JMeter
Upskill Training

JMeter

- **Performance Testing:** Monitoring and measuring overall performance of an application regardless of load. It is an umbrella term where the concern is to collect metrics such as availability, response time and stability.

- **Load Testing:** Applying simulated load to an application and measuring the impact on the application performance.

- **Stress Testing:** Subjecting the application to a load to find out the point where the application breaks and understand how the system recovers.

Performance Testing Tools

- **Apache JMeter**
- LoadNinja
- WebLoad
- SilkPerformer
- LoadRunner
- LoadView
- NeoLoad
- SmartMeter
- AppLoader
- Gatling
- BlazeMeter

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JMeter

- The **Apache JMeter** application is an open source software, pure Java application designed to test and measure performance of an application under load.

- Supports different protocols/services like HTTP, Web Service, LDAP, JDBC, Java, FTP etc.

- Supports distributed testing (remote start option).

- Records and plays back the user activity on the browser.

- JMeter can be used to simulate a heavy load on a server.

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Installing JMeter

Downloading JMeter

- Java 8 or above is required for JMeter

- Use latest version of JMeter

- Download the **binary.zip** file from the following link: https://jmeter.apache.org/download_jmeter

- Extract the zip file and browse the JMeter/bin directory.

- **Mac:** Use the terminal to open JMeter,

  - either drag the **jmeter.sh** file and hit enter

  - or in the terminal navigate to the jmeter/bin directory and run the following command: sh jmeter.sh

- **Windows:** Find the **jmeter.bat** file and double click the file

Best Practices

- Identify performance testing requirements for the project and use correct number of users based on your test scenario, hardware capabilities and application server

- Demo websites to practice:
  - https://blazedemo.com
  - https://www.demoblaze.com
  - https://computer-database.gatling.io/computers
  - https://petstore.octoperf.com/actions/Catalog.action

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