

Service Virtualization 10: Foundations 200

Course Summary

Description

The Service Virtualization 10: Foundations 200 course teaches students the foundational concepts needed to record, edit, and deploy virtual services using Service Virtualization. Instruction teaches the concepts using webservice virtualization with a live service, and when the service is unavailable. Instruction is a combination of lecture and hands-on exercises in a virtual DevTest Solutions environment. The course is instructor-led and can be delivered virtually or in a classroom setting. This course is also required to attend all other Service Virtualization courses.

Objectives

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

- Create a webservice virtual service by recording live transactions using DevTest Workstation and DevTest Portal
- Create a virtual service by importing raw transaction files, request and response pair files, and specification files
- Identify stateless and conversational virtual services
- Create a virtual service by importing specification files
- Identify how a virtual service matches the correct response to an incoming request
- Deploy and manage the model behavior of a virtual service
- Identify the role of each step in a virtual service model, and how to execute the model in the Interactive Test Run (ITR) for verification before deployment
- Edit virtual service response data in DevTest Workstation and DevTest Portal
- Troubleshoot virtual services

Topics

- Create and Deploy Virtual Service Fundamentals
- Create a Virtual Service when the Live Service is Unavailable
- Define Virtual Service Model Steps
- Configure Virtual Service Execution Modes and View Details
- Define Virtual Service Matching and Responding
- Manipulate Virtual Service Data
- Maintain and Troubleshoot a Virtual Service

Audience

This course is intended for those DevOps users responsible for managing virtual services.

Prerequisites

Students should have completed DevTest Solutions 10: Foundations 200 before taking this course.

Duration

One day

Service Virtualization 10: Foundations 200

Course Outline

- I. *Create and Deploy Virtual Service Fundamentals*
 - A. Define service virtualization concepts: Creation methods, Transactions; Protocols; Normalization; Files; Deploy, run, and manage
 - B. Create virtual services with the DevTest Workstation and DevTest Portal recorders
- II. *Create a Virtual Service when the Live Service is Unavailable*
 - A. Review methods to create a virtual service from an unavailable service
 - B. Define and name request/response pair files
 - C. Create a virtual service from request/response pair files using the DevTest Portal
 - D. Create a virtual service from a Swagger specification file using the DevTest Portal
- III. *Define Virtual Service Model Steps*
 - A. Describe the difference between virtual service model stiles
 - B. Describe the roles of common virtual service model steps
- IV. *Configure Virtual Service Execution Modes and View Details*
 - A. Define the Execution Modes used to monitor and update virtual services
 - B. Use the Execution Modes to debug virtual services and update virtual service data
- V. *Define Virtual Service Matching and Responding*
 - A. Describe how request/response pairs are stored in a virtual service image
 - B. Describe how an inbound request to a virtual service is matched to determine a response
 - C. Describe how a virtual service responds with static and dynamic data
 - D. Describe how Magic Strings and Dates are created and used in a response
- VI. *Manipulate Virtual Service Data*
 - A. Manipulate request data during recording with Request Data Manager (RDM) protocol
 - B. Desensitize data during and after recording
 - C. Edit virtual service data in the SIE in DevTest Workstation and DevTest Portal
- VII. *Maintain and Troubleshoot a Virtual Service*
 - A. Describe the common methods used to update a virtual service
 - B. Select the appropriate method for updating a virtual service
 - C. Identify and fix common problems with virtual services
 - D. Navigate to log files used for troubleshooting