

VMware vRealize Automation: Design and Deploy [V7.6]

Code:	EDU-VRADD76
Length:	5 days
URL:	View Online

This five-day course focuses on designing and deploying an enterprise cloud by using a distributed architecture deployment of VMware vRealize® Automation™. This course discusses the benefits and risks of available design alternatives and provides information that helps in making sound design decisions. You follow a proven approach to design and deploy an enterprise cloud that is available, scalable, manageable, secure, and that is built according to VMware best practices. During this class, you apply your new knowledge by working with other participants to design and deploy a vRealize Automation solution for a real-world project.

Skills Gained

By the end of the course, you should be able to meet the following objectives:

- Understand and apply enterprise design principles
- Design and deploy a tiered VMware vSphere® resource architecture for CPU, storage, and network resources, including VMware NSX®
- Understand and apply VMware Validated Design (VVD) design principles
- Design and deploy a vRealize Automation distributed infrastructure for an enterprise cloud
- Design and deploy an SSO architecture which includes LDAP and Active Directory integration to support the enterprise cloud infrastructure
- Design and deploy an authority architecture of roles for an enterprise cloud
- Design and deploy a tenant and business group architecture for an enterprise cloud
- Design and deploy naming conventions related to your tenant and business group design
- Design and deploy compute resources, reservation policies, network profiles, and reservations to support your enterprise cloud
- Design and deploy approval mechanisms to support your authority architecture
- Use XaaS to extend vRealize Automation into other enterprise systems
- Integrate vRealize Automation with external systems such as IP address management systems and asset management systems
- Understand VMware vRealize® Business for Cloud™ cost structure design and integration with vRealize Automation

- Use VMware vRealize® Log Insight™ to manage and monitor distributed vRealize Automation deployments
- Use VMware vRealize® Operations™ to manage and monitor day 2 operations

Who Can Benefit

VMware consultants and partners who need to deploy vRealize Automation on an enterprise scale.

Prerequisites

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

- VMware vSphere: Install, Configure, Manage [V6.x]
- VMware vRealize Automation: Install, Configure, Manage [V7.x]

Course Details

Product Alignment

- VMware vSphere 6.7 U2
- VMware vRealize Automation 7.6
- VMware vRealize Orchestrator 7.6
- VMware vRealize Business for Cloud 7.6
- VMware vRealize Operations 7.5
- vRealize Lifecycle Manager 2.1
- VMware vRealize Log Insight 4.7
- NSX for vSphere 6.4.4

Outline

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
- Leverage VMware Validated Designs

Security Infrastructure

- Design a certificate authority architecture

- Create certificate signing requests for your vRealize Automation servers
- Create certificates for your vRealize Automation servers
- Identify the steps required to secure a vRealize Automation deployment
- Use vRealize Automation's embedded VMware Identity Manager™

vRealize Automation Distributed Architecture

- Design and deploy the vRealize Automation solution in a highly available, distributed architecture
- Identify the components of a distributed vRealize Automation deployment
- 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 use of vRealize CloudClient in a multitenancy context

Cloud Resource Design in vRealize Automation

- 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
- Create custom forms
- Use the VMware CloudClient

Extensibility in the Enterprise Cloud

- 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
- Extend vRealize Automation to Active Directory

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
 - Use VMware vRealize® Suite Lifecycle Manager™
 - Replace expired security certificates
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