



**Enterprise Computing Solutions - Education Services**

## **TRAINING OFFERING**

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# VMware vRealize Automation: Install, Configure, Manage V7.6

CODE:	LENGTH:	PRICE:
VM-VR-A-ICM-V7.6	40 Hours (5 days)	\$4,250.00

## Description

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

This course is also available in an On Demand format. • NSX for vSphere 6.4.4

## Objectives

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

## Audience

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.

## Programme

- 1 Course Introduction
  - Introductions and course logistics
  - Course objectives
- 2 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
- 3 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™
- 4 vRealize Automation Tenancy
  - Describe multitenancy
  - Create tenants
- 5 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
- 6 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
- 7 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
- 8 Software Provisioning
  - Define software components
  - Design software components and application blueprints
  - Deploy an application blueprint from the service catalog
- 9 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
- 10 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
- 11 Integrating VMware NSX
  - Integrate vRealize Automation and VMware NSX
  - Use VMware NSX elements in vRealize Automation blueprints
- 12 Extensibility
  - Introduction to Extensibility
  - Describe the Event Broker
  - Describe the master workflow
  - Create an XaaS blueprint
- 13 Approval Policies
  - Identify roles involved in creating approval policies
  - Identify approval policy levels
  - Identify approval phases
  - Create and apply approval policies for catalog items
- 14 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
- 15 vRealize Automation Integration with Containers
  - Describe Containers
  - Describe how Docker and Kubernetes can manage containers
  - Describe Harbor
  - Describe vSphere Integrated Containers

#### 16 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

#### 17 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

### Session Dates

On request. Please [Contact Us](#)

### Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)