

AIQ Onsite Trial Requirements

The AIQ trial is a self contained instance that runs on Windows and has the database installed locally. It is designed for proof of value testing of AIQ.

Trial parameters:

- Up to four users accessing the Controller from their own browser.
- One hundred parallel API-level tests.
- Five to ten parallel UX (GUI) level tests.

Values based on maximum trial configuration recommendation. UX-level test capacity is also impacted by web site's browser memory footprint and CPU load.

Controller

The AIQ Controller is the primary point of communication and information exchange for Appvance IQ.

Windows

- #5FBC5E or newer
- 6+ CPU Cores
- 16+ GB Memory
- 100 GB SSD
- Java GraalVM 11 (64-bit)

Installing the Controller on a Windows machine is only supported for AIQ trials. For production level systems, the Controller must be install on Linux.

Test Nodes

Appvance Test Node(s) run on individual machines. Test Nodes are also known as Load Generators. The Controller provides tests for each Test Node to run.

Sizing of the Test Node is dependent on the number of concurrent tests you want to run. The more concurrent tests, the more CPU and memory required. Refer to the Test Node Capacity Load Generator Table below.

- Windows Server 2022 or newer
- 6+ CPU Cores
- 16+ GB Memory
- 100 GB SSD
- Java GraalVM 11 (64-bit)

Test Node Capacity Load Generator Table

Estimated capacity per server or VM (varies greatly with application complexity)

Assumes E7 or newer Intel cores or EPYC AMD cores @3Ghz+.

Refer to the table below to determine Test Node capacity and configuration needs:

CPU Cores	Minimum Memory	Minimum UX-Level Browsers	Max likely UX-Level Browsers	HAR Protocol Level VU	JMeter Protocol Level tests
4	8 GB	4	8	100	20
6	12 GB	6	12	150	30
8	16 GB	8	16	250	40
12	24 GB	12	24	500	60
16	32 GB	16	32	1000	80
32	64 GB	32	32	2500	160
64	128 GB	32	64	5000	320
128	256 GB	32	64	10000	640

Using the latest Chrome browser, poor linear scalability is experienced after 30 browsers regardless of the size of the test node.

Example System Requirement Calculation

If a test specification requires UX tests to run 1000 virtual users, and each test node has an 8 Core CPU with 12 GB RAM, then 20 test nodes are required.

Calculated as:

- Test Nodes Required = Total Virtual Users / Virtual Users per Test Node

- (from the above example) 20 Test Nodes = 1000 Virtual Users / 50 Virtual Users per Test Node

Repository

The Repository can use the local file storage on the Controller or any other supported repository type such as Git or SVN.

Browsers

Browsers accessing Appvance IQ via a browser. AIQ supports the latest versions of the following browsers:

- Apple Safari
- Google Chrome
- Microsoft Edge
- Mozilla Firefox

AIQ no longer supports the use of Internet Explorer. Contact support@appvance.ai for questions regarding alternate browser versions.

End-User System

- 6+ CPU Cores (at least Intel® Xeon E5 Class processor)
- 8+ GB Memory
- Java GraalVM 11 (included with Appvance IQ end-user setup)

Network Configuration

The end user systems will access AIQ only from a browser. The following ports must not be in use, and must permit internet access.

Port	Description	Requirement
8080 8443	HTTP navigation to server	Must permit internet access (not blocked by firewall for outbound traffic)
9090 9091	Test Designer client (internally open only)	Must not be in use.

Designer Proxy

End user machines must have permissions to install a proxy in the browser. You must have the Designer Proxy installed before you can begin using AIQ. You will be prompted by AIQ to install the proxy.

- Test Designer folder (AIQ 4.10.x and earlier)

- Windows default path: C:\TestDesigner
- Mac default path: \$HOME/TestDesigner

- Test Designer folder (AIQ 5.0.0+)

- Windows default path: C:\WebDesigner
- Mac default path: \$HOME/WebDesigner

Security Port Requirements

Following are the list of ports that need to be open in the server that will host Appvance IQ.

These port configurations apply to both the Controller and the Test Nodes.

Port	Description
3306	Port access between AIQ Controller and MySQL service/server (if applicable)
9095 -9100	From end-user computer outbound to AIQ Controller (required only for recording HTTP traffic from end-user computer)
8080	HTTP port. Outbound access from the Controller and between all Test Nodes (Either 8080 or 8443 is required, not both)
8443	HTTPS port. Outbound access from the Controller and between all Test Nodes (Either 8080 or 8443 is required, not both)
9090	Test Designer port, required for internal use within Controller and Test Nodes (not external)
9091	Test Designer port, required for internal use within Controller and Test Nodes (not external)
8090	Security Testing required only within the controller and test nodes (internal to each system only)

In addition to these ports, the Database must be enabled to allow incoming connections from Controller (recommended on same box for trials) and Test Node machines.

You may also use our [compatibility check utility](#) to determine the readiness of your machines.

Anti-Virus Recommendations

The Appvance IQ installation package is sizable and the vast majority of the contents will never change between installations or upgrades. Because of this, you can exclude the AIQinstallation folder from the scheduled daily / weekly / monthly scans. Doing so will reduce the time and resources devoted to these scans. Also if these folders are not excluded, you may see some unexpected behavior in AIQ.

For example, this may impact scenario executions, specially on DS and DS3 engines that write many temporary files for requests and responses.

Following are some of the top Anti-virus programs from which the files and folders of Appvance IQ should be excluded:

- AVG Anti-virus
- Avast Anti-virus
- Kaspersky Anti-virus
- McAfee Virus Scan
- Norton Anti-virus
- Symantec Endpoint protection
- Windows Defender

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If you have any feedback on this topic, please contact us at documentation@appvance.ai

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