



# AppDynamics Application Performance Management Platform Notes

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The following notes describe 4.5.x updates to the common components of the AppDynamics Application Performance Management (APM) Platform, including changes to the cross-product elements of the Controller UI.

If an artifact has been updated, the version number of the updated artifact and its availability date are listed below. The version number corresponds to that shown on the download portal (<http://download.appdynamics.com>).

The most recent releases appear at the top of the page.



For updates to the Universal Agent, see the following page:

- [Universal Agent Notes](#)

## 4.5.17 Updates

### January, 2020

#### Enhancements

AppDynamics introduces REST APIs to perform CRUD operations on the health rules, policies and health rule schedules. You can use these APIs to create and maintain alerting configurations at scale. For more information, refer:


- Health Rule API
- Policy API
- Health Rule Schedules API

## 4.5.16 Updates

### November 14, 2019

#### Enhancements



- The flow map icon (  ) now displays next to an application in the Waterfall View snapshot.
- The Waterfall View snapshot supports only the display of downstream applications (now shown with the flow map icon).
- The Cross-BT Hovercard now shows calls from upstream business transactions.
- The AppDynamics Controller has certified support for SSO integration with the following SAML 2.0 identify providers (IDPs):
  - Okta
  - OneLogin
  - Ping Identity
  - Azure Active Directory
  - IBM Cloud Identity
- **Health Rule Schedules**

The AppDynamics health rule schedule screens have been revamped considerably to make defining and executing health rule schedules easier. You can now create a custom schedule without using a CRON expression and define a time zone specific to your application, independent of the controller time zone. This eliminates the need to adjust the time zone manually in the schedule, if your application is in a separate time zone than that of the controller. You can continue to use the health rule schedules created in the previous versions using CRON expressions. For more information, see [Health Rule Schedules](#).

- **IAM Role Delegation for CloudWatch Integration**

We have added IAM Role Delegation to allow you to connect your Amazon account to AppDynamics. AppDynamics uses the Amazon CloudWatch API to obtain metrics in near real-time from your Amazon Web Services (AWS) resources and applications. This combination of AppDynamics and AWS cloud-native monitoring helps identify and diagnose a variety of issues within a single Controller. For more information, see [Customize Flow Maps](#). Note, we don't support containerized environments at this time.

- **Dash Studio**

- Dash Studio is now available for all customers including on-premise. However, for on-premise customers it is not enabled by default and must be enabled by setting the controller administrative flag `feature.dashboards.beta.enabled` to `true`.
- [Time comparison](#) capability is now available for Dash Studio Time Series widgets (SaaS Only).

## Deprecation Notices

- As of 4.5.16, support for AMF configuration for endpoints in the Enterprise Console has been removed and is no longer required.

