



**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



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## Outline:

### 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



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## 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



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## 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