

# VMWA-23 - VMWARE CLOUD DIRECTOR: INSTALL, CONFIGURE, MANAGE [V10.4]

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
- Understand the features and benefits of VMware Cloud Director
- Deploy the 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 or equivalent knowledge

The following experience is helpful:

- Working at the Linux command line
- Substantial knowledge of general networking concepts

## CONTENUTI

### 1 Course Introduction

- Introductions and course logistics
- Course objectives

### 2 Software-Defined Data Center and VMware Validated Solution

- Discuss VMware Validated Solution
- Define software-defined data center (SDDC)
- Discuss multitenancy with VMware Cloud Director

- Recognize the design considerations when creating a cloud environment on the SDDC using VMware Cloud Foundation™

### **3 VMware Cloud Director Deployment and Configuration**

- Describe the VMware Cloud Director cell and server group
- Explain the two-stage deployment of VMware Cloud Director cells
- Demonstrate backing up and restoring a VMware Cloud Director appliance
- Discuss VMware Cloud Director Appliance Clustering
- Discuss failover mechanisms (automatic and manual) with VMware Cloud Director cells
- Define the switchover, and promote options of the VMware Cloud Director appliance

### **4 VMware Cloud Director Provider Configuration**

- Showcase VMware Cloud Director integration with VMware vCenter Server® and VMware NSX
- Describe how the compute resources are provided to VMware Cloud Director
- Describe how storage is provided to VMware Cloud Director
- Configure and manage storage for Virtual Data Centers (VDCs)
- Discuss network pools, external networks, and provider gateways
- Describe VMware Cloud Director organizations
- Understand organization policies
- Explain how to access an organization using various portals
- Understand the use cases of Allocation Models
- Understand organization VDC
- Discuss Linked Clone and Fast Provisioning

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

- Discuss rights bundle
- Describe role-based access
- Explain custom roles and rights
- Describe and configure LDAP integration with Active Directory
- Discuss OIDC integration with VMware Cloud Director
- Discuss configuring the SAML identity provider in VMware Cloud Director
- Discuss API Access Token and Service Accounts
- Explain Quota Management and its use cases

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

- Understand standalone VMs
- Discuss deployment methods of virtual machines
- Explain VM properties
- Discuss deployment methods of vApps
- Discuss the vApp lease policies
- Understand the vApps and VM actions
- Explain vApp and VM badges
- Demonstrate auto scaling groups

### **7 VMware Cloud Director Content Libraries**

- Explain the purpose of catalogs and how to create a catalog
- Discuss catalog management and sharing catalogs
- Understand media files in VMware Cloud Director and their usage
- Discuss vApp templates

- Understand vApp template operations
- Discuss organization VDC templates
- Discuss Fast Cross vCenter Server vApp Instantiation Utilizing Shared Storage

## **8 VMware Cloud Director Networking**

- Discuss provider gateway, external networks
- Describe edge gateway
- Discuss organization VDC networks
- List the types of organization VDC networks
- Discuss vApp networks
- List the various types of vApp networks

## **9 Edge Gateway Services and Additional Networking Features**

- List the edge gateway services
- Discuss DHCP, NAT, and firewall services on the edge gateway
- Discuss SNAT, DNAT, NO SNAT, and NO DNAT use cases
- Explain routing and distributed firewall services
- Understand IP space and its types
- Showcase VMware Cloud Director integration with VMware NSX Advanced Load Balancer
- Describe the segment profile template

## **10 VMware Cloud Director Storage and Compute**

- Describe named disks and shared named disks
- Demonstrate how to attach and detach a named disk and a shared named disk
- Discuss how VMware Cloud Director VMs and disks are encrypted
- Discuss vCenter Server and VMware Cloud Director IOPS storage policies usage
- Discuss how to enable and use the storage IOPS limitation in VMware Cloud Director
- Demonstrate VM sizing and placement in VMware Cloud Director
- Discuss vGPU implementation in VMware Cloud Director

## **11 Additional Features of VMware Cloud Director**

- Describe the usage and functionality of advisories
- Demonstrate quick search
- Discuss guided tours and use cases
- Discuss Transfer Server Storage Monitoring
- Demonstrate the VMware Cloud Director branding themes
- Explain the Solution Add-Ons feature in VMware Cloud Director

## **12 VMware Cloud Director Integrated Solutions**

- 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
- Terraform
- 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)