VMware Cloud Foundation: Deploy, Configure, Manage [V5.2]

Category: Infrastructure & IT Operations | **Vendor:** VMware

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This five-day course provides you with the knowledge, skills, and abilities to achieve competence in deploying, managing, and operating VMware® Cloud Foundation™. You will learn about the architecture of VMware Cloud Foundation, storage and network management, licensing, and certificates. In addition to workload domains, availability, life cycle management, and troubleshooting, the course also covers VMware® Aria Suite™ integration and VMware® Private AI Foundation with NVIDIA architecture and components.

This course has been retired and replaced by the course VMware Cloud Foundation: Build, Manage, and Secure (VCFBMS).

About This Course

- Course Introduction
- VMware Cloud Foundation Overview
- Day Zero Tasks
- Post-Deployment Operations
- VMware Cloud Foundation Networking with NSX
- Managing Workload Domains
- VMware Cloud Foundation Storage Management
- Availability and Business Continuity
- VMware Cloud Foundation Certificate Management
- VMware Cloud Foundation Life Cycle Management
- VMware Aria Suite on VMware Cloud Foundation
- VMware Private AI Foundation with NVIDIA
- VMware Cloud Foundation Troubleshooting

Who Should Attend

System architects and system administrators.

Prerequisites & Entry Requirements

General Prerequisites:

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

Learning Outcomes

Upon successful completion of this course, participants will be able to:

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

Detailed Course Outline

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

Skills You Will Learn:

By the end of the course, you should be able to meet the following objectives:

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Frequently Asked Questions

Q: What delivery options are available for VMware Cloud Foundation: Deploy, Configure, Manage [V5.2]?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 5-day VMware Cloud Foundation: Deploy, Configure, Manage [V5.2] course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the VMware Cloud Foundation: Deploy, Configure, Manage [V5.2] training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for VMware Cloud Foundation: Deploy, Configure, Manage [V5.2]?

Yes, we provide corporate training, dedicated training, and closed classes for VMware Cloud Foundation: Deploy, Configure, Manage [V5.2]. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: VMware Cloud Foundation: Deploy, Configure, Manage [V5.2], VMware VCF and VMware Cloud Director, VCFPMO52

Q: Why choose Nexus Human for VMware Cloud Foundation: Deploy, Configure, Manage [V5.2]?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your VMware Cloud Foundation: Deploy, Configure, Manage [V5.2] training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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