vmware® LEARNING

VMware Cloud Director: Install, Configure, Manage

Course Overview

In this five-day course, you focus on installing, configuring, and managing VMware Cloud Director® 10.3. You learn about workload provisioning, the creation of organizations, virtual data centers (VDCs), catalog services that include predefined virtual machines, and on-demand VMware NSX-T™ Data Center networks.

This course also covers interfacing VMware Cloud Director with other systems and the integration and use of VMware vRealize® Orchestrator™ for VMware Cloud Director. You learn about different networks that a system administrator and an organization administrator can configure and use with virtual machines (VMs). This course also discusses how to monitor various VMware Cloud Director objects using VMware vRealize® Operations™.

Course Objectives

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

- Deploy VMware Cloud Director
- Manage VMware Cloud Director to meet the service provider needs
- Create and manage VMware Cloud Director organizations and vApps to fulfill business needs
- Create and manage VMware Cloud Director catalogs
- Transfer virtual machine workloads from VMware vSphere® into and out of VMware Cloud Director
- Configure networking for organizations and vApps with the help of VMware NSX-T™ Data Center
- Managing resources from the VMWare Cloud Director console and using VMware vRealize® Operations Manager™
- Enabling VM and Named Disk Encryption
- Creating VM sizing and placement policies
- Understand vApps and VM operations and actions

Target Audience

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

Prerequisites

Completion of the following courses and equivalent knowledge is required:

- [VMware vSphere: Install, Configure, Manage](#) or equivalent knowledge

The following experience is helpful:

- Working at the Linux command line
- Substantial knowledge of general networking concepts

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Course Delivery Options

- Classroom
- Live Online
- Private Training
- On Demand

Product Alignment

- VMware vSphere 7.0 U2
- VMware Cloud Director 10.3
- VMware NSX-T Data Center 3.1.1
- VMware vRealize Operations Manager 8.3

Course Modules

1   **Course Introduction**
    - Introductions and course logistics
    - Course objectives

2   **Software-Defined Data Center and VMware Validated Design**
    - Define software-defined data center (SDDC)
    - Discuss VMware offerings for cloud-based services
    - Discuss the deployment options for VMware Cloud Director
    - Discuss VMware Validated Design™
    - Recognize the design considerations when creating a cloud environment on the SDDC using VMWare Cloud Foundation™

3   **VMware Cloud Director Deployment and Configuration**
    - Discuss the deployment options for VMware Cloud Director
    - Explain the two-stage deployment of VMware Cloud Director cells
    - Discuss failover mechanisms (automatic and manual) with VMware Cloud Director cells
    - Define switchover, promote, and fencing options of the VMware Cloud Director appliance
    - Understand the VMware Cloud Director appliance enhancements

4   **VMware Cloud Director Provider Configuration**
    - Describe how the compute resources are provided to VMware Cloud Director
    - Describe how storage is provided to VMware Cloud Director
    - Configure and manage storage for Virtual Datacenters (VDCs)
    - Briefly discuss network pools, external networks, and Tier-0 Gateways
    - Showcase VMware Cloud Director integration with vCenter Server® and NSX-T Data Center
    - Describe VMware Cloud Director organizations
    - Understand organization policies

- Explain how to access an organization using various portals
- Understand organization VDC
- Discuss what is Linked Clone and Fast Provisioning
- Understand the use cases of Allocation Models

5   **VMware Cloud Director User, Roles and Quota Management**
    - Discuss user-bundle
    - Describe role-based access
    - Explain custom roles and rights
    - Describe and configure LDAP integration with Active Directory
    - Discuss OIDC authentication methods
    - Describe SAML identity provider

6   **VMware Cloud Director Virtual Machines and vApps**
    - Understand standalone VMs
    - Discuss the VM managing operations
    - Explain VM properties
    - Discuss deployment methods of vApps
    - Discuss the vApp managing operations
    - Discuss the vApp lease policies
    - Understand the vApps and VM actions
    - Explain vApp and VM badges

7   **VMware Cloud Director Content Libraries**
    - Explain the purpose of catalogs and how to create a catalog organization
    - Define catalog management and sharing catalogs inside and between organizations
    - Explain medias in VMware Cloud Director and its usage
    - Discuss vApp templates
    - Understand vApp template operations
    - Describe the purpose and usage of Open Virtualization Format (OVF)
    - Discuss organization VDC templates

8   **VMware Cloud Director Networking**
    - Discuss organization VDC networks
    - List the types of organization VDC networks
    - Describe the edge gateway services
    - Explore the services offered by the edge gateway

- Discuss sub-allocation IP pool and its use cases
- Discuss DHCP, NAT, load balancer, and firewall services on the edge gateway
- Discuss SNAT, DNAT, NO SNAT, and NO DNAT use cases
- Discuss vApp networks
- List the various types of vApp networks
- Discuss routed, isolated, and direct vApp networks

9 VMware Cloud Director Storage and Compute

- Describe named disks and shared named disks
- Demonstrate how to attach and detach a named disk and a shared named disk
- Describe methods of sharing the named disk
- Discuss the implications of deleting VMs that have an attached named disk
- Discuss how VMware Cloud Director VMs and disks are encrypted
- Explain the storage policy capabilities
- Demonstrate how VM sizing and placement policies are published
- Discuss vCenter server and VMware Cloud Director IOPS storage policies usage
- Discuss how to enable and use the storage IOPS limitation in VMware Cloud Director
- Describe the storage policy supported entities

10 Extensibility and UI Additional Features

- Explain custom advisories, global search, guided tours, data exporter, keyboard shortcuts, and quick search
- Understand vcd-cli supported commands
- Discuss various vcd-cli tools

11 VMware Cloud Director Resource Monitoring

- Identify log locations for VMware Cloud Director
- Manage vSphere and cloud resources from VMware Cloud Director
- Understand monitoring of objects from VMware Cloud Director portals
- Briefly introduce vRealize Operations Manager
- Integrate VMware Cloud Director with vRealize Operations Manager

- Configure VMware Cloud Director Management Pack
- Understand dashboard, metrics, alerts, alert definition, and reports

Contact

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