

Vmware Cloud Foundation: Solution Architecture and Design

Duration: 5 Days Course Code: VMCFSA9 Version: 9.0 Delivery Method: Company Event

Overview:

This five day course explores the architecture and design considerations for an initial deployment of VMware Cloud Foundation (VCF). The course explains the architecture framework and language, as well as design considerations for building, operationalizing, and consuming a VMware Cloud Foundation deployment. The scope of the course is centered on the core design considerations applicable to a VMware Cloud Foundation deployment in a single site.

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

Target Audience:

Technical and Solution Architects and Consultants who design enterprise-grade private cloud environments.

Objectives:

- **After completing this course you should be able to:**
 - Describe and apply an appropriate design framework.
 - Apply a design process for gathering requirements, constraints, assumptions and risks.
 - Understand VMware VCF constructs such as site, fleet and instance.
 - Understand data center fabric needs to support VCF.
 - Understand VCF storage and network design options.
 - Design a single site single fleet deployment of VCF with recommended design options.
 - Design management and workload domains with appropriate compute and storage resources.
 - Design a consumption layer leveraging VCF Automation and Supervisor.
 - Understand the day-2 operating model, operations metrics, and reporting needs of VCF.
 - Understand future opportunities to extend the VCF platform with advanced services.

Prerequisites:

Attendees should meet the following prerequisites:

- VMNSXICM - VMware NSX: Install, Configure, Manage
- VMVSANICM - VMware vSAN: Install, Configure, Manage
- VSICM - VMware vSphere: Install, Configure, Manage

Testing and Certification

Recommended as preparation for the following exam:

- **2V0-13.25** - VMware Certified Professional - VMware Cloud Foundation Architect

Content:

1. Course Introduction	6. Storage and vSAN Essentials	11. Day 2 Operations with VCF
■ Introduction and course logistics ■ Course Objectives	■ VCF Storage Overview ■ Storage Design Considerations	■ Day 2 Operations Overview ■ VCF Operations Overview and Metric/Dashboard Design ■ VCF Operations Key Metrics for Compute, Storage and Networks ■ VCF Operations for Networks Overview and Design
2. Architecture Frameworks and Models	7. Management Domain	12. VCF Upgrade Considerations
■ Architecture Frameworks ■ Business Objectives ■ Design Models	■ Management Domain Design Overview ■ Management Domain Design Sizing Considerations ■ Management Domain Design Decisions ■ Storage Requirements for Management Workloads ■ Networking Requirements for Management Workloads ■ Platform-Based Protection Mechanisms	■ VCF Upgrade Overview ■ VCF Upgrade Key Considerations
3. VMware Cloud Foundation Overview	8. Workload Domains	13. VCF Advanced Services
■ VCF Design Blueprints and Use Cases ■ Upgrade Overview ■ License Management Overview	■ Workload Domain Design Overview ■ Cluster Design Overview ■ Storage Requirement for Workload Domains ■ Networking Requirements for Workload Domains ■ Security Design Considerations	■ Introduction to Private AI ■ Introduction to VMware Live Recovery ■ Introduction to Advanced Security
4. VCF Fleet and Instance Design	9. VCF AMPRS Considerations Summary	
■ Sites, Fleets and Instances ■ Management and Workload Domains ■ Designing Conceptual and Logical Designs ■ VCF Operations Platform Design	■ Designing for Availability ■ Designing for Manageability ■ Designing for Performance ■ Designing for Recoverability ■ Designing for Security	
5. Building the Physical Fabric and VCF Networking Design	10. VCF Consumption Design with VCF Automation and Supervisor	
■ Networking Fabric Design ■ VCF Networking Design	■ VCF Automation Overview ■ VCF Automation Tenancy Models ■ VCF Automation and Supervisor Components ■ VCF Automation and Supervisor Design Considerations	

Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

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