

# VMware vRealize Automation: Install, Configure, Manage [V7.0]

**Duration: 5 Days**

**Course Code: VRAICM7**

## 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, and 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

- vRealize Automation 7

## 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

**Intended Audience:** Experienced system administrators and system integrators responsible for designing and implementing VMware Horizon® solutions

**Prerequisites:** This class requires completion of one of the following:

- [VMware vSphere 6.x: Install, Configure, Manage](#)
- [VMware vSphere 6.x: Fast Track](#)
- Equivalent knowledge and administration experience with VMware ESX®/VMware ESXi™ and VMware vCenter Server™

Experience with working at the command line is helpful.

The course material presumes that a student can perform the following tasks with no assistance or guidance before enrolling in this course:

- Install and configure ESX/ESXi
- Install vCenter Server
- Create vCenter Server objects, such as data centers and folders
- Create and manage vCenter Server roles and permissions
- Create and modify a standard switch
- Create and modify a distributed switch
- Connect an ESX/ESXi host to NAS, iSCSI, or Fibre Channel storage
- Create a VMware vSphere® VMFS datastore
- Enable VMware vSphere® vMotion® on an ESX/ESXi host
- Use a wizard or a template to create a virtual machine

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- Modify a virtual machine's hardware
- Migrate a virtual machine with vSphere vMotion
- Migrate a virtual machine with VMware vSphere® Storage vMotion®
- Configure and manage a VMware vSphere® Distributed Resource Scheduler™ cluster with resource pools
- Configure and manage a VMware vSphere® High Availability cluster

If you are unable to complete all of these tasks, VMware recommends that you complete one of the prerequisite courses before enrolling in VMware vRealize Automation: Install, Configure, Manage.

**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
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