":"
POJO","matchconditions":[{"type":"HTTP","httpmatch":{"parameters":[],"headers":[],"classmatch":{"type":"
MATCHES_CLASS","classnamecondition":{"type":"EQUALS","matchstrings":["System.Web.Optimization.
BundleHandler"],"isnot":false}},"cookies":[]}}],"actions":[{"type":"HTTP_SPLIT","httpsplit":{"}}],"
properties":[]},"agenttype":"DOT_NET_APPLICATION_SERVER"}</tx-match-rule>
      </rule>
      <rule agent-type="APPLICATION_SERVER"
        enabled="true" priority="0"
        rule-description="testPOJO"
        rule-name="testPOJO"
        rule-type="TX_MATCH_RULE" version="0">
        <tx-match-rule>{"type":"CUSTOM","txcustomrule":{"type":"EXCLUDE","txentrypointtype":"
POJO","matchconditions":[{"type":"HTTP","httpmatch":{"parameters":[],"headers":[],"classmatch":{"type":"
MATCHES_CLASS","classnamecondition":{"type":"EQUALS","matchstrings":["System.Web.Optimization.
BundleHandler"],"isnot":false}},"cookies":[]}}],"actions":[{"type":"HTTP_SPLIT","httpsplit":{"}}],"
properties":[]},"agenttype":"APPLICATION_SERVER"}</tx-match-rule>
      </rule>
      <rule agent-type="APPLICATION_SERVER"
        enabled="true" priority="0"
        rule-description="whatever_SERVLET"
        rule-name="whatever_SERVLET"
        rule-type="TX_MATCH_RULE" version="0">
        <tx-match-rule>{"type":"CUSTOM","txcustomrule":{"type":"EXCLUDE","txentrypointtype":"
SERVLET","matchconditions":[{"type":"HTTP","httpmatch":{"parameters":[],"headers":[],"classmatch":
{"type":"MATCHES_CLASS","classnamecondition":{"type":"EQUALS","matchstrings":["System.Web.Optimization.
BundleHandler"],"isnot":false}},"cookies":[]}}],"actions":[{"type":"HTTP_SPLIT","httpsplit":{"}}],"
properties":[]},"agenttype":"APPLICATION_SERVER"}</tx-match-rule>
      </rule>
    </rule-list>
    <scope-rule-mapping-list>
      <scope-rule-mapping scope-name="scope1">
        <rule rule-description="ruleInScope1_SERVLET" rule-name="ruleInScope1_SERVLET"/>
      </scope-rule-mapping>
      <scope-rule-mapping scope-name="scope0">
        <rule rule-description="ASP.NET MVC5 Resource Handler" rule-name="ASP.NET MVC5 Resource
Handler"/>
        <rule rule-description="whatever_SERVLET" rule-name="whatever_SERVLET"/>
        <rule rule-description="testPOJO" rule-name="testPOJO"/>
      </scope-rule-mapping>
    </scope-rule-mapping-list>
  </mds-config-data>
</mds-data>


```

- Export the rules under the specified scope:

```
curl -X GET --user user1@customer1:welcome http://localhost:8080/controller/transactiondetection/applicationID/scope_name/{rule_type} >> {xml_name}.xml
```

Example:

```
curl -X GET --user user1@customer1:welcome http://localhost:8080/controller/transactiondetection/10/scope0/custom >> result.xml
```

 If you include `scope_name` then only `rule-list` is included in the output.

```
<mds-data>
  <mds-config-data>
    <rule-list>
      <rule agent-type="DOT_NET_APPLICATION_SERVER"
        enabled="true" priority="0"
        rule-description="ASP.NET MVC5 Resource Handler"
        rule-name="ASP.NET MVC5 Resource Handler"
        rule-type="TX_MATCH_RULE" version="0">
        <tx-match-rule>{"type":"CUSTOM","txcustomrule":{"type":"EXCLUDE","txentrypointtype":"
ASP_DOTNET","matchconditions":[{"type":"HTTP","httpmatch":{"parameters":[],"headers":[],"classmatch":
{"type":"MATCHES_CLASS","classnamecondition":{"type":"EQUALS","matchstrings":["System.Web.Optimization.
BundleHandler"],"isnot":false}),"cookies":[]}}],"actions":[{"type":"HTTP_SPLIT","httpsplit":{}}],"
properties":[]},"agenttype":"DOT_NET_APPLICATION_SERVER"}</tx-match-rule>
      </rule>
      <rule agent-type="APPLICATION_SERVER"
        enabled="true" priority="0"
        rule-description="whatever_SERVLET"
        rule-name="whatever_SERVLET"
        rule-type="TX_MATCH_RULE" version="0">
        <tx-match-rule>{"type":"CUSTOM","txcustomrule":{"type":"EXCLUDE","txentrypointtype":"
SERVLET","matchconditions":[{"type":"HTTP","httpmatch":{"parameters":[],"headers":[],"classmatch":
{"type":"MATCHES_CLASS","classnamecondition":{"type":"EQUALS","matchstrings":["System.Web.Optimization.
BundleHandler"],"isnot":false}),"cookies":[]}}],"actions":[{"type":"HTTP_SPLIT","httpsplit":{}}],"
properties":[]},"agenttype":"APPLICATION_SERVER"}</tx-match-rule>
      </rule>
      <rule agent-type="APPLICATION_SERVER"
        enabled="true" priority="0"
        rule-description="testPOJO"
        rule-name="testPOJO"
        rule-type="TX_MATCH_RULE" version="0">
        <tx-match-rule>{"type":"CUSTOM","txcustomrule":{"type":"EXCLUDE","txentrypointtype":"
POJO","matchconditions":[{"type":"HTTP","httpmatch":{"parameters":[],"headers":[],"classmatch":{"type":"
MATCHES_CLASS","classnamecondition":{"type":"EQUALS","matchstrings":["System.Web.Optimization.
BundleHandler"],"isnot":false}),"cookies":[]}}],"actions":[{"type":"HTTP_SPLIT","httpsplit":{}}],"
properties":[]},"agenttype":"APPLICATION_SERVER"}</tx-match-rule>
      </rule>
    </rule-list>
  </mds-config-data>
</mds-data>
```

- Export the rules belonging to the specified entry point under all the scopes.

```
curl -X GET --user user1@customer1:welcome http://localhost:8080/controller/transactiondetection/applicationID/{rule_type}/{entry_point_type} >> {xml_name}.xml
```

Example:

```
curl -X GET --user user1@customer1:welcome http://localhost:8080/controller/transactiondetection/10/custom/servlet >> {xml_name}.xml
```

i If you do not include `scope_name` then the output is divided into three parts under `<mds-config-data>`: `scope-list`, `rule-list`, and `scope-rule-mapping-list`.

```
<mds-data>
  <mds-config-data>
    <scope-list>
      <scope scope-description="" scope-name="scope0"
        scope-type="ALL_TIERS_IN_APP" scope-version="0"/>
      <scope scope-description="" scope-name="scope1"
        scope-type="SELECTED_TIERS" scope-version="0"/>
    </scope-list>
    <rule-list>
      <rule agent-type="APPLICATION_SERVER" enabled="true"
        priority="1"
        rule-description="ruleInScope1_SERVLET"
        rule-name="ruleInScope1_SERVLET" rule-type="TX_MATCH_RULE" version="0">
        <tx-match-rule>{"type":"CUSTOM","txautodiscoveryrule":{"autodiscoveryconfigs":[]},"
txcustomrule":{"type":"INCLUDE","txentrypointtype":"SERVLET","matchconditions":[{"type":"HTTP","
httpmatch":{"uri":{"type":"IS_NOT_EMPTY","matchstrings":[""]},"parameters":[],"headers":[],"cookies":
[]}}],"actions":[],"properties":[]},"agenttype":"APPLICATION_SERVER"}</tx-match-rule>
      </rule>
      <rule agent-type="APPLICATION_SERVER"
        enabled="true" priority="0"
        rule-description="whatever_SERVLET"
        rule-name="whatever_SERVLET"
        rule-type="TX_MATCH_RULE" version="0">
        <tx-match-rule>{"type":"CUSTOM","txcustomrule":{"type":"EXCLUDE","txentrypointtype":"
SERVLET","matchconditions":[{"type":"HTTP","httpmatch":{"parameters":[],"headers":[],"classmatch":
{"type":"MATCHES_CLASS","classnamecondition":{"type":"EQUALS","matchstrings":["System.Web.Optimization.
BundleHandler"],"isnot":false}},"cookies":[]}}],"actions":[{"type":"HTTP_SPLIT","httpsplit":{"}}],"
properties":[]},"agenttype":"APPLICATION_SERVER"}</tx-match-rule>
      </rule>
    </rule-list>
    <scope-rule-mapping-list>
      <scope-rule-mapping scope-name="scope1">
        <rule rule-description="ruleInScope1_SERVLET" rule-name="ruleInScope1_SERVLET"/>
      </scope-rule-mapping>
      <scope-rule-mapping scope-name="scope0">
        <rule rule-description="whatever_SERVLET" rule-name="whatever_SERVLET"/>
      </scope-rule-mapping>
    </scope-rule-mapping-list>
  </mds-config-data>
</mds-data>
```

- Export the rules belonging to the specified entry point under the specified scope.

```
curl -X GET --user user1@customer1:welcome http://localhost:8080/controller/transactiondetection
/applicationID/scope_name/{rule_type}/{entry_point_type} >> {xml_name}.xml
```

Example:

```
curl -X GET --user user1@customer1:welcome http://localhost:8080/controller/transactiondetection/10
/scope0/custom/servlet >> {xml_name}.xml
```

```

<mds-data>
  <mds-config-data>
    <rule-list>
      <rule agent-type="APPLICATION_SERVER" enabled="true"
        priority="1"
        rule-description="ruleInScope1_SERVLET"
        rule-name="ruleInScope1_SERVLET" rule-type="TX_MATCH_RULE" version="0">
        <tx-match-rule>{"type": "CUSTOM", "txautodiscoveryrule": {"autodiscoveryconfigs": []}, "
txcustomrule": {"type": "INCLUDE", "txentrypointtype": "SERVLET", "matchconditions": [{"type": "HTTP", "
httpmatch": {"uri": {"type": "IS_NOT_EMPTY", "matchstrings": ["" ]}, "parameters": [], "headers": [], "cookies":
[]}]}, "actions": [], "properties": [], "agenttype": "APPLICATION_SERVER"}</tx-match-rule>
      </rule>
    </rule-list>
  </mds-config-data>
</mds-data>

```

- Export the single rule belonging to the specified entry point under the specified scope.

```

curl -X GET --user user1@customer1:welcome http://localhost:8080/controller/transactiondetection
/applicationID/scope_name/{rule_type}/{entry_point_type}/{rule_name} >> {xml_name}.xml

```

Example:

```

curl -X GET --user user1@customer1:welcome http://localhost:8080/controller/transactiondetection/10
/scope0/custom/servlet/rule_name >> {xml_name}.xml

```

```

<mds-data>
  <mds-config-data>
    <rule-list>
      <rule agent-type="APPLICATION_SERVER" enabled="true"
        priority="1" rule-description=""
        rule-name="ruleInScope1" rule-type="TX_MATCH_RULE" version="0">
        <tx-match-rule>{"type": "CUSTOM", "txautodiscoveryrule": {"autodiscoveryconfigs": []}, "
txcustomrule": {"type": "INCLUDE", "txentrypointtype": "SERVLET", "matchconditions": [{"type": "HTTP", "
httpmatch": {"uri": {"type": "IS_NOT_EMPTY", "matchstrings": ["" ]}, "parameters": [], "headers": [], "cookies":
[]}]}, "actions": [], "properties": [], "agenttype": "APPLICATION_SERVER"}</tx-match-rule>
      </rule>
    </rule-list>
  </mds-config-data>
</mds-data>

```

Import Transaction Detection Rules

Use this to import automatic detection rules in XML format. This call returns different types of detection rule configurations when MDS is enabled.

Importing action will overwrite a rule or add the new rule to the all/specified scopes.

Data for this call should be in the form of multipart/form-data. The URI for this call should be UTF-8 encoded.

Format

```

POST /controller/transactiondetection/application_id/[scope_name]/rule_type/[entry_point_type]/[rule_name] -F
file=@exported_file_name.xml

```

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
----------------	----------------	-------	-----------

application_id	URI	The application name or application ID. It can be found in the URL in address bar if you click the specified application. It is an Integer value. It will return an error if you do not specify.	Yes
scope_name	URI	The name of the scope from which you are importing the entry point configuration. It will import the rules to all the scopes if you do not specify.	No
rule_type	URI	The type of rule to import, from these options: <ul style="list-style-type: none"> • auto: Automatic detection rules • custom: Custom detection rules in the configuration • exclude: Custom exclude rules for transaction detection It will return an error if you do not specify.	Yes
entry_point_type	URI	The POJO, Servlet, EJB, Spring Bean, etc	No
rule_name	URI	The name of the rule which you are importing. It will import all the rules under a scope or all the scopes if you do not specify.	No



- When you import, if the XML file does not have <scope-list>, then you should type the scope name, otherwise, it will fail, and vice versa.
- It will return an error if you use the wrong name(s) in all the parameters.
- If you do not specify the scope when importing, then you should not specify it when exporting.
- Check the `server.log` file if you do not get the expected result after exporting.

Examples

- Import the rule(s) to the application without scopes specified:

```
curl -X POST --user user1@customer1:welcome http://localhost:8080/controller/transactiondetection/{application_id}/{rule_type} -F file=@{exported_file_name}.xml
```

- Import the rule(s) to the application with scopes specified:

```
curl -X POST --user user1@customer1:welcome http://localhost:8080/controller/transactiondetection/{application_id}/{scope_name}/{rule_type} -F file=@{exported_file_name}.xml
```

- For more scenarios to import, see [Export Transaction Detection Rules](#).

Export Policies

You can export policies to a JSON file. Before you export policies, export any actions or health rules with their respective APIs.

Format

```
GET /controller/policies/application_id
```

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
application_id	URI	The application name or application ID.	Yes

Example

```
curl --user user1@customer1:your_password http://demo.appdynamics.com/controller/policies/application_id

[ {
  "applicationName" : "ECommerce-Books",
  "name" : "My Policy",
  "reactorType" : "IMMEDIATE",
  "enabled" : true,
  "batchActionsPerMinute" : true,
  "durationInMin" : 1,
  "eventFilterTemplate" : {
    "applicationName" : "ECommerce-E2E",
    "healthRuleNames" : null,
    "eventTypes" : [ "POLICY_OPEN_WARNING", "POLICY_OPEN_CRITICAL", "POLICY_CONTINUES_WARNING",
"POLICY_CONTINUES_CRITICAL" ],
    "rsdTypes" : null,
    "customEventFilters" : null,
    "specificEntityNamesByType" : null
  },
  "entityFilterTemplates" : [ ],
  "actionWrapperTemplates" : [ {
    "actionTag" : "ops_viewer@acme.com",
    "type" : null,
    "value" : 0,
    "notes" : "Policy: My Policy",
    "entityIdentifierTemplates" : [ ]
  } ]
} ]
```

Import Policies

You can import policies that you exported with the Export Policies API. Before you import policies, import any actions or health rules with their respective APIs.

You can import a policy after modifying the defined parameter(s) and overwrite the existing policy with the updated one.

Format

POST /controller/policies/application_id ?overwrite=true_or_false

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
application_id	URI	The application name or application ID.	Yes
overwrite	Query	Set to true to have updates to a policy overwrite the existing policy with the same name. The default is false	No

Example

```
curl -X POST --user user1@customer1:your_password http://demo.appdynamics.com/controller/policies/38 -F
file=@ImportPolicies.json

{"success":true,"errors":[],"warnings":[]}
```

Example to Overwrite a Policy

```
curl -X POST --user user1@customer1:your_password http://demo.appdynamics.com/controller/policies/38\?
overwrite\=true -F file=@ImportPolicies.json

{"success":true,"errors":[],"warnings":[]}
```

Export Application Analytics Dynamic Service Configuration

The Analytics Dynamic Service is an AppDynamics app agent plugin that performs Analytics client functions for the agent. Enabling the Dynamic Service enables AppDynamics Analytics for an app agent type. You can export the Dynamic Service configuration to back up the configuration or for later import into another Controller.

Format

GET /controller/analyticsdynamicsservice/application_id

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
application_id	URI	The application name or application ID.	Yes
filename	Query	The name of a file to which the configuration will be exported.	No

Example

```
curl -i --user user1@customer1:your_password http://demo.appdynamics.com/controller/analyticsdynamicsservice/10

<analytics-dynamic-service-configurations controller-version="004-003-000-000">
  <analytics-dynamic-service-configuration>
    <override>true</override>
    <agent-type>APP_AGENT</agent-type>
    <enabled>true</enabled>
  </analytics-dynamic-service-configuration>
  <analytics-dynamic-service-configuration>
    <override>true</override>
    <agent-type>DOT_NET_APP_AGENT</agent-type>
    <enabled>true</enabled>
  </analytics-dynamic-service-configuration>
  <analytics-dynamic-service-configuration>
    <override>true</override>
    <agent-type>NODEJS_APP_AGENT</agent-type>
    <enabled>true</enabled>
  </analytics-dynamic-service-configuration>
</analytics-dynamic-service-configurations>
```

Import Application Analytics Dynamic Service Configuration

The Analytics Dynamics Service configuration determines whether AppDynamics Analytics is enabled for an app agent type. You use this API to import a previously exported configuration to another Controller.

Data for this call should be in the form of multipart/form-data.

Format

POST /controller/analyticsdynamicsservice/application_id

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
application_id	URI	The name or ID identifier of the application to which the Analytics Dynamic Service configuration should be applied.	Yes

Example

```
curl -i -X POST --user user1@customer1:your_password http://demo.appdynamics.com/controller/analyticsdynamicservice/10 -F file=@dynamicservice.xml
```

The following example shows sample contents of the `dynamicservice.xml` file. Notice that the `agent-type` element indicates the type of app server agent to which the enabled state of the dynamics service applies. The `APP_AGENT` type represents the Java Agent, the `DOT_NET_APP_AGENT` the .NET Agent, and so on.