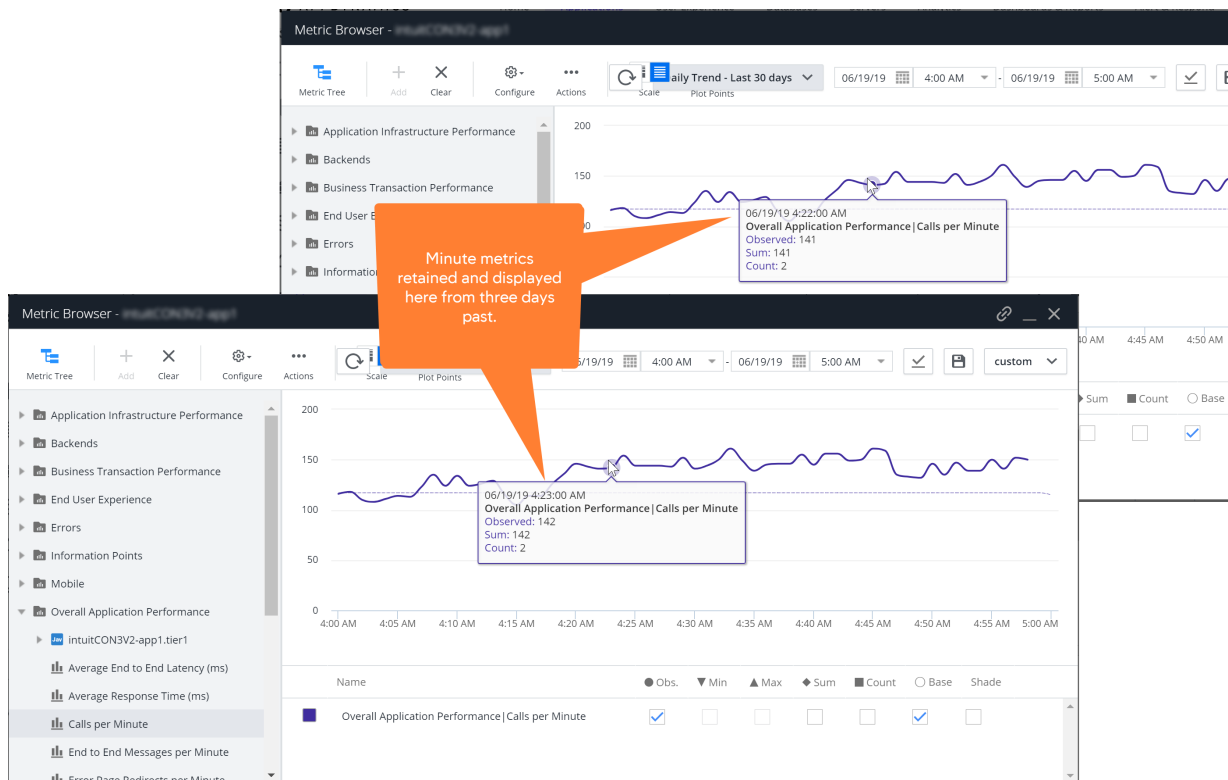
## 4.5.15 Updates

### November 1, 2019

## Enhancements

- **Metric Retention**

In AppDynamics SaaS version 4.5.15, retention of one-minute granularity of metrics data in the Controller is increased from one day to eight days. Throughout the AppDynamics SaaS version 4.5.15 interface, you can see the increase in metrics data granularity in time-series charts and grid-type windows or widgets. For example, you can see the increase in metrics granularity retention in the Metrics Browser, Custom Dashboards, Database Monitoring, Server Monitoring, Network Visibility Monitoring, End User Monitoring, and Mobile Monitoring pages. As part of this metrics data retention change for SaaS version 4.5.15, metrics data are rolled up to a lower granularity in the user interface automatically when large time ranges are selected. You can select shorter time ranges to view more granular metrics. The number of data points for any given period that is displayed in AppDynamics charts and grids depends on the browser and monitor resolution.



- **Alert and Respond**

AppDynamics now allows you to access anomaly events using predefined template variables in both HTTP request templates and email action templates. For more information, see [Predefined Templating Variables](#).

- **Dash Studio**

AppDynamics is introducing the Beta version of Dash Studio, a next generation dashboards experience designed to make building dashboards faster and easier. Dash Studio is available in the **Dash Studio (Preview Release)** tab under **Dashboards & Reports**, while your previous dashboards are still available unmodified, under the **Dashboards** tab. As we are seeking user feedback while Dash Studio is in Beta, we encourage you to provide us with feedback through the AppDynamics Community and via the **Feedback** button available within Dash Studio. Refinements and new capabilities will be added to Dash Studio Preview Release periodically over the coming months.

Dash Studio introduces the following:

- Visual Dashboard Editor
  - Responsive and Fixed Aspect Ratio Layouts
  - Redesigned Data Panel
  - Dash Studio Widgets (Time Series, Metric Number, Label)
  - Dashboard Variables
- **Deprecation Notices**

Starting in version 4.5.15, AppDynamics controllers will no longer support Swagger.

## Known Issues

- Customers who have upgraded to this controller release may find that SAML no longer works for authentication to the iOS and Android mobile apps. Upgrading them to their newest versions via the iOS App Store and Android Play Store will fix this issue.

## 4.5.14 Updates

### September 17, 2019

#### Enhancements

- **Cross-BT Correlation**

When a business transaction (BT), that represents the endpoint of a service, calls another BT that represents the endpoint of another service, that is a "cross-BT" call. This is typical of One-App-Per-Service architectures, where multiple applications each correspond to different services and BTs represent service endpoints.

Cross-BT Correlation is a new AppDynamics feature that enables you to inspect cross-BT calls, using the [Cross-BT Hovercard](#) in the Application flow map.

