Course Outline

LoadRunner Cloud Essentials

Course Summary

Description

This course introduces students to LoadRunner Cloud. The course covers topics about LoadRunner Cloud Load and script development using the TruClient application. This course is designed to give you a foundation in basic load testing tasks. You create and run load tests using LoadRunner Cloud and evaluate results through the dashboard.

The hands-on labs are designed to provide you with the knowledge necessary to create scripts in TruClient, execute Load Tests in the LoadRunner Cloud, and view the results in the Dashboard. The course consists of focused, task-oriented lectures, text, and a series of detailed hands-on labs to teach the course material to the student. The hands-on labs use version of the software

Objectives

By the end of this course, students will be able to:
- Identify the information that you need for load testing
- Identify the components of LoadRunner Cloud
- Apply the recommended workflow to create a basic LoadRunner Cloud load test
- Assign scripts, run-time settings, performance monitors, Load Generators (LGs), and Virtual User (Vusers) to a LoadRunner Cloud load test based on your load testing goals
- Record scripts in the web environment using the TruClient application
- Parameterize scripts to vary user input data

Topics

- Course Overview of LoadRunner Cloud Essentials
- Introduction to HP LoadRunner Cloud
- Creating a Load Test
- Running Load Tests

- Defining Assets – Scripts and Load Generators, Monitors, and Topologies
- SLA's
- Results Analysis
- Other Methods of Script Creation
- Recording with TruClient

Audience

This course is recommended for:
- Quality Assurance and Performance Engineers
- Users of LoadRunner who need to create scripts to load test their web applications

Prerequisite

Before taking this course, students should have a working knowledge of windows, websites, and browsers. Fundamental understanding of JavaScript programming is helpful, but not required

Duration

Three Days

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I. Course Overview of LoadRunner Cloud Essentials
- A. Identify the contents and objectives of the course
- B. Define the class schedule and class logistics
- C. Identify the related courses
- D. Discuss the lab environment details

II. Introduction to HP LoadRunner Cloud
- A. Explain the need for cloud-based load testing
- B. Describe various types of performance test objectives
- C. Identify the steps of the LoadRunner Cloud methodology
- D. Define a load test in the context of LoadRunner Cloud
- E. Identify strategies for creating effective load tests
- F. LoadRunner Cloud Licensing

III. Creating a Load Test
- A. General Settings
- B. Uploading Scripts
- C. Select Script from Assets
- D. Define Vusers
- E. Schedule Overview
- F. Ramp Up and Tear Down functionalities
- G. Initialization and Run Duration

IV. Running Load Tests
- A. Understand a typical performance testing lifecycle
- B. Run load tests and collect analysis data
- C. Dashboard - Analyze Run Time data
- D. Report - Analyze Load Test Results

V. Defining Assets – Scripts and Load Generators
- A. Upload Test Scripts
- B. Test Script Management
- C. Downloading Test Scripts
- D. Installing On-premise load generators
- E. Creating Load Generators

VI. Defining Assets – Monitors and Topologies
- A. Creating Monitors overview
- B. Monitoring Types – SiteScope, SiteScope on Prem, and New Relic
- C. Setting up SiteScope On-premise monitor
- D. Setting up New Relic Monitoring
- E. Attaching a monitor to a test
- F. Creating Topologies

VII. SLA's
- A. Defining Transactions
- B. Service Level Agreements overview
- C. Set Thresholds values
- D. Set Percentile values.

VIII. Network Virtualization
- A. Modifying Locations
- B. Location based distributions
- C. Defining Network Emulation Settings

IX. Navigation Breakdown
- A. Navigation Breakdown Overview
- B. Navigation Breakdown Report

X. Results Analysis
- A. Examining Results of a Running Test
- B. Examining Results of Completed Tests
- C. Navigating the Graphs with the Time Picker
- D. Filtering Graphs
- E. Viewing Monitor Results
- F. Downloading logs

XI. Course Overview of TruClient
- A. Identify the contents and objectives of the course
- B. Define the class schedule and class logistics
- C. Identify the related courses
- D. Discuss the lab environment details

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Course Outline (cont.)

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XII. *Fundamentals of TruClient*
A. Describe the Web 2.0 sites and advantages of using the TruClient Protocol
B. TruClient Standalone vs TruClient in VuGen
C. The TruClient Interface
D. Supported Browsers

XIII. *Recording with TruClient*
A. TruClient Script Type Overview
B. Selecting a Browser
C. Interactive Recording
D. Basic Script Playback

XIV. *Replaying with TruClient*
A. Synchronization
B. Debugging with the TruClient Snapshots
C. Resolving Object Identification Issues

XV. *Script Enhancement*
A. Using Toolbox Functions
B. Using Parameters in TruClient
C. Inserting Transactions

XVI. *Advanced Enhancements*
A. Creating Function Libraries
B. Global Libraries
C. Using the Functions
D. Using JavaScript
E. Inserting and Modifying Loops
F. Inserting Custom JavaScript and C Code