JMeter Glossary - Questions & Answers

# Basics

* Q: What is JMeter?

A: JMeter is an open-source tool for performance and load testing developed by Apache.

* Q: Is JMeter free?

A: Yes, JMeter is open-source and free to use.

* Q: What is JMeter used for?

A: It is used for testing performance of web apps, APIs, databases, and servers.

* Q: Who develops JMeter?

A: The Apache Software Foundation maintains JMeter.

* Q: What type of testing can JMeter do?

A: JMeter can perform load testing, stress testing, functional testing, and API testing.

# Architecture

* Q: What is a Test Plan in JMeter?

A: A container for all test components, defining what to test and how.

* Q: What is a Thread Group?

A: Defines the number of virtual users and their behavior during the test.

* Q: What is a Sampler in JMeter?

A: A request that JMeter sends to the server, like HTTP Request or JDBC Request.

* Q: What are Listeners in JMeter?

A: Components that collect and display test results in graphs, tables, or logs.

* Q: What are Config Elements?

A: Settings used to configure requests, like HTTP Request Defaults.

# Performance Testing

* Q: What is Load Testing?

A: Testing how a system performs under expected user load.

* Q: What is Stress Testing?

A: Testing how a system behaves under extreme load beyond its limits.

* Q: What is Spike Testing?

A: Sudden increase in load to see how the system reacts.

* Q: What is Endurance Testing?

A: Running a test for a long period to check stability and memory leaks.

* Q: What is Throughput in JMeter?

A: The number of requests handled by the server per second.

# Components

* Q: What is an Assertion in JMeter?

A: Used to validate responses, such as checking if text exists in a response.

* Q: What is a Timer in JMeter?

A: Used to pause between requests to simulate real user behavior.

* Q: What is a Pre-Processor?

A: Runs before a sampler to modify requests or set conditions.

* Q: What is a Post-Processor?

A: Runs after a sampler to extract data or perform checks.

* Q: What is a Controller in JMeter?

A: Controls the flow of requests, like Loop Controller or If Controller.

# Advanced

* Q: What is Distributed Testing in JMeter?

A: Running tests on multiple machines to simulate higher loads.

* Q: What is JMeter CLI mode?

A: Running JMeter in command-line mode without a GUI, useful for CI/CD.

* Q: What is Non-GUI mode in JMeter?

A: A mode to execute tests without the graphical interface for better performance.

* Q: What is a JDBC Sampler?

A: A sampler used to test database queries.

* Q: What is a JSR223 Sampler?

A: A sampler that allows scripting with Groovy or other supported languages.

* Q26: Placeholder question about JMeter

A26: Placeholder answer for Q26

* Q27: Placeholder question about JMeter

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* Q28: Placeholder question about JMeter

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