

VMWA-47 - VMWARE CLOUD FOUNDATION: AUTOMATE AND OPERATE [V9.0]

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 VCF Automation components and supporting architecture
- Perform infrastructure management as a cloud provider
- Deploy Regions and Organizations as the cloud provider
- Configure networking at the cloud provider and organization levels
- Configure and manage content libraries at the provider and organization levels
- Manage access control in the organization using users and groups
- Create and manage infrastructure blueprints and catalogs
- Describe the use of the embedded orchestrator to create workflows
- Deploy VM workloads using catalog deployment and Kubernetes-based IaaS deployments
- List the key features of VCF Operations
- Outline VCF Operations use cases
- Create custom views and reports
- Describe the functions of dashboards
- Create custom dashboards
- Create custom symptoms and alert definitions
- Outline the role of VCF Health and Diagnostics
- Explain Troubleshooting Workbench
- Describe the VMware Cloud Foundation® Operations for logs overview
- Identify performance and health issues with the Storage clusters using Storage Operations
- Identify performance and health issues with the VCF Network objects
- Create policies to meet the operational needs of your environment
- Configure service discovery and application monitoring

PREREQUISITI

Before taking this course, students should take the following courses:

- VMware vSphere: Install, Configure, Manage
- VMware NSX: Install, Configure, Manage

CONTENUTI

Module 1. VCF Automation Overview and Architecture

- Describe the features, benefits, and purposes of VCF Automation
- Explain the architecture of VCF Automation

Module 2. Provider Infrastructure Management

- Describe the provider management and provider consumption portals
- List the supported options for provider administrator from the provider portal
- Explain managing tasks and events from the provider portal
- Describe the features of the provider consumption organization
- Describe how to discover infrastructure resources
- Explain how to manage IP spaces and provider gateways

Module 3. Provider Identity Management

- Explain how to enable VCF SSO for the Automation appliance
- Discuss configuring VMware Cloud Foundation® Identity Broker as the identity provider
- List the supported IdP (ODIC, SAML, LDAP)
- Discuss how to register a provider-scoped identity provider
- Explain managing VCF Automation roles and rights
- Discuss managing VCF Automation users and groups
- Discuss provider-scoped service accounts

Module 4. Regions

- Explain the basics of a Region
- Identify the utilization of the Region
- Discuss prerequisites and available options for creating a Region

Module 5. Organizations

- Describe the different Organizations offered in VCF Automation
- Identify the use cases for manual setup and multitenancy
- Identify use cases for Quick Setup
- Create a VCF Automation VM Apps Organization
- Create a VCF Automation All Apps Organization

Module 6. Provider Networking

- Discuss prerequisites for creating the provider network
- Discuss the workflow for configuring the provider network
- Describe IP Spaces
- Discuss Edge nodes, Edge clusters, and the network services it offers
- Configure IP Spaces and verify the configuration
- Configure the Provider Gateway and verify the status
- Synchronize Edge clusters and verify the status
- Configure regional networking for an Organization
- Discuss steps to verify the creation of network resources in VMware NSX®, VMware vCenter®, and VCF Automation.
- Discuss the mapping of resources between VCF Automation, NSX, and vCenter

Module 7. Organization Networking with VPC

- Discuss Organization Networking

- Discuss the architecture of the VPC
- Discuss access modes and subnet types in VPC
- Describe the scope of different subnet types in VPC
- Discuss Outbound Routing and Network Address Translations in VPC
- Configure VPC with a default, custom connectivity profile and verify its status
- Configure Private-TGW IP Block, associate it with a VPC, and verify its status

Module 8. Provider Content Library

- Describe the Provider Content Library creation workflow
- Explain publishing and subscribing to a Content Library

Module 9. Organization Management

- Identify the key components of an All Apps Organization
- Explain namespace classes
- Explain creating and managing Projects
- Discuss Chargeback for Organizations
- Integrate identity providers into Organizations
- Manage users and groups in an Organization
- Create and manage deployment-centric policies
- Create and manage Supervisor resource-centric policies