```
<analytics-dynamic-service-configurations controller-version="004-003-000-000">
  <analytics-dynamic-service-configuration>
    <override>true</override>
    <agent-type>APP_AGENT</agent-type>
    <enabled>>false</enabled>
  </analytics-dynamic-service-configuration>
  <analytics-dynamic-service-configuration>
    <override>true</override>
    <agent-type>DOT_NET_APP_AGENT</agent-type>
    <enabled>>false</enabled>
  </analytics-dynamic-service-configuration>
  <analytics-dynamic-service-configuration>
    <override>true</override>
    <agent-type>NODEJS_APP_AGENT</agent-type>
    <enabled>true</enabled>
  </analytics-dynamic-service-configuration>
</analytics-dynamic-service-configurations>
```


Database Visibility API

This page describes the Database Visibility API methods you can use to get, create, update, and delete Database Visibility Collectors.

Include the following headers for all Database Visibility API requests:

```
Accept: application/json; Content-type: application/json
```

JSON is currently the only supported format.

 Database Visibility uses infrastructure-based licensing, where there is no direct correlation between the database collector and license usage. Therefore for Controller version ≥ 21.2 , the `licensesUsed` parameter always returns `-1`.

Get All Collectors

```
GET /controller/rest/databases/collectors
```

Get a Specific Collector

```
GET /controller/rest/databases/collectors/{configurationId}
```

Create a Collector

```
POST /controller/rest/databases/collectors/create
```

The JSON you send must contain the relevant Collector information. The required fields describing the Collector vary based on the type of database. See [U I Collector versus JSON Collector Configuration Field Names](#)

Example JSON Request

```
{
  "type": "MYSQL",
  "name": "localdocker_dbagent-MySQLCollector",
  "hostname": "mysql",
  "port": "3306",
  "username": "root",
  "password": "appdynamics_redacted_password",
  "enabled": true,
  "excludedSchemas": null,
  "databaseName": null,
  "failoverPartner": null,
  "connectAsSysdba": false,
  "useServiceName": false,
  "sid": null,
  "customConnectionString": null,
  "enterpriseDB": false,
  "useSSL": false,
  "enableOSMonitor": false,
  "hostOS": null,
  "useLocalWMI": false,
```

```
"hostDomain":null,
"hostUsername":null,
"hostPassword":"","
"dbInstanceIdentifier":null,
"region":null,
"certificateAuth":false,
"removeLiterals":true,
"sshPort":0,
"agentName":"localdocker_dbagent",
"dbCyberArkEnabled":false,
"dbCyberArkApplication":null,
"dbCyberArkSafe":null,
"dbCyberArkFolder":null,
"dbCyberArkObject":null,
"hwCyberArkEnabled":false,
"hwCyberArkApplication":null,
"hwCyberArkSafe":null,
"hwCyberArkFolder":null,
"hwCyberArkObject":null,
"orapkiSslEnabled":false,
"orasslClientAuthEnabled":false,
"orasslTruststoreLoc":null,
"orasslTruststoreType":null,
"orasslTruststorePassword":"","
"orasslKeystoreLoc":null,
"orasslKeystoreType":null,
"orasslKeystorePassword":"","
"ldapEnabled":false,
"customMetrics":null,
"subConfigs":[
  {
    "type":"MYSQL",
    "name":"localdocker_dbagent-MySQLCollector sub-collector",
    "hostname":"mysql-remote",
    "port":"3388",
    "username":"root",
    "password":"different-password",
    "enabled":true,
    "excludedSchemas":null,
    "databaseName":null,
    "failoverPartner":null,
    "connectAsSysdba":false,
    "useServiceName":false,
    "sid":null,
    "customConnectionString":null,
    "enterpriseDB":false,
    "useSSL":false,
    "enableOSMonitor":false,
    "hostOS":null,
    "useLocalWMI":false,
    "hostDomain":null,
    "hostUsername":null,
    "hostPassword":"","
    "dbInstanceIdentifier":null,
    "region":null,
    "certificateAuth":false,
    "removeLiterals":true,
    "sshPort":0,
    "agentName":"localdocker_dbagent",
    "dbCyberArkEnabled":false,
    "dbCyberArkApplication":null,
    "dbCyberArkSafe":null,
    "dbCyberArkFolder":null,
    "dbCyberArkObject":null,
    "hwCyberArkEnabled":false,
    "hwCyberArkApplication":null,
    "hwCyberArkSafe":null,
    "hwCyberArkFolder":null,
    "hwCyberArkObject":null,
    "orapkiSslEnabled":false,
    "orasslClientAuthEnabled":false,
```

```
        "orasslTruststoreLoc":null,  
        "orasslTruststoreType":null,  
        "orasslTruststorePassword":"","  
        "orasslKeystoreLoc":null,  
        "orasslKeystoreType":null,  
        "orasslKeystorePassword":"","  
        "ldapEnabled":false,  
        "customMetrics":null  
    }  
]  
}
```

extraProperties: To configure the frequency for sampling queries from the database (except Cassandra), you can use the `extraProperties` parameter in the JSON request payload. The following JSON sample can be used in the request payload to configure the sampling interval:

```
{  
  "type": "POSTGRESQL",  
  "agentName": "UpgradeTest204",  
  "name": "SamplingInterval",  
  "hostname": "ec2-54-202-140-213.us-west-2.compute.amazonaws.com",  
  "port": "5432",  
  "username": "postgres",  
  "password": "Appd123",  
  "removeLiterals": "true",  
  "enableOSMonitor": "true",  
  "hostOS": "LINUX",  
  "sshPort": "22",  
  "hostUsername": "ec2-user",  
  "hostPassword": "",  
  "certificateAuth": true,  
  "enabled": "true",  
  "enterpriseDB": "false",  
  "extraProperties": [  
    {  
      "key": "dbagent.sampling.interval",  
      "value": "10",  
      "sensitive": false  
    }  
  ]  
}
```

The following JSON key-value pair is used in `extraProperties` for configuring the interval:

key: `dbagent.sampling.interval`

value: positive integer

The value can be 1, 2, 5, 10, 20, or 30.

You can configure this property through the agent. See [Configure the Agent Settings for Monitoring Database](#).

Update a Collector

1. Make a GET request for the collector that you want to update.
2. Copy the JSON response body that is returned by the GET request to a text editor, and modify the fields that you want to update.
3. Make a POST request for the collector that you want to update, and include the updated JSON.

```
POST /controller/rest/databases/collectors/update
```

Example JSON Request

```
{  
  "id":1,
```

```
"type": "MYSQL",
"name": "localdocker_dbagent-MySQLCollector",
"hostname": "mysql",
"port": "3306",
"username": "root",
"password": "appdynamics_redacted_password",
"enabled": true,
"excludedSchemas": null,
"databaseName": null,
"failoverPartner": null,
"connectAsSysdba": false,
"useServiceName": false,
"sid": null,
"customConnectionString": null,
"enterpriseDB": false,
"useSSL": false,
"enableOSMonitor": false,
"hostOS": null,
"useLocalWMI": false,
"hostDomain": null,
"hostUsername": null,
"hostPassword": "",
"dbInstanceIdentifier": null,
"region": null,
"certificateAuth": false,
"removeLiterals": true,
"sshPort": 0,
"agentName": "localdocker_dbagent",
"dbCyberArkEnabled": false,
"dbCyberArkApplication": null,
"dbCyberArkSafe": null,
"dbCyberArkFolder": null,
"dbCyberArkObject": null,
"hwCyberArkEnabled": false,
"hwCyberArkApplication": null,
"hwCyberArkSafe": null,
"hwCyberArkFolder": null,
"hwCyberArkObject": null,
"orapkiSslEnabled": false,
"orasslClientAuthEnabled": false,
"orasslTruststoreLoc": null,
"orasslTruststoreType": null,
"orasslTruststorePassword": "",
"orasslKeystoreLoc": null,
"orasslKeystoreType": null,
"orasslKeystorePassword": "",
"ldapEnabled": false,
"customMetrics": null,
"subConfigs": [
  {
    "id": 2,
    "type": "MYSQL",
    "name": "localdocker_dbagent-MySQLCollector sub-collector",
    "hostname": "mysql",
    "port": "3388",
    "username": "root",
    "password": "appdynamics-redacted-password",
    "enabled": true,
    "excludedSchemas": null,
    "databaseName": null,
    "failoverPartner": null,
    "connectAsSysdba": false,
    "useServiceName": false,
    "sid": null,
    "customConnectionString": null,
    "enterpriseDB": false,
    "useSSL": false,
    "enableOSMonitor": false,
    "hostOS": null,
    "useLocalWMI": false,
    "hostDomain": null,
```




```

    "hostUsername":null,
    "hostPassword":"","
    "dbInstanceIdentifier":null,
    "region":null,
    "certificateAuth":false,
    "removeLiterals":true,
    "sshPort":0,
    "agentName":"localdocker_dbagent",
    "dbCyberArkEnabled":false,
    "dbCyberArkApplication":null,
    "dbCyberArkSafe":null,
    "dbCyberArkFolder":null,
    "dbCyberArkObject":null,
    "hwCyberArkEnabled":false,
    "hwCyberArkApplication":null,
    "hwCyberArkSafe":null,
    "hwCyberArkFolder":null,
    "hwCyberArkObject":null,
    "orapkiSslEnabled":false,
    "orasslClientAuthEnabled":false,
    "orasslTruststoreLoc":null,
    "orasslTruststoreType":null,
    "orasslTruststorePassword":"","
    "orasslKeystoreLoc":null,
    "orasslKeystoreType":null,
    "orasslKeystorePassword":"","
    "ldapEnabled":false,
    "customMetrics":null
  }
]
}

```

The JSON you send must contain all the details of the existing collector with only the fields that you want to modify changed. To ensure you have all the fields, use the [Get a Specific Collector](#) call.

To add a new sub-collector to an existing collector, provide the sub-collector details without the `id` field.

 To configure the interval for sampling queries, refer to the `extraProperties` parameter in the JSON request payload as mentioned in [extraProperties](#) under [Create a Collector](#).

Delete a Specific Collector

```
DELETE /controller/rest/databases/collectors/{configurationId}
```

Example Delete Request

```
DELETE /controller/rest/databases/collectors/{1}
```

Batch Delete Multiple Collectors

```
POST /controller/rest/databases/collectors/batchDelete
```

Send an array of the configuration Ids of the Collectors.

Below is an example of a batch delete command.

```
curl --user {username}@{account_name}:{password} -H "Accept: application/json" -H "Content-type: application/json" -X POST -d '[1,2,3]' {Controller_URL}/controller/rest/databases/collectors/batchDelete
```

Get All Monitored Database Servers

```
GET /controller/rest/databases/servers
```

Example

```
curl --user {username}@{account_name}:{password} {Controller_URL}/controller/rest/databases/servers
```

The output is a list of database servers and their details.

Get Database Server Details

```
GET /controller/rest/databases/servers/{dbserver_id}
```

Example

```
curl --user {username}@{account_name}:{password} {Controller_URL}/controller/rest/databases/servers/{dbserver_id}
```

The output contains a list of the database's details, including name, node ID, and database type.

Get all Database Agent Events

```
GET /controller/rest/applications/_dbmon/events
```

For a list of query string parameters, see [Retrieve Event Data](#).

Example

```
curl --user {username}@{account_name}:{password} {Controller_URL}/controller/rest/applications/_dbmon/events?time-range-type=BEFORE_NOW&duration-in-mins=30&event-types=%20AGENT_EVENT,DB_SERVER_PARAMETER_CHANGE&severities=INFO,WARN,ERROR
```

The output gives you a list of events. For each event element, you can determine the node that the event is mapped to by looking for the entity-definition element.

Get all Database Monitoring Application Nodes

```
GET /controller/rest/applications/_dbmon/nodes
```

Example

```
curl --user {username}@{account_name}:{password} {Controller_URL}/controller/rest/applications/_dbmon/nodes
```

UI Collector versus JSON Collector Configuration Field Names

Use the table below to ensure you use the correct field names for your API calls. The Collector configuration field names are described in [Configure the Database Agent to Monitor Server Hardware](#) and [Add Database Collectors](#).

Section	UI Collector Configuration Field Name	JSON Collector Configuration Field Name
		id (AppDynamics assigns this ID to the Collector when you configure the Collector. You need this ID when doing a batch delete.)
	Database Type	type
	Database Agent	agentName
	Database	name
Connection Details	Hostname/IP Address	hostname
	EnterpriseDB	enterpriseDB
	Failover Partner	failoverPartner
	Listener Port	port
	Custom JDBC Connection String	customConnectionString
	Use Service Name	useServiceName
	SID or SERVICE_NAME	sid
	Connect as a sysdba	connectAsSysdba
	Username	username
	Password	password
	Logging Enabled	
Hardware Monitoring	Monitor Operating System	enableOSMonitor
	Operating System	hostOS
	Use Local WMI	useLocalWMI
	Domain	hostDomain
	SSH Port	sshPort
	Use certificate	certificateAuth
	Username	hostUsername
	Password	hostPassword



SSL field

In addition to JSON Configuration Fields, there is the SSL field. SSL is a configurable property for the Database Agent. If the Database Agent has been configured to use SSL, then you must also provide the SSL field and its value in your Database Visibility API calls.

Get Health Rule Violations for a Collector

```
GET /controller/rest/databases/servers/healthrule-violations/<server-id>
```

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
server_id	URI	Provide the database server name or ID.	Yes
time-range-type	Query	Possible values are: BEFORE_NOW To use the "BEFORE_NOW" option, you must also specify the "duration-in-mins" parameter. BEFORE_TIME To use the "BEFORE_TIME" option, you must also specify the "duration-in-mins" and "end-time" parameters. AFTER_TIME To use the "AFTER_TIME" option, you must also specify the "duration-in-mins" and "start-time" parameters. BETWEEN_TIMES To use this option, you must also specify the "start-time" and "end-time" parameters. The "BETWEEN_TIMES" range includes the start-time and excludes the end-time.	Yes
duration-in-mins	Query	Duration (in minutes) to return the metric data.	If time-range-type is BEFORE_NOW, BEFORE_TIME, or AFTER_TIME
start-time	Query	Start time (in milliseconds) from which the metric data is returned.	If time-range-type is AFTER_TIME or BETWEEN_TIMES
end-time	Query	End time (in milliseconds) until which the metric data is returned.	If time-range-type is BEFORE_TIME or BETWEEN_TIMES
output	Query	HTTP Request parameter included as part of the URL to change the output format. Valid values are XML (default) or JSON.	No

Example

```
curl --user {username}@{account_name}:{password} {Controller_URL}/controller/rest/databases/servers/healthrule-violations/<server-id>?time-range-type=BEFORE_NOW&duration-in-mins=<required_duration>
```

Analytics Events API

AppDynamics Analytics provides built-in support for collecting analytics data from various types of sources, such as agent-instrumented Java applications, .NET applications, browser applications, and more. The Analytics Events API supplements built-in analytics data sources with your custom data sources and event types.

In addition to the transaction events published by the app agents, custom events collected by the Analytics Events API are metered.



Publishing custom events requires Transaction Analytics licensing. Transaction Analytics license units determine the limit on the volume of custom events you can publish.

About the Analytics Events API

In Analytics, an event encapsulates a unit of analytics data. In APM, for example, each event corresponds to a method or service invocation, whether it be an entry point service or downstream service.

With the Analytics API, you define the structure of your own custom event in the data store, capture the event records as they occur in your custom source, and send them to the Events Service, the data store for Analytics. Once your data is in the Events Store, users can query your data through the Controller UI or the Analytics Events API.

Analytics Events API uses a shared key to authenticate clients to the Events Service. As a Controller or Analytics Administrator, you can generate API keys from the Controller UI. See [Manage API Keys](#).



A Transaction Analytics license is required to use the Events Service API. The same licensing model that applies to business transactions for custom events (based on the number of events per unit/day) applies to the API.

Addressing the Events Service Data Store

Unlike most AppDynamics REST APIs, which are presented at the Controller, you access the Analytics Events API by addressing the Events Service instance in the AppDynamics platform.

You address the Events Service at one of the following URLs:

For an on-premises Events Service, address the Events Service instance host (or more likely, the virtual IP presented by a load balancer for the Events Service cluster). Use the primary default listening port for the Events Service, 9080.

Calls to the Analytics Events API need to specify the `<global_account_name>` for the Controller account being addressed, and the `<api_key>` generated by the administrator for this client. The API expects the values as headers, property-value pairs that are separated by a colon. As cURL arguments, for example, the values would be passed with curl through the `-H` or `--header` option as follows:

```
-H "X-Events-API-AccountName:<global_account_name>" -H "X-Events-API-Key:<api_key>"
```

You can get the global account name to use from the [License page](#) in the Controller UI. The API keys are described in [Manage API Keys](#).

The content type, also as a cURL argument, is:

