

# VMware vRealize Automation: Install, Configure, Manage (V7.0)

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## Course Details

### Course Outline

#### 1. Course Introduction

- Introductions and course logistics
- Course objectives

#### 2. vRealize Automation Overview and Architecture

- Describe the software-defined data center
- Explain the purpose of vRealize Automation
- Explain the concepts of vRealize Automation administration and self-service provisioning
- Describe where vRealize Automation fits in the VMware product line
- Discuss use cases for vRealize Automation
- Identify the components of a vRealize Automation simple deployment
- Identify the components of a vRealize Automation enterprise deployment
- Identify the component design options for vRealize Automation
- Identify how vRealize Automation integrates with other VMware products

#### 3. Authentication, Fabric, and Tenants

- Describe identity management in vRealize Automation
- Identify the authentication methods available in vRealize Automation
- Identify the appropriate roles for specific tasks in vRealize Automation
- Create tenants
- Explain multitenant leading practices
- Define relationships between vRealize Automation entities
- Identify and configure vRealize Automation endpoints
- Identify how vRealize Automation discovers compute resources
- Identify fabric groups, business groups, and reservations
- Create and manage reservations for compute resources

#### **4. Converged Blueprints and Catalog Management**

- Define blueprints
- Identify the process and options for configuring a blueprint
- Create a blueprint with a single virtual machine
- Create a blueprint with multiple virtual machines
- Identify the role of the service catalog
- Define catalog items
- Use entitlements to manage catalog items

#### **5. Consuming Catalog Services**

- Request a single-machine service
- Monitor the service provisioning status
- Reconfigure a provisioned machine
- Manage snapshots
- Identify roles involved in creating approval policies
- Identify approval policy level
- Identify approval phases
- Create and apply approval policies for catalog items
- Use custom properties to modify the provisioning process
- Use property groups to group sets of custom properties
- Use the property dictionary to modify the provisioning process

#### **6. Integrating VMware NSX**

- Understand VMware NSX capabilities
- Describe the VMware NSX components that vRealize Automation uses
- Describe the benefits of VMware NSX integration with vRealize Automation
- Integrate vRealize Automation and VMware NSX
- Use VMware NSX elements in vRealize Automation blueprints

#### **7. Application Authoring**

- Understand the lifecycle of a vRealize Automation Application deployment
- Author an application blueprint
- Deploy an application blueprint from the service catalog

#### **8. Monitoring and Reclamation**

- Identify how to monitor resource use
- Demonstrate how to reclaim resources

- Demonstrate how to manage machine leases
- Monitor system events

#### **9. vRealize Automation Extensibility**

- Identify the vRealize Automation extensibility tools
- Identify the vRealize Automation extensibility use cases
- Use vRealize CloudClient to export a blueprint
- Use vRealize Orchestrator
- Use vRealize Orchestrator plug-ins for external integration
- Describe anything-as-a-service (XaaS) components
- Create an XaaS blueprint
- Describe how the event broker service enhances extensibility
- Identify the appropriate subscription types and options for a subscription
- Describe the two event broker event types
- Identify the three event broker phases
- Illustrate the master workflow
- Describe the necessary requirements for passing custom properties to workflows
- Explain how the event broker helps with day 2 operations

#### **10. vRealize Automation Installation**

- Explain the vRealize Automation installation prerequisites
- Describe the vRealize Automation installation procedure
- Perform a vRealize Automation appliance deployment
- Configure the vRealize Automation appliance