Whats New in VMware Cloud Foundation v9.1 Training

Duration: **5 Day**

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Overview

What Can You Achieve with This Training?

- Understand the latest capabilities introduced in **VMware Cloud Foundation (VCF) v9.1** and evaluate how they can support existing Private Cloud environments.
- Explore improvements across **vSphere, vCenter, ESX, vSAN, and VMware NSX** to enhance compute, storage, and networking management.
- Strengthen deployment and upgrade planning through new**VCF Installer, fleet management, and lifecycle management** capabilities.
- Discover **VCF Automation enhancements** for organization management, networking, blueprints, and Kubernetes workloads.
- Learn about the latest **VCF Operations** capabilities for performance monitoring, capacity management, log analysis, and troubleshooting.

The **What's New in VMware Cloud Foundation v9.1 Training** is a **five-day technical course** providing an in-depth examination of the new features, architectural changes, and improvements introduced in **VMware Cloud Foundation v9.1**.

The course is designed for professionals working with VMware Cloud Foundation who want to understand the latest platform capabilities and evaluate their use in new or existing infrastructure environments.

Participants explore updates across **infrastructure preparation, deployment, compute, storage, networking, automation, and operations**. The programme develops the knowledge required to assess architectural choices and implement VCF v9.1 environments.

Infrastructure-focused modules cover **VCF Installer enhancements, vSphere and vCenter improvements, vSAN ESA Auto-RAID, stretched cluster updates, and transit gateway capabilities**. The course also examines fleet management, identity and access improvements, and available upgrade pathways.

The automation and operations modules address developments in **VCF Automation, VMware vSphere Kubernetes Service (VKS), and VCF Operations**. Key topics include multi-supervisor regions, organization quotas, modern workload management, monitoring, diagnostics, and operational visibility.

Combining **instructor-led explanations with hands-on lab exercises**, the course helps participants understand how VCF v9.1 enhancements can be applied to infrastructure architecture and implementation.

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Prerequisites

Participants should have practical experience and working knowledge of:

- **VMware Cloud Foundation (VCF)**
- **VMware vSphere**
- **VMware NSX**
- **VMware vSAN**

Who Should Attend

This course is intended for:

- **System Administrators**
- **Solution Engineers**
- **Technical Consultants**
- **Infrastructure and Solution Architects**
- **Technical Support Personnel**

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What You Will Learn

By the end of this course, participants will be able to:

- Identify the main features and enhancements introduced in **VMware Cloud Foundation v9.1**.
- Evaluate **VCF architecture and implementation approaches** and compare important deployment strategies.
- Explain new deployment, networking, and management capabilities available through the**VCF Installer**.
- Assess **vSphere Compute enhancements**, including **memory tiering, CPU optimisation, and vCenter user interface improvements**.
- Describe new storage capabilities such as **vSAN ESA Auto-RAID, stretched cluster enhancements, and disaggregated storage**.
- Explain **VPC consumption through vCenter** and improvements to **distributed and centralized transit gateways**.
- Understand enhancements to **workload domain deployment, VCF management services, and lifecycle management**.
- Evaluate supported **VCF 9.1 upgrade pathways** and plan transition approaches for vSphere, VVF, and existing VCF environments.
- Describe improvements to **VCF Automation**, including organization management, regional quotas, networking, and blueprints.
- Review **vSphere Kubernetes Service (VKS)** enhancements covering multi-network configuration, node customisation, and Supervisor architecture.
- Identify new **VCF Operations** features for real-time monitoring, log management, health assessment, and troubleshooting.
- Explain improvements in **capacity, cost, and pricing management**, along with automated VKS cluster monitoring.

Outline

1. Course Introduction

- Introducing the course structure and logistical information
- Reviewing the learning objectives and the main topics covered in**VCF v9.1**

2. VCF Installer Enhancements

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- Explaining the main **VMware Cloud Foundation components** and their functions
- Reviewing **VCF deployment and import** processes
- Exploring **custom networking and dual-stack network** configurations
- Identifying management services and required **credentials**

3. VCF Operations Navigation and Licensing

- Identifying the main features of **VCF Operations**
- Navigating the **VCF 9.1 management console**
- Comparing **VCF 9.0 and VCF 9.1 licensing** approaches
- Evaluating **connected and air-gapped** deployment options

4. VCF Compute

- Exploring significant **vCenter enhancements**
- Identifying new capabilities introduced for **ESX**
- Explaining improvements in **vSphere resource management**
- Reviewing **vSphere networking enhancements**
- Examining updates to **virtual machine** capabilities
- Understanding improvements in **vSphere certificate management**
- Identifying the latest **API enhancements**

5. VCF Storage

- Exploring the capabilities of **vSAN ESA Auto-RAID**
- Understanding updates to **vSAN stretched clusters**
- Reviewing **disaggregated vSAN storage** features
- Examining **vSAN protection and recovery** capabilities
- Explaining improvements related to **iSCSI and NFS**

6. VCF Networking

- Understanding **Virtual Private Cloud (VPC) consumption through vCenter**
- Examining enhancements to **distributed transit gateways**
- Exploring **centralized transit gateway connectivity**

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- Evaluating **VPN connectivity** for centralized transit gateways

7. VCF Fleet and Lifecycle Enhancements

- Reviewing the steps required for **workload domain deployment**
- Understanding improvements in **out-of-band validation**
- Identifying the main **VCF Management Service** components
- Explaining **high-availability mechanisms** for management services
- Examining **identity and access management enhancements**
- Viewing **cluster-level configuration drift** information

8. VCF Upgrade Pathways

- Reviewing supported **upgrade pathways to VCF 9.1**
- Planning upgrades from **vSphere to VCF**
- Examining upgrades for existing **VCF platform environments**
- Understanding upgrade approaches from **VMware vSphere Foundation (VVF) to VCF**

9. VCF Automation

- Examining **VCF Automation scalability enhancements**
- Reviewing improvements to **organization management**
- Configuring **multi-supervisor region quota** settings
- Explaining updates to **networking and blueprint** capabilities
- Managing **container and VKS services**
- Outlining the **Cloud Director migration** process

10. VMware vSphere Kubernetes Service

- Understanding the enhanced **vSphere Supervisor architecture** with **multi-cluster zones**
- Exploring improvements to **VM Service**
- Reviewing the steps for adding multiple networks to a**VKS cluster**
- Customizing **VKS cluster nodes** with **AppArmor and TuneD profiles**
- Explaining how to create **RHEL-9 Vkr images** using **VCF CLI**

11. VCF Operations

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- Examining enhancements to the **VCF Operations Installer**
- Reviewing **user interface (UI)** improvements
- Understanding **day-two operations** and ongoing platform administration
- Exploring updates to **VCF Health and Findings**
- Reviewing **real-time metrics** and **Troubleshooting Workbench** improvements
- Understanding the **log management architecture**
- Examining enhancements in **capacity, cost, and pricing** capabilities
- Explaining **automated VKS cluster monitoring**