VMWA-23 - VMWARE CLOUD DIRECTOR: DEPLOY, CONFIGURE, MANAGE [V10.6]

Categoria: **VMware**

INFORMAZIONI SUL CORSO

Durata:	Categoria:	Qualifica Istruttore:	Dedicato a:	Produttore:
5 Giorni	VMware	VMware Certified Instructor	Professionista IT	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 Hubb 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)