VMware Cloud Foundation: Advanced Solution Architecture and Design [V9.0]

Course Overview

This four day course explores the architecture and design considerations for a highly available, multi-site 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 complex VMware Cloud Foundation deployment. The scope of the course is centered on the core design considerations applicable to a VMware Cloud Foundation deployment across multiple sites and potentially multiple fleets.

Course Objectives

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

- Describe and apply an appropriate design blueprint.
- Understand VMware VCF constructs such as site, fleet and instance.
- Understand Multi-Fleet options and use cases.
- Understand VCF Storage and Network design options in context of Multi-Site / Region Architectures.
- Understand Disaster Recovery options for VCF.
- Understand Enhanced High Availability (stretched cluster).
- Design a Multi-Site deployment of VCF with recommended design options.
- Design Highly Available Management and Workload Domains with appropriate compute and storage resources.
- Design Stretched Clusters.
- Design an appropriate Disaster Recovery solution.
- Design an Edge Computing solution with appropriate capabilities.

Target Audience

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

Recommended Prerequisites

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Course Delivery

Classroom & Live Online (4 days)

Digital (On Demand)

Course Modules

1. Course Introduction
    - Introduction and course logistics
    - Course Objectives
2. VCF Design Blueprints
    - VCF Architectural Options
    - Design Library
    - Design Blueprints
    - Planning and Preparation Workbook
3. Highly Available Management Domain
    - Core Components
    - VCF Operations Deployment Options
    - VCF Operations Networks Options
    - VCF Operations for Logs
    - VCF Operations for Networks
    - VCF Automation Deployment Options
    - VCF Operations Load Balancer Options
    - Best Practice Recommendations
    - Additional Instance Design
4. Workload Domains
    - Workload Domain Overview
    - vSphere Cluster Sizing
    - Storage Design Options
    - Distributed Switch Design
    - Supervisor Cluster Design
5. Stretched Cluster Design
    - Stretched Cluster Overview and Concepts
    - Witness Appliance Requirements
    - vSAN Network Requirements
    - Configuration Properties
    - Design Considerations
    - Management and Maintenance
    - Limitations
    - Fault Scenarios
6. Edge Computing
    - VCF Edge Use Cases
    - VCF Edge Patterns
    - Other Flexible Edge Patterns
7. Designing a Robust Disaster Recovery Architecture for VCF
    - The Critical Need for DR
    - VMware Live Recovery
    - Core Capabilities
    - Architectural Blueprint and Network Design
    - External Integrations
    - Summary and Best Practices
8. Multi-Fleet
    - Use Cases for Multi-Fleet

Contact

If you have questions or need help registering for this course, click here