

Szkolenie: HPE
VMware vRealize Automation: Install, Configure, Manage



Cel szkolenia:

During this 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 ondemand 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.

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 / Job Roles

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

Plan szkolenia:

- Course Introduction
 - Introductions and course logistics
 - Course objective
 - Explain the role of vRealize Automation
- vRealize Automation Overview and Architecture
 - 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™
 - 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 Group
 - 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 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

Wymagania:

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:

- VCreate 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.

Poziom trudności



Certyfikaty:

The participants will obtain certificates signed by VMware (course completion).

Prowadzący:

Authorized VMware Trainer.