



Designing an Effective Performance Test Using LoadRunner Controller 9.0

WORKSHOP OVERVIEW

In this workshop, students will learn how to design and execute a successful performance test against a web application. Each topic is supported by hands-on exercises that are based on real-life examples designed to provide you with the knowledge necessary to use the tool efficiently and effectively. The workshop focuses on Performance / Capacity planning. Approximately 60% of the workshop is on tool usage.

The goal of the Workshop is to enable students to use the Application Delivery product for application performance testing according to tried and trusted Best Practices and implement it correctly. The Workshop will demonstrate common performance testing methodologies and industry accepted best practice to build a performance test of a web application. Upon completion, the student will be able to take the concepts learned and apply them to any application environment. It does not include planning phase (Performance Test Management workshop), and VuGen Scripting (Performance Testing with VuGen).

WORKSHOP OBJECTIVES

- LoadRunner Controller interface
- Building a Test Scenario
- Configuring LoadRunner Monitors
- Troubleshooting Test scenarios
- Performance Test Execution
- Using LoadRunner Analysis
- Root Cause Analysis
- Creating meaningful reports
- Best practices

PREREQUISITES

- Basic concepts of Quality Assurance.
- Knowledge of at least one of the following DB administration, Application Programming, networking, or performance testing and troubleshooting
- Visual Basic, VB Script, Java, or 'C' programming

INTENDED AUDIENCE

- Web Application Programmers
- Database Administrators
- Network Administrators
- Performance Test Team Leads
- Performance Test Script Developers

RELATED WORKSHOPS

- Performance Test Management
- Performance Testing with VuGen
- Advanced J2EE diagnostics
- Performance Testing with SiteScope
- Performance Testing with Shunra

DURATION: 1 DAY



COURSE OUTLINE

Performance Testing with LoadRunner Controller

Intro to LoadRunner Controller

- Look and feel of Controller
- Design Tab
- Run Tab
- LR Console
- Applications
- Tools

Building a Test Scenario

- Configuring LR to match your system profile
- RunTime Settings
- Scheduler
- Defining a Load Generator
- Creating an SLA
- Selecting Monitors

Configuring LoadRunner Monitors

- Commonly used LR monitors
- Choosing Measures
- Matching measures to performance testing goals

Troubleshooting Test scenarios

- Multi-User Contention
- Load Generator requirements
- Troubleshooting a Load Generator
- Windows Monitor requirements
- Troubleshooting a Windows Monitor
- Unix Monitor requirements
- Troubleshooting a Unix Monitor
- Database monitor requirements
- Troubleshooting a Database monitor

Performance Test Execution

- Creating a scenario Checklist
- LoadRunner during test execution

Root Cause Analysis with LR Analysis

- What does LR Analysis do?
- File types in LR Analysis
- Creating Graphs
- Configuring Graphs
- Creating Reports

Optional: Creating Meaningful Reports

- HTML Reports
- MS Word Reports
- Third Party Reports



Best Practices

- Analysis best practices
- Reporting best practices
- Controller best practices