```
-H "Content-type: application/vnd.appd.events+json;v=2"
```

AppDynamics strongly recommends the use of SSL/HTTPS to access the API. Otherwise, the API key is sent in plain text.



For security reasons, the Analytics Events API, by default, does not accept cross-origin HTTP requests. For example, from links embedded directly in web pages.

Data Format

The Analytics Events API takes events as JSON-formatted name-value pair data.

Before sending data that conforms to a custom events schema, you need to define the data structure for the custom schema. The Events Service matches incoming events data to the appropriate schema.

Supported Data Types

- Boolean
- Date – Supported time formats include:
 - ISO 8601 format: yyyy-MM-dd'T'HH:mm:ss.SSSZZ.
 - UNIX epoch date format: A 13-digit number representing the number of seconds/milliseconds since UNIX epoch time (Jan 1, 1970). For example, (GMT): Mon, 17 Apr 2017 23:46:22 GMT would be 1492472782000.
- Float
- Integer
- Object
- String

Naming Restrictions

Custom event names and field names must conform to the following:

- Contain only a-z, A-Z, _ (underscore), 0-9.
- Names can not start with a number.

Timestamp Fields

Two implicit timestamp fields are automatically added to custom schemas:

- `eventTimestamp`
- `pickupTimestamp`

The `eventTimestamp` field represents the time an event occurred. An API client can specify a value for the timestamp field when it creates an event. If it does not, the Analytics Events API uses the same value for `eventTimestamp` as it uses for another implicit field, `pickupTimestamp`. The `pickupTimestamp` field, which is always populated by the Events Service, represents the time the event was received by the Events Service.

When configuring a milestone in Business Journeys, you need to supply a date in the `eventTimestamp` field in order for the event to register. In order to use Custom Events to define Business Journey, the custom events should send the `eventTimestamp` field. If not, the Business Journeys will not work.

AppDynamics uses another timestamp, `eventCompletionTimestamp`, which is not automatically added to custom schemas. The `eventCompletionTimestamp` field represents the time an event ends. Generally, AppDynamics uses this field internally to accurately report long-running events.

You can express all timestamp fields using ISO 8601 or UNIX epoch time (64-bit milliseconds) format.

Example API Call Flow

The following steps take you through an on-premises API call workflow for using the Analytics Events API. The steps show cURL examples for creating a schema, publishing an event to that schema, and then querying the event.



For SaaS deployments, replace the value for the URL and port in the examples (`<events_service_endpoint>:9080`) to your SaaS URL.

1. Define the schema by associating field names with data types. For example, the following defines a Purchase event type:

```
curl -X POST "<events_service_endpoint>:9080/events/schema/myProducts" -H"X-Events-API-AccountName: customer1_1234-567a-bccc-123" -H"X-Events-API-Key:a123b456-c789-1d23-e456-nnn" -H"Content-type: application/vnd.appd.events+json;v=2" -d '{"schema": {"id": "string", "productBrand": "string", "userRating": "integer", "price": "float", "productName": "string", "description": "string" } }'
```

2. Publish an event based on the schema you created:

```
curl -X POST "<events_service_endpoint>:9080/events/publish/myProducts" -H"X-Events-API-AccountName: customer1_1234-567a-bccc-123" -H"X-Events-API-Key:a123b456-c789-1d23-e456-nnn" -H"Content-type: application/vnd.appd.events+json;v=2" -d ' [{"id": "5653b879ab33a", "productBrand": "ACME", "userRating": 3, "price": 2006.41, "productName": "Watch", "description": "new watch"}, {"id": "5653b879700", "productBrand": "Widget", "userRating": 1, "price": 3800.13, "productName": "Watch", "description": "2015 watch"} ]'
```

3. Query the event data:

```
curl -X POST "http://<events_service_endpoint>:9080/events/query" -H"X-Events-API-AccountName: customer1_7xxx-467a-bccc-xxx" -H"X-Events-API-Key:a123b456-c789-1d23-e456-nnn" -H"Content-type: application/vnd.appd.events+text;v=2" -d 'SELECT * FROM myProducts'
```

If including fields with ADQL keywords, enclose the keywords in single quotes. These keywords include, for example, `between`, `in`, `select`, and others.

For a single query request, use this content type:

```
-H"Content-type: application/vnd.appd.events+text;v=2"
```

In a multi-query request, the queries are passed as JSON body text. In this case, use the following content type header:

```
-H"Content-type: application/vnd.appd.events+json;v=2"
```

Custom Event Ingestion Limits

Controller ingestion of custom events has the following limits:

- Fields: 255 maximum per event type
- String attributes: 4 kb maximum length
- Batch total count: 10,000 events per call
- Batch total size: 5 Mb maximum per call
- Max custom events for an account: 20

Custom Events Limit Increase



Custom events limit increases are available for SaaS Events Service version 4.5.13 and later. On-premises Events Services cannot exceed a maximum of 1500 custom field events.

By default, the Events Service allows you to create up to 1500 custom fields. If you reach 80% capacity of custom fields (1200 fields), the maximum field limit increases by 500 fields at the next index rollover.

For example, if you reach 1400 custom fields, your maximum field limit will increase from 1500 to 2000 fields. If you later reach 1800 custom fields, and maximum increases to 2500 fields.

You can create an absolute maximum of 3000 custom fields. Reaching or exceeding the maximum fields could result in lag or outages.

Publish Events

The Publish Events API call takes an array of events and stores them in the Events Service storage. The data must comply with an existing schema. A single request cannot publish to multiple event types.

If the event data doesn't match an event schema, the Events Service makes a best-effort attempt to match the data to the schema and returns a 400 bad request if unsuccessful.

Format

Query Params

N/A

Path Parameters

Name	Description
accountId	Account ID
schemaName	Event schema name

Headers

Name	Description
X-Events-API-AccountName	The global account name, as shown in the Controller UI License page.
X-Events-API-Key	The Analytics API key. See Manage API Keys
Content-Type	The <code>Content-Type</code> of the request body. The default is <code>application/vnd.appd.events+json;v=2</code> which also versions the resource representation (<code>v=2</code>).

Example SaaS Publish

Error Codes

Error Code	Description
400	The given request was invalid.
401	The given authentication information provided in the authorization header was invalid.
404	No event type could be found for this account.
406	The <code>Accept</code> header was not <code>application/vnd.appd.events+json;v=2</code> .
413	The request body is larger than the max allowed size.
415	The <code>Content-Type</code> header was not <code>application/vnd.appd.events+json;v=2</code> .
429	Too many requests. Returned when <code>account</code> or <code>event</code> reaches limits.

Create Event Schema

Use this API to create your own event schema. The schema defines the overall structure of an event type by field and type.

You only need to use this API if the event you are uploading does not match an existing schema for first-class event types (such as logs or transactions). Events that conform to an existing schema automatically match that schema. Review the supported [data types](#) and [naming restrictions](#) described prior to this topic.

Format

Path Params

Name	Description
------	-------------

accountId	Account ID
schemaName	Event schema name

Query Params

N/A

Headers

Name	Description
X-Events-API-AccountName	The global account name, as shown in the Controller UI License page.
X-Events-API-Key	The Analytics API key. See Manage API Keys
Accept	The Content-Type of the response body. The supported value is <code>application/vnd.appd.events+json;v=2</code> .
Content-type	The Content-Type of the request body. The default is <code>application/vnd.appd.events+json;v=2</code> which also versions the resource representation (v=2).

Example SaaS Create

Retrieve Event Schema

Use this API to retrieve an existing event schema.

Format

Path Params

Name	Description
accountId	Account ID
schemaName	Event schema name

Query Params

N/A

Headers

Name	Description
X-Events-API-AccountName	The global account name, as shown in the Controller UI License page.
X-Events-API-Key	The Analytics API key. See Manage API Keys
Accept	The Content-Type of the response body. The supported value is <code>application/vnd.appd.events+json;v=2</code> .

Example SaaS Retrieve

Update Event Schema

Use this API to update an existing event schema by field. The request body defines the updates to be applied to the event schema.

As shown in the following example, you specify each field update action as a named section in the request body. The actions are represented by these fields:

- Add field
- Rename field

For the Add field definition, you need to specify the data format for the new field, as you would when [creating the event schema](#).

The response to this call should be the complete event schema as modified.

Format

Path Parameters

Name	Description
accountId	Account id
schemaName	Event schema name

Query Params

N/A

Headers

Name	Description
X-Events-API-AccountName	The global account name, as shown in the Controller UI License page.
X-Events-API-Key	The Analytics API key. See Manage API Keys .
Accept	The Content-Type of the response body. The supported value is <code>application/vnd.appd.events+json;v=2</code> .
Content-type	The Content-Type of the request body. The default is <code>application/vnd.appd.events+json;v=2</code> which also versions the resource representation (v=2).

Example SaaS Update

Delete Event Schema

Use this API to delete an existing event schema.

Format

Path Params

Name	Description
accountId	Account id
eventType	Event schema name

Query Params

N/A

Headers

Name	Description
X-Events-API-AccountName	The global account name, as shown in the Controller UI License page.
X-Events-API-Key	The Analytics API key. See Manage API Keys
Accept	The <code>Content-Type</code> of the response body. The following is the supported value: <code>application/vnd.appd.events+json;v=2</code>

Example SaaS Delete Request

```
DELETE http://analytics.api.example.com/events/schema/{schemaName} HTTP/1.1
X-Events-API-AccountName:<global_account_name>
X-Events-API-Key:<api_key>
Accept: application/vnd.appd.events+json;v=2
```

Querying Events

When querying analytics events data, the following applies:

- Every Events Service API has a limit of 200 searches per minute by each account on each event type.
- The Multi-Query Events API is limited to twenty queries per HTTP request.
- The Analytics Query API can return a maximum of 10,000 results. If you would like to retrieve and paginate over the data, you can use the scroll mode. Scroll mode is limited to 1,000 results per batch.



Scroll mode cannot be used in Query Events (Multiple Queries).

- Limits work differently for aggregation and non-aggregation queries. Because we use the limits specified in the ADQL query as the bucket count limit, it is not possible to also use it as the overall result count limit. Therefore, the URL parametric limit is used for the overall limit. In the case of non-aggregation queries, there is no bucket limit, so the limit specified in the ADQL query is taken as the row count limit and the URL parametric limit becomes the second place to look for it if the ADQL query does not specify a limit.
 - Aggregation queries: the total returned row count is limited by the limit in the URL query parameter, and is not directly related to the limits specified in the ADQL query statement itself. The limits in the ADQL query apply only to bucket counts in aggregations.
 - Non-aggregation queries: If `LIMIT` is not specified in the `SELECT` statement, the value specified in the URL query parameter is used. If the limit query parameter is also absent, the default is 100.

Query Events (Single Query)


This API can be used either as a simple text-formatted query or as a JSON-formatted query. The JSON-formatted query can accommodate multiple queries per call and is described in [Query Events \(Multiple Queries\)](#).

An event type might search against multiple event types. Therefore, the event type is not provided in the URL path or as a query parameter, but as part of the ADQL query provided in the request body itself. Your ADQL queries must adhere to the syntax described in the [ADQL Reference](#).

This section describes the single query form for querying events.

Format

Query Params

Name	Description
start	<p>Filter results based on the minimum event timestamp, specified in ISO 8601 time (https://en.wikipedia.org/wiki/ISO_8601) or Unix time (http://en.wikipedia.org/wiki/Unix_time). If not specified, then the default is no minimum timestamp filtering. Note that data returned will always be limited by the data retention.</p> <p>Specify the time in combined UTC date and time format or epoch milliseconds.</p> <p>Start time is inclusive of limiting timestamps.</p>
end	<p>Filter results based on the maximum event timestamp, specified in ISO 8601 time (https://en.wikipedia.org/wiki/ISO_8601) or Unix time (http://en.wikipedia.org/wiki/Unix_time). If not specified, then the default is no maximum timestamp filtering.</p> <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;">  Data returned will always be limited by the data retention. </div> <p>Specify the time in combined UTC date and time format or epoch milliseconds.</p> <p>End time is inclusive of limiting timestamps.</p>
limit	Limits the number of results returned. The default value is 100. The upper limit on the results that can be fetched is 1,000.
mode	<p>The default mode is none. You can use the scroll mode to fetch bulk data and paginate over 10,000 ADQL results. Unless a limit is specified in the query, the API enables the Events Service to fetch beyond the maximum limit. The default mode supports aggregation but the scroll mode does not support aggregation or math operations. Order by queries is supported in scroll mode.</p> <p>Scroll queries returns results in batches. Every request response contains results along with a <code>scrollid</code>, which needs to be passed in the next request to fetch the next batch of results.</p>

Headers


Name	Description
X-Events-API-AccountName	The global account name, as shown in the Controller UI License page.
X-Events-API-Key	The Analytics API key. See Manage API Keys .
Accept	The <code>Content-Type</code> of the response body. The supported value is <code>application/vnd.appd.events+json;v=2</code> .
Content-type	The <code>Content-Type</code> of the request body. The default is <code>application/vnd.appd.events+json;v=2</code> which also versions the resource representation (<code>v=2</code>).

Example SaaS Query

Query Events (Multiple Queries)

Use this API to execute multiple queries against a particular account and event type in parallel. A query event that specifies multiple queries does so by including multiple ADQL queries in the body of the request. Your ADQL queries must adhere to the syntax described in the [ADQL Reference](#).

Using queries in this form takes advantage of certain backend optimizations in query performance. Query filter criteria, such as time range and limit, can be overridden by each inner query.

 The Multi-Query Events API is limited to twenty queries per HTTP request.

Format

Path Params

None

Query Params

Name	Description
start	<p>Filter results based on the minimum event timestamp, specified in ISO 8601 time or Unix time. If not specified, then the default is no minimum timestamp filtering.</p> <p>Specify the time in combined UTC date and time format or epoch milliseconds.</p> <p>Start time is inclusive of limiting timestamps.</p>
end	<p>Filter results based on the maximum event timestamp, specified in ISO 8601 time or Unix time. If not specified, then the default is no maximum timestamp filtering.</p> <p>Specify the time in combined UTC date and time format or epoch milliseconds.</p> <p>End time is inclusive of limiting timestamps.</p>
limit	Limits the number of results returned. The default value is 100. The upper limit on the results that can be fetched is 10,000.

Headers

Name	Description
X-Events-API-AccountName	The global account name, as shown in the Controller UI License page.
X-Events-API-Key	The Analytics API key. See Manage API Keys .
Accept	The <code>Content-Type</code> of the response body. The supported value is <code>application/vnd.appd.events+json;v=2</code> .
Content-type	The <code>Content-Type</code> of the request body. The default is <code>application/vnd.appd.events+json;v=2</code> which also versions the resource representation (<code>v=2</code>).

Payload

Field	Description
label	(Optional) Friendly name to identify the query.
query	ADQL query to execute.
start	(Optional) Overrides the start parameter value provided as a query parameter.
end	(Optional) Overrides the end parameter value provided as a query parameter.
limit	(Optional) Overrides the limit provided as a query parameter.

Example SaaS Multiple Query

RBAC API

This page describes the Role-Based Access Control (RBAC) API methods you can use to manage users, groups, and roles for AppDynamics features. These operations provide more flexibility and automation with RBAC management. Relationship settings such as `addUserToGroup` and `removeUserToGroup` are supported.



You must be the account owner or have **administer user** permissions to use the RBAC API.

SAML and LDAP user creations are not supported. You can only create permissions through the UI. See [Manage Users and Groups](#).

Create User

Use this to create users in the current account. The request payload should specify `name`, `security_provider_type`, `displayName`, and `password`. The user ID is generated by the server.

Format

```
POST /controller/api/rbac/v1/users
```

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
<code>name</code>	Request payload		Yes
<code>security_provider_type</code>	Request payload	"INTERNAL"	Yes
<code>displayName</code>	Request payload		Yes
<code>password</code>	Request payload		Yes

Example

```
curl -H "Content-Type: application/vnd.appd.cntrl+json;v=1" -X POST -d '{"name": "user10",  
"security_provider_type": "INTERNAL", "displayName": "user10", "password": "welcome"}' -u user1@customer1  
http://localhost:8080/controller/api/rbac/v1/users
```

Response status code 200 :

```
{  
  "id": 10,  
  "name": "user10",  
  "displayName": "user10",  
  "security_provider_type": "INTERNAL"  
}
```

Get User by ID

Use this to get full user information, including a summary of affiliated groups and roles, using the `userId` in the current account.

Format


```
GET /controller/api/rbac/v1/users/userId
```

Example

```
curl -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/users/4
```

Response status code 200 :

```
{
  "id": 4,
  "name": "user1",
  "email": "user1@customer1.com",
  "displayName": "user1",
  "security_provider_type": "INTERNAL",
  "roles":
    [
      {"id": 17, "name": "Workflow Executor"},
      {"id": 18, "name": "DB Monitoring Administrator"},
      {"id": 19, "name": "DB Monitoring User"},
      {"id": 20, "name": "Analytics Administrator"},
      {"id": 21, "name": "Server Monitoring Administrator"},
      {"id": 22, "name": "Server Monitoring User"},
      {"id": 23, "name": "Universal Agent Administrator"},
      {"id": 24, "name": "Universal Agent User"},
      {"id": 13, "name": "Account Administrator"},
      {"id": 14, "name": "Administrator"},
      {"id": 15, "name": "User"},
      {"id": 16, "name": "Dashboard Viewer"}
    ],
  "groups":
    [
      {"id": 1, "name": "group_01"}
    ]
}
```

 This API only supports retrieving internal users and not SAML or LDAP.

Get User by Name

Use this to get full user information, including a summary of affiliated groups and roles, using the `userName` in the current account.

Format

