

VMware vCloud: Architecting the VMware Cloud

Delivery Methods

- Instructor-led training
- Onsite training

Course Duration

- Three days of instructor-led training
- 45% lecture, 55% case-study activities

Target Audience

Sales partners, customers, consultants, and sales engineers who are responsible for designing public and private cloud architectures with VMware products

Prerequisites

- Completion of VMware vCloud Director Fundamentals or VMware vCloud Director Essentials self-paced training.
- Students must have VCP-level knowledge of vSphere. They must also have general-purpose vSphere design experience, with special emphasis on networking and storage. Exposure to the product features and functionality of vCloud Director, vSphere, vShield Edge, and vCenter Chargeback is required.

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 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 additional information about onsite classes, including facility requirements, go to www.vmware.com/education.

Course Overview

This course is designed to guide students through the decision points and policy choices available for designing and implementing a VMware vCloud™ environment. Students will learn to appreciate the effects of design choices in VMware vSphere™, VMware vCloud Director, VMware vCenter™ Chargeback, and the VMware® vShield Edge capability that is included with vCloud Director. The course culminates in a comprehensive workshop on VMware cloud design.

Course Objectives

At the end of the course, you should have an understanding of the VMware cloud and be able to:

- Evaluate and design a multitenant environment to address both private cloud and public cloud customer needs
- Configure vCloud providers that can accommodate heterogeneous server, storage, and network resources
- Design a network infrastructure optimized for vCloud
- Integrate vCloud Director security with existing LDAP systems and design appropriate security hierarchies with security roles
- Design a vCenter Chargeback implementation

Design Labs

The course is built on four design labs. In the final, 6-hour lab, students will design a complete vCloud architecture on either the service provider model or the private enterprise model.

- vCloud architecture network design lab
- vCloud architecture provider design lab
- vCloud architecture security design lab
- vCloud architecture design lab

Course Modules

<p>1 Course Introduction</p> <ul style="list-style-type: none"> • Introductions and course logistics • Course objectives 	<p>6 Designing Providers</p> <ul style="list-style-type: none"> • Consumable resources • Virtual datacenters • Resource pools • Organization and provider virtual datacenters • Providers and networking • Providers and storage
<p>2 VMware vCloud Director Architecture Review</p> <ul style="list-style-type: none"> • vCloud Director prerequisites • Components of VMware cloud infrastructure • Logical constructs in vCloud Director • Cloud architecture fundamentals 	<p>7 Designing Organizations</p> <ul style="list-style-type: none"> • Organization creation and resource pools in the provider virtual datacenters • Accessing multiple provider virtual datacenters from one organization • Organization administrator rights and responsibilities • vApps • Catalogs • Organization networks and external networks
<p>3 VMware vCloud Architecture Models</p> <ul style="list-style-type: none"> • Service provider (public cloud) model • Enterprise (private cloud) model • Hybrid model • Management clusters and resource groups • Load balancing • Roles and communications in multicell architectures 	<p>8 Designing Security</p> <ul style="list-style-type: none"> • Authentication and authorization • Role-based access controls • Organization administrators • Organization security and LDAP integration • Predefined roles • Custom roles
<p>4 Designing Networks</p> <ul style="list-style-type: none"> • Types of vCloud Director networks • vCloud Director Network Isolated networks • vCloud Director network pools • vCloud Director network management • vCloud Director network security 	<p>9 Designing Chargeback</p> <ul style="list-style-type: none"> • Modules of consumption • vCenter Chargeback metrics • vCenter Chargeback server configuration • vCenter Chargeback data collectors
<p>5 Designing Storage</p> <ul style="list-style-type: none"> • vCloud storage resources • Storage tiering • Segmenting storage based on speed • Storage leases • Catalog storage • Thin provisioning • VMware Storage vMotion 	<p>10 VMware vCloud Architecture Design Review</p> <ul style="list-style-type: none"> • Multitenancy • Network design • Storage design • Provider design • Organization design • Security design • Chargeback design



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