

## VMware Cloud Director: Deploy, Configure, Manage

Duration: 5 Days    Course Code: VMCI10M    Version: 10.5    Delivery Method: Virtual Learning

### Overview:

In this five-day course, you focus on installing, configuring, and managing on-premises VMware Cloud Director 10.5.1. You will learn how to set up and manage VMware Cloud Director, including the provisioning of workloads, creating organizations and Virtual Data Centers (VDCs), and use catalog services that include predefined virtual machines. You will learn about different networks that a system administrator and an organization administrator can configure and use with virtual machines and vApps.

#### Product Alignment

- VMware Cloud Director 10.5.1
- VMware vSphere® 8.0U2
- VMware NSX 4.1.2
- VMware NSX Advanced Load Balancer 22.1.5

#### Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

### Target Audience:

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

### Objectives:

- By the end of the course, you should be able to meet the following objectives:
- Describe the architecture and main components of VMware Cloud Director
- Explain the features and benefits of VMware Cloud Director
- Deploy high availability VMware Cloud Director cluster
- Create VMware Cloud Director provider virtual data centers and organizations
- Configure and create vApps and VMs
- Create users and role-based access control
- Create and manage VMware Cloud Director catalogs
- Create and manage VMware Cloud Director networks
- Create VM sizing and placement policies
- Discuss additional features of VMware Cloud Director

### Prerequisites:

- VMNSX10M - VMware NSX: Install, Configure, Manage
- VS10M - VMware vSphere: Install, Configure, Manage

## Content:

### 1 Course Introduction

- Introductions and course logistics
- Course objectives

### 2 VMware Cloud Director Deployment and Configuration

- Describe VMware Cloud Director features and functions
- Describe the VMware Cloud Director architecture
- List the prerequisites for deploying VMware Cloud Director
- Recognize the design considerations when creating a cloud environment
- Describe various VMware Cloud Director deployment methods and options
- Explain the two-stage deployment of VMware Cloud Director cells
- Backup and restore a VMware Cloud Director appliance
- Describe the appliance failover methods
- Describe failover, switchover, and promote in the VMware Cloud Director appliance
- Monitor the VMware Cloud Director appliance services and cluster status

### 3 VMware Cloud Director Provider Configuration

- Describe the provider portal
- Define a provider VDC, an organization, and organization VDCs
- Configure VMware Cloud Director objects from the VMware Cloud Director provider portal as a system administrator
- Describe provider VDCs and their role in resource allocation
- Explain the configuration of resource pools and storage containers in a provider VDC
- Configure organizations and access the tenant portal
- Identify allocation models for organization VDCs
- Recognize the advantages and disadvantages of allocation models
- Describe how organization VDCs work

### 4 VMware Cloud Director User, Roles, and Quota Management

- Configure LDAP integration with Active Directory
- Enable a SAML and an OIDC identity provider
- Identify the various types of users in VMware Cloud Director
- Create and import users from the provider portal and the tenant portal
- Describe the options for managing users and groups
- Describe how role-based access control works in VMware Cloud Director
- Explain provider roles
- Recognize the function of the rights bundles
- Explain global roles and their usage in VMware Cloud Director
- Create custom tenant roles
- Explain Quota Management and its use cases
- Configure VMware Cloud Director as an OpenID Provider Proxy Server

### 5 VMware Cloud Director Virtual Machines and vApps

- Explain standalone VMs and VMs in a vApp
- Describe VM actions
- List the properties of a VM
- Create and manage VMs
- Explain vApp deployment methods
- Explain vApp actions and functions
- Describe VM encryption and how VMs and disks are encrypted
- Describe named disks and shared named disks
- Describe storage IOPS management in VMware Cloud Director
- Create and manage vCenter Server managed IOPS
- Create and manage VMware Cloud Director managed IOPS
- Describe Auto Scale Groups and their advantages
- Explain VM placement, VM sizing, and vGPU policies
- Describe NVIDIA vGPU and NVIDIA AI Enterprise
- Explain the NVIDIA GRID vGPU requirements
- Implement vGPU in VMware Cloud Director

### 6 Managing Catalogs and Templates

- Describe Content Hub and their advantages
- Create and manage VMware Marketplace Resource

### 7 VMware Cloud Director Networking

- Discuss the integration of VMware Cloud Director with VMware NSX
- Describe VMware Cloud Director networks
- Perform provider networking tasks
- Discuss organization VDC networks
- List the types of organization VDC networks
- Discuss vApp networks
- List the various types of vApp networks
- Describe the segment profile template

### 8 Edge Gateway Services and Additional Networking Features

- Identify the services offered by an edge gateway
- Configure DHCP, NAT, and firewall services on the edge gateway
- Explain distributed firewall services on an edge gateway
- Describe DNS, routing, and DHCP services on an edge gateway
- Configure and verify NAT services on the edge gateway
- Discuss VMware Cloud Director integration with VMware NSX Advanced Load Balancer
- Describe NSX Advanced Load Balancer components.
- Discuss the Data Center Group Networking in VMware Cloud Director
- Discuss VMware Cloud Director integration with VMware NSX Federation

### 9 Additional Features of VMware Cloud Director

- Explain the purpose and features of advisories.
- Describe the Guided Tour feature and its use cases
- Configure VMware Cloud Director branding
- Explain the Solution Add-Ons feature in VMware Cloud Director
- Briefly discuss VMware Cloud Director integration with the following solutions:
  - VMware Cloud Director Availability
  - VMware Cloud Director App Launchpad
  - VMware Cloud Director Container Service Extension
  - VMware Cloud Director Object Storage Extension
  - VMware vCloud Usage Meter
  - VMware Aria Operations for Logs
  - VMware Aria Operations
  - VMware Chargeback
  - VMware Aria Automation
  - VMware Cloud Director Extension for Data Solutions
  - VMware Cloud Provider Lifecycle Manager
  - VMware Workspace ONE

- Create and manage External Helm Chart Repository Resource
  - Explain the purpose and use of catalogs
  - Create and manage catalogs
  - Describe, how catalogs are shared between and within organizations
  - Describe vApp templates and their advantages
  - Create and manage the vApp template
  - Create and manage the organization VDC template
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### Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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