VMware Cloud Director: Advanced Workshop [V10.2] (VCDAW102)

ID VCDAW102   **Price** 3,750.— €(excl. VAT)   **Duration** 5 days

Who should attend

Customers, cloud architects, systems engineers, data center administrators, and cloud administrators with experience in managed services or managing a service provider environment

Prerequisites

Completion of the following courses or equivalent knowledge is required:

- VMware NSX-T Data Center: Install, Configure, Manage [V3.2] (NSXTICM32)
- VMware vRealize Automation: Orchestration and Extensibility [V8.6] (VRAOE86)
- VMware Cloud Director: Install, Configure, Manage [V10.3] (VCDICM103)

Course Objectives

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

- Describe the advanced architecture of a VMware Cloud Director environment
- Design Cloud Director Federation
- Explain use cases for CPOM
- Explain basic concepts of NSX-V and NSX-T design with VMware Cloud Director
- Discuss the integration of VMware NSX Advanced Load Balancer with VMware Cloud Director
- Explain use of migration tools from NSX-V to NSX-T Data Center
- Discuss the use cases for NSX Advanced Load Balancer
- Describe the architecture of VMware VMware Cloud Director Availability
- Discuss the use cases for migration with VMware Cloud Director Availability
- Describe the architecture of vRealize Operations in a Service Provider Environment
- Explain the use cases for vRealize Operations Tenant App
- Explain VMware Cloud Director orchestration and extensibility

- Explain use cases for XaaS Integration
- Discuss UI customization for Service Provider and Tenants

Course Content

Course Introduction

- Introductions and course logistics
- Course objectives

Advanced VMware Cloud Director Architecture

- Explain the 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 the differences between conceptual, logical, and physical designs
- Describe the concepts of Provider SLAs
- Discuss the advantages of standardized and flexible cloud platforms
- Explain how you can use a building-block design approach with VMware products to architect a flexible but standardized cloud environment
- Impact on Monetization of service definitions
- Discuss the 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
- Explain use cases for CPOM

NSX for vSphere Versus NSX-T Data Center and Migration

- Describe the NSX Management cluster architecture, components, and communication channels
- Identify the 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 the use cases for Edge Services
- Discuss the use cases for Distributed Network Services
- Discuss the features available in NSX-V and NSX-T
- Explain the integration of external networks (such as MPLS, DirectConnect)
- Explain the integration of 3rd party network services (NON-VMware Edge Services, WAF)
- Discuss different migration scenarios
- Explain pre-requisites for migration from NSX-V to NSX-T

NSX Advanced Load Balancer

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

VMware Cloud Director Availability

- Describe the architecture of VMware Cloud Director Availability
- Explain the prerequisites of VMware Cloud Director Availability
- Discuss the implementation of VMware Cloud Director Availability
- Discuss the use cases for migration with VMware Cloud Director Availability
- Explain setup of data seeds for VMware Cloud Director Availability
- Discuss the use cases for Disaster Recover 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 OnPrem to Cloud failover and failback

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 the 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

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, objects
- Discuss UI customization for Service Provider and Tenants
- Explain integration of custom elements in VMware Cloud Director
- Explain use cases for Extensibility SDK

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Training Centres worldwide

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