

LoadRunner v12.5x Essentials with TruClient Scripting

Course Summary

Description

This course introduces students to HP LoadRunner. You will learn about issues related to creating, running and maintaining scenarios in the LoadRunner Controller. The students will learn how to use the Analysis tool to analyze load test results.

This course also covers issues related to recording web based applications in the LoadRunner VuGen program focusing on planning and recording of the test script, enhancing the test and adding custom code.

Lastly, the students will learn how to use the TruClient protocol to create advanced Web scripts. The numerous hands-on lab exercises are designed to provide you with the knowledge necessary to create scripts in VuGen, execute scenarios in the Controller, and view the results in the Analysis tool.

Topics

- LoadRunner Functionality and Terminology
- Planning a Script
- Recording and Running a Script
- Run-Time Settings
- Transactions
- Verifications
- Correlation After Recording
- Correlation during Recording
- Parameters
- Planning a Scenario
- Creating a Scenario
- Running a Scenario
- Scheduling
- Service Level Agreements
- Monitoring
- Basic Analysis
- Advanced Scripting
- Manual Correlations
- Intro to Advanced Scripting
- Advanced Parameters
- Advanced Analysis
- Performance Analysis and Tuning Approach
- Graph options
- Reporting – Analysis and HTML Reports
- Reporting - Templates and Reports
- TruClient
- Overview of TruClient
- TruClient Fundamentals
- TruClient Script development
- Advanced TruClient

Audience

This course is designed for performance engineers, technical managers, and software engineers.

Prerequisites

Before taking this class, some basic programming knowledge would be useful, however it is not mandatory.

Duration

Five days

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Course Outline

- I. LoadRunner Functionality and Terminology**
 - A. Discover the capabilities of LoadRunner while learning LoadRunner specific terminology.
- II. Planning a Script**
 - A. Determining what steps to perform
 - B. Consider data and data usage
- III. Recording and Running a Script**
 - A. Recording Options
 - B. Recording the test case
 - C. Running a test and verify the results
- IV. Run-Time Settings**
 - A. Setting appropriate logging option
 - B. Controlling the number of iterations to playback
 - C. Think times and Pacing settings
- V. Transactions**
 - A. Add Transactions during recording
 - B. Add Transactions after recording
- VI. Verifications**
 - A. Add a verification during recording
 - B. Add a verification after recording using the keyword view screenshots
- VII. Correlation After Recording**
 - A. Use the Scan for Correlations tool
 - B. Create correlations
- VIII. Correlation during Recording**
 - A. Add a rule to the recording options
 - B. Parameterize and correlate the script
 - C. Use Checkpoint
- IX. Parameters**
 - A. Adding Parameters in the keyword view, and in the script view
 - B. Create a file type parameter
- X. Planning a Scenario**
 - A. Determining which test cases to test
 - B. Determine rates of business process usage
- XI. Creating a Scenario**
 - A. Create a new Manual Scenario
 - B. Adding Scripts, Load Generators and Vusers
 - C. Setting and displaying the Vuser status
- XII. Running a Scenario**
 - A. Defining Run-time settings
 - B. Viewing the replay logs
- XIII. Scheduling**
 - A. Per Script vs. Per Group Scheduling
 - B. Scheduling actions, ramp up, ramp down, initialization
- XIV. Service Level Agreements**
 - A. Configure SLA rules
- XV. Monitoring**
 - A. Adding a monitor
 - B. Configuring the monitor
- XVI. Basic Analysis**
 - A. The Summary Report
 - B. Graphs
 - C. Graph options - granularity, filters, merging graphs
 - D. generating reports
- XVII. Advanced Scripting**
- XVIII. Manual Correlations**
 - A. Determine appropriate left and right boundaries and ordinal values
 - B. Add the web_reg_save_param_ex function

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Course Outline (cont'd)

- XIX. Intro to Advanced Scripting**
 - A. Condition statements and loops
 - B. Common string manipulation functions
 - C. Data conversion functions
 - D. LoadRunner specific functions (lr_eval_string, output messages, lr_save_string)
- XX. Advanced Parameters**
 - A. lr_save_string, lr_save_int, lr_save_datetime
- XXI. Advanced Analysis**
- XXII. Performance Analysis and Tuning Approach**
 - A. Explain the objectives of Performance Analysis
- XXIII. Graph options**
 - A. Advanced graphing and display options
- XXIV. Reporting – Analysis and HTML Reports**
 - A. Identify Understanding effective reporting
 - B. Identify available Report types
- XXV. Reporting - Templates and Reports**
 - A. Learning how to use the Report Template
 - B. Creating a new Template
- XXVI. TruClient**
- XXVII. Overview of TruClient**
 - A. What is a Vuser script?
 - B. Creating a script
 - C. Running TruClient scripts
 - D. TruClient editions
- XXVIII. TruClient Fundamentals**
 - A. TruClient User Interface
 - B. TruClient Step Structure
- XXIX. TruClient Script development**
 - A. Record and Replay
 - B. Enhance
 1. Toolbox functions
 2. Use Parameters
 3. Insert Transactions
 4. Use TruClient Functions and Function Libraries
 5. Use an Event Handler
- XXX. Advanced TruClient**
 - A. Adding custom JavaScript code