

VMware vRealize Automation: Install, Configure, Manage [8.3] Training

Duration: 5 Days

Course Content:

VMware vRealize Automation: Install, Configure, Manage Training teaches you to use vRealize Automation to automate the transfer of virtual machines, personalize IT services, and apply it all over different hybrid cloud environments and data centers. Our enterprise training program is best for organizations and companies. It demonstrates the overall structure of vRealize Automation and utilizes cases in cloud environments.

You will learn to configure and handle Cloud Accounts, Flavor Mappings, Projects, Network Profiles, and Image Mappings. This technical course teaches you to manage both cloud services and on-premise systems and explains how vRealize Automation Service Broker can magnify content in native formats from many different clouds and platforms into a similar catalog. You will learn to utilize CLI commands and logs to inspect and rectify vRealize Automation and configure and handle ABX actions, event broker subscriptions, custom properties, and VMware. It teaches you to create, manage, modify, and launch blueprints and integrate with vRealize Orchestrator.

Who should attend?

The primary audience for this course is system integrators and professionals having good experience as system administration. However, the tertiary audience for this course is also professional who know how to implement and design vRealize Automation.

Prerequisites for this training

This course requires completion of one of the following courses and be able to perform the following tasks with no assistance or guidance before enrolling in this course:

- VMware vSphere: Install, Configure, Manage
- VMware vSphere: Fast Track
- 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.

What you will learn

- Describing about Cloud Automation Services covering code stream and cloud assembly.
- Describing the vRealize Automation architecture and utilize cases in cloud networking environments.
- Managing the utilized cases in cloud environments and the vRealize Automation architecture.
- Managing the vRealize Automation things on third-party virtual, cloud infrastructures and VMware.
- Managing and configuring Cloud Accounts, Image Mappings, Projects, Network Profiles, Tags, Volumes, Storage Profiles and Flavor Mappings.

- Manage, modify, create and design Blueprints.
- Connection to manage Kubernetes Cluster and deployments.
- Customizing services covering CloudConfig.
- Managing and configuring service broker.
- Managing and configuring ABX actions, customized properties, vRealize Orchestrator workflows and subscriptions for event broker.
- Integration with vRealize Orchestrator.
- Installing vRealize Automation covering Lifecycle Configuration Manager.
- Describing the Cloud Automation Services covering Code Stream and Cloud Assembly.
- Utilizing CLI commands and logs for troubleshooting and monitoring vRealize Automation.

Curriculum

Module 1: Course Introduction

- Introductions and course logistics
- Course objectives

Module 2: vRealize Automation Overview and Architecture

- Describe the purpose and functionality of vRealize Automation
- Describe the vRealize Automation architecture
- Describe the use of VMware Workspace ONE® Access™
- Describe the relationship between Kubernetes clusters, containers, and vRealize Automation services
- Describe CLI commands for vRealize Automation 8 cluster management
- Describe Cloud Assembly
- Describe Service Broker
- Describe Code Stream

Module 3: Installing vRealize Automation

- List the different vRealize Automation deployment types
- Describe the purpose of vRealize easy installer
- Describe the vRealize Automation installation process

Module 4: Authentication and Authorization

- Identify the steps involved in integrating Workspace One with Active Directory
- Describe features of Workspace One
- Describe the user roles available in vRealize Automation
- Identify the key tasks performed by each user role
- Define custom roles
- Configure branding and multitenancy

Module 5: Basic Initial Configuration

- Quickly create a basic configuration with a cloud account, cloud zone, project, flavor mapping, and image mapping.

Module 6: VMware Cloud Templates

- Configure and deploy a basic cloud template
- Create cloud templates that can run on any cloud
- Use cloudConfig to run commands, install software, and create users
- Use YAML for inputs, variables, and conditional deployments

Module 7: Tags and Storage Configuration

- Configure tags
- Describe different types of tags
- Manage tags
- Configure storage profiles
- Use tags and storage profiles

Module 8: Integrating NSX-T Data Center

- List the capabilities and use cases of NSX-T Data Center
- Describe the NSX-T Data Center architecture and components
- Integrate NSX-T Data Center with vRealize Automation
- List the supported network profiles in vRealize Automation
- Use NSX-T Data Center components to design a multitier application Cloud Template
- Identify the network and security options available in design canvas
- Create and manage on-demand networks and security groups
- Configure NSX-T day 2 actions

Module 9: Integrating with Public Clouds

- Configure and use VMware Cloud Foundation accounts
- Configure and use an AWS cloud account
- Configure and use an Azure cloud account
- Configure and use a Google Cloud Platform cloud account

Module 10: Using Service Broker for Catalog Management

- Release a VMware Cloud Template™
- Define content source and content sharing
- Define Service Broker policy enforcement
- Use custom forms for catalog items

Module 11: vRealize Automation Extensibility

- Describe Extensibility
- Use event topics
- Create a subscription
- Call a vRealize Orchestrator workflow
- Create ABX actions

Module 12: Using Code Stream

- Introduction to Code Stream
- The CI/CD process
- Integrate GitLab with Code Stream and Cloud Assembly
- Use Code Stream to install software

Module 13: Using Terraform

- Integrate Cloud Assembly with Terraform
- Use Terraform with a VMware Cloud Template
- Use Terraform with Code Stream

Module 14: Using Kubernetes Clusters

- Introduction to Kubernetes
- Connect to an existing Kubernetes Cluster
- Integrate VMware Tanzu™ Grid Integrated Edition

- Create a Supervisor Namespace as a catalog item

Module 15: Using SaltStack for Configuration Management

- Introduction SaltStack with vRealize Automation
- Use SaltStack for software deployment
- Use SaltStack for configuration management
- Use SaltStack with event-driven orchestration

Module 16: vRealize Automation Troubleshooting and Integration

- Location of logs
- Using Activity
- Monitoring deployment history
- Basic troubleshooting
- CLI commands
- Collecting logs (VAMI console)
- Integration with VMware vRealize® Log Insight™
- Integration with vRealize Operations
- Migrating vRealize Automation 7.x to 8

For any query Contact Us – MicrotekLearning
