

# VMware vRealize Automation: Design and Deploy

## Course Overview

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.

## Course Objectives

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
- Understand the layers in the enterprise cloud
- 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
- Extend the capabilities of vRealize Automation with VMware vRealize® Orchestrator™
- Integrate vRealize Automation with external systems such as IP address management systems and asset management systems
- Use VMware vRealize® Operations™ to manage and monitor day 2 operations
- Use VMware vRealize® Log Insight™ to manage and monitor distributed vRealize Automation deployments
- Describe the capabilities and use cases for vRealize Suite Lifecycle manager

## Target Audience

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 Delivery Options

- Classroom
- Live Online
- [Onsite](#)

## Product Alignment

- VMware vSphere 6.7 U2
- VMware vRealize Automation 7.6
- VMware vRealize Orchestrator 7.6
- VMware vRealize Operations 7.5
- VMware vRealize Business for Cloud 7.6
- vRealize Lifecycle Manager 2.1
- VMware vRealize Log Insight 4.7.1
- NSX for vSphere 6.4.5

## Course Modules

### 1 Course Introduction

- Introductions and course logistics
- Course objectives

### 2 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
- Understanding the role of VMware Validated Designs in Software-Defined Datacenter

### 3 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™

### 4 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
- Describe the proper configuration of NSX load balancers for a highly available, distributed architecture

### 5 Administration Role Architecture

- Understand the layers in the enterprise cloud
- Describe the administration role architecture models that can be used in vRealize Automation
- Design an enterprise administration role architecture

### 6 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

- Design a multitenant cloud architecture with multiple business groups, with infrastructure configuration only in default tenant.
- Design a multitenant cloud architecture with multiple business groups, with infrastructure configuration in each tenant.

### 7 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

### 8 Extensibility in the Enterprise Cloud

- Describe the role of vRealize Orchestrator in vRealize Automation extensibility
- Create event broker subscriptions
- Configure workflow subscriptions
- Use IaaS extensibility and the vRealize Automation event broker system

### 9 Enterprise Management

- Use VMware vRealize® Operations Manager™ and the vRealize Automation management pack
- Use vRealize Log Insight in vRealize Automation enterprise management
- Describe the capabilities and use cases for VMware vRealize® Suite Lifecycle Manager™
- Replace expired security certificates

## Contact

If you have questions or need help registering for this course, click [here](#).



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