VMWA-46 - VMWARE CLOUD FOUNDATION: BUILD, MANAGE AND SECURE [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:

- -Define VCF and its key features
- -Describe the use cases of VCF
- -Explain the architecture of the VCF private cloud
- -Recognize the components of the VCF private cloud
- -Outline the sequence for deploying the VCF private cloud
- -Describe the deployment configuration of VCF instance core components
- -Explain the deployment configuration of VCF fleet management components
- -Deploy VMware Cloud Foundation® Operations for networks, VMware Cloud Foundation® Operations for logs, and VMware
- -Cloud Foundation® Identity Broker
- -Describe the VCF licensing model
- -Describe the single sign-on architecture in VCF
- -Identify the steps to configure single sign-on in VCF
- -Manage users and user groups in VCF
- -Outline the steps to manage passwords in VCF
- -Outline the steps to create a workload domain
- -Configure VMware® vCenter® linked groups
- -Import vCenter as a workload domain using VCF Operations
- -Describe the process for configuring Fibre Channel storage
- -Identify the components of an iSCSI storage system
- -Outline the process of provisioning NFS storage to VMware® ESX hosts
- -Identify and use built-in tools to validate a successful VMware® vSAN deployment
- -Compare the various tools used to monitor a vSAN cluster
- -Explain the types of vSAN reports available in VMware Cloud Foundation® Operations
- -Explain Virtual Private Cloud concepts and constructs
- -Differentiate between Centralized and Distributed Network Connectivity
- -Identify the steps to configure virtual private cloud
- -Manage certificates in VCF
- -Explain the life cycle management of VCF components
- -Identify the supported upgrade paths to VCF 9.0

-Define security, compliance and resilience in VCF
-Describe the integrated security features across all layers in VCF
-Discuss and perform VCF upgrade paths

PREREQUISITI

This course has the following prerequisites:
-Working experience and knowledge of VMware vSphere®, VMware NSX®, and vSAN environments

CONTENUTI

Module 1. Course Introduction
-Introductions and course logistics
-Course objectives

Module 2. VCF Private Cloud: Overview and Architecture
-Define VCF and its key features? Describe the use cases of VCF
-Explain the capabilities of VCF
-Describe the integrated security across all layers in VCF
-Explain the advanced services of VCF
-Explain the architecture of the VCF private cloud
-Recognize the components of the VCF private cloud
-Distinguish between VCF fleet-level components and VCF instance-level components
-Describe the various roles in VCF private cloud

Module 3. VCF Private Cloud Deployment
-Identify the VCF fleet deployment considerations
-Describe the process for planning and preparing a VCF deployment
-Identify the information required for the Planning and Preparation Workbook
-Explain the high-level steps to deploy VCF private cloud
-Outline the sequence for deploying the VCF private cloud
-Describe the deployment configuration of VCF instance core components
-Explain the deployment configuration of VCF fleet management components
-Use the VCF Installer deployment wizard to deploy a new VCF fleet
-Use a deployment specification JSON file to deploy a new VCF fleet

Module 4. VCF Post-deployment Tasks
-Navigate the VCF Operations user interface
-Navigate the VMware Cloud Foundation® Automation user interface
-Navigate the vSphere Client user interface
-Explain VCF Operations for networks, VCF Operations for logs, and VCF Identity Broker
-Deploy VCF Operations for networks, VCF Operations for logs, and VCF Identity Broker

Module 5. VCF Fleet Management
-Describe the VCF licensing model
-Assign and manage VCF licenses
-Identify key log files to troubleshoot licensing issues

-Discuss single sign-on in VCF
-Describe the single sign-on architecture in VCF
-Discuss VCF Identity Broker in VCF
-Identify the steps to configure single sign-on in VCF
-List the supported directories and IDPs in VCF
-Configure SSO and enablement for all components in a VCF Instance
-Manage users and user groups in VCF
-Outline the steps to manage passwords

Module 6. VCF Workload Domain

-Explain VCF domains
-Describe the management of the workload domains
-List design considerations for workload domains
-Describe design prerequisites for a workload domain
-Outline the steps to create a workload domain
-Describe vCenter Groups
-Configure vCenter linked groups
-Import vCenter as a workload domain using VCF Operations

Module 7. VCF Networking

-Describe the role of VMware NSX in VCF
-Describe the default NSX objects that are created during the VCF deployment
-Discuss the Workload domain networking options
-Describe the networking constructs in NSX
-Explain Virtual Private Cloud concepts and constructs
-Differentiate between Centralized and Distributed Network Connectivity
-Configure Distributed Network Connectivity
-Configure Centralized Network Connectivity
-Identify key CLI commands to determine the NSX Edge cluster status and BGP peering
-Create a Virtual Private Cloud
-Create subnets within a virtual private cloud

Module 8. VCF Storage Management

-Define the key components involved in Fibre Channel storage systems
-Describe the process for configuring Fibre Channel storage
-Identify the components of an iSCSI storage system
-Explain how iSCSI addressing works
-Describe the benefits and considerations of using multipathing with iSCSI storage
-List the requirements to use NFS as principal and supplemental storage
-Outline the process of provisioning NFS storage to ESX hosts
-Describe the steps involved in deploying a vSAN cluster
-Identify and use built-in tools to validate a successful vSAN deployment
-Apply a custom storage policy to an individual virtual machine or virtual disk
-Compare the various tools used to monitor a vSAN cluster
-Explain the types of vSAN reports available in VCF Operations
-Compare different maintenance mode options and their impact on object health
-Summarize the steps to power down a vSAN cluster in a workload domain

Module 9. VCF Certificate Management

- -Describe public key infrastructure
- -Explain the purpose of certificate signing requests
- -Outline the steps to integrate certificates in VCF
- -List the available CA options in SDDC Manager
- -Integrate VCF Operations with Microsoft CA and OpenSSL CA
- -Manage certificates in VCF

Module 10. VCF Life Cycle Management

- -Discuss life cycle management in VCF
- -Explain the life cycle management of VCF fleet management
- -Describe how to configure software depots
- -Describe how to upgrade and patch fleet management components
- -Explain the life cycle management of VCF components
- -Describe how to upgrade and patch the VCF management components
- -Explain the process for backing up and restoring fleet-level management components
- -Explain the process for backing up and restoring VCF management components

Module 11. VCF Security

- -Define security, compliance and resilience in VCF
- -Describe the integrated security features across all layers in VCF
- -Explain the advanced networking and security capabilities of VCF
- -Outline the steps to monitor User and Infrastructure Security
- -Explain how Compliance Benchmark works
- -Outline the steps to monitor Configuration Drift

Module 12. VCF Upgrade Paths

- -Identify the supported upgrade paths to VCF 9.0
- -Explain the upgrade key consideration
- -Evaluate both existing and future compatibility assessments
- -Explain the upgrade sequence to the VCF 9 fleet using the existing vSphere
- -Explain the upgrade sequence to the VCF 9 fleet using the existing vSphere and VCF Operations
- -Explain the upgrade sequence to the VCF 9 fleet using the existing VCF 5.2 with multiple Aria components

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)