

## VMware vRealize Automation: Install, Configure, Manage

### COURSE OVERVIEW:

During this five-day course, you will focus on installing, configuring, and managing VMware vRealize Automation. You will learn about the configuration and use of the vRealize Automation platform, including self-service provisioning and the creation of catalog services that include predefined virtual machines, software components, and on-demand VMware NSX networks.

This course also covers interfacing vRealize Automation with other systems using VMware vRealize Orchestrator to leverage workflows, creating approval cycles, and managing machine lifecycles to conserve resources. In addition, you will better understand and know how to achieve the benefits of automation as a component of the software-defined data center.

### WHO WILL BENEFIT FROM THIS COURSE?

Experienced system administrators, cloud administrators, system integrators, and operational developers.

### PREREQUISITES:

This course requires completion of one of the following courses:

- VMware vSphere: Install, Configure, Manage
- VMware vSphere: Fast Track

### COURSE OBJECTIVES:

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

- Describe the vRealize Automation architecture and use cases
- Install and configure vRealize Automation
- Manage vRealize Automation entities on VMware and third-party virtual, cloud, and physical infrastructures
- Configure and manage catalogs and blueprints
- Configure and manage business groups and reservations for compute resources on VMware, Microsoft, Amazon, and other platforms
- Use the self-service portal to request and manage machines in accordance with vRealize Automation approval and governance policies
- Explain vRealize Automation extensibility and workflows
- Manage and monitor machines and resource reclamation

### COURSE OUTLINE:

#### Course Introduction

- Introductions and course logistics
- Course objectives

**1. 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

**2. 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

**3. Converged Blueprints, Containers, and Catalog Management**

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

**4. 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

**5. Integrating NSX**

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

**6. Application Authoring**

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

**7. Monitoring and Reclamation**

- Identify how to monitor resource use
- Demonstrate how to reclaim resources
- Demonstrate how to manage machine leases
- Monitor system events

**8. 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
- Use scale-in and scale-out to size virtual appliances
- Integrate VMware vSphere@\_ virtual machine storage policies into blueprints

**9. 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

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