

VMware vCloud Director: Install, Configure, Manage

Course Overview

In this five-day course, you will focus on installing, configuring, and managing VMware vCloud Director® 9.x for service providers. You will learn about self-service provisioning, the creation of organizations, virtual data centers (VDCs), and catalog services that include predefined virtual machines, and on-demand VMware NSX® networks, as well as the integrated use of VMware vSAN™. This course also covers interfacing vCloud Director with other systems through the use of various APIs and the integration and use of VMware vCloud® Availability for vCloud Director® and VMware vCloud® Director Extender™.

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 vCloud Availability for vCloud Director
- Use vCloud Director Extender for hybrid cloud setup and onboarding

Target Audience

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

Prerequisites

Completion of the following course is required:

- [VMware vSphere: Install, Configure, Manage \[V6.x\]](#) or equivalent knowledge

Completion of the following eLearning courses is recommended:

- [VMware vCloud Director: Fundamentals \[V8.x\]](#)
- [VMware Virtual SAN: Fundamentals \[V6.x\]](#)
- [VMware Network Virtualization Fundamentals](#)

Substantial knowledge of TCP/IP networking is helpful.

Course Delivery Options

- Classroom
- Live online
- [Onsite](#)
- [On Demand](#)

Product Alignment

- vCloud Director 9.x
- vCloud Availability for vCloud Director 2.0
- vCloud Director Extender 1.0
- vSphere 6.x and later
- NSX 6.x and later

Course Modules

- 1 Course Introduction
 - Introductions and course logistics
 - Course objectives
- 2 Software-Defined Data Center
 - Describe the evolution of the software-defined data center
 - Cloud computing overview
 - Characteristics of cloud services
 - Categories of cloud computing
 - Describe the VMware product stack for the software-defined data center
- 3 vCloud Director Concepts
 - Explain vCloud Director concepts
 - Configure and manage provider VDCs
 - Identify storage, compute, and network resources for vCloud Director
 - Create and manage organizations
 - vCloud Director organization VDCs
- 4 Organization VDCs
 - 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
- 5 Virtual Machines and vApps
 - Discuss the use of virtual machines
 - Design and manage vApps
- 6 Catalogs
 - Create and manage catalogs
 - Manage vApp templates
- 7 Users and Role-Based Access
 - Describe role-based access
 - Create custom security roles
 - Describe and configure LDAP integration with Active Directory
- 8 Advanced Networking
 - Describe single sign-on
 - Enable a SAML identity provider
 - Describe two-factor authentication
- 9 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 VMware vRealize® Operations Manager™ and VMware vRealize® Log Insight™
 - Use VMware vRealize® Business™ for cost management
- 10 Customer Onboarding and Hybrid Cloud
 - Tenant layer 2 VPN access
 - Tenant SSL VPN access
 - Review options for external connectivity with VPN
 - Import existing infrastructure managed by vCenter Server into vCloud Director
 - Use vCloud Director Extender for hybrid cloud setup and onboarding
- 11 vCloud Availability for vCloud Director
 - Architecture for vCloud Availability for vCloud Director
 - Prerequisites of vCloud Availability for vCloud Director
 - Implementation of vCloud Availability for vCloud Director



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12 vCloud Director Installation

- vCloud Director network, hardware, and software requirements
- vCloud Director setup overview
- vCloud Director cell design
- Install and configure the vCloud Director database (Microsoft SQL Server, Oracle database, or PostgreSQL)
- Create SSL certificates
- Configure VMware NSX® Manager™ for a new vCloud Director installation
- Install and configure an AMQP broker
- Download and install the VMware public key
- Use and set up vCloud Director federation

13 vCloud Director API and Metadata

- Describe tools to access the API of vCloud Director API
- Use of REST API in VMware vRealize® Orchestrator™
- Describe access to vCloud Director using VMware PowerCLI™
- Create and update metadata on objects

Contact

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



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