

Performance Testing using LoadRunner

Overview

- LoadRunner Architecture
- LoadRunner Testing Process

Planning an Effective Load Test

- Define measurable goals for testing
- Gather information before testing
- Document and organize system information

LoadRunner Installation (Simple briefing)

- Where to install LoadRunner Components
- Identify Hardware and Software needed for Installation

Recording

- Structure the script based on planning
- Use VuGen to record a Vuser script for Web environment
- Describe HTML and URL recording levels
- When to use HTML and/or URL recording levels

Playback

- Identify the appropriate web Run-time settings to set
- Configure Web Run-time settings to run the script
- Verify Vuser script functionality in VuGen

Actions and Transactions

- Create multiple actions in a Vuser script
- Configure actions to achieve load testing goals
- Add Transaction to measure response times

Parameters

- Solve play back problems by Parameterizing the script

Checkpoints

- Identify visual cues to check for during load testing
- Add Text Checkpoints during and after recording

Manual Correlation

- Distinguish between available correlation methods
- Correlate a script manually using correlation functions
- Correlation during and After recording
- Correlation after recording

- Use the scan for correlation tool
- Correlate data during recording
- Define rules for correlation in Recording Options
- Enable correlation during recording

Introduction to Scenarios

- Explain elements that make a LoadRunner scenario
- Identify different types of scenarios
- How to choose the scenario
- Present the basic steps for creating a scenario

Using Run-Time setting

- Script and scenario Run – Time settings
- Configure Run-Time settings in the Controller

Scenario Execution

- Prepare for a scenario run
- Identify techniques to efficiently run a scenario

Scheduling Scenarios

- Scheduling group and by scenario
- Prepare VuGen user (Vuser) Initialization
- Configure Scenario ramp up and ramp down

Performance Monitors

- Value of Performance Monitors
- Select Performance Monitors
- Add measurements to Performance Monitors
- Performance Overlays to track down bottlenecks

Results Analysis

- Value of root cause analysis – resources bottleneck, code loops
- Diagnose errors with LoadRunner Application and Architecture
- Meaningful interpretation of LoadRunner graphs

Advance Course Content

- Best Practices
- Test Types
- Reporting formats