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

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Adding Users

- Adding Default HTTP Request Properties
- Adding Cookie Support
- Adding HTTP Requests
- Adding Post-Processor for Correlation
- Adding a Listener to Store or View 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 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 test and analyze the Assertion results

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Building a Monitor Test Plan

- Adding Server
- Adding HTTP Requests
- Adding Constant Timer
- Adding a Listener to View or 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 group from a test plan
- Configuring the thread groups with respective users number and ratio
- Running the load test for multiple thread groups from a Single Test case
- Analyze the user group-specific issues
- Analyze the Test plan-specific issues for all users group

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 result
- Generating the Aggregate Report for multi thread group test case
- 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

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