

VMware Cloud Director: Install, Configure, Manage

Course Overview

In this five-day course, you focus on installing, configuring, and managing VMware vCloud Director® for Service Providers 9.x. You learn about self-service 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 vCloud Director® with other systems using various APIs and the integration and use of VMware vCloud® Availability for vCloud Director®. You will also understand how to manage multisite, cross-VDC networking for vCloud Director and configuring Central Point of Management (CPOM) to define a Software-defined Datacenter (SDDC) for tenant and provider users of vCloud Director. This course also discusses how to monitor various vCloud Director objects using VMware vRealize® Operations™, Tenant vApp, and VMware vRealize® Log Insight™.

Course Objectives

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

- Deploy vCloud Director
- Manage vCloud Director to satisfy service provider needs
- Create and manage vCloud Director organizations and vApps to satisfy business needs
- Create and manage vCloud Director catalogs
- Transfer virtual machine workloads from VMware vSphere® into and out of vCloud Director
- Configure networking for organizations and vApps with the help of NSX
- Use NSX to create hybrid cloud connectivity between public clouds and private clouds
- Discuss various customer onboarding scenarios involving vCloud Director
- Configure the integration with VMware vCloud® Availability for vCloud Director®
- Use VMware vCloud® Availability for hybrid cloud setup and onboarding

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

- vCloud Director 9.x
- vCloud Availability for vCloud Director 3.0
- vSphere 6.x and later
- NSX 6.x and later

BETA

Course Modules

- 1 **Course Introduction**
 - Introductions and course logistics
 - Course objectives
- 2 **vCloud Director Deployment and Configuration**
 - Define Software Defined Datacenter
 - Discuss VMware offerings for Cloud-Based Services
 - Understand the prerequisite to install vCloud Director
 - Discuss the deployment options for vCloud Director
 - Differentiate different deployment options, benefits, and disadvantages
 - Discuss VMware Validated Design
- 3 **vCloud Director Provider and Organization**
 - Configure and manage provider VDCs
 - Identify storage, compute, and network resources for vCloud Director
 - Create and manage organizations, including vCloud Director organization VDCs
 - Discuss vCloud Director HTML5 UI
 - Discuss HTML5-based Provider Portal and Tenant Portal
- 4 **vCloud Director Organization VDC**
 - Organization VDC allocation models
 - Recognize resource allocations for an organization
 - Describe the network types available in vCloud Director (external, organization, and vApp)
 - Discuss the organization and vApp network traffic choices
 - Examine the function of network pools
 - Discuss Compute Profiles
- 5 **vApps and Catalogs**
 - Discuss the use of virtual machines
 - Design and manage vApps
 - Create and manage catalogs
 - Manage vApp templates
 - Create and Manage vApp Networks
 - Discuss vApp Network Traffic Choices
- 6 **Users and Role-based Access**
 - Describe role-based access
 - Create custom security roles
 - Describe and configure LDAP integration with Active Directory
 - Describe single sign-on
 - Enable a SAML identity provider
 - Describe two-factor authentication
 - Discuss User bundle and role-based access control
- 7 **vCloud Director Networking**
 - Describe the use and placement of NSX edge services gateways in relation to vCloud Director
 - Review routing with the distributed logical router and edge services gateway in combination with vCloud Director
 - Discuss edge services like NAT, DHCP, load balancer, and firewall
 - Discuss the architecture of VMware NSX-T™
 - Discuss vCloud Director supported features of NSX-T
 - Discuss Multisite
 - Configure Cross VDC Networking.
- 8 **Resource Management and Monitoring**
 - Manage provider and organization VDCs
 - Manage VMware vCenter Server® instances and VMware ESXi™ hosts
 - Manage vSphere datastores
 - Configure and manage resource pools at the vSphere level
 - Monitor usage information at provider and organization VDCs
 - Analyze vCloud Director logs
 - Monitor vCloud Director environments with vRealize Operations Manager and vRealize Log Insight
 - Managing billing and reports of vCloud Director objects using Tenant vApp
- 9 **vCloud Extensibility**
 - Discuss Container Service Extension
 - Explore vCD CLI



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- Discuss Python SDK for vApp Deployment
- Discuss Terraform vCloud Director capabilities
- Discuss VMware vRealize® Orchestrator™ Plug-in for vCloud Director

10 vCloud Director APIs

- Describe access to vCD objects using REST API calls
- Describe tools to access the API of vCloud Director objects
- Discuss different third-party API client tools
- Describe access to vCloud Director using Postman, Curl
- Describe access to vCloud Director using OpenAPI
- Create and update metadata on objects
- Access different vCloud Objects using vCloud API

11 Customer Onboarding and Hybrid Cloud

- Discuss architecture for vCloud Availability for vCloud Director
- Review prerequisites of vCloud Availability for vCloud Director
- Discuss implementation of vCloud Availability for vCloud Director
- Discuss vCloud Availability for vCloud Director portal
- Review fail-over Virtual Machine options
- Discuss Virtual Machine replication to the Cloud
- Discuss On-prem to Cloud migration

12 vCloud Director Troubleshooting

- Identify log locations for vCloud Director
- Navigate through vCloud Director logs
- Capture vCloud Director log bundles

Contact

If you have questions or need help registering for this course, click [here](#).



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