

Load Test with LoadRunner Controller

Course Summary

Description

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).

Topics

- Intro to LoadRunner Controller
- Building a Test Scenario
- Configuring LoadRunner Monitors
- Troubleshooting Test scenarios
- Performance Test Execution
- Root Cause Analysis with LR Analysis
- Optional: Creating Meaningful Reports
- Best Practices

Audience

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

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

Duration

One day

Due to the nature of this material, this document refers to numerous hardware and software products by their trade names. References to other companies and their products are for informational purposes only, and all trademarks are the properties of their respective companies. It is not the intent of ProTech Professional Technical Services, Inc. to use any of these names generically

Load Test with LoadRunner Controller

Course Outline

- I. Intro to LoadRunner Controller**
 - A. Look and feel of Controller
 - B. Design Tab
 - C. Run Tab
 - D. LR Console
 - E. Applications
 - F. Tools
 - E. Troubleshooting a Windows Monitor
 - F. Unix Monitor requirements
 - G. Troubleshooting a Unix Monitor
 - H. Database monitor requirements
 - I. Troubleshooting a Database monitor
- II. Building a Test Scenario**
 - A. Configuring LR to match your system profile
 - B. RunTime Settings
 - C. Scheduler
 - D. Defining a Load Generator
 - E. Creating an SLA
 - F. Selecting Monitors
- III. Configuring LoadRunner Monitors**
 - A. Commonly used LR monitors
 - B. Choosing Measures
 - C. Matching measures to performance testing goals
- IV. Troubleshooting Test scenarios**
 - A. Multi-User Contention
 - B. Load Generator requirements
 - C. Troubleshooting a Load Generator
 - D. Windows Monitor requirements
- V. Performance Test Execution**
 - A. Creating a scenario Checklist
 - B. LoadRunner during test execution
- VI. Root Cause Analysis with LR Analysis**
 - A. What does LR Analysis do?
 - B. File types in LR Analysis
 - C. Creating Graphs
 - D. Configuring Graphs
 - E. Creating Reports
- VII. Optional: Creating Meaningful Reports**
 - A. HTML Reports
 - B. MS Word Reports
 - C. Third Party Reports
- VIII. Best Practices**
 - A. Analysis best practices
 - B. Reporting best practices
 - C. Controller best practices