

Description

This five-day course introduces students to ALM Performance Center 12.0 and the Virtual User Generator (VuGen) application, which is a scripting tool used to record and run user actions on an application to be load tested. The topics include how to schedule tests, run tests, and analyze test results. Students learn how to effectively and efficiently plan, create, schedule and run a simple test based on the goals determined at the planning phase and to interpret analysis graphs and achieve set performance testing goals. They also focus on planning, creating, and enhancing Virtual User (Vuser) scripts using VuGen in the web environment. All topics are supported by hands-on labs, designed to provide you with the knowledge necessary to create scripts in the web environment. The class is appropriate for both experienced and new product users and others responsible for or involved in performance testing with Performance Center and/or VuGen scripting.

Delegates will learn how to

- Describe the Performance Center architecture
- Manage user accounts
- Assign user privileges
- Manage multiple projects
- Oversee server resources
- Manage test executions
- Monitor and analyze error information
- Produce various reports
- Plan effectively
- Describe the user site's functionality
- Create, configure, and execute load tests
- Use analysis graphs to determine whether the test achieved the set goals
- Record scripts in the web environment using VuGen
- Measure steps and business processes using transactions
- Parameterize scripts to vary user input data
- Customize scripts by adding VuGen and basic C functions
- Correlate scripts to process server-generated data

Outline

Module 1: Course Overview for Performance Center 12.x Essentials

- Identify the contents and objectives of the course
- Define the class schedule and class logistics
- Identify the related courses
- Discuss the lab environment details

Module 2: Introduction to ALM PC

- Describe the basic PC architecture and functionality
- Identify the steps of the load testing process
- Provide an overview of ALM PC sites
- Explain roles and tasks of PC team members

Module 3: What's New in PC 12.5

- Describe the new features of PC 12.5
- Describe the enhancements in My PC
- Build a Protocol Usage report
- Describe the enhancements in VuGen
- Describe how to use TruClientWeb within PC
- Describe the enhancements in online graphics
- Describe the improvements in the Performance Application Lifecycle (PAL)

Module 4: Using the ALM PC User Site

- Explain the purpose and advantages of the ALM PC user site
- Explore the ALM PC user site
- Describe the privilege levels and access rights for a project

Module 5: Planning an Effective Load Test

- Analyze the Application Under Test (AUT)
- Gather preliminary information before load testing your system

- Organize system information effectively
- Use the gathered information to plan load tests

Module 6: Working with Vuser Scripts and Reserving Timeslots

- Prepare and modify Vuser scripts
- Connect VuGen to an ALM session
- Upload Vuser scripts to ALM
- Define timeslots
- Reserve and manage timeslots successfully

Module 7: Configuring the Load Test Settings

- Configure load test settings
- Create monitor profiles
- Define Service Level Agreements (SLAs)s

Module 8: Working with Load Tests

- Create a test set
- Configure scheduling options for the test
- Set load test goals using SLAs
- Run the test

Module 9: Running Load Tests

- Configure the project settings and PC Controller options
- Explain the performance test run flow
- Monitor the flow of the performance test run
- Monitor the performance test run
- Analyze the performance test results

Module 10: Using the Dashboard Page

- Explain the views available on the Dashboard page
- Create and configure reports in the Analysis view
- Create and configure graphs in the Analysis view
- Create and configure the Project dashboard pages

Module 11: Using the PC Analysis

- Collate and analyze the load test data
- Generate reports and graphs for a test set
- Download the load test results files
- Upload the files and reports
- View and manage tests using the system perspectives

Module 12: Raising Application Defects in ALM

- Create new defects
- Link defects and other entities
- Monitor and track defects in ALM
- Assign, repair, and update defects
- Analyze defects and generate defect reports
- Export defect reports

Module 13: Configuring Hosts and Topologies

- Add, configure, and reboot hosts in ALM
- Provision cloud hosts
- Create AUT hosts
- Reboot servers and check host connectivity
- Create topologies
- Create monitors for web servers

Module 14: Creating Requirements and Business Models

- Explain requirements and their advantages
- Explore the options in the Requirements view
- Create requirements
- Explain and import business models
- Link requirements and tests to model entities

Module 15: Using the Lab Management Website

- Explore the Lab Settings module in the Lab Management website
- Explore the Cloud Settings module in the Lab Management website
- Explore the Lab Resources module in the Lab Management website
- Explore the Performance Center module in the Lab Management website
- Explore the Servers module in the Lab Management website

Module 16: Using the Site Administration Website

- Create projects using the Site Administration website
- Create domains using the Site Administration website
- Explore the tabs on the Site Administration website

Prerequisites

There are no prerequisites