

# VMWA-23 - VMWARE CLOUD DIRECTOR: DEPLOY, CONFIGURE, MANAGE

[V10.6]

Categoria: VMware

## INFORMAZIONI SUL CORSO



Durata:  
5 Giorni



Categoria:  
VMware



Qualifica Istruttore:  
VMware Certified  
Instructor



Dedicato a:  
Professionista IT



Produttore:  
VMware

## OBIETTIVI

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

- Describe the architecture and main components of VMware Cloud Director
- Explain the features and benefits of VMware Cloud Director
- Deploy high availability VMware Cloud Director cluster
- Create VMware Cloud Director provider virtual data centers and organizations
- Configure and create vApps and VMs
- Create users and role-based access control
- Create and manage VMware Cloud Director catalogs
- Create and manage VMware Cloud Director networks
- Create VM sizing and placement policies
- Discuss additional features of VMware Cloud Director

## PREREQUISITI

This course requires completion of the following course and equivalent knowledge:

- VMware vSphere: Install, Configure, Manage
- VMware NSX: Install, Configure, Manage

## CONTENUTI

### 1 Course Introduction

- Introductions and course logistics
- Course objectives

### 2 VMware Cloud Director Deployment and Configuration

- Describe VMware Cloud Director features and functions
- Describe the VMware Cloud Director architecture
- List the prerequisites for deploying VMware Cloud Director
- Recognize the design considerations when creating a cloud environment
- Describe various VMware Cloud Director deployment methods and options

- Explain the two-stage deployment of VMware Cloud Director cells
- Back up and restore a VMware Cloud Director appliance
- Describe the appliance failover methods
- Describe failover, switchover, and promote in the VMware Cloud Director appliance
- Monitor the VMware Cloud Director appliance services and cluster status

### **3 VMware Cloud Director Provider Configuration**

- Describe the provider portal
- Define a provider VDC, an organization, and organization VDCs
- Configure VMware Cloud Director objects from the VMware Cloud Director provider portal as a system administrator
- Describe provider VDCs and their role in resource allocation
- Explain the configuration of resource pools and storage containers in a provider VDC
- Configure organizations and access the tenant portal
- Identify allocation models for organization VDCs
- Recognize the advantages and disadvantages of allocation models
- Describe how organization VDCs work

### **4 VMware Cloud Director User, Roles, and Quota Management**

- Configure LDAP integration with Active Directory
- Enable a SAML and an OIDC identity provider
- Identify the various types of users in VMware Cloud Director
- Create and import users from the provider portal and the tenant portal
- Describe the options for managing users and groups
- Describe how role-based access control works in VMware Cloud Director
- Explain provider roles
- Recognize the function of the rights bundles
- Explain global roles and their usage in VMware Cloud Director
- Create custom tenant roles
- Explain Quota Management and its use cases
- Configure VMware Cloud Director as an OpenID Provider Proxy Server

### **5 VMware Cloud Director Virtual Machines and vApps**

- Explain standalone VMs and VMs in a vApp
- Describe VM actions
- List the properties of a VM
- Create and manage VMs
- Explain vApp deployment methods
- Explain vApp actions and functions
- Describe VM encryption and how VMs and disks are encrypted
- Describe named disks and shared named disks
- Create multiple snapshots for vApps and VMs
- Describe Auto Scale Groups and their advantages
- Explain VM placement, VM sizing, and vGPU policies
- Describe NVIDIA vGPU and NVIDIA AI Enterprise
- Explain the NVIDIA GRID vGPU requirements
- Implement vGPU in VMware Cloud Director

## 6 Managing Catalogs and Templates

- Describe Content Hub and their advantages
- Create and manage VMware Marketplace Resource
- Create and manage External Helm Chart Repository Resource
- Explain the purpose and use of catalogs
- Create and manage catalogs
- Describe, how catalogs are shared between and within organizations
- Describe vApp templates and their advantages
- Create and manage the vApp template
- Create and manage the organization VDC template

## 7 VMware Cloud Director Networking

- Discuss the integration of VMware Cloud Director with VMware NSX
- Describe VMware Cloud Director networks
- Perform provider networking tasks
- Discuss organization VDC networks
- List the types of organization VDC networks
- Discuss vApp networks
- List the various types of vApp networks
- Describe the segment profile template
- Configure edge gateway services

## 8 Sub-Provider in VMware Cloud Director

- Explain the concept of Sub-Providers
- Explain the configuration of resources to a Sub-Provider
- Manage a Sub-Provider organization
- Use the Sub-Provider organization to configure identity provider and manage users
- Configure quotas and policies to a Sub-Provider
- Perform common catalog tasks in the Sub-Provider organization
- Perform common networking tasks in the Sub-Provider organization

## 9 VMware Avi Load Balancer

- Discuss VMware Cloud Director integration with VMware NSX Advanced Load Balancer
- Describe NSX Advanced Load Balancer components
- Configure NSX Advanced Load Balancer in the provider portal
- Configure NSX Advanced Load Balancer in the tenant portal

## 10 Edge Data Center Group Networking

- Describe Data Center Group network
- Create Data Center Group
- Add a NSX Edge gateway to a Data Center Group
- Activate Distributed Firewall for a Data Center Group
- Configure Data Center Groups using NSX Federation

## 11 Additional Features of VMware Cloud Director

- Explain the purpose and features of advisories.
- Describe the Guided Tour feature and its use cases
- Configure VMware Cloud Director branding
- Explain the Solution Add-Ons feature in VMware Cloud Director

-Briefly discuss VMware Cloud Director integration with the following solutions:

- VMware Cloud Director Availability
- VMware Cloud Director App Launchpad
- VMware Cloud Director Container Service Extension
- VMware Cloud Director Object Storage Extension
- VMware vCloud Usage Meter
- VMware Aria Operations for Logs
- VMware Aria Operations
- VMware Chargeback
- VMware Aria Automation
- VMware Cloud Director Extension for Data Solutions
- VMware Cloud Provider Lifecycle Manager
- VMware Workspace ONE

## INFO

**Materiale didattico:** Materiale didattico ufficiale VMware in formato digitale

**Costo materiale didattico:** incluso nel prezzo del corso a Calendario

**Natura del corso:** Operativo (previsti lab su PC)