



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)

### Connections

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

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