The hovercard provides performance data for cross-BT calls, including those that fail to reach their intended targets. This enables you to perform service monitoring, problem isolation, and root cause analysis (RCA) for applications in One-App-Per-Service architectures.

- Two new configuration options have been added to make the Reports Service more secure when communicating with the controller. To reduce Report Service port exposure, you can exclude the use of either the http or https port. You can also limit the report server listener to the localhost, to be completely secure.

## 4.5.13 Updates

### August 26, 2019

#### Enhancements

- You can now see Application context in the audit report for all the entities, enabling a better understanding of application information at the top level.

- Modifications to Business Transaction config are audited in the context of an Application
- Modifications to Alerts/Health Rules are also audited with Application Name to facilitate a consistent end-user experience
- **Application Analytics**  
Analytics now has a home page. See [Application Analytics Notes](#) for more information.
- **Alert and Respond**  
AppDynamics now allows you to define 'Persistence Thresholds' for health rule conditions. This reduces alert noise and ensures that false alerts are minimized. You can define the 'number of times metric performance data should exceed the defined threshold' to constitute a violation and subsequently trigger an alert. This way, any temporary threshold violation is ignored. For more information, see [Persistence Thresholds](#).
- **Customize Flow Maps**  
AppDynamics users can now view Amazon-hosted entities and data in several products by connecting their Amazon account to AppDynamics. AppDynamics uses the Amazon CloudWatch API to obtain metrics in near real-time from your Amazon Web Services (AWS) resources and applications. This combination of AppDynamics and AWS cloud-native monitoring helps identify and diagnose a variety of issues within a single Controller. For more information, see [Customize Flow Maps](#).
- **Transaction Snapshots**  
From **Transaction Snapshots > Overview > Summary**, you can no longer view the number of request segments by clicking **More Details**. Instead, view the number of request segments from the **Segment List** tab.

## Resolved Issues

Key	Summary
METADATA-7123	Color of tier in flow map not consistent with legend
APMPLAT-12308	Transaction detection rules are no longer duplicated
ALERT-2996	Evaluation Events are not updated when the time range changes
ALERT-3533	Unable to save the Health Rule as the Save button is disabled, post setting an incorrect boolean condition
ALERT-3686	Changing the time range does not refresh the violated events on "Evaluation Events" unless a hard refresh of the browser is performed
APMPLAT-12048	Automatic discovery rule is editable
APMPLAT-12020	Actual agent type now added to APP_AGENT type
METADATA-7054	IFrame is not usable due to X-Frame-Options header
ANLYTCS_ES-2482	Analytics - BT Flow Map not Rendering
SERVER-5862	In the Server detail view > Volume card Disk I/O now correctly displays utilization as a percentage instead of in milliseconds
SERVER-6611	404 "Not Found" error occurs when selecting a volume in the Servers page
APMPLAT-12061	Invocation Trace displays correctly
MOBSVC-199	Memory and CPU charts are invalid for rdsHostOSType = true
REPORTS-629	Reports generated for Health Category do not display data for load, response time, and error details
SERVER-6348	Install Linux RPM as the root user on RHEL 6
UIPLATF-7384	"Helvetica Neue" font appears in custom permissions data table

## Known Issues

- If you are having issues with Amazon CloudWatch Integration, see [Troubleshoot AWS Integration Issues](#).

## 4.5.12 Updates

# July 31, 2019

## Enhancements

- The **Tiers & Nodes** dashboard by default only shows the tiers and nodes that receiving performance data for the selected timeframe. You can use a filter to view tiers and nodes receiving performance data, not receiving performance data, or all tiers and nodes.
- Whenever a user is deleted from the user list, any custom dashboard that the user has created becomes non-functional with no permissions, and is unable to execute properly. This impacts all associated dashboard-based reports and shares. You can solve this problem using the **Recover** function.

## Boolean Expression to Evaluate Health Rule Conditions

You can now define a boolean expression using **AND** and **OR** operators to evaluate complex health rule conditions for entities in your application. The health rule is considered to violate if the boolean expression evaluates to 'true'. The advantages of using a boolean expression are:

- reduces the need to create multiple health rules to monitor various performance metrics. It allows you to evaluate complex criteria for multiple conditions in one go
- well-calibrated boolean expression ensures reduced false alerts
- easy to create and maintain health rules with complex evaluation criteria using simple condition names. Conditions are named as **A**, **B**, **C**, and so on
- allows the use of **AND** and **OR** operators to define a highly complex expression comprising a maximum of 8 conditions

For more information, see [Health Rule Conditions](#) and [Configure Health Rule Conditions](#).

