VMWA-8 - VMWARE CLOUD FOUNDATION: DEPLOY, CONFIGURE, MANAGE [V5.2]

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:

- -Plan a deployment for VMware Cloud Foundation
- -Describe VMware Cloud Foundation components and supporting architecture
- -Explain the VMware Cloud Foundation licensing model
- -Perform day 0 tasks
- -Perform VMware Cloud Foundation platform onboarding
- -Manage user credentials in VMware Cloud Foundation
- -Configure VMware NSX® networking in VMware Cloud Foundation
- -Deploy and manage workload domains
- -Understand and implement storage solutions and related policies
- -Perform maintenance tasks for the VMware Cloud Foundation platform
- -Manage certificates for VMware Cloud Foundation and connected technologies
- -Manage the life cycle for VMware Cloud Foundation
- -Deploy and manage VMware Aria Suite on VMware Cloud Foundation
- -Understand the Private AI Foundation with NVIDIA architecture and components
- -Engage with VMware Cloud Foundation Technical Support services

PREREQUISITI

Before taking this course, students should take the following courses or have equivalent knowledge and experience:

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

CONTENUTI

1 Course Introduction

- -Introductions and course logistics
- -Course objectives

2 VMware Cloud Foundation Overview

- -Describe the VMware Cloud Foundation solution
- -Describe VMware Cloud Foundation components and architecture
- -Describe vSphere and VMware Cloud Foundation licensing options

3 Day Zero Tasks

- -Describe the process for planning and preparing a VMware Cloud Foundation design
- -Identify the information required for the Planning and Preparation Workbook
- -Describe the fully automated deployment process of VMware SDDC components

4 Post-Deployment Operations

- -Use the VMware Cloud Foundation onboarding wizard to complete preliminary SDDC Manager setup tasks.
- -Configure user access to VMware Cloud Foundation
- -Manage passwords in VMware Cloud Foundation
- -Describe password management with SDDC Manager APIs

5 VMware Cloud Foundation Networking with NSX

- -Describe NSX management and control planes
- -Explain virtual IP addressing
- -Describe logical switching
- -Identify NSX Edge functions
- -Describe NSX deployment in VMware Cloud Foundation
- -Explain how logical routing works in NSX
- -Identify NSX Edge functions
- -Recognize Tier-0 and Tier-1 gateway topologies
- -Describe the spine-and-leaf design
- -Describe the multi-NIC design
- -Describe NSX Edge node design
- -Discuss BGP and OSPF peering with the physical network
- -Describe cluster design and rack design
- -Define application virtual networks
- -Recognize management domain rack options
- -Recognize NSX Edge cluster placement considerations
- -Use SDDC Manager to deploy an application virtual network

6 Managing Workload Domains

- -Define the concept of workload domain
- -Identify use cases for multiple clusters in a workload domain
- -Describe the SSO domain architecture
- -Define the concept of a network pool
- -Explain how to create, edit, and delete a network pool
- -Use SDDC Manager to commission hosts
- -Describe workload domain design considerations
- -Describe ESXi design considerations for a VI workload domain
- -Describe vSphere design considerations for a VI workload domain
- -Describe software-defined networking design considerations for a VI workload domain
- -Describe shared storage design considerations for a VI workload domain
- -Describe how to make workload domain design decisions
- -Expand the workload domain

-Perform simultaneous cluster operations

7 VMware Cloud Foundation Storage Management

-Describe storage options in VMware Cloud Foundation
-Recognize vSAN design considerations
-Identify sizing and performance considerations that impact the storage design
-Recognize vSAN design principles
-Identify components in the vSAN architecture
-Recognize vSAN requirements for the management domain and workload domains
-Define the concepts of deduplication and compression
-Describe how to scale vSAN clusters in VMware Cloud Foundation

8 Availability and Business Continuity

-Explain the importance of external service availability
-Identify the steps in the SDDC Manager backup and restore process
-Identify the steps in the NSX backup and restore process
-Describe native vSphere availability options
-Describe the stretched cluster architecture and use cases
-List the stretched cluster requirements in VMware Cloud Foundation
-Describe the stretched cluster architecture and use cases
-List the stretched cluster requirements in VMware Cloud Foundation

9 VMware Cloud Foundation Certificate Management

-Describe public key infrastructure (PKI)
-Explain the purpose of certificate signing requests (CSRs)
-List the available certificate authority (CA) options in SDDC Manager
-Manage certificates in VMware Cloud Foundation
-Integrate SDDC Manager with Microsoft CA and OpenSSL CA
-Install certificates issued by Microsoft CA, OpenSSL CA, or third-party CAs

10 VMware Cloud Foundation Life Cycle Management

-Describe life cycle management in VMware Cloud Foundation and the software components it supports
-Describe the role of vSphere Lifecycle Manager and ESXi host images in VMware Cloud Foundation
-Describe the role of NSX Upgrade Coordinator in VMware Cloud Foundation
-Describe VMware® Aria Suite Lifecycle™ and its supported products
-Describe the types of bundles and download options available in VMware Cloud Foundation
-Configure SDDC Manager to download VCF online bundles
-Configure a proxy server to download VCF bundles
-Download VMware Cloud Foundation bundles using the Bundle Transfer utility
-Explain the workflow for using vSphere Lifecycle Manager Images in VMware Cloud Foundation
-Create a vSphere Lifecycle Manager image
-Make a vSphere Lifecycle Manager image available in VMware Cloud Foundation
-Configure custom ESXi ISO images and perform firmware upgrades using vSphere Lifecycle Manager
-Explain the upgrade considerations for VMware Cloud Foundation components
-Outline the upgrade precheck process
-Monitor VMware Cloud Foundation updates
-Use the Async Patch Tool to apply patches between BOM releases

11 VMware Aria Suite on VMware Cloud Foundation

-Describe the VMware Aria Suite architecture running on VMware Cloud Foundation
-Explain the networking prerequisites for deploying VMware Aria Suite on VMware Cloud Foundation
-Describe the steps to install and configure VMware Aria Suite Lifecycle and VMware Workspace ONE®
-Explain the common operational tasks in VMware Aria Suite Lifecycle
-Identify the VMware validated solutions for VMware Aria Suite products
-Describe how to use VMware Aria Suite Lifecycle to deploy and manage VMware Aria Suite products

12 VMware Private AI Foundation with NVIDIA

-Describe the Private AI Foundation with NVIDIA solution
-Describe the Private AI Foundation with NVIDIA architecture
-Identify Private AI Foundation with NVIDIA components
-Describe VMware Cloud Foundation use cases for machine learning

13 VMware Cloud Foundation Troubleshooting

-Use the Support and Serviceability (SoS) command-line tool to create log bundles, perform health checks, and check password validity
-List the VMware Cloud Foundation services
-Identify the VMware Cloud Foundation log files
-Use token IDs to troubleshoot failed workflows

INFO

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)