**Course 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.

**Course Objectives**

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

**Target Audience**

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

**Prerequisites**

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

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

**Certifications**

No certifications are tied to this course.
Course Delivery Options
- Classroom
- Live Online
- Onsite

Product Alignment
- vSphere 6
- vRealize Automation 7
- VMware vRealize Orchestrator™
- vRealize Log Insight
- vCloud Air
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

3 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™

4 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

5 Administration Role Architecture
- Design either an expanded administration role architecture or a compressed administration role architecture for an enterprise cloud

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
- Describe the use of vRealize CloudClient in a multitenancy context

7 Cloud Resource Design
- Design an enterprise cloud that is based on a multilayered 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 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

9 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

Contact
If you have questions or need help registering for this course, click here.