## Support Notice

The API to enable and disable the Scopes Configuration Model is disabled for Controller versions 4.5.12 and later. AppDynamics ended support for the Scopes Configuration Model API in Controller version 4.5.11 as part of the Flex2HTML effort.

## Resolved Issues

Key	Summary
APMPLAT-7641	View button working correctly when using https endpoints
APMPLAT-11804	Time delay for characters to appear in Application search box on Home Page no longer occurs
APMPLAT-11861	Potential Issues with blank line items display correctly for error snapshot
APMPLAT-11971	Business Transactions listing page might display an extra-wide column that is not resizable
APMPLAT-12047	BTSegmentExitStat object is populated correctly
APMPLAT-12073	Invocation Trace is blank
UIPLATF-7168	Highcharts are displaying graph times in UTC instead of customer's time zone
METADATA-6729	Number of nodes shows correctly on the Tier Flow Map
METADATA-6807	Mobile app health rules are evaluated correctly
METADATA-6817	Permission to update node or tier properties is not available in Controller UI
ECONSOLE-4960	Package MySQL 5.7.26 or the latest version in the product

## 4.5.11 Updates

# July 8, 2019

## Enhancements

- Application name is added to the entities that are defined in the Controller Audit for OBJECT\_CREATED and OBJECT\_UPDATED. See [Controller Audit Log](#) for more details.
- Flash is disabled by default for the entire Controller UI.
- The Metric Browser also only shows by default the nodes for business applications that are receiving performance data for the selected timeframe. You can also use a filter to view nodes receiving performance data, nodes not receiving performance data, or all nodes.
- AppDynamics enables the monitoring of all containers on the host machine through the sim.docker.monitorAPMContainersOnly property. By default, only containers with APM agents running inside are monitored but this behavior can be changed by setting this property to false.
- You can now set permissions for the Analytics API Key on Connected Devices.

## End of Life Notice

As part of the Flex2HTML effort, we are deprecating the legacy transaction configuration model and UI in the 4.5.11 Controller release. In its place, we will be rolling all users to our existing Scopes-based transaction configuration model, which has been GA since 4.3 and is the default configuration model for all applications created in 4.3+.

The API to **disable the Scopes-based transaction configuration model** will not be supported in 4.5.11 and later Controller versions. The 4.5.11 documentation will no longer contain any references to the legacy transaction configuration model.

See our [community post](#) for more information.

## Resolved Issues

Key	Summary
ALERT-3119	Unable to edit health rule configuration values in the 'Critical Criteria' and 'Warning Criteria' tabs
ALERT-3313	Error severity icon fails to render in an email alert created using the email template
ALERT-3288	'Server' type health rules in APM do not handle SIM node deletion events appropriately
ALERT-3304	Rest API does not retrieve health-rule violations correctly
ALERT-3142	Health Rules are not evaluated on controller as indicated by error displayed on the dashboard
ANALYTICS-10851	Analytics search throws error "Current user does not have access to current account details" for all non-admin users
ANLYTCS_ES-726	From "Analytics", the call to "getAdditionalAdqlFunctions" fails with an HTTP Internal Server 500 Error
UIPLATF-6806	Widgets on the custom dashboard do not load properly when chrome language is set to the Turkish language after the controller upgrade
UIPLATF-6828	Memory graph of a tier displays major garbage collection icon for every data point even when no major collections occurred
UIPLATF-6824	Dashboard widgets do not display green color when reverse color order is checked (true) since controller upgrade was done
UIPLATF-6771	Heap status for data is displayed in the graph in bytes whereas the label displays it in MB
UIPLATF-6755	Average utilization value based on the selected time range for Heap memory displays an incorrect value
UIPLATF-6843	Gauge Widget does not show any color if the value is greater than 50% of the range
UIPLATF-7108	Highcharts are displaying graph time in UTC instead of customer's time zone
UIADMIN-1291	Deploy Controller with Flash has been disabled for all the users
APMPLAT-6143	Remote services no longer display the business transaction information in the hover when clicking on the edge



