



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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VMware Data Center Automation with vRealize Orchestrator and vSphere PowerCLI

CODE:	LENGTH:	PRICE:
VM-DCAVROP-OE	40 Hours (5 days)	\$4,250.00

Description

This five-day course teaches experienced VMware vSphere® administrators how to use the powerful automation tools that all vSphere customers have access to. Using real-world use cases and examples, you will learn how to automate day-to-day administration tasks with VMware vSphere® PowerCLI™ and VMware vRealize® Orchestrator™. During class, you will use these tools to automate tasks in a realistic lab environment.

Objectives

By the end of the course, you should be able to meet the following objectives:

- Describe the features and benefits of automation in a vSphere environment
- Understand the role of the vSphere Web Services API in automation
- Use the Managed Object Browser (MOB) to view the structure of VMware vSphere® API and VMware vCenter Server® inventory
- Use vSphere PowerCLI to deploy and manage virtual machines and virtual infrastructure
- Run and manage library vRealize Orchestrator workflows
- Design, develop, and run custom reusable vRealize Orchestrator workflows
- Incorporate JavaScript into vRealize Orchestrator workflows
- Select the appropriate tool for automating day-to-day tasks in vCenter Server

Audience

Experienced vSphere administrators who want to use available tools to automate day-to-day tasks

Prerequisites

Completion of the following course or equivalent experience with vSphere deployments:

- VMware vSphere: Install, Configure, Manage [V6.0]

Programme

- 1 Course Introduction
 - Introductions and course logistics
 - Course objectives
- 2 Automation in vSphere
 - Identify the tools available to vSphere administrators for automation
 - Understand the benefits of automation
 - Understand the function of black boxes in programming
- 3 vSphere API
 - Identify the function of an API
 - Recognize the components of the vSphere Web Services API
 - Understand how the vSphere Web Services API is used by automation tools
 - Understand object-oriented terminology relevant to the vSphere Web Services API
 - Use the MOB to explore the vSphere object model and invoke methods
- 4 vSphere PowerCLI Basics
 - Describe features of vSphere PowerCLI
 - List common tasks to perform with vSphere PowerCLI
 - Connect vSphere PowerCLI to vCenter Server and VMware ESXi™ hosts
 - Define variables to use in vSphere PowerCLI

- Use basic vSphere PowerCLI cmdlets
 - Describe features of the command pipeline
 - Examine vSphere PowerCLI objects
 - View vSphere PowerCLI object properties
 - Invoke vSphere PowerCLI object methods
- 5 vSphere PowerCLI Use Cases
- Perform day-to-day management tasks with vSphere PowerCLI
- 6 Advanced vSphere PowerCLI concepts
- Examine View objects with the Get-View cmdlet
 - Convert View objects to VObjects
 - Invoke vSphere Web Services API methods
 - Use the Onyx tool to capture vSphere PowerCLI code
- 7 vRealize Orchestrator Basics
- Identify vRealize Orchestrator components
 - Understand the function of plug-ins
 - Add a vCenter Server instance to the vCenter Server plug-in
 - List the components of a workflow
 - Create a vCenter Server object with a library workflow
 - Distinguish between workflow variable types
 - Create a simple workflow
 - Create workflow input and output parameters
 - Set a workflow input parameter as an attribute
 - Understand the role of binding in workflows
 - Use a library workflow in a new workflow
 - Use the setup wizard to perform parameter binding
- 8 Developing vRealize Orchestrator Workflows
- Identify and use common vRealize Orchestrator workflow elements
 - Implement vRealize Orchestrator workflow nesting
 - List methods for calling other workflows in vRealize Orchestrator workflows
 - Identify the information required to develop a workflow
 - Use the vRealize Orchestrator workflow scripting debugger
- 9 vRealize Orchestrator Advanced
- Create basic decision loops in workflows
 - Use a for-each loop in a workflow
 - Understand how exceptions are handled in vRealize Orchestrator
 - Use action elements in workflows
 - Capture JavaScript with Onyx and use it in a workflow
- 10 vRealize Orchestrator Use Case
- Create a workflow that deploys multiple virtual machines according to a customer specification
- 11 vRealize Orchestrator PowerShell Plug-In
- Add Windows PowerShell hosts to the vCenter Server inventory
 - Invoke scripts on Windows PowerShell hosts
 - Create Windows PowerShell workflows
- 12 Guest Operations with vRealize Orchestrator and vSphere PowerCLI
- Understand the architecture of virtual machine guest operations
 - Identify the requirements for using guest operations
 - Perform guest operations with vRealize Orchestrator and vSphere PowerCLI

Session Dates

On request. Please [Contact Us](#)

Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)