

VMware Cloud Director : Advanced Workshop (V10.2)

Course Outline

1. Course Introduction

- Introductions and course logistics
- Course objectives

2. Advanced VMware Cloud Director Architecture

- Explain basic concepts and terminologies in a VMware Cloud Director environment
- Describe the basic architecture of a VMware Cloud Director environment
- Follow a proven process to design and deploy a cloud solution
- Gather and analyze business and application requirements
- Document design requirements, constraints, assumptions, and risks
- Use a systematic method to evaluate and document design decisions
- Explain differences between conceptual, logical, and physical designs
- Describe concepts of Provider SLAs
- Discuss advantages of standardized and flexible cloud platforms
- Explain how to use a building-block design approach with VMware products to architect a flexible but standardized cloud environment
- Impact on monetization of service definitions
- Discuss design and implications of a vSphere Design for the Cloud Platform
- Explain the use of Single vs. Stretched vs. Multi-Site deployments
- Design Cloud Director Federation and explain use cases for CPOM

3. NSX for vSphere Versus NSX-T Data Center and Migration

- Describe the NSX Management cluster architecture, components, and communication channels
- Identify workflows involved in configuring the NSX Management cluster
- Validate and troubleshoot the NSX Management cluster formation
- Explain basic concepts of NSX-V and NSX-T design with VMware Cloud Director
- Discuss use cases for Edge Services
- Discuss use cases for Distributed Network Services
- Discuss features available in NSX-V and NSX-T
- Explain integration of external networks (such as MPLS, DirectConnect)
- Explain integration of 3rd party network services (NON-VMware Edge Services, WAF)
- Discuss different migration scenarios
- Explain prerequisites for migration from NSX-V to NSX-T

4. NSX Advanced Load Balancer

- Explain basic concepts of NSX Advanced Load Balancer
- Explain integration of NSX Advanced Load Balancer with VMware Cloud Director
- Discuss use cases for NSX Advanced Load Balancer
- Explain the load-balancing service offered by an NSX-T edge gateway

5. VMware Cloud Director Availability

- Describe the architecture of VMware Cloud Director Availability
- Explain prerequisites of VMware Cloud Director Availability
- Discuss implementation of VMware Cloud Director Availability
- Discuss use cases for migration with VMware Cloud Director Availability
- Explain setup of data seeds for VMware Cloud Director Availability
- Discuss use cases for Disaster Recovery as a Service with VMware Cloud Director Availability
- Explain connectivity for VMware Cloud Director Availability to Cloud use cases
- Understand requirements for VMware Cloud Director Availability On-Prem to Cloud failover and fallback

6. vRealize Operations Manager and Tenant App

- Describe the architecture of vRealize Operations in a Service Provider
- Describe the architecture of vRealize Operations Tenant App
- Explain use cases for vRealize Operations Tenant App
- Explain use cases for vRealize Operations Manager in Service Provider environments
- Discuss vRealize Operations Manager Management Packs
- Explain advanced troubleshooting in service provider environments with vRealize Operations Manager
- Discuss architecture and integration of vRealize Operations Manager Tenant App
- Explain connectivity of the vRealize Operations Manager Tenant App
- Discuss user and role management of the vRealize Operations Manager Tenant App
- Describe billing policy definition in the vRealize Operations Manager Tenant App

7. VMware Cloud Director Orchestration

- Explain VMware Cloud Director orchestration
- Explain vRealize Orchestrator use cases
- Describe the architecture of vRealize Orchestrator in a Service Provider environment
- Explain use cases for VMware Cloud Director blocking tasks
- Explain use cases for XaaS Integration
- Design workflows and objects
- Discuss UI customization for Service Provider and Tenants
- Explain integration of custom elements in VMware Cloud Director
- Explain use cases for Extensibility SDK