```
GET /controller/api/rbac/v1/users/name/name
```

Example

```
curl -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/users/name/user1

Response status code 200 :
{
  "id": 4,
  "name": "user1",
  "email": "user1@customer1.com",
  "displayName": "user1",
  "security_provider_type": "INTERNAL",
  "roles":
  [
    {"id": 17,"name": "Workflow Executor"},
    {"id": 18,"name": "DB Monitoring Administrator"},
    {"id": 19,"name": "DB Monitoring User"},
    {"id": 20,"name": "Analytics Administrator"},
    {"id": 21,"name": "Server Monitoring Administrator"},
    {"id": 22,"name": "Server Monitoring User"},
    {"id": 23,"name": "Universal Agent Administrator"},
    {"id": 24,"name": "Universal Agent User"},
    {"id": 13,"name": "Account Administrator"},
    {"id": 14,"name": "Administrator"},
    {"id": 15,"name": "User"},
    {"id": 16,"name": "Dashboard Viewer"}
  ],
  "groups":
  [
    {"id": 1,"name": "group_01"}
  ]
}
```



- This API only supports retrieving internal users and not SAML or LDAP.
- You have to include an optional parameter (securityProviderType) to find SAML/LDAP users.

Get All Users

Use this to get a list of all users in the current account. The list includes user summaries, which includes `userId` and `userName`.

Format

```
GET /controller/api/rbac/v1/users
```

Example

```
curl -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/users

Response status code 200 :
{
  "users":
  [
    {"id": 4,"name": "user1"},
    {"id": 10,"name": "user10"}
  ]
}
```

Update User

Use this to update a user by `userId` in the current account. Only the user object itself is updated, with the relationship to roles and groups remaining unaffected.

Format

PUT /controller/api/rbac/v1/users/userId

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
id	Request payload		Yes
name	Request payload		Yes
displayName	Request payload		Yes
security_provider_type	Request payload	"INTERNAL"	Yes

Example

```
curl -H "Content-Type: application/vnd.appd.cntrl+json;v=1" -X PUT -d '{"id": 11,"name": "updated_user9","displayName": "user9","security_provider_type": "INTERNAL"}' -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/users/11
```

Response status code 200 :

```
{
  "id": 11,
  "name": "updated_user9",
  "displayName": "user9",
  "security_provider_type": "INTERNAL"
}
```

Delete User

Use this to delete a user by `userId` in the current account.

Format

DELETE /controller/api/rbac/v1/users/userId

Example

```
curl -X DELETE -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/users/11
```

Response status code 200 :

Create Group

Use this to create a group in the current account. The `groupId` is generated by the server.

Format

POST /controller/api/rbac/v1/groups

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
----------------	----------------	-------	-----------

name	Request payload		Yes
description	Request payload		No
security_provider_type	Request payload	"INTERNAL"	Yes

Example

```
curl -H "Content-Type: application/vnd.appd.cntrl+json;v=1" -X POST -d '{"name": "group100","description": "new description", "security_provider_type": "INTERNAL"}' -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/groups
```

Response status code 200 :

```
{
  "id": 2,
  "name": "group100",
  "security_provider_type": "INTERNAL",
  "description": "new description"
}
```

Get Group by ID

Use this to get full group information by `groupId` in the current account.

Format

GET `/controller/api/rbac/v1/groups/groupId`

Example

```
curl -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/groups/1
```

Response status code 200 :

```
{
  "id": 1,
  "name": "group_03",
  "security_provider_type": "INTERNAL",
  "description": "",
  "roles":
  [
    {"id": 19,"name": "DB Monitoring User"},
    {"id": 20,"name": "Analytics Administrator"},
    {"id": 21,"name": "Server Monitoring Administrator"},
    {"id": 22,"name": "Server Monitoring User"},
    {"id": 23,"name": "Universal Agent Administrator"},
    {"id": 13,"name": "Account Administrator"},
    {"id": 16,"name": "Dashboard Viewer"}
  ]
}
```

Get Group by Name

Use this to get full group information by `groupName` in the current account.

Format

GET `/controller/api/rbac/v1/groups/name/name`

Example

```
curl -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/groups/name/group_03

Response status code 200 :
{
  "id": 1,
  "name": "group_03",
  "security_provider_type": "INTERNAL"
  "description": "",
  "roles":
    [
      {"id": 19, "name": "DB Monitoring User"},
      {"id": 20, "name": "Analytics Administrator"},
      {"id": 21, "name": "Server Monitoring Administrator"},
      {"id": 22, "name": "Server Monitoring User"},
      {"id": 23, "name": "Universal Agent Administrator"},
      {"id": 13, "name": "Account Administrator"},
      {"id": 16, "name": "Dashboard Viewer"}
    ]
}
```

Get All Groups

Use this to get all groups in the current account. This only returns group summaries, which includes `groupId` and `groupName`.

Format

GET /controller/api/rbac/v1/groups

Example

```
curl -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/groups

Response status code 200 :
{
  "groups":
    [
      {"id": 1, "name": "group_03"},
      {"id": 2, "name": "group100"}
    ]
}
```

Update Group

Use this to update a group by `groupId` in the current account. Only the group itself is updated, while the relationships with users and roles remain unaffected.

Format

PUT /controller/api/rbac/v1/groups/groupId

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
id	Request payload		Yes
name	Request payload		Yes

description	Request payload		No
security_provider_type	Request payload	"INTERNAL"	Yes

Example

```
curl -H "Content-Type: application/vnd.appd.cntrl+json;v=1" -X PUT -d '{"id": 1, "name": "group2", "description": "new description", "security_provider_type": "INTERNAL"}' -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/groups/1
```

Response status code 200 :

```
{
  "id": 1,
  "name": "group2",
  "security_provider_type": "INTERNAL",
  "description": "new description",
  "roles":
  [
    {"id": 19, "name": "DB Monitoring User"},
    {"id": 20, "name": "Analytics Administrator"},
    {"id": 21, "name": "Server Monitoring Administrator"},
    {"id": 22, "name": "Server Monitoring User"},
    {"id": 23, "name": "Universal Agent Administrator"},
    {"id": 13, "name": "Account Administrator"},
    {"id": 16, "name": "Dashboard Viewer"}
  ]
}
```

Delete Group

Use this to delete a group by `groupId` in the current account.

Format

```
DELETE /controller/api/rbac/v1/groups/groupId
```

Example

```
curl -X DELETE -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/groups/1
```

Response status code 200 :

Add User to Group

Use this to add a user to a group by `userId` and `groupId`.

Format

```
PUT /controller/api/rbac/v1/groups/groupId/users/userId
```

Example

```
curl -H "Content-Type: application/vnd.appd.cntrl+json;v=1" -X PUT -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/groups/2/users/10
```

Response status code 200 :

Remove User from Group

Use this to remove a user from a group by `userId` and `groupId`.

Format

DELETE /controller/api/rbac/v1/groups/`groupId`/users/`userId`

Example

```
curl -X DELETE -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/groups/2/users/10
```

Response status code 200 :

Create Role

Use this to create a role in the current account. The ID is generated by the server.

Format

POST /controller/api/rbac/v1/roles

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
name	Request payload		Yes
description	Request payload		No
permissions	Request payload		No

Example

```
curl -X POST /controller/api/rbac/v1/roles \  
-H 'Content-Type: application/vnd.appd.cntrl+json;v=1' \  
-d '{  
  "name": "SampleRole2",  
  "permissions": [  
    {  
      "entityType": "APPLICATION",  
      "entityId": 24,  
      "action": "CONFIG_ACTIONS"  
    },  
    {  
      "entityType": "APPLICATION",  
      "entityId": 24,  
      "action": "CONFIG_BASELINES"  
    },  
    {  
      "entityType": "APPLICATION",  
      "entityId": 24,  
      "action": "CONFIG_BUSINESS_TRANSACTIONS"  
    },  
    {  
      "entityType": "APPLICATION",  
      "entityId": 24,  
      "action": "CONFIG_ERROR_DETECTION"  
    },  
    {  
      "entityType": "APPLICATION",  
      "entityId": 24,  
      "action": "CONFIG_EUM"  
    },  
    {  
      "entityType": "APPLICATION",  
      "entityId": 24,  
      "action": "CONFIG_EVENT_REACTOR"  
    },  
    {  
      "entityType": "APPLICATION",  
      "entityId": 24,  
      "action": "CONFIG_POLICIES"  
    },  
    {  
      "entityType": "APPLICATION",  
      "entityId": 24,  
      "action": "CONFIG_TRANSACTION_DETECTION"  
    },  
    {  
      "entityType": "APPLICATION",  
      "entityId": 24,  
      "action": "VIEW"  
    }  
  ]  
}'
```

```
200 OK  
{  
  "id": 87,  
  "name": "SampleRole2"  
}
```

Add Role to User

Use this to add a role to a user by `roleId` and `userId`.

Format

```
PUT /controller/api/rbac/v1/roles/roleId/users/userId
```

Example

```
curl -H "Content-Type: application/vnd.appd.cntrl+json;v=1" -X PUT -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/roles/50/users/10
```

```
Response status code 200 :
```

Remove Role from User

Use this to remove a role from a user by `roleId` and `userId`.

Format

```
DELETE /controller/api/rbac/v1/roles/roleId/users/userId
```

Example

```
curl -X DELETE -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/roles/50/users/10
```

```
Response status code 200 :
```

Add Role to Group

Use this to add a role to a group by `roleId` and `groupId`.

Format

```
PUT /controller/api/rbac/v1/roles/roleId/groups/groupId
```

Example

```
curl -H "Content-Type: application/vnd.appd.cntrl+json;v=1" -X PUT -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/roles/50/groups/2
```

```
Response status code 200 :
```

Remove Role from Group

Use this to remove a role from a group by `roleId` and `groupId`.

Format

```
DELETE /controller/api/rbac/v1/roles/roleId/groups/groupId
```

Example

```
curl -X DELETE -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/roles/50/groups/2  
  
Response status code 200 :
```

Get Role by ID

Use this to get full role information by `roleId` in the current account. This only returns the `role` object.

Format

```
GET /controller/api/rbac/v1/roles/{roleId}?include-permissions=true
```

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
<code>id</code>	Request payload		Yes
<code>include-permissions</code> (\geq v4.5.14)	Request payload	"true"	No

Example


```
curl -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/roles/15?include-permissions=true
```

Response status code 200 :

```
{
  "id": 15,
  "name": "SampleRole",
  "permissions": [
    {
      "id": 2619,
      "entityType": "APPLICATION",
      "entityId": 27,
      "action": "CONFIG_ACTIONS"
    },
    {
      "id": 2621,
      "entityType": "APPLICATION",
      "entityId": 27,
      "action": "CONFIG_BASELINES"
    },
    {
      "id": 2620,
      "entityType": "APPLICATION",
      "entityId": 27,
      "action": "CONFIG_BUSINESS_TRANSACTIONS"
    },
    {
      "id": 2610,
      "entityType": "APPLICATION",
      "entityId": 27,
      "action": "CONFIG_ERROR_DETECTION"
    },
    {
      "id": 2615,
      "entityType": "APPLICATION",
      "entityId": 27,
      "action": "CONFIG_EUM"
    },
    {
      "id": 2618,
      "entityType": "APPLICATION",
      "entityId": 27,
      "action": "CONFIG_EVENT_REACTOR"
    },
    {
      "id": 2617,
      "entityType": "APPLICATION",
      "entityId": 27,
      "action": "CONFIG_POLICIES"
    },
    {
      "id": 2608,
      "entityType": "APPLICATION",
      "entityId": 27,
      "action": "CONFIG_TRANSACTION_DETECTION"
    },
    {
      "id": 2606,
      "entityType": "APPLICATION",
      "entityId": 27,
      "action": "VIEW"
    }
  ]
}
```

Get Role by Name

Use this to get full role information by `roleName` in the current account.

Format

GET `/controller/api/rbac/v1/roles/name/{RoleName}?include-permissions=true`

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
name	Request payload		Yes
include-permissions (\geq v4.5.14)	Request payload	"true"	No

Example

```
curl -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/roles/name/SampleRole?include-  
permissions=true
```

Response status code 200 :

```
{  
  "id": 15,  
  "name": "SampleRole",  
  "permissions": [  
    {  
      "id": 2619,  
      "entityType": "APPLICATION",  
      "entityId": 27,  
      "action": "CONFIG_ACTIONS"  
    },  
    {  
      "id": 2621,  
      "entityType": "APPLICATION",  
      "entityId": 27,  
      "action": "CONFIG_BASELINES"  
    },  
    {  
      "id": 2620,  
      "entityType": "APPLICATION",  
      "entityId": 27,  
      "action": "CONFIG_BUSINESS_TRANSACTIONS"  
    },  
    {  
      "id": 2610,  
      "entityType": "APPLICATION",  
      "entityId": 27,  
      "action": "CONFIG_ERROR_DETECTION"  
    },  
    {  
      "id": 2615,  
      "entityType": "APPLICATION",  
      "entityId": 27,  
      "action": "CONFIG_EUM"  
    },  
    {  
      "id": 2618,  
      "entityType": "APPLICATION",  
      "entityId": 27,  
      "action": "CONFIG_EVENT_REACTOR"  
    },  
    {  
      "id": 2617,  
      "entityType": "APPLICATION",  
      "entityId": 27,  
      "action": "CONFIG_POLICIES"  
    },  
    {  
      "id": 2608,  
      "entityType": "APPLICATION",  
      "entityId": 27,  
      "action": "CONFIG_TRANSACTION_DETECTION"  
    },  
    {  
      "id": 2606,  
      "entityType": "APPLICATION",  
      "entityId": 27,  
      "action": "VIEW"  
    }  
  ]  
}
```

Get All Roles

Use this to get all roles in the current account. This only returns role summaries, which includes `roleId` and `roleName`.

Format

GET /controller/api/rbac/v1/roles

Example

```
curl -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/roles
```

Response status code 200 :

```
{
  "roles":
  [
    {"id": 13,"name": "Account Administrator"},
    {"id": 14,"name": "Administrator"},
    {"id": 20,"name": "Analytics Administrator"},
    {"id": 16,"name": "Dashboard Viewer"},
    {"id": 18,"name": "DB Monitoring Administrator"},
    {"id": 19,"name": "DB Monitoring User"},
    {"id": 21,"name": "Server Monitoring Administrator"},
    {"id": 22,"name": "Server Monitoring User"},
    {"id": 23,"name": "Universal Agent Administrator"},
    {"id": 24,"name": "Universal Agent User"},
    {"id": 15,"name": "User"},
    {"id": 17,"name": "Workflow Executor"}
  ]
}
```

Update Role

Use this to update a role by `roleId` in the current account. This only updates the `role` object itself, while leaving the relationship with users and groups unaffected.

You cannot update permissions within a role through this API. You can only update the `name` and `description` parameters.

Format

PUT /controller/api/rbac/v1/roles/roleId

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
id	Request payload		Yes
name	Request payload		Yes
description	Request payload		No

Example

```
curl -H "Content-Type: application/vnd.appd.cntrl+json;v=1" -X PUT -d '{"id": 49, "name": "role1", "description": "new description" }' -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/roles/49
```

Response status code 200 :

```
{
  "id": 49,
  "name": "role1",
  "description": "new description"
}
```

Delete Role

Use this to delete a role in the current account.

Format

```
DELETE /controller/api/rbac/v1/roles/roleId
```

Example

```
curl -X DELETE -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/roles/49
```

Response status code 200 :

Create Central Identity User API

This page describes the Create Central Identity User API methods you can use to create central identity(ci) users in the current account. This API is only available when the current account is configured with the `CI_USER_CREATION` property.



You must be the account owner or have the **administer user** permissions to use the Create Central Identity User API.

SAML and LDAP user creations are not supported. You can only create permissions through the UI. See [Create and Manage Custom Roles](#).

Create User

The request payload should specify `email`, `security_provider_type`, and `displayName`. The server generates the user ID.

Format

```
POST /controller/api/rbac/v1/ci-user
```

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
email	Request payload		Yes
security_provider_type	Request payload	"INTERNAL"	Yes
displayName	Request payload		Yes

Example

```
curl -H "Content-Type: application/vnd.appd.cntrl+json;v=1" -X POST -d '{"email": "user10@domain.com", "security_provider_type": "INTERNAL", "displayName": "user10"}' -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/ci-user
```

Response status code 200 :

```
{
  "id": 10,
  "name": "user10@domain.com",
  "email": "user10@domain.com",
  "displayName": "user10",
  "security_provider_type": "INTERNAL"
}
```

Get User by ID

Use this to get full user information, including a summary of affiliated groups and roles, using the `userId` in the current account.

Format

```
GET /controller/api/rbac/v1/users/userId
```

Example

```
curl -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/users/4

Response status code 200 :
{
  "id": 4,
  "name": "user1",
  "email": "user1@customer1.com",
  "displayName": "user1",
  "security_provider_type": "INTERNAL",
  "roles":
  [
    {"id": 17, "name": "Workflow Executor"},
    {"id": 18, "name": "DB Monitoring Administrator"},
    {"id": 19, "name": "DB Monitoring User"},
    {"id": 20, "name": "Analytics Administrator"},
    {"id": 21, "name": "Server Monitoring Administrator"},
    {"id": 22, "name": "Server Monitoring User"},
    {"id": 13, "name": "Account Administrator"},
    {"id": 14, "name": "Administrator"},
    {"id": 15, "name": "User"},
    {"id": 16, "name": "Dashboard Viewer"}
  ],
  "groups":
  [
    {"id": 1, "name": "group_01"}
  ]
}
```

Get User by Name

Use this to get full user information, including a summary of affiliated groups and roles, using the `userName` in the current account.

Format

```
GET /controller/api/rbac/v1/users/name/name
```

Example

```
curl -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/users/name/user1
```

Response status code 200 :