APMPLAT-11368	Reported both AsyncStart and AsyncEnd segments in a snapshot as HTTP exit calls
APMPLAT-11673	Search box in "Business Transactions >All Other Traffic >View Traffic Details" page is case-sensitive
APMPLAT-11682	Exception page is not getting refreshed when the time range is changed
APMPLAT-11716	Enable/disable backend correlation checkbox missing from the newly converted HTML UI for "Backend Detection"
EUMUI-2157	Job schedule settings display the wrong time zone in the Synthetic Hosted Agent
SERVER-6256	Server process metrics stop reporting on Windows 2012 R2
SERVER-6322	Container data is not properly updated due to a bug in the Server machine hash cache
SERVER-6407	The User Interface element Response Size (bytes) correctly displays a value of 0, instead of displaying NaNUndefined
SERVER-6437	Fixed the association between a Machine Agent and the App Server agent when running directly on the host
SERVER-6606	The Server Visibility Metric Browser existing agents report metrics correctly after upgrade to Controller 4.5.11
APMPLAT-8298	File "UnresolvedBackendCallInfoDao.jar" performs unsafe sort methods
APMPLAT-11095	Clicking the "View Dashboard During Health Rule Violation" link from "Health Rule Violation" dialog opens the Server Visibility UI
APMPLAT-11341	"View Dashboard" link from "Health Rule Violation" page is loading a different application dashboard
APMPLAT-11234	Object Instance Tracking: NullPointerException thrown when agent configuration is absent on all hierarchy levels
ANALYTICS-9588	Exporting Analytics Report as .csv not working on Windows machine
ANALYTICS-11210	Metrics on Analytics events stopped populating
DOTNET-3596	SSRS crash due to agent-bootstrap-instrumentations with the microservices agent
EUMIOT-1337	EUM metrics in the Controller did not refresh its application info cache after the EUM account changed in the Controller
SERVER-5153	"View Dashboard" link from Health Rule Violation now goes to the correct dashboard
SERVER-5549	The Machine Agent does not send authorization headers for some REST endpoints
SERVER-6273	The Tagged Metrics window now displays correctly
UIPLATF-5506	Time range selector is not available on the sharing dashboard
UIPLATF-6395	Graphs in the Memory tab do not display the correct time range as per selected custom timeframes
UIPLATF-6598	Selected server is not displayed for single metric selection on the configuration screen
UIPLATF-6200	Time series chart widget in the custom dashboard does not display large datasets
APMPLAT-12074	"Invocation Trace" is blank when navigating to "Snapshot > Slow calls and errors > Hotspots"
METADATA-6926	Health rules for mobile apps are not being evaluated

## Known Issues

There can be a short delay before non-APM containers are monitored when upgrading to the 4.5.10 Machine Agent. This happens where the user sets the `sim.docker.monitorAPMContainersOnly` property to enable monitoring of non-APM containers but also has `sim.docker.infraMode.enabled` set to `true`. In this case, non-APM containers won't be monitored until on-line schema migration happens. This takes approximately 4.5 hours after the Controller starts up.

## 4.5.9 Updates

**April 22, 2019**

### Resolved Issues

Key	Summary
ALERT-2760	Health Rule Affected Entities created using Flex may not be displayed in an HTML screen
ALERT-2998	When you edit an Action Suppression for nodes and tiers, Object Scope screen is blank
ALERT-3103	Actions get triggered through action suppression period is on
ALERT-3109	NullPointerException occurs and health rules continue to be evaluated even after the cron schedule for the health rule ends
APMPLAT-9652	Not able to edit Thread Dump Collection Interval
APMPLAT-11002	Node.js process snapshot screen in HTML5 lost a button
APMPLAT-10115	Setting PHP MVC custom match rules in the Controller UI results in exceptions when the backend creates the rule for the agent AND custom STRUTS rule (Java) to use
APMPLAT-10860	Clicking "Node Dashboard > Grid view > Node" results in the error "Invalid unresolved backend call id :xxx"
APMPLAT-10452	Information Point created from Snapshot drill down has blank class and method names
APMPLAT-11026	Exception occurs while creating or editing a PHP MVC custom match rule in Java
APMPLAT-11293	Metric graphs on the "Memory" tab displays data points in Coordinated Universal Time (UTC) instead of the browser's local timezone
DLNATIVE-1084	Creating PHP MVC custom match rule causes failed configuration and no data
METADATA-6013	Last used timestamp in ADD table is not updated for Error ADDs after matched EPM metrics are received
PLATCPS-10858	(4.5.7) Database health rules not evaluating with an external user who has roles Account Owner(default) and Administrator (default)
UIPLATF-6049	Selected color is not displayed consistently by stacked column on account
UIPLATF-5898	.NET node memory HTML screen displays incorrect data unlike the old flex screen
UIADMIN-1323	Unable to see compare releases functionality at the node level
L4A-4700	Database HRs not evaluating when configured for an INTERNAL user under a SAML account

