

Data Center Automation with vRealize Orchestrator and vSphere PowerCLI (DCAROS)

ID DCAROS Preis 3.440,- € (exkl. MwSt.) Dauer 5 Tage

Dieser Advanced-Kurs wird direkt von VMware durchgeführt.

Zielgruppe

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

Voraussetzungen

Completion of the following courses, or equivalent experience with vSphere deployments:

[VMware vSphere: Install, Configure, Manage \[V7\] \(VSICM7\)](#)

[VMware vSphere: Optimize and Scale \[V7\] \(VSOS7\)](#)

Kursziele

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

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 to view the structure of the vSphere Web services

API and the VMware vCenter Server™ inventory

- Use vSphere PowerCLI to deploy and manage virtual machines and virtual infrastructure
- Run and manage vRealize Orchestrator workflows from the library
- Design, develop, and run custom, reusable vRealize Orchestrator workflows
- Incorporate JavaScript into vRealize Orchestrator workflows
- Select the appropriate tool for automating tasks in vCenter Server

Kursinhalt

- Course Introduction
- Automation in vSphere
- vSphere API
- vSphere PowerCLI Basics
- Advanced vSphere PowerCLI and the vSphere API
- vSphere PowerCLI Use Cases
- vRealize Orchestrator Basics
- vRealize Orchestrator Advanced
- vRealize Orchestrator Use Cases
- vRealize Orchestrator PowerCLI Plug-In
- vRealize Orchestrator Integration
- Guest Operations with vRealize Orchestrator and vSphere PowerCLI
- Software Development Process and Tools

Detaillierter Kursinhalt

Course Introduction

- Introductions and course logistics
- Course objectives

Automation in vSphere

- Identify the features and the advantages of

- automation
- List the tools used to automate vCenter Server tasks

vSphere API

- Identify the function of an API
- Recognize the components of VMware vSphere® API
- Understand how an API is consumed
- View objects and invoke methods with the Managed Object Browser

vSphere PowerCLI Basics

- Connect vSphere PowerCLI to vCenter Server systems and VMware ESXi™ hosts
- Understand vSphere PowerCLI concepts
- Use vSphere PowerCLI cmdlets
- Deploy and manage virtual infrastructure

Advanced vSphere PowerCLI and the vSphere API

- Explore the vSphere object model
- Capture code with Onyx
- Use vSphere API documentation to analyze vCenter Server actions
- View objects with the Get-View cmdlet

vSphere PowerCLI Use Cases

- Manage host networking
- Create a distributed switch
- Migrate hosts
- Create reports

vRealize Orchestrator Basics

- Identify workflow components
- Run and manage library workflows
- Edit a workflow
- Build and schedule a simple workflow
- Debug a workflow

vRealize Orchestrator Advanced

- Identify and use advanced vRealize Orchestrator workflow elements
- Implement vRealize Orchestrator workflow nesting
- Use variable types in a workflow
- Use JavaScript to create complex workflows

- Incorporate an Onyx script in a workflow

vRealize Orchestrator Use Cases

- Create automation workflows that map to real-world scenarios
- Create reporting workflows that map to real-world scenarios
- Create migration workflows that map to real-world scenarios
- Create provisioning workflows that map to real-world scenarios

vRealize Orchestrator PowerCLI Plug-In

- Invoke external scripts and pass workflow parameters as script inputs
- Generate new vRealize Orchestrator actions from Windows PowerShell and vSphere PowerCLI scripts and cmdlets
- Browse snap-ins and their associated cmdlets in the vRealize Orchestrator workflow editor

vRealize Orchestrator Integration

- Understand the connectivity options for vRealize Orchestrator
- Differentiate between north-facing and south-facing APIs
- List the APIs and their use cases
- Run a workflow through a REST call

Guest Operations with vRealize Orchestrator and vSphere PowerCLI

- Use the most appropriate tools to perform guest operations

Software Development Process and Tools

- Understand the software development lifecycle
- Understand version control system tools
- Map the correct tools to vRealize Orchestrator and vSphere PowerCLI

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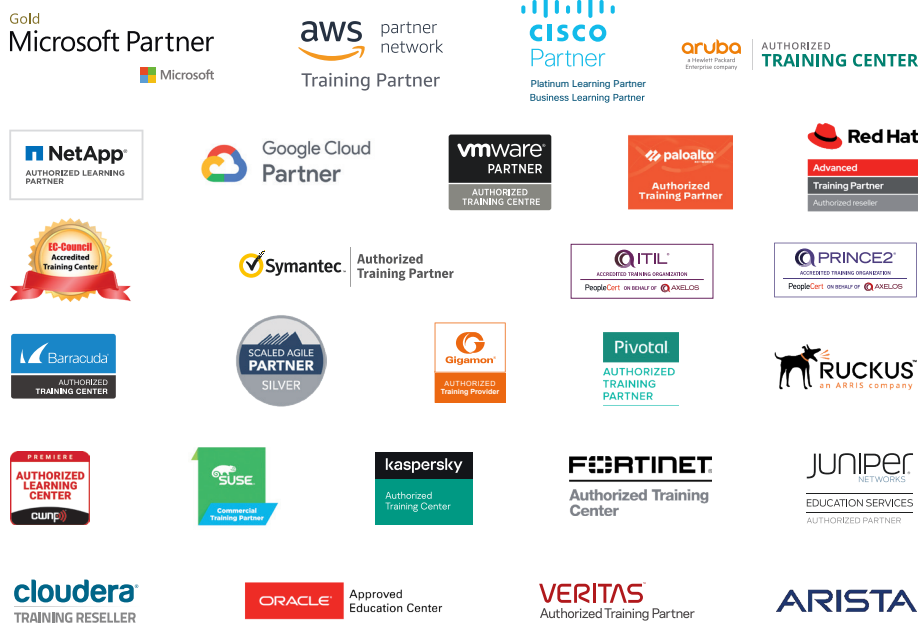
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- ✓ Instructor-Led Online Training
- ✓ FLEX Classroom – Klassenraum und ILO kombiniert
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- ✓ E-Learning
- ✓ Blended & Hybrid Learning
- ✓ Mobiles Lernen

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