



In this scenario, all AppDynamics services run on-premises. You can optionally choose to 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)

Note: We recommend that EUM Beacon and Geo Resolution traffic is SSL-terminated and reverse-proxied to their respective servers.

Connections

A	Traffic: APM/Database Metrics Protocol: HTTP(S) Default Ports: 8090/8181	I	Traffic: EUM Geo Resolution Mapping Data Protocol: HTTP(S) Default Ports: 7001/7002
B	Traffic: Controller MySQL (also used for replication) with recommended dedicated link Protocol: HTTP(S) Default Ports: 80/443	J	Traffic: Private Synthetic Agent Data Protocol: HTTP(S) Default Ports: 80/443
C	Traffic: API used to Publish/Query Events Protocol: HTTP(S) Default Ports: 9080	K	Traffic: Hosted Synthetic Agent Data Protocol: HTTP(S) Default Ports: 10001/10002
D	Traffic: Log/Transaction Analytics Event Data Protocol: HTTP(S) Default Ports: 80/443	L	Traffic: Synthetic Server Data Protocol: HTTP(S) Default Ports: 7001/7002 JDBC: 3388
E	Traffic: Events Service Load-Balancing Protocol: HTTP(S) Default Ports: 9080/9081	M	Traffic: Synthetic Server Data Protocol: HTTP(S) Default Ports: 12101/12102
F	Traffic: Events Service Elasticsearch Data Protocol: TCP Default Ports: 9300/9400	N	Traffic: EUM Data Protocol: HTTP(S) Default Ports: 7001/7002
G	Traffic: EUM Beacon Data Protocol: HTTP(S) Default Ports: 80/443	O	Traffic: Analytics Event Data Protocol: HTTP(S) Default Ports: 80/443
H	Traffic: EUM Beacon Data Protocol: HTTP Default Ports: 7001/7002	P	Traffic: EUM Event Data Protocol: HTTP(S) Default Ports: 80/443

Data Stores

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