### Deprecation Notices

- In the Scopes configuration screen of the Controller UI, the columns "Created by" and "Last modified by" have been removed.
- Once the Controller is upgraded to version 4.5.9, the Compare Releases functionality/feature will no longer be available in the Controller UI.
- Once the Controller is upgraded to version 4.5.9, the Flex screens functionality/feature will no longer be available in the Controller UI.

## 4.5.8 Updates

**March 25, 2019**

### Enhancements

- The medium-sized Controller has been certified to run on Amazon Web Services (AWS) with Aurora database support. See [Controller System Requirements](#)
- Anomaly detection and root cause analysis, powered by the Cognition Engine, is now generally available for all SaaS customers.
- The pipe '|' or colon ':' can now be used interchangeably for the metric selection to work. See [Using Wildcards in Metric Definitions](#)

### Resolved Issues

Key	Summary
PLATCPS-10096	Unnecessary debug logging creates a large log volume that affects license usage
METADATA-5774	NPE when loading ADD by bogus Id
ALERT-3030	Some health rules are not evaluated if 'HealthRuleMetricDataCache' limit is reached
ALERT-2991	Health rules are not evaluated if wild cards are used to define custom metrics in a relative path
ALERT-3078	Health rule incorrectly marks entities as violations due to isMetricTooNew() check
EUMUI-2232	EUM Session "Timeline" does not always render
MRUM-4833	Geo Region mismatch between UI, the documentation, and EUM causes the "Geo Dashboard" to not plot data
UIPLATF-1679	Unable to view the list of events on clicking Events Viewer tab under shared dashboard URL.

### Deprecation and End of Life (EOL) Notices

- As part of the Flex2HTML effort, we are deprecating On-Demand Reports. You can create reports similar to On-Demand in a few ways:
  - Create a custom dashboard that displays the data you would normally receive from On-Demand reports. Next, set the report delivery, either one-time or at regular intervals, in Scheduled Reports.
  - If your deployment is on-premises, you can defer the controller update to continue using On-Demand reports.

## 4.5.7 Updates

**February 25, 2019**

### Resolved Issues

Key	Summary
DOTNET-3544	Unable to import the .NET Agent configuration in the Controller
METADATA-5392	Data associated with snapshots is prematurely purged

METADATA-5462	Error ADD purger fails on set info points
METADATA-5729	Metric tree event handler should be before health rule event handlers
METADATA-5813	NPE when loading ADD by ID
PLATCPS-8665	Metric data missing across multiple Controller caches
PLATCPS-9634	License usage for an account is showing 0% when using a time range larger than one day
UIPLATF-5895	.NET nodes display Flex Java page instead of .NET memory metrics page
ALERT-2991	Health rules are not evaluated if wild cards are used to define custom metrics in a relative path
ALERT-3059	Event reactor cache refresh time is severely affected when Action suppression windows are configured

