

## StormRunner Essentials v2.x

### Course Summary

#### Description

This course introduces students to StormRunner 2.x. The course covers topics about StormRunner 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 StormRunner 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 StormRunner, 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 2.x of the software.

#### Objectives

After taking this course, students will be able to:

- Identify the information that you need for load testing
- Identify the components of StormRunner
- Apply the recommended workflow to create a basic StormRunner load test
- Assign scripts, run-time settings, performance monitors, Load Generators (LGs), and Virtual User (Vusers) to a StormRunner load test based on your load testing goals
- Execute a load test on your application
- Record scripts in the web environment using the TruClient application
- Measure steps and business processes using transactions
- Parameterize scripts to vary user input data

#### Topics

- Course Overview of StormRunner Essentials
- Introduction to HP StormRunner 2.x
- Creating a Load Test
- Running Load Tests
- Defining Assets – Scripts and Load Generators
- Defining Assets – Monitors and Topologies
- SLA's
- Network Virtualization
- Navigation Breakdown
- Results Analysis
- Other Methods of Script Creation
- Course Overview of TruClient
- Fundamentals of TruClient
- Recording with TruClient
- Replaying with TruClient
- Script Enhancement
- Advanced Enhancements

#### 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
- Executives involved in any aspect of the load testing process

#### Prerequisites

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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## StormRunner Essentials v2.x

### Course Outline

- I. Course Overview of StormRunner 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 StormRunner 2.x**
  - A. Explain the need for cloud based load testing
  - B. Describe various types of performance test objectives
  - C. Identify the steps of the StormRunner methodology
  - D. Define a load test in the context of StormRunner
  - E. Identify strategies for creating effective load tests
  - F. StormRunner 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. Other Methods of Script Creation**
  - A. Create a test using a HAR file
  - B. Create a test using a REST call

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### Course Outline (cont'd)

#### **XII. 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

#### **XIII. 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

#### **XIV. Recording with TruClient**

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

#### **XV. Replaying with TruClient**

- A. Synchronization
- B. Debugging with the TruClient Snapshots
- C. Resolving Object Identification Issues

#### **XVI. Script Enhancement**

- A. Using Toolbox Functions
- B. Using Parameters in TruClient
- C. Inserting Transactions

#### **XVII. 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