

[VMVRAICMV8]: VMware vRealize Automation: Install, Configure, Manage

Length : 5 Days
Delivery Method : Instructor-led Classroom)

Course Overview

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.

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

Audience Profile

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

At Course Completion

- 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 computer 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

AVANTUS TRAINING PTE LTD

80 Jurong East Street 21 #04-04 Devan Nair Institute Singapore 068897

Main Line: +65 6661 0888 | Fax: +65 6661 0886

Email: enquiries@AvantusTraining.com

www.AvantusTraining.com

- 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

Pre-Requisites

This class requires completion of one of the following:

- VMware vSphere: Install, Configure, Manage [V6.x]
- VMware vSphere: Fast Track [V6.x]

Experience with working at the command line is helpful.

The course presumes that a student can 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.

Certifications

This course prepares you for the following certification:

VMware Certified Professional 7 – Cloud Management and Automation (VCP7-CMA)

Course Outline

Module 1: Course Introduction

Lessons

- Introductions and course logistics
- Course objectives

Module 2: vRealize Automation Overview and Architecture

Lessons

- Explain the role of vRealize Automation

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- 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

Module 3: vRealize Automation Installation

Lessons

- 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™

Module 4: vRealize Automation Tenancy

Lessons

- Describe multitenancy
- Create tenants

Module 5: Authentication and Authorization

Lessons

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

Module 6: vRealize Automation Infrastructure Configuration

Lessons

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

Module 7: Blueprints and Catalog Management

Lessons

- 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

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- Define Cloudclient
- Export blueprints using Cloudclient

Module 8: Software Provisioning

Lessons

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

Module 9: Custom Resources and the Property Dictionary

Lessons

- 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

Module 10: Custom Forms

Lessons

- 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

Module 11: Integrating VMware NSX

Lessons

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

Module 12: Extensibility

Lessons

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

Module 13: Approval Policies

Lessons

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

Module 14: Monitoring and Reclamation

Lessons

- Identify how to monitor resource use

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- 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

Module 15: vRealize Automation Integration with Containers

Lessons

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

Module 16: vRealize Automation Integration with vRealize Suite

Lessons

- 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

Module 17: vRealize Automation Integration with External Systems

Lessons

- 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

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