## 4.5.6 Updates

### February 2019

#### Resolved Issues

Key	Summary
ALERT-2805	'500 Internal Server Error' is displayed sometimes, when viewing the health rule violation from application flow-map
ALERT-2803	False health rule violation events are triggered for 'no data' although data is available when a health rule is re-enabled
ALERT-2798	Alerts triggered are missing event details and text '\${event.eventMessage}' is displayed instead, post controller upgrade to 4.5.4
ALERT-2787	Health rules list truncates description when a REST API is used to list health rule violations
ALERT-2727	Discrepancy in the health rule type reported by the Controller UI and SNMP alert
ALERT-2806	Health rule evaluates historical nodes as well, although 'All nodes in the application' filter is set
ALERT-2832	Health rule cache is not updated if metrics are purged directly without deleting entities, resulting in exceptions during the evaluation
ALERT-2871	Some health rules are not evaluated after they are updated and saved
METADATA-5554	ADD::doToDto in Metric browser causes slowness and thread pool saturation
UIADMIN-1397	License rule to allocate at least one machine agent license for every APM unit is not mandated now
UIADMIN-1398	Administration > Roles window displays empty grids
UIADMIN-1416	LDAP users are not displayed when paging is disabled and the number of users exceeds 1000
UIPLATF-5895	.NET nodes display Flex Java page instead of .NET memory metrics page

## 4.5.5 Updates

### December 21, 2018

#### Resolved Issues

Key	Summary
ALERT-2627	The 'To', 'BCC' and 'CC' email lists are not populated with email addresses when you import custom email actions using REST API
PLATCPS-9298	Remove max limit and expiry of security provider cache
UIPLATF-2900	Updating the metric is not working on the custom dashboard

## 4.5.4 Updates

### November 19, 2018

#### Resolved Issues

Key	Summary
ALERT-2605	The "Health Rules / Problems API" returns the incorrect Controller URL
UIPLATF-2900	Updating the metric is not working on the custom dashboard
UIPLATF-4893	Grids are not showing up in the UI (ad-grid)
UIADMIN-1376	Node Memory Heap Flex page crashes on the secondary account causing later Flex routes to fail
UIADMIN-1238	Unable to view exception details for more than one day

## 4.5.2 Updates

### October 15, 2018

#### Resolved Issues

Key	Summary
PLATCPS-1423	License usage REST API returns an empty set

#### Known Issues

LDAP users are not displayed when paging is disabled and the number of users exceeds 1000.

Workaround:

- Enable paging with LDAP and set the number of records returned from LDAP query to less than 1000.
- Manage LDAP user permissions through groups.

#### Deprecation and End of Life (EOL) Notices

- The Cloud Auto-Scaling functionality has been removed. Once a Controller is upgraded to 4.5.2, Cloud Auto-Scaling will no longer be available in the UI and the functionality will no longer work.

## 4.5.1 Updates

**September 5, 2018**

### Resolved Issues

Key	Summary
ALERT649	Controller does not detect service endpoints that are created after the health rule set to affect all the service endpoints is created
PLATCPS-6578	DB Agent and Machine Agent 4.5 are unable to register with 4.5 Controller (SaaS only)
PLATUI-1168	Database RBAC in Roles does not work in 4.5 RC

### Known Issues

- Flash issues have become more prevalent in 4.5.1 and onwards. All customers that use the latest version of Chrome are affected, regardless of the Controller version. See [How do I install Flash in Chrome?](#) for more information on how to enable Flash-based features.  
As a best practice, Adblock should be disabled when using the Controller UI. See [How do I disable AdBlock in Chrome?](#) for more information on how to do so.

## 4.5.0 Updates

**July 11, 2018**

### Enhancements

#### Application Performance Management

##### .NET Core for Linux SDK

The .NET Core for Linux SDK lets you monitor the performance of .NET Core applications running on Linux.

The SDK supports the following:

- Business Transaction registration and error reporting
- Exit call with correlation and error reporting
- Metrics
- Snapshots with user properties but without callgraphs

#### Audit Logging

- Audit logging coverage has been made more comprehensive. It now includes the following:
  - Failed logins
  - Changes to configuration settings, for example, health rules, policies, actions, and so on.
  - Application deletion
- Audit log, report, and API details have been enhanced to include more information about what was updated.
- Audit Reports:
  - You can use include/exclude filters in scheduled audit reports and rest API.

- There is also support for JSON and CSV formats for audit reports.
- You can enable or disable persistence of audit log state-change data using `audit.log.changes.persisted` flag in the `admin.jsp` file.

## Data Collection Dashboard

- You can view the current state of all configuration parameters that may affect your security and privacy from a single dashboard view. These settings include retention settings, custom data collectors, IP-address retention in EUM, and so on. See [Data Collection Dashboard](#) for more information.

