

VMware Cloud Automation: Design and Deploy [V7.1]

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 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 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