```
{
  "id": 4,
  "name": "user1",
  "email": "user1@customer1.com",
  "displayName": "user1",
  "security_provider_type": "INTERNAL",
  "roles":
  [
    {"id": 17,"name": "Workflow Executor"},
    {"id": 18,"name": "DB Monitoring Administrator"},
    {"id": 19,"name": "DB Monitoring User"},
    {"id": 20,"name": "Analytics Administrator"},
    {"id": 21,"name": "Server Monitoring Administrator"},
    {"id": 22,"name": "Server Monitoring User"},
    {"id": 13,"name": "Account Administrator"},
    {"id": 14,"name": "Administrator"},
    {"id": 15,"name": "User"},
    {"id": 16,"name": "Dashboard Viewer"}
  ],
  "groups":
  [
    {"id": 1,"name": "group_01"}
  ]
}
```

Get All Users

Use this to get a list of all users in the current account. The list includes user summaries, which includes `userId` and `userName`.

Format

```
GET /controller/api/rbac/v1/users
```

Example

```
curl -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/users
```

Response status code 200 :

```
{
  "users":
  [
    {"id": 4,"name": "user1"},
    {"id": 10,"name": "user10"}
  ]
}
```

Update User

Use this to update a user by `userId` in the current account. Only the user object itself is updated, with the relationship to roles and groups remaining unaffected.

Format

```
PUT /controller/api/rbac/v1/users/userId
```

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
id	Request payload		Yes
name	Request payload		Yes
displayName	Request payload		Yes
security_provider_type	Request payload	"INTERNAL"	Yes

Example

```
curl -H "Content-Type: application/vnd.appd.cntrl+json;v=1" -X PUT -d '{"id": 11,"name": "updated_user9","displayName": "user9","security_provider_type": "INTERNAL"}' -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/users/11
```

Response status code 200 :

```
{
  "id": 11,
  "name": "updated_user9",
  "displayName": "user9",
  "security_provider_type": "INTERNAL"
}
```

Delete User

Use this to delete a user by `userId` in the current account.

Format

DELETE /controller/api/rbac/v1/users/`userId`

Example

```
curl -X DELETE -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/users/11
```

Response status code 200 :

Create Group

Use this to create a group in the current account. The `groupId` is generated by the server.

Format

POST /controller/api/rbac/v1/groups

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
name	Request payload		Yes
description	Request payload		No
security_provider_type	Request payload	"INTERNAL"	Yes

Example

```
curl -H "Content-Type: application/vnd.appd.cntrl+json;v=1" -X POST -d '{"name": "group100","description": "new description", "security_provider_type": "INTERNAL"}' -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/groups
```

Response status code 200 :

```
{
  "id": 2,
  "name": "group100",
  "security_provider_type": "INTERNAL",
  "description": "new description"
}
```

Get Group by ID

Use this to get full group information by `groupId` in the current account.

Format

```
GET /controller/api/rbac/v1/groups/groupId
```

Example

```
curl -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/groups/1
```

Response status code 200 :

```
{
  "id": 1,
  "name": "group_03",
  "security_provider_type": "INTERNAL",
  "description": "",
  "roles":
  [
    {"id": 19,"name": "DB Monitoring User"},
    {"id": 20,"name": "Analytics Administrator"},
    {"id": 21,"name": "Server Monitoring Administrator"},
    {"id": 22,"name": "Server Monitoring User"},
    {"id": 13,"name": "Account Administrator"},
    {"id": 16,"name": "Dashboard Viewer"}
  ]
}
```

Get Group by Name

Use this to get full group information by `groupName` in the current account.

Format

```
GET /controller/api/rbac/v1/groups/name/name
```

Example

```
curl -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/groups/name/group_03

Response status code 200 :
{
  "id": 1,
  "name": "group_03",
  "security_provider_type": "INTERNAL"
  "description": "",
  "roles":
    [
      {"id": 19,"name": "DB Monitoring User"},
      {"id": 20,"name": "Analytics Administrator"},
      {"id": 21,"name": "Server Monitoring Administrator"},
      {"id": 22,"name": "Server Monitoring User"},
      {"id": 13,"name": "Account Administrator"},
      {"id": 16,"name": "Dashboard Viewer"}
    ]
}
```

Get All Groups

Use this to get all groups in the current account. This only returns group summaries, which includes `groupId` and `groupName`.

Format

```
GET /controller/api/rbac/v1/groups
```

Example

```
curl -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/groups

Response status code 200 :
{
  "groups":
    [
      {"id": 1,"name": "group_03"},
      {"id": 2,"name": "group100"}
    ]
}
```

Update Group

Use this to update a group by `groupId` in the current account. Only the group itself is updated, while the relationships with users and roles remain unaffected.

Format

```
PUT /controller/api/rbac/v1/groups/groupId
```

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
id	Request payload		Yes
name	Request payload		Yes
description	Request payload		No

security_provider_type	Request payload	"INTERNAL"	Yes
------------------------	-----------------	------------	-----

Example

```
curl -H "Content-Type: application/vnd.appd.cntrl+json;v=1" -X PUT -d '{"id": 1, "name": "group2", "description": "new description", "security_provider_type": "INTERNAL"}' -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/groups/1
```

Response status code 200 :

```
{
  "id": 1,
  "name": "group2",
  "security_provider_type": "INTERNAL",
  "description": "new description",
  "roles":
    [
      {"id": 19, "name": "DB Monitoring User"},
      {"id": 20, "name": "Analytics Administrator"},
      {"id": 21, "name": "Server Monitoring Administrator"},
      {"id": 22, "name": "Server Monitoring User"},
      {"id": 13, "name": "Account Administrator"},
      {"id": 16, "name": "Dashboard Viewer"}
    ]
}
```

Delete Group

Use this to delete a group by `groupId` in the current account.

Format

```
DELETE /controller/api/rbac/v1/groups/groupId
```

Example

```
curl -X DELETE -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/groups/1
```

Response status code 200 :

Add User to Group

Use this to add a user to a group by `userId` and `groupId`.

Format

```
PUT /controller/api/rbac/v1/groups/groupId/users/userId
```

Example

```
curl -H "Content-Type: application/vnd.appd.cntrl+json;v=1" -X PUT -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/groups/2/users/10
```

Response status code 200 :

Remove User from Group

Use this to remove a user from a group by `userId` and `groupId`.

Format

```
DELETE /controller/api/rbac/v1/groups/groupId/users/userId
```

Example

```
curl -X DELETE -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/groups/2/users/10
```

```
Response status code 200 :
```

Create Role

Use this to create a role in the current account. The ID is generated by the server.

Format

```
POST /controller/api/rbac/v1/roles
```

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
name	Request payload		Yes
description	Request payload		No

Example

```
curl -H "Content-Type: application/vnd.appd.cntrl+json;v=1" -X POST -d '{"name": "role2","description": "new description"}' -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/roles
```

```
Response status code 200 :
```

```
{  
  "id": 49,  
  "name": "role2",  
  "description": "new description"  
}
```

Add Role to User

Use this to add a role to a user by `roleId` and `userId`.

Format

```
PUT /controller/api/rbac/v1/roles/roleId/users/userId
```

Example

```
curl -H "Content-Type: application/vnd.appd.cntrl+json;v=1" -X PUT -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/roles/50/users/10
```

```
Response status code 200 :
```

Remove Role from User

Use this to remove a role from a user by `roleId` and `userId`.

Format

```
DELETE /controller/api/rbac/v1/roles/roleId/users/userId
```

Example

```
curl -X DELETE -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/roles/50/users/10
```

```
Response status code 200 :
```

Add Role to Group

Use this to add a role to a group by `roleId` and `groupId`.

Format

```
PUT /controller/api/rbac/v1/roles/roleId/groups/groupId
```

Example

```
curl -H "Content-Type: application/vnd.appd.cntrl+json;v=1" -X PUT -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/roles/50/groups/2
```

```
Response status code 200 :
```

Remove Role from Group

Use this to remove a role from a group by `roleId` and `groupId`.

Format

```
DELETE /controller/api/rbac/v1/roles/roleId/groups/groupId
```

Example

```
curl -X DELETE -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/roles/50/groups/2
```

```
Response status code 200 :
```

Get Role by ID

Use this to get full role information by `roleId` in the current account. This only returns the role object.

Format

```
GET /controller/api/rbac/v1/roles/roleId
```

Example

```
curl -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/roles/15

Response status code 200 :
{
  "id": 15,
  "name": "User",
  "description": "Can view applications and dashboards but not modify their configuration"
}
```

Get Role by Name

Use this to get full role information by `roleName` in the current account.

Format

```
GET /controller/api/rbac/v1/roles/name/name
```

Example

```
curl -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/roles/name/User

Response status code 200 :
{
  "id": 15, "name":
  "User",
  "description": "Can view applications and dashboards but not modify their configuration"
}
```

Get All Roles

Use this to get all roles in the current account. This only returns role summaries, which includes `roleId` and `roleName`.

Format

```
GET /controller/api/rbac/v1/roles
```

Example

```
curl -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/roles
```

Response status code 200 :

```
{
  "roles":
  [
    {"id": 13,"name": "Account Administrator"},
    {"id": 14,"name": "Administrator"},
    {"id": 20,"name": "Analytics Administrator"},
    {"id": 16,"name": "Dashboard Viewer"},
    {"id": 18,"name": "DB Monitoring Administrator"},
    {"id": 19,"name": "DB Monitoring User"},
    {"id": 21,"name": "Server Monitoring Administrator"},
    {"id": 22,"name": "Server Monitoring User"},
    {"id": 15,"name": "User"},
    {"id": 17,"name": "Workflow Executor"}
  ]
}
```

Update Role

Use this to update a role by `roleId` in the current account. This only updates the role object itself, while leaving the relationship with users and groups unaffected.

Format

```
PUT /controller/api/rbac/v1/roles/roleId
```

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
id	Request payload		Yes
name	Request payload		Yes
description	Request payload		No

Example

```
curl -H "Content-Type: application/vnd.appd.cntrl+json;v=1" -X PUT -d '{"id": 49, "name": "role1", "description": "new description"}' -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/roles/49
```

Response status code 200 :

```
{
  "id": 49,
  "name": "role1",
  "description": "new description"
}
```

Delete Role

Use this to delete a role in the current account.

Format

```
DELETE /controller/api/rbac/v1/roles/roleId
```


Example

```
curl -X DELETE -u user1@customer1 http://localhost:8080/controller/api/rbac/v1/roles/49
```

```
Response status code 200 :
```

License API

Related pages:

- [Observe License Usage](#)
- [Licensing](#)
- [License Entitlements and Restrictions](#)

This page describes the License APIs you can use to perform functions related to licensing and accounts including uploading license files, allocating licenses, getting license and account usage information as well as creating, updating, and deleting license rules.

The License APIs below are separated by licensing model. To learn about licenses within each model, see [License Entitlements and Restrictions](#).

Integration Modules

Related pages:

- [AppDynamics Exchange](#)

The [AppDynamics Community Exchange](#) includes many extensions that supplement the capabilities of the AppDynamics Application Performance Monitoring (APM) Platform. Documentation on setting up and using the integration module appears with the module.

Some integrations listed here do not display on the Controller UI Integrations page. This is because not all integrations require configuration at the Controller (e.g., Rookout, Apica) level or they can only be configured at the underlying [Glassfish Admin Console](#) level (e.g., DB CAM).

The following integration modules are built into the AppDynamics platform and described on the pages linked here.

Integration Module	More information
Rookout	Deep Code Insights powered by Rookout
Apica	Apica & AppDynamics
DB CAM	Integrate AppDynamics with DB CAM
Scalyr	Integrate AppDynamics with Scalyr
Splunk	Integrate AppDynamics with Splunk
Compuware Strobe	Integrate AppDynamics with Compuware Strobe
AppDynamics for Databases	Integrate AppDynamics for Databases with AppDynamics Pro 3.7 and higher
Cisco® Application Centric Infrastructure (Cisco ACI™)	Integrate AppDynamics with Cisco ACI™
ServiceNow®	Integrate AppDynamics with ServiceNow®CMDB and Event Management

Integrate AppDynamics with Cisco Application Centric Infrastructure



AppDynamics is ending support for Application Centric Infrastructure (ACI). The feature will not work once customers upgrade their Controllers beyond > 21.1.1. See Support Advisory: Application Centric Infrastructure (ACI) End of Life (EOL) Notice.

This page describes the advantages of the integration of AppDynamics with Cisco® Application Centric Infrastructure (Cisco ACI™). This solution provides a unified view from the application code to underlying network layers for business-critical applications running in a data center. This enables the network operations Admin and the application operations Admin to quickly troubleshoot issues at the application and the network levels.



You can integrate the Cisco ACI™ solution with select AppDynamics Controllers only. If you are interested in using the integrated solution, contact help@appdynamics.com. See [Troubleshoot Using the Integrated Solution](#).

Getting Started with AppDynamics- Cisco ACI Integration



AppDynamics is ending support for Application Centric Infrastructure (ACI). The feature will not work once customers upgrade their Controllers beyond > 21.1. See Support Advisory: Application Centric Infrastructure (ACI) End of Life (EOL) Notice.

This page provides instructions for integrating AppDynamics with Cisco ACI™ solution and verifying interoperability between the applications. This integration provides end-to-end visibility into the application and network layers within a data center.

Before You Begin

Ensure that your environment meets these minimum system requirements:

- Controller \geq 4.5.2 with a Network Visibility license per OS instance. See [Controller System Requirements](#).
- Hosts with Network Visibility Agents \geq 4.5.2. See [Network Visibility Requirements and Supported Environments](#).
- Hosts with Java Agents \geq 4.5.2 or .NET Agent for Windows \geq 4.5.15 with an App Agent license. See [Install Java Agent](#) or [.NET Agent](#).
- `sudo` or `root` access permissions on the agent host to install the Network Agent.
- Network Visibility is supported on Linux and Windows operating systems. See [Network Visibility Supported Environments](#).



If your applications are running in a Kubernetes environment, enable the Kubernetes-ACI integration before you proceed with the AppDynamics and Cisco ACI™ integration. See [Cisco ACI and Kubernetes Integration](#).

Enable SSL for Cisco ACI Integration

The Cisco Application Policy Infrastructure Controller (APIC) supports the import and storage of an SSL certificate and private key into the Controller to create a secure and trusted environment with AppDynamics.

1. Access the AppDynamics Controller using the SSH.
2. At a command prompt, change directories to the following location:

```
<controller_home>/appserver/glassfish/domains/domain1/config
```

3. Import the self-signed certificate from the appropriate directory as follows:

```
keytool -import -keystore cacerts.jks -file /path/to/RootCA.crt
```

Enable Cisco ACI Integration (Controller \leq 4.5.10)





The Cisco ACI Integration is enabled by default for \geq 4.5.11.

1. Log in to the Administration Console:

```
http:<controller-hostname>:<controller-port>/controller/admin.jsp
```

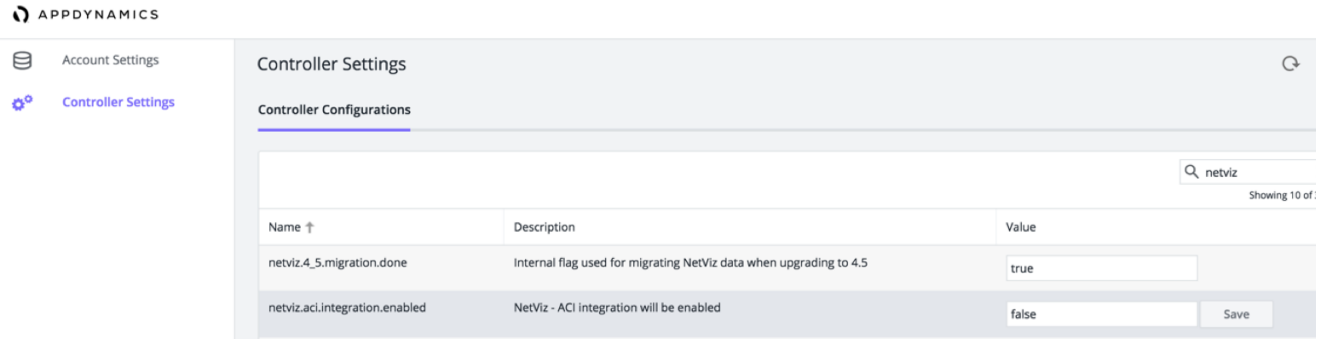
For example:

```
https:<controller-hostname>:8800/controller/admin.jsp
https:<controller-hostname>:443/controller/admin.jsp
```

You must use the password that was set for the root user of the Controller when the Controller was installed. See [User Management](#)

- In **Controller Settings**, search for **netviz.aci.integration.enabled** and set this field to **true**.
- Click **Save**.



The screenshot shows the 'Controller Settings' page in the AppDynamics interface. Under 'Controller Configurations', there is a search bar with 'netviz' entered. Below it, a table lists configurations:

Name ↑	Description	Value
netviz.4.5_migration.done	Internal flag used for migrating NetViz data when upgrading to 4.5	true
netviz.aci.integration.enabled	NetViz - ACI Integration will be enabled	false

A 'Save' button is visible next to the 'false' value for netviz.aci.integration.enabled.

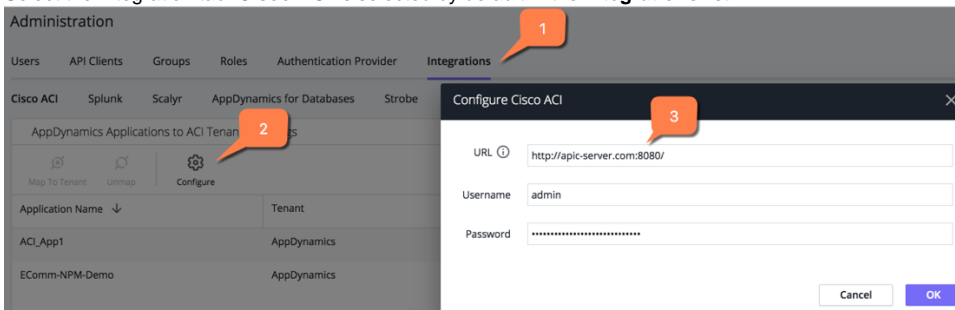
Configure Cisco ACI Credentials

If you are using an AppDynamics Controller \geq 4.5.11, the Cisco ACI Integration feature is enabled by default. If you are using an AppDynamics Controller \leq 4.5.10, you must [enable Cisco ACI Integration manually](#) before you configure your credentials.

- Log in to the AppDynamics Controller as an administrator:

```
http:<controller-hostname>:<controller-port>/controller
```

- Click **Settings > Administration**.
- Select the Integration tab. **Cisco ACI** is selected by default in the **Integrations** list.



The screenshot shows the 'Administration' page with the 'Integrations' tab selected. A 'Configure Cisco ACI' dialog box is open, showing the following fields:

- URL: `http://apic-server.com:8080/`
- Username: `admin`
- Password: `*****`

Buttons for 'Cancel' and 'OK' are at the bottom right of the dialog.

- Click **Configure** and enter these details:
 - Full URL along with the port details to the Cisco APIC Server. For example,


```
http://apic-server.com:8080/
```
 - User credentials to the Cisco APIC.
- Click **OK**.

AppDynamics initiates the background processes required to integrate with the Cisco ACI solution.

Correlate AppDynamics and Cisco ACI Components

The AppDynamics integration with Cisco ACI brings together the logical constructs of both solutions. This enables the network operations admin and the application operations admin to obtain a comprehensive end-to-end view from the application to the network. Correlating or mapping the components of both solutions helps the admins triage and troubleshoot issues quickly.

AppDynamics Components

The AppDynamics application model serves as the framework around which AppDynamics organizes and presents application performance information. A typical application environment consists of different components that interact in multiple ways.

- **Application**—The top-level container in the AppDynamics model. A business application contains a set of related services and business transactions.
- **Tier**—A grouping of one or more nodes in the AppDynamics application model. There is no interaction among nodes within a single tier.
- **Node**—The smallest unit of the modeled environment. A node corresponds to a monitored server or JVM in the application environment. A node may correspond to an individual application server, JVM, CLR, PHP application, and Apache Web server.

AppDynamics components are logically arranged as [Application](#) > [Tiers](#) > [Nodes](#).

Cisco ACI Components

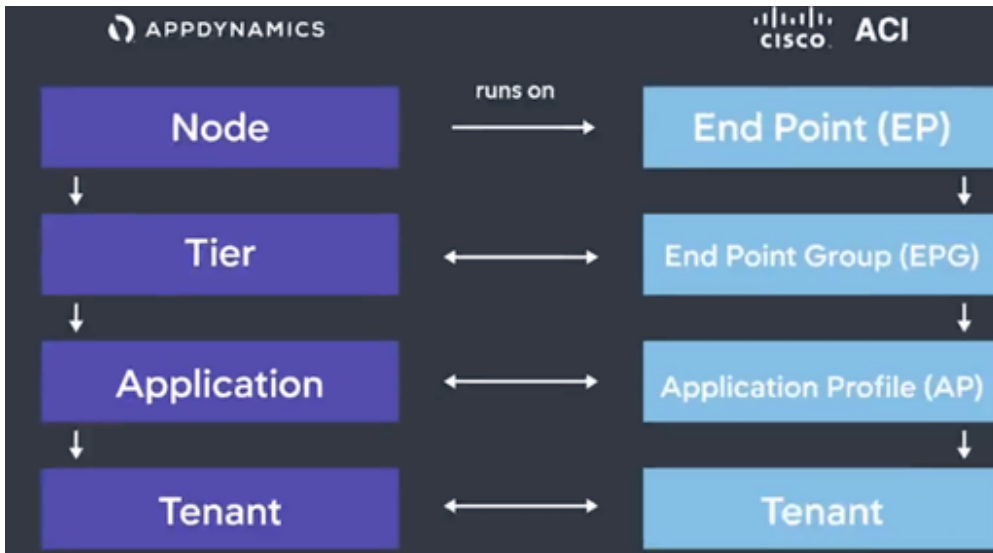
Cisco ACI is a Software-Defined Networking (SDN) solution that simplifies, optimizes, and accelerates infrastructure deployment and governance, and expedites the application deployment lifecycle.

Cisco ACI implements Cisco's intent-based networking framework. It captures higher-level business and user intent in the form of a policy and converts this intent into the network constructs necessary to dynamically provision the network, security, and infrastructure services.

- **Cisco APIC**—The infrastructure Controller is the main architectural component of the Cisco ACI solution. It is the unified point of automation and management for the Cisco ACI fabric, policy enforcement, and health monitoring.
 - The APIC appliance is a centralized, clustered controller that optimizes performance and unifies the operation of physical and virtual environments. The controller manages and operates a scalable multi-tenant Cisco ACI fabric.
- **Tenant**—A logical container for policies that enable an administrator to exercise domain-based access control.
- **Application Profile**—Defines the policies, services, and relationships between endpoint groups (EPGs).
- **EPG**—A managed object that is a named logical entity. It is a collection of endpoints (EPs).
- **Endpoints**—Devices that are connected to the network directly or indirectly. They have an address (identity), a location, and attributes (such as version).

Cisco APIC components are logically arranged as [Application profile](#) > [EPGs](#) > [EPs](#).

This figure shows the correlation of AppDynamics and Cisco ACI components.



AppDynamics Applications to ACI Tenant Mapping

After you configure Cisco ACI credentials, all AppDynamics applications display in the **AppDynamics Applications to ACI Tenant Mappings** page.

Administration		
Users	API Clients	Groups
Roles	Authentication Provider	Integrations
Cisco ACI	Splunk	Scalyr
AppDynamics for Databases	Strobe	Atlassian JIRA OpenAuth
AppDynamics Applications to ACI Tenant Mappings		
Map To Tenant	Unmap	Configure
Application Name ↓	Tenant	Mapping
ACI_App1	-	-
ACI_App1_NoConflict	-	-
EComm-NPM-Demo	AppDynamics	Automatic

These mappings are based on the mappings between AppDynamics nodes and Cisco ACI endpoints.



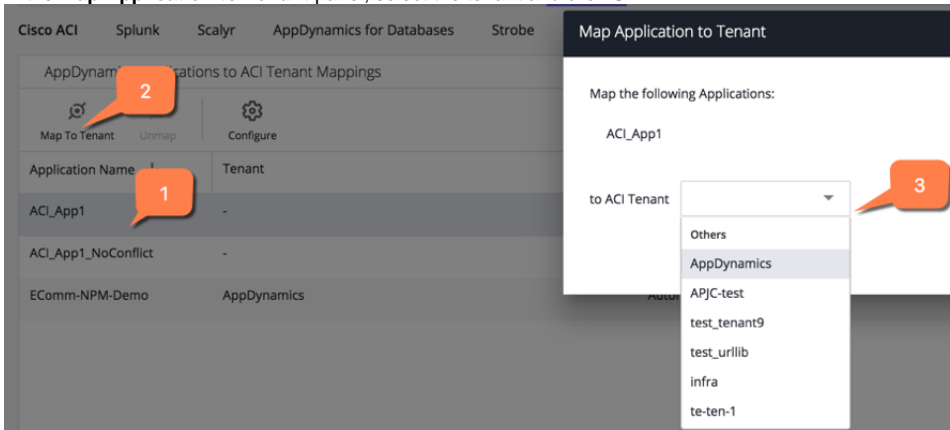
When the endpoints in different tenants have the same IP address, a node-to-endpoint mapping conflict occurs. AppDynamics resolves these conflicts based on heuristic data. However, if the conflicts persist, you must resolve these conflicts manually.

Map AppDynamics Application to Cisco ACI Tenant Manually

The application to Cisco ACI tenant map is left blank in **AppDynamics Applications to ACI Tenant Mappings** page when there is a conflict in auto-mapping. You can map applications to Cisco ACI tenants manually.

1. Select the AppDynamics application you want to map manually. Multiple applications can be mapped to a tenant at a given time.
2. Click **Map to Tenant**.

3. In the **Map Application to Tenant** panel, select the tenant and click **OK**.




Override Auto-Mapping

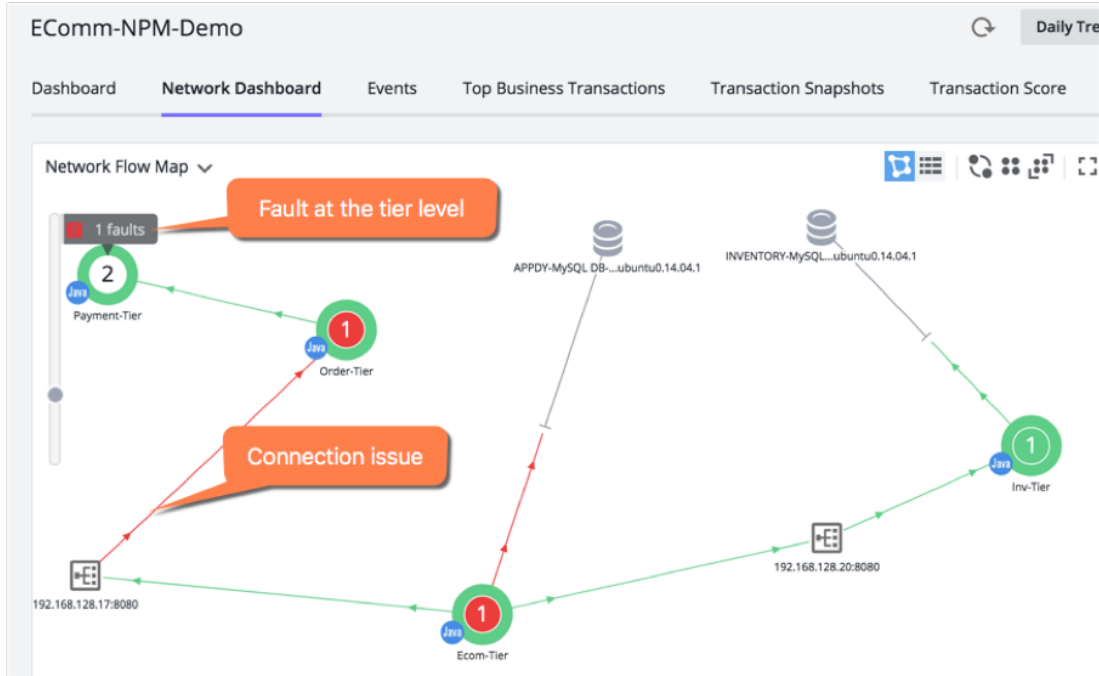
You can override the auto-map and map the application to another Cisco ACI tenant using the **Map Application to Tenant** panel. To override the auto-map, **Unmap** the application to tenant map and map it to another Cisco ACI tenant.

To revert to auto-map, **Unmap** the application to tenant map and refresh the page. AppDynamics auto-maps the application to the corresponding Cisco ACI tenant.

Troubleshoot Using the Integrated Solution

 AppDynamics is ending support for Application Centric Infrastructure (ACI). The feature will not work once customers upgrade their Controllers > 21.1. See Support Advisory: Application Centric Infrastructure (ACI) End of Life (EOL) Notice.

This page describes how to troubleshoot applications using the Cisco APIC integration. The AppDynamics Network Dashboard displays a network-layer view of the monitored application. Based on the runtime state of the application, AppDynamics automatically fetches the faults and connection issues and displays them in the network dashboard:




Faults display at the tier level. The number of faults displayed indicates an aggregate of faults occurring at all EPGs within the tier. You can view the number of faults at a given point of time in the Network Dashboard.

A connection is the set of all traffic for an application that has the same Source IP, Destination IP, Destination Port, and Protocol. AppDynamics detects if there is an issue in the traffic flow and indicates the connection issue on the network dashboard.

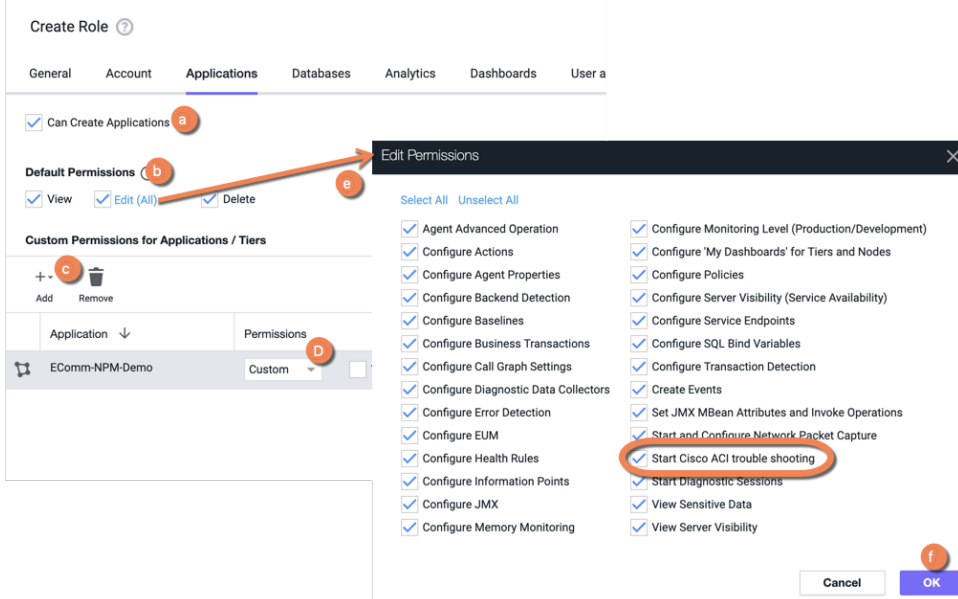
You can initiate a diagnosis to determine the exact location of the connection issue within the network by cross-launching the connection in Cisco APIC Controller.

Set Custom Permission to Cross-Launch Cisco APIC Controller

To include permission to cross-launch Cisco APIC Controller:

1. Log in to the Controller UI as an Administrator or Account Owner.
2. Click the gear icon () > **Administration**.
3. Click the Roles tab.
4. Click **+ Create**.
5. Specify a **Name** and a **Description** for the newly created role.
6. Customize the business application level permission according to these guidelines:
 - a. On the **Applications** tab, click **Can Create Applications**.
 - b. Under **Default Permissions**, select **View**, **Edit**, and **Delete**.
 - c. Click **+ Add** to add a new custom permission and click **Done**.
The custom permission is added.
 - d. Select **Custom** from the **Permissions** menu for the application (replacing the value of Inherited).
 - e. Click **Edit(All)** and ensure that **Start Cisco ACI trouble shooting** is selected.

f. Click **OK**.



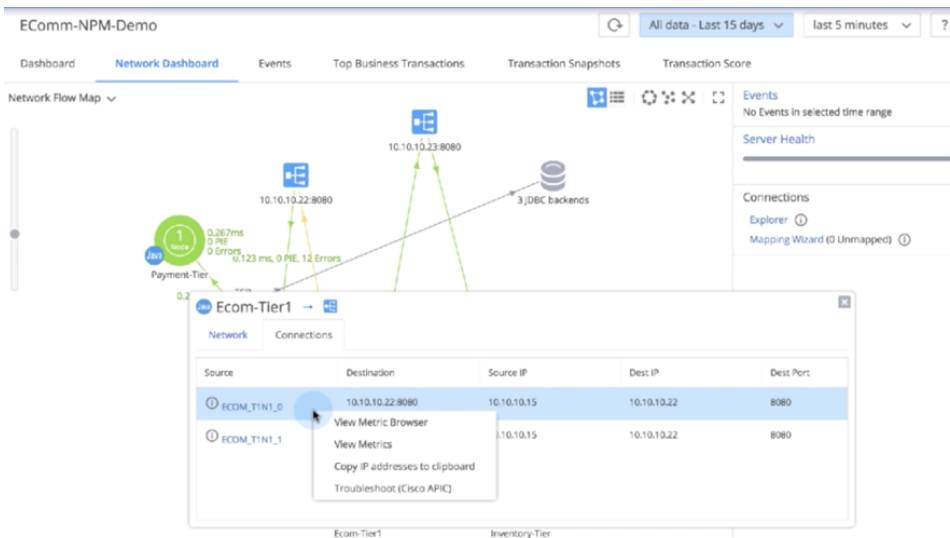
Customize Permissions to Cross-Launch a Connection Issue in Cisco APIC Controller

As an AppDynamics administrator, you can now customize the permissions for various roles to include permission to cross-launch a connection issue in the Cisco APIC Controller. See [Set Custom Permission to Cross-Launch Cisco APIC Controller](#).

Launch Affected Connection in Cisco APIC

After collecting the connection issue information, you can cross-launch the connection in the Cisco APIC Controller.

1. Click on the affected connection on the **Network flow Map**.
2. Click the **Connections** tab.
3. Select the connection you want to troubleshoot.
4. Right-click on the selection and select **Troubleshoot (Cisco APIC)**.



5. Enter your Cisco APIC login credentials. After the initial entry, your credentials will be cached. The connection opens in the Cisco APIC Controller with the correct contracts (Visibility & Troubleshooting wizard) and the right set of endpoints.

! If you are using the Cisco ACI Release 4.0, you need not enter the login credentials. The authentication happens automatically. You must enter the login credentials only if you are using a lower version of the Cisco ACI.

6. Troubleshoot the issue in Cisco APIC.

Integrate AppDynamics with Compuware Strobe

This page describes how to integrate AppDynamics with Compuware Strobe. This integration allows you to drill down from a SQL Call of a transaction snapshot to view and analyze the calls in Strobe.

Configure Compuware Strobe Integration

1. Log in to the Controller UI as an administrator.
2. Select **Settings > Administration**.
3. Select **Integration > Strobe**.
4. Click the **Enabled** checkbox.
5. For the **URL**, enter the Strobe URL and port number.
6. For the **Strobe LPAR**, enter the name of the logical partition where Strobe is running.
7. Click **Save**.

Launch Strobe from AppDynamics

You can access the **View in Strobe** option from a transaction snapshot.

1. Navigate to the Business Transactions dashboard.
2. From the **Transaction Snapshot** tab, select a transaction snapshot containing DB2 z/OS database access.
3. Select the **SQL Calls** tab.
4. Right-click a SQL query and select **View in Strobe**.

Integrate AppDynamics with DB CAM

Related pages:

- [Access the Administration Console](#)
- [Monitor Databases](#)

This page describes how to integrate AppDynamics with DB CAM. You can link to DB CAM for any DB CAM-monitored database that is discoverable by AppDynamics. This integration provides access to the database performance metrics provided by DB CAM.

Before You Begin

To use this integration you must have a DB CAM license. DB CAM must be configured to monitor the databases that you want to link to from AppDynamics.

Configure AppDynamics to Interface with DB CAM

You configure DB CAM integration at the account level and app agent level.

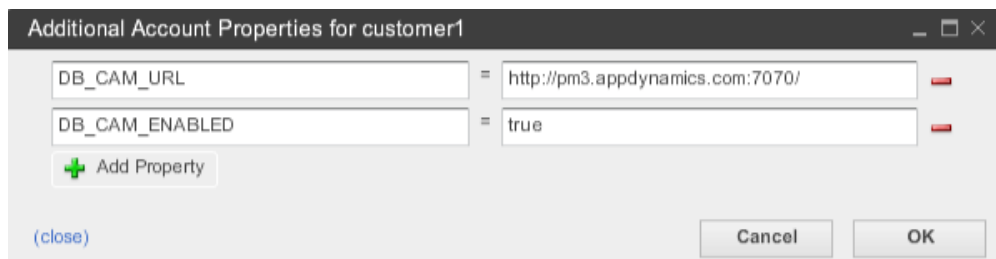
Configure DB CAM at the Account Level

Configure the integration at the account level using the Administration Console at `<host>:<port>/controller/admin.jsp`.

Create two new properties as name-value pairs in each account for which you want to enable DB CAM integration.

Configure One AppDynamics Account for DB CAM Integration

1. Log in to the Administrator Console with the administrator root password.
2. Select **Accounts**.
3. Double-click the account for which you want to configure DB CAM integration.
4. Click **Additional Account Properties** in the upper right.
5. Click **Add Property**.
6. In the left dialog, enter "DB_CAM_URL".
7. In the right dialog, enter the URL of the AppDynamics Controller that you are configuring using the syntax: `http[s]://<host>:<port>`
8. Click **Add Property** again.
9. In the left dialog, enter "DB_CAM_ENABLED".
10. In the right dialog, enter "true".
11. Click **OK**.
12. Log out of the Administrator Console.



Configure DB CAM at the Agent Level

Perform this procedure for each app agent for which you want to enable access to deep diagnostics from DB CAM:

1. Open the `AppServerAgent/conf/app-agent-config.xml` file for the app agent.
2. Locate the `TransactionMonitoringService` element, `<agent-service name="TransactionMonitoringService" enabled="true">`.
3. Add the `jdbc-dbcam-integration-enabled` property for the service:

