Worqference 2023

Systematically start Web Load Testing using Apache JMeter

Instructor: Sandeep Garg

Prerequisites

***Java and OS*:**

https://jmeter.apache.org/usermanual/get-started.html

https://cwiki.apache.org/confluence/display/JMETER/JMeterAndOperatingSystemsTested

1.1 Requirements

JMeter requires that your computing environment meets some minimum requirements.

1.1.1 Java Version

> JMeter is compatible with Java 8 or higher. We highly advise you to install latest minor version of your major version for security and performance reasons.

Because JMeter uses only standard Java APIs, please do not file bug reports if your JRE fails to run JMeter because of JRE implementation issues.

> Although you can use a JRE, it is better to install a JDK as for recording of HTTPS, JMeter needs `keytool` utility from JDK.

1.1.2 Operating Systems

JMeter is a 100% Java application and should run correctly on any system that has a compliant Java implementation.

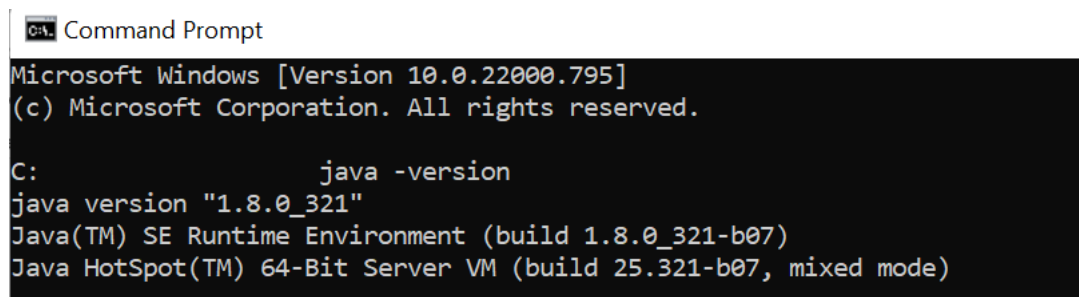Operating systems tested with JMeter can be viewed on this page on JMeter wiki.

Even if your OS is not listed on the wiki page, JMeter should run on it provided that the JVM is compliant.

Java Downloads for All Operating Systems : JMeter 5.5 requires Java 8+

Is Java installed? Please check using Command Line e.g.

C:\Users\TestUser>java -version

and the results would be something like below.

JMeter 5.5 Download - Windows and Mac:

https://jmeter.apache.org/download_jmeter.cgi >
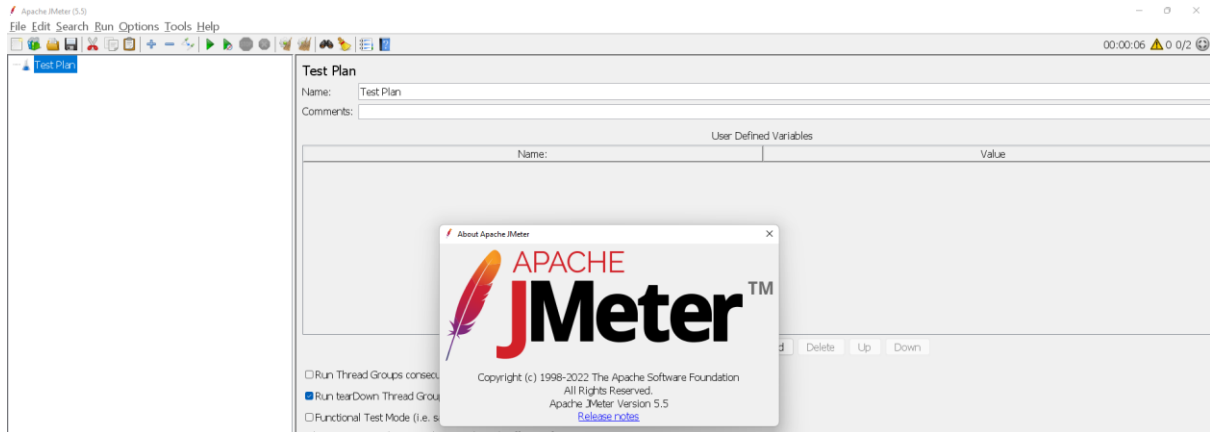https://dlcdn.apache.org//jmeter/binaries/apache-jmeter-5.5.zip

Other Requirements – Please refer to this but don't worry if your machine configurations (on which JMeter is extracted) don't exactly match the configurations as it is. This is a hands-on workshop covering simple load simulations.

JMeter Running - Command Line Execution

Go to the *bin subdirectory* in the main directory where JMeter 5.5 is extracted and run the *jmeter.bat* file

C:\Users\TestUser\WQF2023\Apache_JMeter_5.5\bin\jmeter.bat

*If everything goes well, you must see a screen like below showing JMeter GUI running. If not, please troubleshoot.

Add BlazeMeter Chrome Extension from <u>here</u> **[Optional]**

Web Browsers: Firefox [Preferred] and Chrome *[Most updated versions]*

Postman: https://www.postman.com/downloads/ **[Optional]**

Other supporting information for the session:

1. Please have a running internet connection [15-20 MBPS to the least as it should be sufficient for a smooth communication].
2. Please be camera ready and test your microphones as well as this will be an interactive session.
3. The instructor will use a Windows 11 | 16 GB RAM, machine and **Apache JMeter 5.5** for the necessary hands-on for this workshop.