VMware vRealize Automation: Install Configure Manage [V7.6]

Code:	EDU-VRAICM76
Length:	5 days
URL:	View Online

During this five-day course, you focus on installing, configuring, and managing VMware vRealize® Automation™. You 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.

Skills Gained

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

- Describe the vRealize Automation architecture and use cases in cloud environments
- Install and configure vRealize Automation
- Manage vRealize Automation entities on VMware and third-party virtual and cloud infrastructures
- Configure and manage catalogs, containers, and blueprints
- Configure and manage business groups and reservations for compute resources
- Use the self-service portal to request and manage machines in accordance with vRealize Automation approval and governance policies
- Use customize properties and property groups in blueprints
- Develop and use custom forms
- Manage and monitor machines and resource reclamation
- Configure and manage event broker subscriptions
- Understand vRealize Automation extensibility and workflows
- Use vRealize Automation to deploy and manage containers
- Integrate vRealize Automation with third-party products

Who Can Benefit

Experienced system administrators and system integrators responsible for designing and implementing vRealize Automation.

Prerequisites

This course requires completion of one of the following courses: • VMware vSphere: Install, Configure, Manage [V6.x] • VMware vSphere: Fast Track [V6.x] Experience with working at the command line is helpful. This course requires that a student be able to perform the following tasks with no assistance or guidance before enrolling in this course:

- Create VMware vCenter Server® objects, such as data centers and folders
- Create a virtual machine using a wizard or a template
- Modify a virtual machine's hardware
- Migrate a virtual machine with VMware vSphere® vMotion®
- Migrate a virtual machine with VMware vSphere® Storage vMotion®
- Configure and manage a vSphere DRS cluster with resource pools.
- Configure and manage a VMware vSphere® High Availability cluster.
- If you cannot perform all of these tasks, VMware recommends that you complete one of the prerequisite courses before enrolling in VMware vRealize Automation: Install, Configure, Manage.

Course Details

Product Alignment

- VMware vSphere 6.7 U2
- VMware vRealize Automation 7.6
- VMware vRealize Orchestrator 7.6
- VMware vRealize Business for Cloud 7.6
- VMware vRealize Operations 7.5
- vRealize Lifecycle Manager 2.1
- NSX for vSphere 6.4.4

Outline

Course Introduction

- Introductions and course logistics
- Course objectives

vRealize Automation Overview and Architecture

- Explain the role of vRealize Automation
- Describe where vRealize Automation fits in the VMware product stack
- 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
- Explain the concepts of vRealize Automation administration and self-service provisioning
- Identify how vRealize Automation integrates with other VMware products

vRealize Automation Installation

- Identify the prerequisites for installation
- Describe the differences between a minimal deployment and an enterprise deployment
- Describe the steps to install vRealize Automation using minimal deployment
- Describe the steps to install vRealize Automation using VMware vRealize® Suite Lifecycle Manager™

vRealize Automation Tenancy

- Describe multitenancy
- Create tenants

Authentication and Authorization

- Identify the authentication methods available in vRealize Automation
- Describe identity management in vRealize Automation
- Identify the appropriate role for different tasks in vRealize Automation

vRealize Automation Infrastructure Configuration

- Configure vRealize Automation endpoints
- Create Fabric Groups
- Create Business Groups
- Create Network Profiles
- Create and manage Reservations for compute resources
- Create Reservation Policies

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 multitiered virtual application
- Identify the role of the service catalog
- Define catalog items
- Use entitlements to manage catalog items
- Define Cloudclient
- Export blueprints using Cloudclient

Software Provisioning

- Define software components
- Design software components and application blueprints
- Deploy an application blueprint from the service catalog

Custom Resources and the Property Dictionary

- 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
- Use component profiles in the creation and deployment of blueprints

Custom Forms

- Describe the benefits of using custom forms
- Use the custom Form Editor
- Define constraints
- Define read-only fields
- Use vRealize Orchestrator actions in custom forms

Integrating VMware NSX

- Integrate vRealize Automation and VMware NSX
- Use VMware NSX elements in vRealize Automation blueprints

Extensibility

- Introduction to Extensibility
- Describe the Event Broker
- Describe the master workflow
- Create an XaaS blueprint

Approval Policies

- Identify roles involved in creating approval policies
- Identify approval policy levels
- Identify approval phases
- Create and apply approval policies for catalog items

Monitoring and Reclamation

- Identify how to monitor resource use
- Demonstrate how to reclaim resources
- Demonstrate how to manage machine leases
- Monitor system events
- Create a vRealize Automation system health check test
- Create a vRealize Orchestrator system health check test

vRealize Automation Integration with Containers

- Describe Containers
- Describe how Docker and Kubernetes can manage containers
- Describe Harbor

- Describe vSphere Integrated Containers

vRealize Automation Integration with vRealize Suite

- Describe the use cases and benefits of using vRealize Lifecycle Manager to manage a vRealize Automation deployment
- Describe VMware vRealize® Business™ for Cloud concepts
- Use vRealize Business for Cloud to manage cost
- Describe vRealize Operations Dashboard integration with vRealize Automation
- Describe dashboard features related to deployments
- Describe dashboard features related to machines

vRealize Automation Integration with External Systems

- Describe how vRealize Automation can be integrated with external systems including Amazon endpoints, vCloud on AWS, Azure endpoints, Google Cloud Platform endpoints, Ansible Tower integration, ServiceNow integration, and Puppet.
