

# VMware vCloud Director: Design Workshop

## Course Overview

This four-day training course equips you with the knowledge, skills, and abilities to design a VMware vCloud Director® 9.x infrastructure. You will follow a proven approach to design a virtualization solution that ensures availability, manageability, performance, recoverability, and security, and that uses VMware best practices. A case study will guide you through the decision points and policy choices available for designing and implementing vCloud Director. You will learn to appreciate the effects of design choices in VMware vSphere® 6.x, vCloud Director, VMware vCloud® Availability for vCloud Director®, VMware NSX®, and VMware vRealize® Business™ for Cloud, as well as the integration with other VMware and third-party products. You will also learn about self-service provisioning, the effects of organizations, virtual data centers, catalog services, and on-demand NSX networks.

## Course Objectives

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

- Assess the business and application requirements of the current environment
- Apply a framework to a design
- Analyze design choices and best-practice recommendations
- Create a design that ensures availability, manageability, performance, recoverability, and security
- Design a vCloud Director environment
- Design vCloud Director organizations and vApps to satisfy business needs
- Design vCloud Director catalogs
- Design networking for organizations and vApps with the help of NSX
- Discuss customer onboarding scenarios with vCloud Director

## 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 vCloud Director: Install, Configure, Manage](#) or equivalent knowledge

Completion of the following courses is recommended:

- [VMware NSX: Install, Configure, Manage](#)
- [VMware NSX: Design and Deploy](#)
- [VMware vSphere: Install, Configure, Manage](#)
- [VMware vSphere: Design Workshop](#)

## Course Delivery Options

- Classroom
- Live Online
- [Onsite](#)

## Product Alignment

- vCloud Director 9.x
- vSphere 6.x
- NSX 6.2 and later

## Course Modules

### 1 Course Introduction

- Introductions and course logistics
- Course objectives

### 2 Design Principles and Process

- Follow a proven process to design and deploy a cloud solution
- Define customer business objectives
- Gather and analyze business and application requirements
- Document design requirements, constraints, assumptions, and risks
- Use a systematic method to evaluate and document design decisions
- Explain the differences between conceptual, logical, and physical designs

### 3 Service Definition and Standardization

- Describe the technical foundation of cloud computing
- Explain the deployment models of cloud computing
- Describe the essential characteristics of cloud computing
- Describe the fundamental service characteristics of a VMware vCloud® solution
- Explain IT service concepts
- Describe a structured service development process
- List the potential components of a service-level agreement
- Describe a service catalog offered within a vCloud Director platform

### 4 vCloud Director Architecture and Components

- Describe the vCloud Director architecture
- Define sites and availability zones
- Review the vCloud Director components and explain their functions

### 5 vCloud Director Virtual Data Center Design

- Describe the design of a provider virtual data center and its relationship to the underlying vSphere infrastructure
- Define organizations, organization virtual data centers, networks, storage, catalogs, and vApps

### 6 Cloud Management and Resource Components

- Identify the management components in a vCloud Director environment
- Describe the use of management cluster concepts
- Design the vSphere, NSX, and necessary storage infrastructure
- Define the resource cluster design and use cases
- Link definitions to requirements

### 7 vCloud Director Integrations

- Describe the integration with VMware vRealize® Orchestrator™, vRealize Business for Cloud, and VMware vRealize® Operations™
- Design integrations with third-party products

### 8 vCloud Availability for vCloud Director

- Describe the vCloud Availability for vCloud Director architecture
- List the prerequisites of vCloud Availability for vCloud Director
- Implement vCloud Availability for vCloud Director

### 9 Customer Onboarding

- Describe tenant layer 2 VPN access
- Describe tenant SSL VPN access
- Import existing VMware vCenter Server® managed infrastructure into vCloud Director

## Contact

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



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