

Chapter 1: Performance Testing Fundamentals

Day-1

- The incident
- The aftermath
- Performance testing
- Performance testing and tuning
- Baselines
- Load and stress testing
- JMeter to the rescue
- Up and running with JMeter
- Installation
- Installing the Java JDK
- Setting JAVA_HOME
- Running JMeter
- Tracking errors during test execution
- Configuring JMeter
- Summary

Chapter 2: Recording Your First Test

Day-1

- Configuring the JMeter HTTP proxy server
- Setting up your browser to use the proxy server
- Using a browser extension
- Changing the system settings
- Running your first recorded scenario
- Anatomy of a JMeter test
- Test Plan
- Thread Groups

- Controllers
- Samplers
- Logic controllers
- Test fragments
- Listeners
- Timers
- Assertions
- Configuration elements
- Pre-processor and post-processor elements
- Summary

Chapter 3: Submitting Forms

Day-2

- Capturing simple forms
- Handling checkboxes
- Handling radio buttons
- Handling file uploads
- Handling file download
- Handling the XML response
- Summary

Chapter 4: Managing Sessions

Day-2

- Managing sessions with cookies
- Managing sessions with URL rewriting
- Summary

Chapter 5: Resource Monitoring

Day-3

- Basic server monitoring
- Setting up Apache Tomcat Server
- Configuring Tomcat users
- Setting up a monitor controller in JMeter
- Monitoring the server with a JMeter plugin
- Installing the plugins

- Adding monitor listeners to the test plan
- Summary

Chapter 6: Distributed Testing

Day-3

- Remote testing with JMeter
- Configuring JMeter slave nodes
- Configuring one slave per machine
- Configuring the master node to be tested against one slave per machine
- Configuring multiple slave nodes on a single box
- Configuring the master node to be tested against multiple slave nodes on a single box
- Executing the test plan
- Viewing the results from the virtual machines
- Summary

Chapter 7: Timers and Functions

Day-4

- JMeter properties and variables
- JMeter functions
- The Regular Expression tester
- The Debug sampler
- Using timers in your test plan
- The Constant timer
- The Gaussian random timer
- The Uniform random timer
- The Constant throughput timer
- The Synchronizing timer
- The Poisson random timer
- The JDBC Request sampler
- Configuring a JDBC Connection Configuration component
- Adding a JDBC Request sampler
- Summary

Chapter 8: Helpful Tips

Day-4

- JMeter integration with selenium
- Handling FTP request
- Installing CA certificate in the browser

- Testing REST web services
- Parameterization using CSV File
- Parameterization using Test Plan
- Summary