ЛЛЛПШ | Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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VMware Data Center Automation with vRealize Orchestrator and vSphere PowerCLI

CODE:

LENGTH:

PRICE:

VMW_DCAVROP

40 Hours (5 days)

£3,230.00

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.
Product Alignment
• vSphere PowerCLI 6.0
• vRealize Orchestrator 7.0

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 courses, or equivalent experience with vSphere deployments:
• VMware vSphere: Install, Configure, Manage [V6.0]

Programme

Introductions and course logistics
Course Introduction   Course objectives   **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   **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   **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   **vSphere PowerCLI Use Cases**

Perform day-to-day management tasks with vSphere PowerCLI **Advanced vSphere PowerCLI concepts**

Examine View objects with the Get-View cmdlet
Convert View objects to VIObjects
Invoke vSphere Web Services API methods
Use the Onyx tool to capture vSphere PowerCLI code **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   **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   **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   **vRealize Orchestrator Use Case**

Create a workflow that deploys multiple virtual machines according to a customer specification

Add Windows PowerShell hosts to the vCenter Server inventory
Invoke scripts on Windows PowerShell hosts
vRealize Orchestrator PowerShell Plug-In   Create Windows PowerShell workflows

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.