



In this scenario, all AppDynamics services are running on-premises. You have to option to AppDynamics host your Synthetic Agents on SaaS for greater geographical analysis.

Although not strictly required, we recommend using a reverse proxy such as NGINX or Apache for all server-side components.

Note: Components must be licensed separately.

- ### Key
- 1 GUI users via web browser
 - 2 Applications using the AppDynamics REST APIs
 - 3 Database Agent
 - 4 APM Agents (Java, .NET, Node.js, PHP, Python, Serverless APM for AWS Lambda, Apache Web Server, C/C++ SDK, Go Language, IBM Integration Bus) with Network Visibility
 - 5 Machine Agents (with Analytics Agent, Server Visibility, and/or AppDynamics Extensions)
 - 6 Browser and Mobile RUM Agents for web/mobile/and IoT applications
 - 7 Synthetic Agents (On-Premises)
 - 8 Synthetic Agents (Saas hosted)
 - 9 Controller Service (On-Premises)
 - 10 Events Service Cluster (On-Premises)
 - 11 EUM Monitoring Service (On-Premises)
 - 12 Custom EUM Geo Server (On-Premises)
 - 13 EUM Synthetic Server (On-Premises)

Connections

- A** Traffic: APM/Database Metrics
Protocol: HTTP(S)
Default Ports: 8090/8181
- B** Traffic: API used to Publish/Query Events
Protocol: HTTP(S)
Default Ports: 9080
- C** Traffic: Log/Transaction Analytics Event Data
Protocol: HTTPS
Default Ports: 80/443
- D** Traffic: EUM Beacon Data
Protocol: HTTP(S)
Default Ports: 80/443
- E** Traffic: EUM Geo Resolution Mapping Data
Protocol: HTTP(S)
Default Ports: 7001/7002
Note: We recommend that EUM Beacon and Geo Resolution traffic is SSL-terminated and reverse-proxied to their respective servers.
- F** Traffic: Private Synthetic Agent Data
Protocol: TCP
Default Ports: 9300/9400
- G** Traffic: Hosted Synthetic Agent Data
Protocol: HTTP(S)
Default Ports: 10001/10002
- H** Traffic: EUM Data
Protocol: HTTP(S)
Default Ports: 7001/7002
- I** Traffic: Analytics Event Data
Protocol: HTTP(S)
Default Ports: 80/443
- J** Traffic: EUM Event Data
Protocol: HTTP(S)
Default Ports: 80/443
- K** Traffic: Synthetic Server Data
Protocol: HTTP(S)
Default Ports: 7001/7002
JDBC: 3388
- L** Traffic: Synthetic Server Data
Protocol: HTTP(S)
Default Ports: 12101/12102

Data Stores

- APM Configuration and Metrics:
Controller Database (MySQL) + Metrics Service (MySQL) [9]
- EUM Configuration and Metrics:
Controller Database (MySQL) + Metrics Service (MySQL) [9]
- EUM Synthetic Agent Data:
EUM Synthetic Server [Optional On-Premises] [13]
- Transaction/Log Analytics:
Events Service (Elasticsearch) [10]
- EUM Geo Resolution Data:
Geo Server [Optional On-Premises] [12]
- EUM Events:
Events Service (Elasticsearch) [11]