```
<agent-service name="TransactionMonitoringService" enabled="true">
  <service-dependencies>BCIEngine, SnapshotService</service-dependencies>
  <configuration-properties>
    <property name="jdbc-dbcam-integration-enabled" value="true"/>
  </configuration-properties>
</agent-service>
```

4. Save the file.

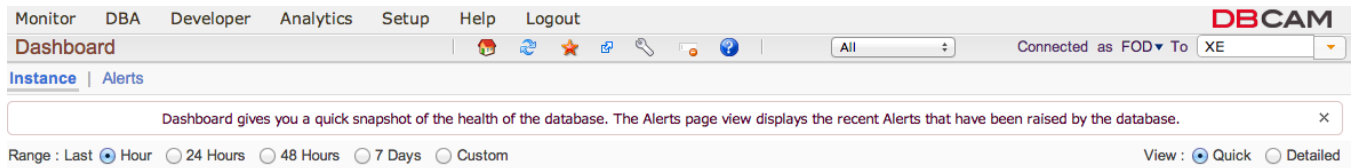
Link to DB CAM from AppDynamics

You can link to DB CAM from any AppDynamics flow map that displays a discovered DB CAM-monitored database. The flow map could be in a dashboard or a transaction snapshot.

If you link to DB CAM from a dashboard, you gain access to the DB CAM instance dashboard. If you link to be DB CAM from a transaction snapshot, you gain access to the DB CAM Session Drill Down pane.

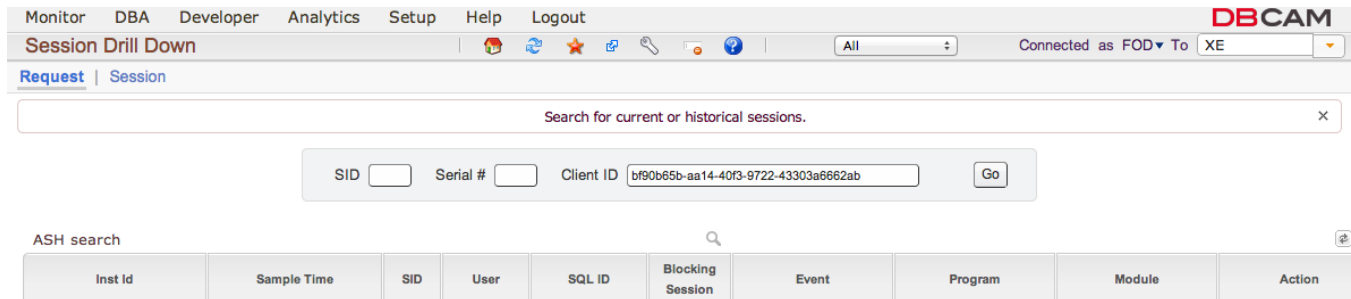
To Link to DB CAM from a Dashboard

1. In the flow map of a dashboard, right-click on the link below a database icon.
2. Select **Search in DBCam**. DB CAM launches and displays the instance dashboard for the selected database.



To Link to DB CAM from a Transaction Snapshot

1. In the flow map of a transaction snapshot, right-click on the link below the database icon.
2. Select **Search in DBCam**. DB CAM launches and displays the session drill down for the selected database.



Integrate AppDynamics with Scalyr

This page describes how to integrate AppDynamics with the Scalyr module. This integration gives you a single entry point for viewing and analyzing data gathered by AppDynamics and [Scalyr](#). With the Scalyr integration module enabled, you can launch Scalyr searches directly from the AppDynamics Console.

The Scalyr search includes context from the AppDynamics UI session, including the time range and IP or hostname of the node being investigated in the AppDynamics UI.

Enable the Scalyr Integration Module

To enable and configure the Scalyr integration:

1. Log in to the Controller UI as an administrator.
2. Select **Settings > Administration**.
3. Select **Integration > Scalyr**.
4. Click the **Enabled** checkbox.
5. For the **URL**, enter `https://www.scalyr.com`.
6. Click **Save**.

Search Scalyr Data from AppDynamics

To launch a Scalyr search, Controller UI users must have:

- An active browser session in the Scalyr UI.
- Scalyr credentials.
- Popups permitted in the browser.

Controller users can search Scalyr logs from the node dashboard, business transaction dashboard, or from segments of a transaction snapshot. The time frame passed to Scalyr varies for each context.

Node Dashboard Access

1. Navigate to a node dashboard.
2. Select **Actions > Search Scalyr**.

This passes a search for that node with the timeframe currently selected in the Controller UI.

Business Transaction Dashboard

1. Select the Transaction Snapshot tab.
2. Select **Actions** or right-click a transaction snapshot.
3. Select **Search Scalyr**.

This generates a search on the nodes where the transaction occurred within the general time frame of the transaction execution. The time frame spans from 30 minutes before the transaction start time to 30 minutes after.

Call Drilldown Access

1. Select a **Call** in the drilldown view.
2. Select **Actions > Search Scalyr**.

This generates a search on the machine on which the snapshot was generated for the time frame of that segment.

Integrate AppDynamics with ServiceNow CMDB and Event Management

This page describes how to integrate the AppDynamics for ServiceNow® application with ServiceNow®.

Download

To download, visit the [AppDynamics Community Exchange](#).

Version 20.7

AppDynamics has released a new version of the sync utility to integrate with the Orlando Release of ServiceNow®. To review version-specific configuration details, see [New Version 20.7](#).

Please review this version compatibility matrix to guide your installation and upgrade decision:

Integration Version	AppDynamics	ServiceNow®
20.7	>= 4.5.0.1	Orlando and later
3.1	>= 4.5.0.1	New York and earlier

Use Case

AppDynamics Application Performance Monitoring traces every transaction and builds real-time application topology. The ServiceNow® integration provides these capabilities:

- AppDynamics application topology feeds data into the *AppDynamics for ServiceNow®* application as custom tables in the CMDB.



In this version, monitored servers can be reconciled with the ServiceNow® appropriate CMDB Server CIs.

- AppDynamics can send alerts to the *ServiceNow® Event Management* application and use the AppDynamics created entities. The AppDynamics for ServiceNow® application imports the AppDynamics alerts as entities. These entities can be used only when they are added to the ServiceNow® table. The AppDynamics for ServiceNow® application then creates a ServiceNow® table that maps with the entities.

This table lists these entities along with the ServiceNow® table that is created to represent them:

AppDynamics Entity Installed	ServiceNow® Table Created
Application	x_apd_appdynamics_application
Business Transaction	x_apd_appdynamics_business_transaction
Controller	x_apd_appdynamics_controller
Database	x_apd_appdynamics_database
Node	x_apd_appdynamics_node
Remote Service	x_apd_appdynamics_remote_service
Tier	x_apd_appdynamics_tier

Before You Begin the Integration

This integration requires that you download, install, and complete the following tasks, in this order, before starting the integration.

1. Download and install the [AppDynamics for ServiceNow® application](#) from the ServiceNow® Store. This application creates the custom AppDynamics tables in the Configuration Management Database (CMDB).
2. Download, install, and configure the [Data Sync Utility](#). This utility makes API calls to AppDynamics and ServiceNow® to push our topology into the CMDB tables.
3. Once the data sync utility has been configured, go back to the utility and choose to download and install the Alerting template. The template contains the proper settings for AppDynamics to send alerts to the event service in ServiceNow®.
4. Install Java >= 1.8 on the machine that runs this program.
5. Start Java with 512 MB of initial memory (-Xms512m).

Add AppDynamics Discovery Source to ServiceNow®

You must create an AppDynamics Discovery Source before installing the integration from the ServiceNow® Store:

1. Log in to the ServiceNow® store.
2. In the left menu, select **System Definition > Choice Lists**.
3. Click **New**.
4. Specify the following details only. Do not change the values of other fields.

Table	Configuration Item [cmdb_ci]
Element	discovery_source
Label	AppDynamics
Value	AppDynamics

Download AppDynamics for ServiceNow® Application

Download the [AppDynamics for ServiceNow® application](#) from the ServiceNow® store and install it on your ServiceNow® instance.

 Ensure that you follow the instructions under the *System Requirements* and *Other Requirements* sections of the ServiceNow® download page.

To use Node-to-Server CI Reconciliation in ServiceNow® >= 3.1, you must have:

- [AppDynamics Machine Agents with Server Visibility enabled](#) installed and running on each host supporting AppDynamics Nodes to be imported.
- AppDynamics Controller and Machine Agent >= 4.5.0.1 with Server Visibility enabled.
- If you have issues, see [Troubleshooting](#).

Download AppDynamics-ServiceNow® Data Sync Utility

Download the [Data Sync Utility](#) zip file from the AppDynamics Exchange.

You can download this utility either as a standalone Java application or as a JAR file. The standalone Java application can run on a Windows or Linux host and the JAR file can run as a Java program on any host machine.



This host must have connectivity to both the target ServiceNow® instance and the target AppDynamics Controller.

The downloaded file includes a lightweight web server that has a basic web application to configure the integration. You can also run the integration in CLI mode only.

Server Options

Download and unzip the `appdynamics-cmdb-service-$version.zip` [Data Sync Utility](#) file.

1. Unzip the `appdynamics-cmdb-service-$version.zip` file.
2. Start the Server.
 - a. **init.d service (System V)**

```
sudo ln -s /path/to/appdynamics-cmdb-service/appdynamics-cmdb-service.jar /etc/init.d/appdynamics-cmdb-service
sudo /etc/init.d/appdynamics-cmdb-service start
```

The java options can be configured in the `$HOME/appdynamics-cmdb-service.conf` file.
The application logs are created in the `$HOME/logs` directory.
The system out logs are created in the `/var/log/appdynamics-cmdb-service.log` file.

b. Windows (winsw):

Open a terminal and navigate to the `appdynamics-cmdb-service` folder where you extracted the zip file:

```
cd C:\Path-to\appdynamics-cmdb-service
```

Run the following command:

```
javaw -jar appdynamics-cmdb-service.jar
```

The Java options can be configured in the `;%HOME%/bin/appdynamics-cmdb-service-win.xml` file.

The logs are created in the `$HOME/logs` directory.

c. Other platforms:

```
java -Xms512m -jar /path/to/appdynamics-cmdb-service.jar
```

The application logs are created in the `$HOME/logs` directory.

Upgrades

1. Backup the data directory `data/` where the java sync utility is installed.
2. Overwrite the existing installation with the new file.

Setup

1. `init.d` service: The configuration file is located at `$HOME/appdynamics-cmdb-service.conf`. Add the params to the `JAVA_OPTS` property.
2. Windows service: The configuration file is located at `$HOME/bin/appdynamics-cmdb-service-win.xml`. Add the params to the `<arguments>` property.
3. `jar`: Add the params directly to the command preceding `-jar ...`


Options

- Use a different port:

```
-Dserver.port=8080
```

- Enable authentication:

