VMware Cloud Director: Install, Configure, Manage

Course Overview
In this five-day course, you focus on installing, configuring, and managing VMware Cloud Director™ 10.x. 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® networks.

This course also covers interfacing VMware Cloud Director with other systems and the integration and use of VMware Cloud Director Availability™. You also learn how to manage multisite, cross-VDC networking, and configuring Central Point of Management (CPOM) to define a Software-defined Data Center (SDDC) for a tenant and provider users of VMware Cloud Director. This course also discusses how to monitor various VMware Cloud Director objects using VMware vRealize® Operations™ and discusses administering tenant facing applications using vRealize® Operations Tenant App™.

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 and VMware NSX® Data Center for vSphere™
- Discuss customer onboarding scenario using VMware Cloud Availability for on premises-to-cloud workload migration
- Enable a layer 2 stretched network that spans across multiple VMware Cloud Director sites and organization VDCs within the same site
- Manage resources from the VMware Cloud Director console and use VMware vRealize® Operations Manager™
- Manage a dedicated VMware vCenter Server® and publish proxies to the tenant
- Onboard developer applications to the tenant using VMware Cloud Director® App Launchpad™
- Enable VM and Named Disk Encryption
- Create VM sizing and placement policies

Target Audience
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 course is required:
• [VMware vSphere: Install, Configure, Manage](#) or equivalent knowledge

Substantial knowledge of TCP/IP networking is helpful.

Course Delivery Options
• Classroom
• Live Online
• Onsite

Product Alignment
• VMware vSphere 6.7 U3
• VMware vRealize Orchestrator 7.6
• VMware NSX Data Center for vSphere 6.4.6
• VMware NSX-T Data Center 2.5.1
• VMware vRealize® Operations Manager™ 8.1
• VMware vRealize Operations Manager Tenant App 2.4
• VMware vCloud® Availability 4.0
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
   • Discuss VMware offerings for Cloud-Based Services
   • Understand the main components of the Software-Defined Data Center
   • Discuss the deployment options for vCloud Director
   • Discuss VMware Validated Design™
   • Recognize the design considerations when creating a cloud environment on the SDDC

3 Deploying and Configuring VMware Cloud Director
   • Discuss the deployment options for VMware Cloud Director
   • Explain different deployment options of VMware Cloud Director.
   • Define automatic failover, switchover, and fencing in the VMware Cloud Director appliance
   • Describe the API-only supported features of the VMware Cloud Director appliance
   • Familiarize with the multiple API endpoints of the VMware Cloud Director appliance

4 VMware Cloud Director Provider and Tenant
   • 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)
   • Discuss the use of External Networks
   • Describe VMware Cloud Director organizations
   • Describe the purpose of VMware Cloud Director organizations
   • Configure organizations
   • Enumerate organization policies
   • Allocate resources to an organization
   • Discuss Cloud Director organizations

5 User Access Control
   • Create Cloud Director organizations
   • Understand organization policies
   • How to access an organization using various portals
   • Understand organization VDC
   • Discuss what is linked clone and fast provisioning
   • Explore cross datastore provisioning

6 Working with Virtual Machines
   • Describe the purpose of VMware Cloud Director
   • Create a standalone VM
   • Perform VM operations
   • Manage VM properties
   • Discuss the use of App Launchpad
   • Onboard applications using App Launchpad

7 Working with vApps
   • Create and manage vApps
   • Deploy a vApp using various methods
   • Build a vApp using best practices
   • Discuss the vApp lease policies
   • Discuss the implications of deleting a VM that has a named disk attached to it
   • Describe VM encryption
   • Discuss how VMware Cloud Director VMs and disks are encrypted
   • Demonstrate how to use VM sizing and placement policies

8 Managing Catalogs and Templates
   • Explain the purpose of catalogs and how to create a catalog organization.
   • Manage catalogs
   • Share catalogs

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VMware Cloud Director Networking
- Discuss Container Service Extension
- Discuss organization VDC networks
- List the types of organization VDC networks
- Describe the edge gateway services
- Explain NSX Datacenter for vSphere architecture
- Discuss NSX-T Datacenter architecture
- List the enhanced VMware NSX-T Data Center supported features of VMware Cloud Director
- Explore the services offered by the edge services gateway
- Recognize the sub-allocation IP pool and its use cases
- Discuss DHCP, NAT, and high availability services on the edge services gateway
- Recognize SNAT and DNAT use cases
- Explain load balancing, routing, and distributed firewall services
- Create and manage vApp networks
- List the various types of vApp networks
- Discuss vApp fencing
- Discuss routed, isolated, and direct vApp networks

Advanced Networking
- Describe the multisite feature in Cloud Director
- Associate Cloud Director sites
- Associate organizations
- Access multiple sites from a single user interface
- Configure cross-VDC networking and L2 stretched networks
- Configure data center groups
- Explain the main usage and purpose of the NSX Migration of Cloud Director tool
- Explain the environmental prerequisites and how to prepare the edge cluster for bridging

Additional Features
- Discuss multisite deployments
- Configure cross VDC networking
- Define SDDC
- Familiarize with SDDC and SDDC proxy
- Discuss enhanced CPOM through the tenant portal
- Discuss architecture for vCloud Availability for vCloud Director
- Discuss vCloud Availability for vCloud Director portal
- Review fail-over Virtual Machine options
- Discuss on premises-to-cloud migration
- Discuss enhanced CPOM through the tenant portal
- Integrate vRealize Orchestrator with Cloud Director
- Execute Cloud Director workflows using vRealize Orchestrator
- Integrate vCloud Availability with Cloud Director
- Understand Container Service Extension

Resource Monitoring and Feature Preview
- Identify log locations for vCloud Director
- Manage vSphere resources from vCloud Director
- Manage cloud resources from vCloud Director
- Understand monitoring of objects from VMware Cloud Director HTML5 Portal
- Briefly introduce vRealize Operations Manager
- Integrate VMware Cloud Director with vRealize Operations Manager
- Configure Cloud Director Management Pack
- Understand dashboard, metrics, alerts, alert definition, and reports
- Introduce VMware vRealize Operations Tenant App
- Integrate VMware Cloud Director with Tenant App
- Configure Tenant App with VMware Cloud Director
- Monitoring and billing objects with Tenant App
- List the upcoming features

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