
VMware Cloud Automation: Design and Deploy

Duration: 5 Days Course Code: VMDDCMA Version: 7.1

Overview:

This five-day course focuses on designing and deploying an enterprise cloud by using a distributed architecture deployment of VMware vRealize® Automation™. The lecture and labs concentrate on designing an enterprise cloud architecture and the effective implementation of a vRealize Automation distributed deployment according to VMware recommended best practices.

Product Alignment vSphere 6vRealize Automation 7VMware vRealize® OrchestratorvRealize Log InsightvCloud Air

Target Audience:

Experienced system administrators, cloud administrators, system integrators, and deployment consultants

Objectives:

- Apply enterprise design principles
 - Design and deploy a tiered VMware vSphere resource architecture for CPU, storage, and network resources, including VMware NSX
 - Design and deploy a vRealize Automation distributed infrastructure for an enterprise cloud
 - Design and deploy a CA certificate/single sign-on architecture that includes Active Directory integration to support the enterprise cloud infrastructure
 - Design and deploy an administration architecture of roles for an enterprise cloud Design and deploy a tenant-and-business group architecture for an enterprise cloud
 - Design and deploy compute resources, reservation policies, network profiles, and reservations to support your enterprise cloud Use XaaS to extend vRealize Automation into other enterprise systems
 - Integrate vRealize Automation with IP address management systems and asset management systems
 - Describe VMware vCloud® Air integration for elastic clouds Describe the location and identity of all log files that relate to vRealize Automation troubleshooting
 - Use VMware vRealize® Log Insight to manage and monitor distributed vRealize Automation deployments
-

Prerequisites:

This class requires understanding the concepts and topics presented in the following courses:

- [VSICM](#) - VMware vSphere: Install, Configure, Manage
 - [VRACICM](#) - vRealize Automation: Install, Configure, Manage
-

Content:

Course Introduction

- Introductions and course logistics
- Course objectives

Enterprise Design Principles

- Create a design foundation for an enterprise cloud by identifying business requirements, typical business solutions, constraints, assumptions, and risks
- Create a conceptual design for an enterprise cloud
- Create a logical design for an enterprise cloud
- Use key enterprise design principles to create a vSphere infrastructure for the enterprise cloud

Security Infrastructure

- Design a certificate authority architecture
- Create certificate signing requests for your vRealize Automation servers
- Create certificates for your vRealize Automation servers
- Use the VMware hardened virtual appliance
- Use VMware Identity Manager

vRealize Automation Distributed Architecture

- Design and deploy the vRealize Automation solution in a highly available, distributed architecture
- Use vRealize Orchestrator in external and internal clusters
- Use cloudutil.exe and skills to control which DEM servers are used with specific endpoints
- Describe the proper configuration of NSX load balancers for a highly available, distributed architecture

Administration Role Architecture

- Design either an expanded administration role architecture or a compressed administration role architecture for an enterprise cloud

Tenants and Business Groups

- Design an optimum tenant and business group architecture for your enterprise cloud, using either a single-tenant or a multitenant model
- Describe the use of vRealize CloudClient in a multitenancy context

Cloud Resource Design

- Design an enterprise cloud that is based on a multitiered architecture
- Design naming standards in vRealize Automation to support your tenant-and-business group architecture
- Use composite blueprints in an enterprise deployment
- Use data center location in an enterprise deployment to control where systems are provisioned
- Design a unified self-service catalog
- Design service entitlements in an enterprise deployment
- Design and use governance and approvals

Extensibility and the Enterprise

- Describe vCloud Air and elastic clouds
- Describe the role of vRealize Orchestrator in vRealize Automation extensibility
- Use IaaS extensibility and the vRealize Automation event broker system
- Extend vRealize Automation to an asset management system
- Extend vRealize Automation to an IP address management system
- Use NSX on-demand components

Enterprise Management

- Use VMware vRealize® Operations Manager™ and the vRealize Automation management pack
- Use vRealize Log Insight in vRealize Automation enterprise management
- Manage costs
- Manage resource use
- Replace expired security certificates

Further Information:

For More information, or to book your course, please call us on 0800/84.009

info@globalknowledge.be

www.globalknowledge.com/en-be/