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

Categoria: **VMware**

INFORMAZIONI SUL CORSO

Durata:	Categoria:	Qualifica Istruttore:	Dedicato a:	Produttore:
5 Giorni	VMware	VMware Certified Instructor	Professionista IT	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)