

VCFBMS91 - VMware Cloud Foundation: Build, Manage and Secure [V9.1]



Days: 5

Prerequisites: Students should complete the VCF Implement Learning Path Stage 1 training or have equivalent knowledge of VCF compute, storage, and networking fundamentals. Working experience with VMware vSphere, VMware NSX, and vSAN environments is recommended.

Audience: System administrators, solution engineers, consultants, architects, and support personnel responsible for deploying, managing, securing, or upgrading VMware Cloud Foundation private clouds.

Description: This five-day instructor-led course provides the knowledge and skills to build, manage, and secure a VMware Cloud Foundation (VCF) 9.1 private cloud. Students work with VCF architecture, end-to-end fleet deployment, post-deployment configuration, identity and access, workload domains, NSX networking, vSAN storage, certificates, lifecycle management, security posture, backup and recovery, and supported upgrade paths.

Course Objectives: Upon completion of this course, students will:

- Describe VCF architecture and private-cloud components at the fleet and instance levels.
- Deploy and configure a VCF private cloud using VCF Installer.
- Manage fleet operations, identity, access, workload domains, networking, and storage.
- Patch and upgrade VCF components and implement backup and restore procedures.
- Manage certificates and integrated security capabilities.
- Assess security posture and plan supported transitions to VCF 9.1.

OUTLINE:

MODULE 1: VCF OVERVIEW AND ARCHITECTURE

- Components, use cases, and licensing
- Fleet-level and instance-level architecture
- Roles and advanced services

MODULE 2: VCF PRIVATE CLOUD DEPLOYMENT

- Planning and preparation
- Core component configuration
- VCF Installer wizard and JSON deployment specifications

MODULE 3: POST-DEPLOYMENT TASKS

- VCF Operations for Networks and Logs
- VCF Identity Broker and Real-Time Metrics
- Operations component deployment and navigation

MODULE 4: FLEET MANAGEMENT

- Capacity pooling and licensing
- Single Sign-On and identity federation
- Role-based access, users, groups, and credentials

MODULE 5: WORKLOAD DOMAINS

- Design considerations and prerequisites
- Create and manage workload domains
- Linked groups, hosts, clusters, and vCenter imports

MODULE 6: VCF NETWORKING

- NSX architecture and overlay networking
- Virtual Private Clouds and subnets

- Distributed and centralized transit gateways

MODULE 7: STORAGE MANAGEMENT

- Principal and supplemental storage
- vSAN networking, policies, and fault domains
- Performance monitoring and reporting

MODULE 8: CERTIFICATE MANAGEMENT

- PKI concepts and certificate authorities
- SDDC Manager certificate workflows
- Microsoft CA, OpenSSL CA, and third-party certificates

MODULE 9: LIFECYCLE MANAGEMENT

- Software depot and bundle management
- Patch and upgrade workflows
- Fleet backup and restore

MODULE 10: VCF SECURITY

- Security, compliance, and resilience
- Security Posture Management
- Security Operations Dashboard and Audit Trail
- Protection and Recovery workflows

MODULE 11: UPGRADE PATHS TO VCF 9.1

- Compatibility and prerequisites
- Upgrade paths from vSphere 8.0
- Upgrade paths from VCF 5.2
- vCenter import considerations