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

Certfikaty:

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

Prowadzący:

Authorized VMware Trainer.