

Using Performance Center Course Summary

Description

This course is designed to teach the user how to create, run and analyze tests in Performance Center.

Topics

- Performance Center Overview
- Building a Load Test
- Running load tests
- Run-time Settings
- Scheduling Performance Tests
- Service Level Agreements
- My Performance Center/Dashboard
- Monitors
- Timeslots
- Analysis
- Advanced Analysis
- Advanced Analysis - Reporting
- Appendix A – Planning a Load Test
- Appendix B – Basic Statistics

Audience

This is an introductory course for Performance Engineers.

Prerequisites

There are no prerequisites for this course.

Duration

Three days

Using Performance Center

Course Outline

- I. Performance Center Overview**
 - A. HP ALM Performance Center architecture and functionality
 - B. Describe the administrator and user functions
 - C. Performance Center Terminology
- II. Building a Load Test**
 - A. Load testing overview
 - B. Upload and modify Vuser Scripts
 - C. Create load tests and edit the test options
 - D. Navigate the Test Designer
- III. Running load tests**
 - A. Understand a typical performance testing lifecycle
 - B. Create test sets
 - C. Run load tests and collect analysis data
 - D. Analyze Run Time data
 - E. Analyze Load Test Results
- IV. Run-time Settings**
 - A. Run-Time Settings overview
- V. Scheduling Performance Tests**
 - A. Schedule Overview
 - B. Create schedules by Duration, Iteration, Percentage, and Group
 - C. Schedule Run Modes
 - D. Ramp Up and Ramp Down functionalities
 - E. Initialization and Run Duration
- VI. Service Level Agreements**
 - A. Service Level Agreements overview
 - B. Create an SLA
 - C. Set load criteria
 - D. Specify load levels
 - E. Set Thresholds values
 - F. Link Test to Requirement
- VII. My Performance Center/Dashboard**
 - A. My Performance Center overview
 - B. Navigate the Test Runs and review reports
 - C. Create Trend reports
 - D. Modify Comparison type
 - E. Create a custom Perspective
 - F. Examine the various available Views
- VIII. Monitors**
 - A. Configure Monitors overview
 - B. Set up the Monitoring Environment
 - C. Create a monitor profile
 - D. Attach a monitor profile to a test
- IX. Timeslots**
 - A. Timeslots overview
 - B. Reserve a timeslot with or without a test
 - C. Manage timeslots
 - D. AUT hosts and Topologies
 - E. AUT hosts, AUT host pools, and Topologies overview
 - F. Create and design a topology
 - G. Add AUT Hosts
 - H. Configure Component Properties
- X. Analysis**
 - A. ALM Analysis - Analysis View overview
 - B. My Performance Center Dashboard - online graphs, views trending
 - C. Analysis Tool - Graph review, graph options, Reports, Report templates
 - D. Download and analyze results
- XI. Advanced Analysis**
 - A. Web and System Resources
 - B. Web Page Diagnostics
 - C. Web Transaction Breakdown
 - D. Server Resource Monitors
 - E. Auto Correlation
 - F. SLA Summary Reports
- XII. Advanced Analysis - Reporting**
 - A. Reporting overview
 - B. Standard Report Generation
 - C. Report Templates
 - D. Create custom reports and graphs
 - E. Create a custom analysis session
- XIII. Appendix A – Planning a Load Test**
 - A. Test Plan objectives
 - B. Define the Goals, Users, Use Cases, Production and Test Environment, and Scenarios of a Test Plan
- XIV. Appendix B – Basic Statistics**
 - A. Mean, median, and mode
 - B. Histograms
 - C. Population vs. samples
 - D. Probability distributions
 - E. Standard deviation
 - F. Confidence intervals