

VMware vCloud: Deploy and Manage the VMware Cloud

Delivery Methods

- Instructor-led training
- Onsite training

Course Duration

- Four days of instructor-led training.
- 40% lecture, 60% hands-on lab

Target Audience

- Consultants, systems engineers, datacenter administrators, and cloud administrators

Prerequisites

- VMware vSphere: Install, Configure, Manage [V4.1 or V5.0]
- VMware vCloud Director: Essentials/Fundamentals [V1.5]
- Solid understanding of TCP/IP networking
- VMware Certified Professional (VCP) certification is strongly recommended

Pricing

Contact your VMware® representative or a VMware Authorized Training Center for pricing information.

More Information

Courses are conveniently scheduled around the world. Go to <http://www.vmware.com/education> to find the class that is right for you.

Onsite training is also available for customers who prefer to bring a VMware Certified Instructor to their own facilities. For more information about onsite classes, including facility requirements, go to <http://www.vmware.com/education>.

Course Overview

This intensive four-day, instructor-led course demonstrates to technical personnel how to deploy VMware vCloud® for a public, private, or hybrid cloud environment and manage the ongoing operation of the deployment. The course focuses on the private and public vCloud solutions but also includes information on how this approach supports a hybrid solution.

Course Objectives

At the end of this course, you should understand the features and operation of VMware vCloud® Director™ and be able to do the following:

- Deploy vCloud Director
- Manage vCloud Director to satisfy private, public, and hybrid cloud business needs
- Configure VMware vSphere® storage to enable multiple tiers in provider virtual datacenters
- Create and manage vCloud Director organizations and vApps to satisfy business needs
- Create and manage vCloud Director catalogs
- Configure networking for organizations and vApps
- Connect organizations with VPN tunnels and static routes
- Interface vCloud Director to OpenLDAP and Microsoft Active Directory servers
- Configure network security between vCloud Director vApps and organizations with VMware vShield Edge™ firewalls
- Use VMware vCenter Chargeback™ to meter vCloud Director resources
- Understand the interactions between VMware vSphere Distributed Resources Scheduler clusters and vCloud Director.

Course Modules

1 Course Introduction

- Review course goals
- Review course objectives
- Review the course outline
- Recognize VMware vCloud Director Essentials/Fundamentals course elements

2 VMware vCloud Director Architecture and Components

- Describe how VMware products use the cloud computing approach
- Review vCloud Director components and explain their functions
- Examine how to charge for resources
- Determine the licensing needs

3 Installing VMware vCloud Director

- Describe the required prerequisites for a vCloud Director installation
- Install vCloud Director

4 VMware vCloud Director Networking

- Describe the network types available in vCloud Director
- Discuss the organization and vApp network traffic choices
- Describe the function of network pools
- Explain how to share content between organizations and vApps
- Share content in private, public, and hybrid clouds

5 VMware vCloud Director Providers

- Identify storage resources for vCloud Director
- Configure and manage storage for providers
- Examine provider space allocation to an organization
- Recognize Storage vMotion issues
- Manage storage requirements for linked clones and shadow virtual machines

6 VMware vCloud Director Organizations

- Create and manage organizations
- Recognize resource allocations for an organization
- Create and manage catalogs

7 Monitoring VMware vCloud Components

- Monitor usage information at provider and organization virtual datacenters
- Analyze vCloud Director logs to monitor vCloud Director cells

8 Cloud Connectivity

- Configure Basic Firewalls in vCloud Director
- Describe a Network Troubleshooting Methodology
- Configure VPN Tunnels in vCloud Director
- Configure Static Routes in vCloud Director
- Describe VMware vCloud® Connector

9 VMware vCloud Security

- Identify authentication and authorization tasks
- Describe and configure LDAP integration
- Describe single sign-on

10 Cost Analysis and Reporting with VMware vCenter Chargeback

- Recognize which elements vCenter Chargeback meters for vCloud Director
- Describe how cost models are used to generate reports
- Summarize the function of each of the vCenter Chargeback architecture components
- Identify how to generate reports
- Generate different reports based on business needs

11 Managing Cloud Resources

- Understand and identify how vSphere fulfills vCloud Director requests
- Manage provider and organization virtual datacenters

12 Managing vSphere Resources

- Manage VMware vCenter Server™ instances
- Manage VMware ESXi™ hosts
- Manage vSphere datastores
- Manage stranded items
- Configure and manage resource pools at the vSphere level



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