

VMware Cloud Foundation: Build, Manage, and Secure V9.x

Dieser fünftägige Kurs vermittelt Ihnen das Wissen, die Fähigkeiten und Fertigkeiten, die Sie benötigen, um private Clouds mit VMware Cloud Foundation® (VCF) kompetent bereitzustellen, zu verwalten, zu betreiben und zu sichern. Sie lernen die Architektur von VCF, Speicher- und Netzwerkmanagement, Lizenzierung und Zertifikate kennen. Neben Workload-Domänen, Verfügbarkeit und Lifecycle-Management behandelt der Kurs auch Upgrade-Szenarien.

Kursinhalt

- VCF Private Cloud: Overview and Architecture
- VCF Private Cloud Deployment
- VCF Post-deployment Tasks
- VCF Fleet Management
- VCF Workload Domain
- VCF Networking
- VCF Storage Management
- Define the key components involved in Fibre Channel storage systems
- VCF Certificate Management
- VCF Life Cycle Management
- VCF Security
- VCF Upgrade Paths

E-Book Sie erhalten englischsprachige Unterlagen von VMware als E-Book.

Zielgruppe

System Administratoren, Solution Engineers, Consultants, Architekten und Support Personal.

Voraussetzungen

- Implementierung des Learning Path Stage-1-Trainings
- Praxiserfahrung und Kenntnisse in VMware vSphere®, VMware NSX® und vSAN-Umgebungen

Folgende Kurse eignen sich, um die erforderlichen Kenntnisse zu erwerben:

- VMware vSphere: Install, Configure, Manage
- VMware vSphere: Operate, Scale and Secure
- VMware vSphere: Fast Track
- VMware vSAN: Install, Configure, Manage
- VMware NSX: Install, Configure, Manage

Kursziel

Der Kurs vermittelt Grundlagen, Architektur und Bereitstellung von VMware Cloud Foundation (VCF), einschließlich Netzwerke, Speicher, Sicherheit und Identitätsmanagement. Teilnehmer lernen, VCF-Komponenten zu konfigurieren, Workload-Domänen zu erstellen, Upgrades durchzuführen und zentrale Betriebs- und Verwaltungsfunktionen zu nutzen.

Dieser Kurs im Web



Alle tagesaktuellen Informationen und Möglichkeiten zur Bestellung finden Sie unter dem folgenden Link: www.expertech.ch/go/VCBM

Vormerkung

Sie können auf unserer Website einen Platz kostenlos und unverbindlich für 7 Tage reservieren. Dies geht auch telefonisch unter 06074 4868-0.

Garantierte Kurstermine

Für Ihre Planungssicherheit bieten wir stets eine große Auswahl garantierter Kurstermine an.

Ihr Kurs maßgeschneidert

Diesen Kurs können wir für Ihr Projekt exakt an Ihre Anforderungen anpassen.

Training		Preise zzgl. MwSt.
Termine in Deutschland		5 Tage CHF 3.735,-
Online Training		5 Tage CHF 3.735,-
Termin/Kursort	Kursprache Deutsch 	
15.12.-19.12.25  Frankfurt	13.04.-17.04.26  Frankfurt	
15.12.-19.12.25  Online	13.04.-17.04.26  Online	

Stand 31.10.2025



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1. Course Introduction

Introduction and course logistics
Course objectives

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

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

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

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

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

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

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

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

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

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

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 component

