



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

### **Outline for this course:**

#### **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

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