

VMWA-9 - VMWARE VREALIZE AUTOMATION: ADVANCED FEATURES AND TROUBLESHOOTING [V8.X]

Categoria: **VMware**

INFORMAZIONI SUL CORSO



Durata:
5 Giorni



Categoria:
VMware



Qualifica Istruttore:
VMware Certified
Instructor



Dedicato a:
Professionista IT



Produttore:
VMware

OBIETTIVI

By the end of the course, you should be able to meet the following objectives:

- Describe and configure the vRealize Automation in a clustered enterprise deployment using VMware vRealize® Suite Lifecycle Manager™
- Scale VMware Identity Manager™ to support High Availability.
- Configure security certificates in vRealize Automation from external Certificate Authorities.
- Describe the clustered deployment architecture, including Kubernetes pods and services.
- Create and configure advanced blueprints with complex YAML and cloudConfig.
- Use vRealize Automation advanced blueprints to deploy an actual 2-tier DB-Server using MySQL and phpMyAdmin.
- Practice troubleshooting techniques with advanced YAML blueprints in vRealize Automation.
- Use advanced VMware NSX-TTM Data Center networking features including NAT, routed networks, load balancers, security groups, and tags.
- Use VMware Code Stream™ to integrate vRealize Automation with Kubernetes.
- Create Code Stream pipelines.
- Create and use Ansible playbooks that integrate with vRealize Automation.
- Configure vRealize Automation to integrate with Puppet.
- Configure and use ABX actions to create day-2 actions and interface with PowerShell scripts.
- Use vracli commands, log files, and VMware vRealize® Log Insight™ to troubleshoot vRealize Automation and vRealize Automation deployments.

PREREQUISITI

This course requires completion of the following course:

- VMware vRealize Install Configure Manage [V8.x]

Experience 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 VMware vSphere® DRS cluster with resource pools.
- Configure and manage a VMware vSphere® High Availability cluster.
- Create and deploy a simple blueprint in vRealize Automation 8.x
- Use cloudConfig in vRealize Automation blueprints
- Configure infrastructure in vRealize Automation 8.x

CONTENUTI

1 Course Introduction

- Introductions and course logistics
- Course objectives

2 vRealize Automation Clustered Deployment

- Use LCM in a clustered deployment
- Configure External Certificates
- Configure NSX-T Data Center load balancer
- Install vRealize Automation using Clustered Deployment
- Scale VMware Identity Manager to support High Availability

3 vRealize Automation Clustered Deployment Architecture

- List of Kubernetes Pods
- The vRealize Automation Kubernetes Architecture
- Relationship of Kubernetes Pods to Services
- Logs and their locations
- Blueprint deployment workflow with Kubernetes Service interaction
- Backup strategies and potential problems

4 Advanced Blueprints

- Use advanced YAML and cloudConfig to deploy a functioning 2-tier application with a phpMyAdmin front-end server and a MySQL database server
- Use troubleshooting techniques to debug problems in advanced YAML blueprints
- List the log files that can aid in troubleshooting blueprint deployment

5 Advanced Networking

- Use VMware NSX-T Data Center advanced features in blueprints
- Interfacing to IPAMs
- Use NSX-T Data Center NAT in blueprints
- Use NSX-T Data Center routed networks
- Use NSX-T Data Center load balancers
- Use NSX-T Data Center security groups
- Use tags with NSX-T Data Center network profiles

6 Using vRealize Orchestrator

- Create Day-2 Actions with vRealize Orchestrator workflows
- Troubleshoot vRealize Orchestrator cluster issues

- Use vRealize Orchestrator to add computer objects to Active Directory when vRealize Automation deploys blueprints
- Use a tagging approach to vRealize Orchestrator workflows
- Use dynamic forms with vRealize Orchestrator

7 Using ABX Actions

- Determine when to use ABX and when to use vRealize Orchestrator
- Use ABX to create day-2 Actions
- Call PowerShell from ABX

8 Kubernetes Integration

- Create a Kubernetes namespace from vRealize Automation
- Connect to an existing Kubernetes cluster
- Automate the deployment of an application to a Kubernetes cluster with Code Stream
- Use Kubernetes in Extensibility

9 Code Stream

- Create and use CI/CD pipelines
- Use the Code Stream user interface
- Add states and tasks to a Code Stream pipeline
- Integrate code from Code Stream with Git

10 Using GitLab Integration

- Configure the GitLab Integration
- Use Gitlab with blueprints

11 Configuration Management

- Describe the use case of Ansible and Ansible Tower
- Connect to Ansible Tower
- Use Ansible playbooks
- Use Puppet in configuration management

12 Troubleshooting

- vracli commands and when to use them
- Check the status of Kubernetes pods and services
- Correct the state of pods and services
- Diagnose and solve vRealize Automation infrastructure problems
- Diagnose and solve vRealize Automation failures to deploy blueprints and services
- Use vRealize Log Insight for troubleshooting

INFO

Manuale: Il Materiale Didattico Ufficiale per tutti i corsi VMware non è più in forma cartacea ma elettronica e lo studente iscritto potrà scaricarlo dal sito VMware

Prezzo manuale: incluso nel prezzo del corso a Calendario

Natura del corso: Operativo (previsti lab su PC)