



JMETER

Introduction:

- ✓ Overview of Performance Testing
- ✓ Performance Testing Concepts
- ✓ Performance Testing Types
- ✓ Why to use performance Testing tool?
- ✓ What is JMeter?

Running JMeter:

- ✓ JMeter's Classpath
- ✓ Using a Proxy Server
- ✓ Non-GUI Mode
- ✓ Distributed Mode

Introduction to Elements of JMeter Test Plan:

- ✓ Thread Group
- ✓ Controllers
- ✓ Samplers
- ✓ Logic Controllers
- ✓ Listeners
- ✓ Timers
- ✓ Assertions
- ✓ Configuration Elements
- ✓ Pre-Processor Elements
- ✓ Post-Processor Elements

Building a Test Plan:

- ✓ Adding and Removing Elements
- ✓ Loading and Saving Elements
- ✓ Configuring Tree Elements
- ✓ Running a Test Plan



Adding Users:

- ✓ Adding Default HTTP Request Properties
- ✓ Adding Cookie Support
- ✓ Adding HTTP Requests
- ✓ Adding Post-Processor for Correlation
- ✓ Adding a Listener to View/Store the Test Results
- ✓ Saving the Test Plan
- ✓ Running the Test Plan

Recording Tests Using JMeter:

- ✓ Creation of Thread Group
- ✓ Adding HTTP Proxy Server
- ✓ Configuring HTTP proxy server
- ✓ Configuring the browser for recording the test script
- ✓ Capturing the test steps using JMeter

Handling the dynamic server values:

- ✓ Handling User Sessions with URL Rewriting
- ✓ Using a Header Manager
- ✓ Handling the dynamic server values
- ✓ Parameterize the user sessions

Parameterize with test data:

- ✓ Identifying the test data on AUT
- ✓ Open a csv file with JMeter
- ✓ Reading the data from CSV files
- ✓ Using the parameters in JMeterTests

Adding Assertions to the test script:

- ✓ Validating the response data related issues
- ✓ Validating the response size related issues
- ✓ Validating the threshold for the server response times



- ✓ Running the tests and analyzing the Assertion results

Building a Monitor Test Plan:

- ✓ Adding Server
- ✓ Adding HTTP Requests
- ✓ Adding Constant Timer
- ✓ Adding a Listener to View/Store the Test Results
- ✓ Adding Monitor Results
- ✓ Saving the Test Plan
- ✓ Running the Test Plan

Running Multiple Scripts with JMeter:

- ✓ Creating multiple test thread groups
- ✓ Calling the multiple thread groups from a test plan
- ✓ Configuring the threads groups with respective users numbers and ratios
- ✓ Running the load test for multiple thread groups from a Single Test
- ✓ Analyze the user group specific issues
- ✓ Analyze the Test plan specific issues for all user groups

Reporting and Analyzing the Results:

- ✓ Adding the Assertion Results and monitoring
- ✓ Configuring and Generating the Distribution Graph
- ✓ Configuring and Generating the Graph Full Results
- ✓ Generating the Monitor Results
- ✓ Saving the data through Simple Data Writer
- ✓ Configuring and Generating the Spline Visualizer
- ✓ Generating the Aggregate Graph for multi group test
- ✓ Generating the Aggregate Report for multi thread group test
- ✓ Generating the Summary Report



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Best Practices:

- ✓ Limit the Number of Threads
- ✓ Where to Put the Cookie Manager
- ✓ Where to Put the Authorization Manager
- ✓ Reducing resource requirements
- ✓ BeanShell server
- ✓ Distributed Testing