JMETER

Introduction:

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

Running JMeter:

- JMeter'sClasspath
- 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 Mutiple Scripts with JMeter:

- Creating multiple test thread groups
- Calling the multiple thread groups from a test plan
- Configuring the threads groups with respetive 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

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