



Enterprise Computing Solutions - Education Services

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VMware Data Center Automation with vRealize Orchestrator and vSphere PowerCLI

CODE:	LENGTH:	PRICE:
VMW_DCAVROP	40 Hours (5 dage)	kr 25,660.00

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 6.0 and VMware vRealize Orchestrator 7.0. 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 course or equivalent experience with vSphere deployments:

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

Programme

Module 1 Course Introduction

- Introductions and course logistics
- Course objectives

Module 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

Module 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

Module 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

Module 5 vSphere PowerCLI Use Cases

- Perform day-to-day management tasks with vSphere PowerCLI

Module 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

Module 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

Module 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

Module 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

Module 10 vRealize Orchestrator Use Case

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

Module 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

Module 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

På anmodning. [Kontakt os venligst](#)

Yderligere Information

Denne træning er også tilgængelig som træning på stedet. [Kontakt os for at finde ud af mere.](#)