Module 10. Organization Content Management

- Identify and manage the different content available in Content Hub
- Differentiate between catalog self-service versus IaaS self-service
- Publish content to Catalog for end-user consumption
- Deploy and modify Catalog items
- Configure and use custom forms
- Explain the role of YAML in configuring and managing infrastructure as code
- Publish Content to Catalog for End User Consumption
- Discuss the use of the embedded orchestrator
- Discuss the use cases of an external orchestrator
- Describe orchestrator workflows

Module 11. IaaS Platform Architecture and Deployment

- Explain Supervisor architecture
- Discuss Supervisor requirements
- List Supervisor use cases
- Discuss the vSphere administrator workflow
- List the components of the Supervisor
- Discuss the types of Supervisor deployment
- Discuss the requirements of Supervisor deployment
- Describe Supervisor deployment during the VI Workload Domain creation

Module 12. Deploying Modern Apps with IaaS

- Discuss self-service consumption with IaaS services in VCF 9
- Discuss the features of the IaaS console
- Describe how to get instance information from the console
- Explain the YAML Spec for the VM service
- Discuss VCF CLI commands

Module 13. VCF Operations Overview

- List the key features of VCF Operations
- Outline VCF Operations use cases
- Navigate the VCF Operations console
- Identify the components of a VCF Operations node
- Describe the different roles of the node in a VCF Operations cluster

Module 14. VCF Metrics, Views, and Reports

- Outline the role of metrics in VCF Operations
- Outline the role of views in VCF Operations
- List the steps to create a basic custom view and configure view settings
- Outline the roles of reports in VCF Operations
- List the steps to create a basic report and configure report settings

Module 15. VCF Dashboards

- Describe the functions of dashboards
- Create dashboards that use predefined and custom widgets
- Manage dashboards by grouping and sharing with users
- Explain the use cases of predefined dashboards and custom dashboards
- List VCF Operations use cases

Module 16. VCF Symptoms and Alerts

- Describe the purpose of using alerts
- Identify the components of an alert definition
- Create symptom definitions
- View and manage triggered alerts in the VCF Operations console
- Configure a custom alert using the Create Alert Definition workflow

Module 17. VCF Health and Diagnostics

- Outline the role of VCF Health and Diagnostics
- Describe the VCF Health and Diagnostic Findings features
- Monitor the operational state of VCF instances
- Explain Troubleshooting Workbench
- Enable support teams with full context using Log Assist

Module 18. VCF Logs, Storage, and Network Operations

- Describe the VCF Operations for logs overview
- Describe the key benefits of the VCF Operations for logs
- Describe the capabilities of VCF Operations for logs
- Describe the VCF Storage Operations overview
- Identify performance and health issues with the Storage clusters
- Describe the benchmarking and optimization tool to detect issues for a new cluster
- Describe the VCF Network Operations overview
- Discuss the different widgets available in VCF Network Operations
- Identify the performance and health issues with the VCF Network object

Module 19. VCF Operations Policies

- Describe the purposes of policies in VCF Operations

- Configure policies and other components

Module 20. VCF Centralized Monitoring

- Describe the infrastructure services monitoring capabilities
- Describe the application monitoring capabilities
- Describe the different types of application metrics
- Outline the requirements to enable service discovery and application monitoring
- Describe the different types of service metrics
- Use collected metrics to interpret the status of services

INFO

Esame: 2V0-17.25 - VMware Cloud Foundation 9.0 Administrator --- VMware Certified Professional - VMware Cloud Foundation Administrator (VCP-VCF Admin)

Materiale didattico: Materiale didattico ufficiale VMware in formato digitale

Costo materiale didattico: incluso nel prezzo del corso a Calendario

Natura del corso: Operativo (previsti lab su PC)