VMware Cloud Orchestration and Extensibility

Varighed: 5 Days   Kursus Kode: VMCOE

Beskrivelse:

This hands-on training course explores the use of VMware vCenter™ Orchestrator™ 5.5 and VMware vCloud® Automation Center™ 6.1 for the automation of VMware cloud infrastructure and IT processes. The course focuses on extensibility and advanced administration through the use of vCenter Orchestrator workflows in vCloud Automation Center. Students will gain practical experience through the completion of hands-on labs.

Målgruppe:

Knowledge of VMware vSphere® vCloud Automation Center: Install, Configure, Manage course or equivalent knowledgeWorking knowledge of scripting or programming using JavaScript, Windows PowerShell, Perl, Java, Python, or similar languages

Agenda:

■ Describe the features, benefits, components, and integration of vCenter Orchestrator and vCloud Automation Center and the role of vCenter Orchestrator workflows and content elements in automation

■ Use the vCenter Orchestrator client to access and navigate the vCenter Orchestrator platform and to import and run library vCenter Orchestrator workflows

■ Design, develop, and run custom reusable vCenter Orchestrator workflows

■ Use VMware APIs in vCenter Orchestrator workflow scripts

■ Integrate vCloud Automation Center with vCenter Orchestrator instances to extend infrastructure-as-a-service (IaaS) machine lifecycle processes and enhance and deliver custom IT services

■ Use the Advanced Service Designer in vCloud Automation Center to integrate vCenter Orchestrator

■ workflows with external systems and build automation solutions

■ Export, package, and apply version control to vCloud Orchestrator workflows

■ Configure a vCenter Orchestrator environment for server availability using built-in clustering

Forudsætninger:

■ Knowledge of VMware vSphere®
■ vCloud Automation Center: Install, Configure, Manage course or equivalent knowledge
■ Working knowledge of scripting or programming using JavaScript, Windows PowerShell, Perl, Java, Python, or similar languages

Indhold:

Course Introduction

- Introduction and course logistics
- Course objectives

Introducing VMware vCenter Orchestrator

- Features, benefits, and components of vCenter Orchestrator and vCloud Automation Center
- vCenter Orchestrator and vCloud Automation Center integration, prerequisites, and deployment

Working with VMware vCenter Orchestrator

- vCenter Orchestrator client
- vCenter Orchestrator content elements and vCenter Orchestrator inventory
- vCloud Automation Center and the vCloud Automation Center Advanced Service Designer interface

Using VMware vCenter Orchestrator Workflows to Build vCenter Orchestrator Components

- vCenter Orchestrator workflow elements
- Building and debugging vCenter Orchestrator workflows

VMware vCenter Orchestrator Workflow Development Concepts

- vCenter Orchestrator workflow editor GUI
- vCenter Orchestrator workflow components
- Information flow in vCenter Orchestrator workflows and parameter binding

Enhancing VMware vCenter Orchestrator Workflows

- Advanced vCenter Orchestrator workflow elements
- Configuration and resource elements
- Exception handling and user interactions
- vCenter Orchestrator workflow input presentation

Using VMware Infrastructure APIs with VMware vCenter Orchestrator

- vSphere automation and developer tools
- VMware vCenter Server™ inventory structure

VMware vCenter Orchestrator Workflows in the VMware vCloud Automation Center Machine Lifecycle

- Invoking vCenter Orchestrator workflows from vCloud Automation Center
- Managing vCloud Automation Center entities from vCenter Orchestrator
- Predefined vCloud Automation Center workflow templates

Working with the VMware vCloud Automation Center Advanced Service Designer

- Controlling vCenter Orchestrator services with the Advanced Service Designer
- Publishing vCenter Orchestrator workflows as vCloud Automation Center entities
- Creating vCloud Automation Center service blueprints that invoke vCenter Orchestrator workflows
- vCenter Orchestrator workflow resource actions and user interactions
- Advanced Service Designer endpoints

Integrating VMware vCenter Orchestrator with External Systems

- vCenter Orchestrator integration strategy
- vCenter Orchestrator plug-ins

Building VMware vCloud Automation Center Solutions

- Building and testing custom vCenter Orchestrator workflows for publishing with the Advanced Service Designer
- Extending, enhancing, and publishing custom vCenter Orchestrator workflows
- Testing vCloud Automation Center custom user request forms

Delivering VMware vCenter Orchestrator Workflows

- Documentation and version control of workflows
- Synchronizing workflows among vCenter Orchestrator servers
- Exporting and packaging workflows

Installing and Configuring VMware vCenter Orchestrator

- Installing vCenter Orchestrator
- Configuring vCenter Orchestrator

Making VMware vCenter Orchestrator Highly Available

- Configuring the SQL Server 2008 R2 database
- Configuring high availability using the Web interface and vCenter Orchestrator workflows
- Building custom vCenter Orchestrator workflows in vCenter Orchestrator instances
- Testing vCenter Orchestrator high availability failover and failback features

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Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

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