## Custom Dashboard Viewer permissions

- A custom dashboard viewer can view all data that the dashboard owner is permitted to view on the controller-level custom dashboards, regardless of application-level or other restrictions applied on the dashboard data.

## Data Privacy Policy Dialog

- AppDynamics provides a data privacy policy reminder, in the form of a UI dialog, when you or your users configure parts of the AppDynamics products that could be used to collect regulated or other protected information. This customizable statement is present in all areas of the AppDynamics UI where data collection can be configured.

## User Management

- Authentication and authorization security enhancements have been made to the AppDynamics APM Platform in the form of scalable, securable, and admin configurable support:
  - You can create and use API Clients to provide secure access to the Controller through REST API calls. These calls now use OAuth token-based authentication over basic authentication. See [API Clients](#) for more information.
  - The SAML authentication can handle encrypted SAML responses from identity providers. You can enable SAML Encryption on the Authentication Provider of Administration on your Controller.
  - When creating usernames in SAML in Azure environments, the `UserName` attribute is used if it is passed along. The `NameID` attribute is not handled if it is passed back in Azure. If you relied on the legacy behavior of concatenating the first name and surname, then you can work around this enhancement by changing your Azure provider to return the concatenated names in the `UserName` attribute.

## UI

- The UI for configuring health rules and policies has been redesigned to create a cleaner look and make it more intuitive. For more information, see, [Configure Policies](#), [Configure Health Rules](#), [Health Rules](#), and [Mobile Health Rules](#).

## License Management

- License rules are now supported for Service Availability Monitoring (SAM). You can view the SAM license graph on the Rules tab under License.
- You can create license rules using the REST API.

## Resolved Issues

Key	Summary
ALERT716	Actions are now triggered even when "Execute Action on 100% of the Nodes" is configured
ALERT-902	Reporting of repetitive controller log files with identical content is now fixed
ALERT-945	Though the 'action suppression' configured with 'Disable Agent Reporting' is deleted, the associated agents do not report metrics until the configured action suppression time has elapsed
ALERT-2067	Cannot create health rules using synthetic job availability metrics or retrieve metrics for synthetic jobs older than a day if 'EUM LITE' license is used
ALERT-2081	REST API fails with a '500 error code' if 'CUSTOM_ACTION_STARTED' event type is present in the returned events list and if the time duration set is greater than 120 mins
ALERT-2159	Status of the customized widget for a health rule remains unchanged in the dashboard although the health rule is disabled

PLATUI-307	Application names under Roles are not in alphabetical order
PLATUI-313	Application search under Roles is case sensitive
PLATUI-346	Application search under Roles displays blank screen after scrolling
PLATUI-736	Unable to save the custom role when the dashboard search box is selected
REPORT S105	Dashboard Health List names in Hebrew are not displayed on Reports on Linux Controllers
REPORT S-152	Reports are not generated properly – includes an empty iframe
DASH-2721	Event List changes are not reflected properly on the UI.
DASH-2668	Wildcard is not working for custom metrics type, Server Component:<tier_id Or tier_name>.
DASH-2665	Health List widget fails for Server entities.
DASH-2660	War room template cannot be created with forward or backslashes in the template name.
DASH-1276	Inconsistent fetch depth is observed for Metric Tree Selector while handling custom visitors.
DASH-1245	Editing Metric Value Widget alters the existing metric title.
DASH-1231	Clicking Health rule in the health status widget displays a blank page.
DASH-1198	Support custom metrics type, Server:Component:<tier-name> in custom dashboards.
DASH-1166	After upgrading the Controller from 4.0 to 4.3.3.3 dashboards are distorted.
PLATCPS-1624	Issue with username creation in SAML
PLATCPS-3096	Snapshot information is doubled after archive operation
PLATCPS-3968	AWS 5.5MM /controller/restui/snapshot/getRequestSegmentData takes 44 seconds
PLATCPS-5591	Off-by-one error on license availability check for APM Any Language License

## Known Issues

- 4.5 SAML login requests fail post upgrade due to ADFS IdP. See [Support Advisory: 4.5 SAML login requests fail post upgrade](#).

## IBM WebSphere

- For JMX functionality to work, set a **Currently monitored statistic set** to an option other than **None** in IBM WebSphere.



