

HP Service Virtualization 3.x Essentials

Course Summary

Description

This four-day introductory course provides students with the skills needed to effectively use and manage the HP Service Virtualization software product. This course uses a workshop format with the emphasis on the hands-on lab exercises, which use HP Service Virtualization version 3.6. This course focuses on the basics of component and service testing, and integrations with HP Test Automation tools. This course is designed for users who are new to HP Service Virtualization

Objectives

At the end of this course, students will be able to:

- Define virtual services
- Enhance virtual services with data and performance modeling
- Use supported services without a service description
- Integrate Service Virtualization with other HP tools such as Unified Functional Testing (UFT), LoadRunner, and Application Lifecycle Management /Performance Center (ALM/PC)

Topics

- Service Virtualization Course Overview
- Introduction to Service Virtualization
- Introduction to HP Virtual Service
- Creating Virtual Services
- Using the Virtual Service Editor
- Working with Data Models
- Working with Performance Models
- Advanced Data Models – Data Rules
- Advanced Data Models – Data Driving
- Schema Learning
- Managing Service Virtualization Servers
- REST Services
- Integrating HP Application Lifecycle Management (ALM)
- Integrating HP Unified Functional Testing (UFT)
- Integrating Performance Center and LoadRunner
- Composite Application Topology
- Service Virtualization Stateful Simulation
- Installing and Deploying Service Virtualization

Audience

This course is designed for those responsible for, or involved in, functional and performance testing. Quality Assurance engineers who will assume technical lead roles in the use of SV and Functional and Automation Engineers may also find this course beneficial.

Prerequisites

Students taking this course should have a working knowledge of:

- Windows operating systems
- Testing concepts
- Basic networking and Internet technologies
- Basic understanding of HP UFT and LoadRunner

Duration

Four days

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Course Outline

- I. Service Virtualization Course Overview**
 - A. Course Objectives
 - B. Class Introductions
 - C. Course Overview
 - D. Course Outline
 - E. Instructional Methods
 - F. Lab Format
 - E. Work with data rules
 - F. Define data rule configuration
 - G. Work with data models
 - H. Perform a simulation
- II. Introduction to Service Virtualization**
 - A. Define service virtualization in a composite application environment
 - B. Define features and benefits of HP Service Virtualization
- III. Introduction to HP Virtual Service**
 - A. Define features and benefits of SV
 - B. Identify the functionality of SV
 - C. Identify the components and architecture of SV
 - D. Start SV
- IV. Creating Virtual Services**
 - A. Define virtual services and virtual services projects
 - B. Identify the types of virtual services
 - C. Work with virtual services
 - D. Create a virtual service
 - E. Define virtual service modes
 - F. Work with service templates
 - G. Learn service behavior
 - H. Simulate in SV
 - I. Monitor virtual services
 - J. Discover virtual services
- V. Using the Virtual Service Editor**
 - A. Navigate the Virtual Service Editor
 - B. Manage virtual services
 - C. Work with virtual services
- VI. Working with Data Models**
 - A. Define simulation modeling
 - B. Identify types of simulation models
 - C. Define data modeling
 - D. Identify the components of a data model
- VII. Working with Performance Models**
 - A. Define features of performance modeling
 - B. Define the need for performance modeling
 - C. Navigate the Performance Model Editor
 - D. Configure the Performance model
- VIII. Advanced Data Models – Data Rules**
 - A. Define rule functions
 - B. Identify categories of rule functions
 - C. Work with external data sources
 - D. Perform data masking
- IX. Advanced Data Models – Data Driving**
 - A. Define data driving
- X. Schema Learning**
 - A. Define schema learning
 - B. Identify a supported schema document
 - C. Learn a schema
 - D. Import messages
- XI. Managing Service Virtualization Servers**
 - A. Manage the Service Virtualization Server
 - B. Configure HTTP ports
- XII. REST Services**
 - A. Define the REST protocol
 - B. Define SV agents for REST
- XIII. Hands-on Project 1**
 - A. Create virtual services for an application
 - B. Add data manually
 - C. Data drive a virtual service simulation

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Course Outline (cont'd)

- XIV. Integrating HP Application Lifecycle Management (ALM)**
 - A. Define the functionality of ALM
 - B. Identify the ALM testing process
 - C. Identify components of SV integration with ALM
 - D. Work with ALM integration
- XV. Integrating HP Unified Functional Testing (UFT)**
 - A. Define HP Unified Functional Testing (UFT)
 - B. Identify components of SV integration with UFT
 - C. Integrate SV with UFT
- XVI. Integrating Performance Center and LoadRunner**
 - A. Defining the functionality of HP Performance Center (PC)
 - B. Identify the components of PC
 - C. Define the functionality of HP LoadRunner (LR)
 - D. Identify the components of LR
 - E. Identify the LR testing process
 - F. Identify components of SV integration with PC and LR
 - G. Define Vuser in LR/PC terminology
 - H. Integrate SV with PC and LR
- XVII. Hands on Project 2**
 - A. Set up SV
 - B. Use UFT to Learn App
 - C. Use VuGen
 - D. Use the Controller
- XVIII. Composite Application Topology**
 - A. Define composite application topology
 - B. Navigate the Topology Editor
 - C. Model composite application topology and create a topology
 - D. Test composite applications by:
 1. Reconfiguring clients in topologies
 2. Learning service behavior in topologies
 3. Simulating service behavior in topologies
- XIX. Service Virtualization Stateful Simulation**
 - A. Define the need for stateful simulation
 - B. Implement stateful simulation
- XX. Installing and Deploying Service Virtualization**
 - A. Identify SV installation procedures
 - B. Install Service Virtualization Server and Designer licenses
 - C. Deploy virtual services