

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

Categoria: VMware

INFORMAZIONI SUL CORSO

Qualifica Istruttore: Dedic VMware Certified Professi

Dedicato a: Professionista IT £53

Produttore: VMware

Durata: 5 Giorni

Categoria: VMware

Instructor

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
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- -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 Al 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)