```
-Dplatform.security.enabled=true # This will create a local login with the following credentials.
-Dplatform.username=user
-Dplatform.password="deFAultPwd4Platfrm"
-Dplatform.security.encrypted-key=mykey
-Dplatform.security.encrypted-salt=mysalt
```

 The encryption-key and encryption-salt are optional.

Configure the Data Sync Utility

User Roles and Permissions

The Sync Utility needs to communicate with both an AppDynamics Controller and a ServiceNow® instance. We recommend using a service account for this access:

- **AppDynamics Controller:**



The service account user requires these roles with rights to all applications to be synchronized.

- Applications and Dashboards Viewer
- Server Monitoring User—Optional if you want to enable node-to-server CI reconciliation

- **ServiceNow®:** These roles should be assigned to the ServiceNow® user account that will be posting data to ServiceNow®:



This user can be set to **web service access only** on the user form.

- If Event Management is activated in your ServiceNow® instance, add these roles:

- x_apd_appdynamics.appdynamics_role
- evt_mgmt_user
- evt_mgmt_integration
- mid_server—Optional if you want to do server CI reconciliation.
- app_service_admin—Required for sync utility v20.7.

- If Event Management is *not* activated, add these roles:

- x_apd_appdynamics.appdynamics_role
- itil
- mid_server—Optional if you want to do server CI reconciliation.
- app_service_admin—Required for sync utility v20.7.

Domain Separated ServiceNow® Instances

If your ServiceNow® instance is domain-separated, a unique user account is required for each domain you want to update in the CMDB. For each domain:

1. Create a user account as described in [User Roles and Permissions](#) with the required roles.
2. Assign this user to the appropriate domain for the applications that it needs to access.
3. Create a new ServiceNow® instance with the appropriate user for each domain.
4. Set up synchronization for the applications appropriate for each domain user.

Synchronize with the CMDB

The integration supports the synchronization of one or more ServiceNow® instances with one or more AppDynamics Controllers.

1. Log in to the Sync Utility.
 - a. Open `http://<host>:8080` on a browser.
 - b. The default username is `user` and the default password is `deFAultPwd4Platfrm`.



This can be overridden by the java startup property `-Dplatform.password=welcome`. See [Server Options](#).

2. Select the **Service Model Integration** left menu bar.
3. Click **AppDynamics Controllers** and add your Controller(s).

 If your Controller is on-premises or dedicated SaaS (single-tenant), the **Account Name** will be `customer1`.


4. Click **ServiceNow® Instances** and add your ServiceNow® instance(s).
5. Click **Synchronize** from the top menu.
6. Choose applications from the **Applications** list to export to ServiceNow®.
7. Select which **AppDynamics Relationships to Synchronize** to include:
 - **Tier to Tier**
 - **Tier to Remote** (Remote Services)
 - **Tier to Application**
 - **Node-to-Server CI**
 - Reconciles the node host with an existing Server CI and builds a **Runs** relationship with the `x_apd_appdynamics_node` running on it. See [Node-to-Server CI Reconciliation](#).
 - **Create Business Service**
 - Creates a Business Service CI (`cmdb_ci_service`) and builds a **Runs** relationship to the `x_apd_appdynamics_application` CI. See [Create Business Service CI](#).
8. Click **Run Diagnostics** to begin verification without creating any data.
 - If successful, click **Synchronize** to run a one-time synchronization.
 - If not successful, address the issues in the diagnostic messages provided.

Most integration users may like the synchronization to run at regular intervals to keep the service models. The integrated scheduler function allows for the creation and running of synchronization automatically.

UI Tab	Description
Schedules	Allows schedule creation using a cron expression. The Synchronize options on this page are the same as the other configuration panes.
History	Provides a graphical view of prior runs. You can expand each run to get details of the run, including error messages.
Settings	Provides additional settings for connection timeouts, SSL, proxy configuration, and additional static values that can be added to fields in various CMDB tables.

After the synchronization is complete, log in to ServiceNow® instance and select the AppDynamics menu item to view the tables and data associated with the integration.

Node-to-Server CI Reconciliation

 In >= 3.1, the **Node-to-Server CI** checkbox in the sync utility builds a relationship between an AppDynamics Node (`x_apd_appdynamics_node`) and the underlying host Server CI (`cmdb_ci_linux_server`, `cmdb_ci_windows_server`) in the ServiceNow® CMDB.

To use this feature, a Machine Agent with Server Visibility enabled must be installed and running on each host that supports an imported AppDynamics Node. See [Machine Agent with Server Visibility](#).

The integration uses the default ServiceNow® hardware identification rules for reconciliation:

- **Name:** AppDynamics uses the operating system-reported hostname as the value for this field, which is subject to the following **Discovery Property** settings in ServiceNow®, whether Discovery is installed or not:



The `mid_server` role must be assigned to the ServiceNow® user for the integration to read these properties.

- `glide.discovery.hostname.case`
- `glide.discovery.hostname.include_domain`
- `glide.discovery.fqdn.regex`


Refer to the ServiceNow® product documentation for more information about these properties.

- **IP Address + MAC address** (Network Adapter Table): AppDynamics uses any adapter with a valid IPv4 or IPv6 address and a MAC address.


These attributes are provided by Machine Agents with Server Visibility enabled for Controller and Machine Agent >= 4.5.0.1.

1. To avoid duplicate Server CIs being created by this integration, any discovery sources employed must adhere to the same hardware identification rules:
 - a. **Name** in the Server CI should match the system reported hostname subject to the Discovery properties described above.

- b. For each **Server Network Adapter**, the `ip_address` and `mac_address` must be populated in the Network Adapter table and related to the Server CI.

 ServiceNow® CMDB Identification and Reconciliation will not consider IP Address and MAC Address values populated on the Server CI form directly.

2. This integration identifies Linux and Windows servers and reconciles them to their respective CI classes on update or create (`cmdb_ci_linux_server` & `cmdb_ci_windows_server`).

 If a server is not Windows or Linux, no CMDB relationships will be created.

Fields Populated in ServiceNow® by Node-to-Server CI Reconciliation

For the appropriate Server Class (`cmdb_ci*_server`) and related to the parent AppDynamics Node:

ServiceNow® Server CI Field	AppDynamics Server Visibility Attribute Used
Name (<code>name</code>)	The reported Hostname—the Sync Utility reads and uses the discovery properties listed above to determine the hostname.
Hostname (<code>host_name</code>)	The reported Hostname.

Each Network Adapter reported populates the Network Adapter CI (`cmdb_ci_network_adapter`) and related parent Server CI:

ServiceNow® Network Adapter CI Field	AppDynamics Server Visibility Attribute Used
IP Address (<code>ip_address</code>)	IP Address with /x removed. Using either IPv4 or IPv6 Address as reported. If neither is populated, the adapter is not synced.
MAC Address (<code>mac_address</code>)	The reported MAC address.

Add Static Values to Required Fields

If there are required fields in your CMDB that AppDynamics does not populate, you can use the **CMDB Additional Fields** to add multiple static values per table.

1. Navigate to the AppDynamics-ServiceNow® Sync Utility.
2. Select **Settings**.
3. Select **CMDB Additional Fields**.
4. For the desired CI table, click **Add Field**.
5. Enter the ServiceNow® **Field Name** (not the label).
6. Enter the static value to populate all records of this type. For example, if you are required to populate the `hardware_status` field on all `cmdb_ci*_server` and child class records, enter "hardware_status" and then "Installed".
7. Click **Save**.

Considerations for Dynamic Application Environments

If the application environments you are monitoring with AppDynamics change frequently, you may end up with artifacts in the ServiceNow® CMDB that no longer reflect the current state of your application topology.

In order to address this, ServiceNow® provides documentation on how to configure "data refresh rules" in the CMDB so that irrelevant AppDynamics CIs can be removed. For the New York release, see [Create data refresh rules](#).

Create Business Service CI

AppDynamics Application to ServiceNow® Application Service Relationships

Health rule violation alerts related to a ServiceNow® Application Service are shown in the Event Management Dashboard. There are two ways to build this relationship based on the current state of the ServiceNow® CMDB:

If Business Services do not exist:

1. If there are no Business Service CIs in the CMDB, ensure that the **Create Business Service** checkbox is checked when initially synchronizing an application. Follow the instructions in the Sync Utility documentation that explain how to convert that CI to an Application Service (cmdb_ci_service_discovered) CI that can be shown on the ServiceNow® Event Management Dashboard. You must select six (6) levels of CIs to include in the model.



This step requires the `app_service_admin` role. See the ServiceNow® [Convert a business service to an application service](#).

If Business Services exist:

If the Business Service entities are Application Service class CIs, a relationship can be manually created between the AppDynamics Application and the ServiceNow® Application Service. To create the relationship:

1. Open the AppDynamics Application CI (`x_apd_appdynamics_application`).
2. Click **Add CI relationship**.
3. In the filter, set the "Class" - "is" - "Application Service".
4. Click **Run Filter**.
5. Select the **Application Service CI**.
6. Select the **Runs On::Runs** relationship.
7. Click **Create new relationships with selected configuration item(s)**.

AppDynamics Tier to ServiceNow® Application Service Relationships

In some cases, an AppDynamics Tier may be the correct entity to relate to a ServiceNow® Application Service. To build this relationship in the ServiceNow® CMDB:

1. Open the **AppDynamics Tier CI** (`x_apd_appdynamics_tier`).
2. Click **Add CI relationship**.
3. In the filter, set the "Class" - "is" - "Application Service".
4. Click **Run Filter**.
5. Select the **Application Service CI**.
6. Select the **Runs On::Runs** relationship.
7. Click **Create new relationships with selected configuration item(s)**.

Additional Application Relationships

The AppDynamics Application description and Tier description fields are populated in the AppDynamics Application CI (`x_apd_appdynamics_application`) and AppDynamics Tier CI (`x_apd_appdynamics_tier`) respectively:

Table	Application CI Field	AppDynamics Field Used
<code>x_apd_appdynamics_application</code>	Description (<code>short_description</code>)	Application description

Table	Tier CI Field	AppDynamics Field Used
<code>x_apd_appdynamics_tier</code>	Description (<code>short_description</code>)	Tier description

Troubleshooting

Logs

The logs are generated in the `logs/` directory where the application is installed.

Debug Logs:

To enable debug logging, edit the file `conf/log4j2.xml` and change the level of the logger `com.appdynamics` to `DEBUG`.

Read Timeouts

If you encounter any Read Timeout errors while doing the sync:

1. Increase the **Socket Timeout** value in the Settings tab up to 60,000 initially and higher if needed.
2. Reduce the **Sync Batch Size** of entities to ServiceNow® Instance.
3. Navigate to the `Installation` directory.
4. Find the `conf/application.properties` file and adjust the size value.
5. Restart the AppDynamics ServiceNow® Sync Utility service or daemon (Required).

Events Integration

This section assumes that you are familiar with the configuration of HealthRules, Policies, and Actions in AppDynamics. See [Alert and Respond](#).

The Events integration uses the HTTP templates feature in the Controller to push events to the ServiceNow® Events API. The details of the ServiceNow® Events API can be found [here](#). See [HTTP Request Actions and Templates](#).

Prerequisites

- Download and install the [AppDynamics for ServiceNow® application](#) on your ServiceNow® instance.
- Run the AppDynamics-ServiceNow® Data Sync Utility and verify that the entities are imported into your ServiceNow® instance. See [Data Sync Utility](#).
- Activate the ServiceNow® Event Management plugin.

Events Installation and Configuration

In this section, you will create an Action, configure Health Rule Violations, and create binding Policies.

Create an Action on the AppDynamics Controller

1. Log in to the web UI for the AppDynamics-ServiceNow® Data Sync Utility.
2. Select **Service Model Integration > Event Integration**.
3. Select the Controller you would like to configure. If one is not configured, see [Data Sync Utility Configuration](#).
4. Click **Download Template**.

Use the downloaded file to configure the HTTP Request template in AppDynamics. You will then create an Action and apply that action to a policy that specifies a health rule and action. To create the new Action:

1. Navigate to the **Alert & Respond** top menu in your AppDynamics Controller.
2. Click **Alert & Respond > HTTP Request Templates** in the left navigation.
3. Select the resource on which the action is to be created.
4. Click **New** and fill out the following fields:
 - a. **Name**: Any name to uniquely identify the template
 - b. **Request URL**
 - i. **Method**: POST
 - ii. **Raw URL**: `https://<your-instance>.service-now.com/em_event.do?JSONv2&sysparm_action=insertMultiple`. Replace `<your-instance>` with the id of the actual instance.
 - c. **Authentication**
 - i. **Type**: BASIC
 - ii. Enter the user name and password of your ServiceNow® instance.



Ensure you have already configured the ServiceNow® User and Roles as described in [User Roles and Permissions](#).


- d. **Payload**
 - i. **MIME Type**: `application/json`
 - ii. Copy the contents from the downloaded file, `event-request-template.txt`, and then paste it in the **Payload** text area
 - iii. Update the `controllerName` in the first line of the file. It must be the same value that you set while adding the AppDynamics Controller Name in the Sync Utility.
5. Save the HTTP Template.

Configure Health Rules on the AppDynamics Controller

1. Select the Alert & Respond tab.
2. Select **Health Rules**.
3. Use the **Select** dropdown to choose an application on which you want to alert.
4. Review the list of **Health Rules** configured out-of-the-box for that application. Add more **Health Rules** if needed.


Create a Policy on the AppDynamics Controller to Bind Health Rules to Actions

1. Select **Alert & Respond > Policies**.
2. Select **Create a Policy Manually** if there are no policies configured already.
3. Select the type of scenarios on which you want to receive alerts.

 Checking all the boxes might lead to an alert storm on your ServiceNow® instance.

4. Click **Save**.
5. Select the **Health Rule Scope** defining which tiers and nodes the Health Rule should cover and click **Save**.
6. Select the **Object Scope** and choose the **Tiers and Nodes** to be covered in this policy and click **Save**.
7. Select **Actions**.
8. Click **Add +** sign to create a new **Action**.
9. Select the ServiceNow® **Action** you created [Create an Action on the AppDynamics Controller](#) and click **Save**.

Create a Manual Entry Point for the AppDynamics Monitored Application on the Application Service CI

 If you are connecting to a ServiceNow® instance running Orlando or later, skip this section and refer to the [New Version 20.7](#) instructions.

For AppDynamics alerts to impact the health of an application service in ServiceNow® Event Management, you must create a manual entry point.

1. If you chose to have the Sync Utility create a Business Service:
 - a. Make sure you convert the service to an application service by following the prompts in the sync utility after synchronizing the application.
 - b. This conversion will add the manual entry point automatically.
2. If you already have Application Service CIs that you want to associate with an AppDynamics monitored application (or application tier):
 - a. Open the **Application Service CI** record.
 - b. Click **Add Entry Point**.
 - c. Select the AppDynamics monitored **Application** or **Tier CI Type**.
 - d. Select the name of the AppDynamics monitored application or tier to associate.
 - e. Click **Save**.
 - f. Click the **Additional Info** link.
 - g. Click the **Update with changes from CMDB UI Action** link.
 - h. Select the number of levels of related CIs to include in the new application service.
 - i. Click **OK**.

New Version 20.7

Requirements

Versions

- AppDynamics >= 4.5.0.1 is required.
- ServiceNow® instances to be synchronized must be running Orlando or greater.

New Roles

- No additional roles are needed for the service account in AppDynamics.
- The service account in ServiceNow® will also need the `app_service_admin` role.

Upgrade to Version 20.7

To upgrade an existing sync utility, follow the [upgrade](#) section. Below are some answers to questions about upgrading an existing sync utility:

What happens to existing applications that have already been synchronized?

Existing AppDynamics monitored applications and related entities that have been synchronized to a ServiceNow® CMDB from previous versions of the sync utility will remain in the CMDB. When the same application is re-synchronized using 20.7, a calculated service CI is created for those applications (or tiers) as configured. See [Creating Calculated Application Service CIs](#).

What happens to existing manual entry points?

If you created manual entry points for Application Service CIs using AppDynamics monitored application CIs `x_apd_appdynamics_application` will remain as-is. After synchronizing using 20.7 of the sync utility, a new calculated application service CI will be added to the relationships.

AppDynamics recommends that you remove any previously created entry points and create a manual entry point to the new Calculated Application Service `cmdb_ci_service_calculated` CI. To do this:

1. To remove the existing manual entry point:
 - a. Open the **Application Service CI** you are monitoring with Event Management
 - b. Click - next to the **Manually Added CI** link and click **Remove**.
2. Add a manual entry point for the calculated application service:
 - a. Open the application service CI you are monitoring in ServiceNow.
 - b. Click **Add Entry Point**.
 - c. Select **Manually Created**.
 - d. For **CI Type**, select **Calculated Application Service**.
 - e. For **CI Name**, select the name for the application you synched.

Create Calculated Application Service CIs

Orlando introduces a new CI class called Calculated Application Service `cmdb_ci_service_calculated`. This new class is dynamic and provides additional capability to automatically update a service map when relationships in the CMDB change for CIs that are part of the application service.

Some AppDynamics customers monitor applications as Tiers. With the new version 20.7, you can map AppDynamics Applications or AppDynamics Tiers to `cmdb_ci_service_calculated` CIs in ServiceNow®.

Select Tiers to Monitor as Application Services in ServiceNow®

By default, all applications monitored by an AppDynamics controller relate to a new calculated application service when synchronized for the first time with 20.7 with a **Used By::Depends On** relationship.

To sync monitored tiers to a calculated Application Service CI in ServiceNow®:

1. Navigate to **Application Mappings**.
2. Add a Controller if none exists, or select the Controller from the dropdown. A list of all the AppDynamics monitored applications in the selected Controller display in the left panel.
3. To map each tier of a monitored application to a Calculated Application Service CI, move that application to the right bucket as an **Application Group**.

Synchronize the Application Services in ServiceNow®

ServiceNow® requires that each Calculated Application Service CI (`cmdb_ci_service_calculated`) has a unique name. When synchronized for the first time using 20.7, a new Calculated Application Service CI is created with this naming convention:

- By default, each monitored application will have a Calculated Application Service CI named:
 - AppD - AppNameGoesHere (`controllerName`)
- If an application is designated as an Application Group, each monitored tier will have a Calculated Application Service CI named:
 - AppD - AppnameGoesHere:TierNameGoesHere (`controllerName`)

AppDynamics Application & ServiceNow Calculated Application CI Dashboard

Use the **View Mapped Applications** dashboard to view the mappings between AppDynamics Applications (and Tiers) and ServiceNow® Calculated Application CI.

To delete a mapping from ServiceNow®, click the red 'X' to delete the mapping from this panel. This will delete both the Calculated Application CI and the relationship displayed. The AppDynamics entities in the CMDB will remain.

Event Integration Enhancements

The Event Integration Template has several enhancements in the 20.7 release. Alerts are more easily bound to Business Transaction and Node CIs.

Support

For questions or feature requests, please contact [AppDynamics Help](#).

Integrate AppDynamics with Splunk

Related pages:

- [Splunkbase Apps](#)
- [Splunk documentation](#)

This page describes how to integrate AppDynamics and [Splunk](#). This integration provides a single, cohesive view of data and allows you to:

- Launch Splunk searches using auto-populated queries from the AppDynamics Console based on criteria such as time ranges and the node IP address.
- Push notifications on policy violations and events from AppDynamics to Splunk.
- Mine performance data from AppDynamics using the Controller REST API and push it into Splunk.

Configure Splunk Integration

1. Log in to the Controller UI as an administrator.
2. Select **Settings > Administration**.
3. Select **Integration > Splunk**.
4. Click the **Enabled** checkbox.
5. For the **URL**, enter the Splunk URL and port number.
6. Optionally, enter **Extra Query Parameters**. These parameters are appended to each Splunk search initiated from AppDynamics.
7. Click **Save**.

Launch a Splunk Search from AppDynamics

You can launch a search of Splunk logs for a specific time frame associated with a transaction snapshot from several places in AppDynamics.

To launch a Splunk search:

- You need Splunk credentials. You will only enter your credentials the first time that you launch a Splunk search. Your credentials are cached by the browser after the first login.
- Ensure the Splunk Server is running.
- Configure your browser to allow popups.

Enable Pop-ups

If you do not see a login prompt at first login, either your browser is blocking the Splunk login popup or the Splunk Server is not running.

You can access the **Search Splunk** option from the node dashboard or the business transaction dashboard.

Node Dashboard Access

1. Navigate to a node dashboard.
2. Select **Actions > Search Splunk**.

Business Transaction Dashboard

1. Select the **Transaction Snapshot** tab.
2. Right-click a transaction snapshot.
3. Select **More Actions**.
4. Select **Search Splunk**.