VMware Cloud Director: Install, Configure, Manage [V10.4]

1 Course Introduction

• Introductions and course logistics

• Course objectives

2 Software-Defined Data Center and VMware Validated Solution

• Define software-defined data center (SDDC)

• Discuss VMware offerings for cloud-based services

• Discuss the deployment options for VMware Cloud Director

• Discuss VMware Validated Solution

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

3 VMware Cloud Director Deployment and Configuration

• Discuss the deployment options for VMware Cloud Director

• Explain the two-stage deployment of VMware Cloud Director cells

• Discuss failover mechanisms (automatic and manual) with VMware Cloud Director cells

• Define the switchover, promote, and fencing options of the VMware Cloud Director appliance

• Understand the VMware Cloud Director appliance enhancements

4 VMware Cloud Director Provider Configuration

• 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 Tier-0 gateways

• Showcase VMware Cloud Director integration with VMware vCenter Server® and NSX-T Data Center

• Describe VMware Cloud Director organizations

• Understand organization policies

• Explain how to access an organization using various portals

• Understand organization VDC

• Discuss Linked Clone and Fast Provisioning

• Understand the use cases of Allocation Models

5 VMware Cloud Director User, Roles, and Quota Management

• Discuss user bundle

• Describe role-based access

• Explain custom roles and rights

• Describe and configure LDAP integration with Active Directory

• Discuss OIDC authentication methods

• Describe SAML identity provider

• 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 the VM managing operations

• Explain VM properties

• Discuss deployment methods of vApps

• Discuss the vApp managing operations

• Discuss the vApp lease policies

• Understand the vApps and VM actions

• Explain vApp and VM badges

7 VMware Cloud Director Content Libraries

• Explain the purpose of catalogs and how to create a catalog organization

• Define catalog management and sharing catalogs inside and between organizations

• Explain media in VMware Cloud Director and its usage

• Discuss vApp templates

• Understand vApp template operations

• Describe the purpose and usage of Open Virtualization Format (OVF)

• Discuss organization VDC templates

• Discuss Fast Cross vCenter Server vApp Instantiation Utilizing Shared Storage

8 VMware Cloud Director Networking

• Discuss organization VDC networks

• List the types of organization VDC networks

• Describe the edge gateway services

• Explore the services offered by the edge gateway

• Discuss the sub-allocation IP pool and its use cases

• Discuss DHCP, NAT, load balancer, and firewall services on the edge gateway

• Discuss SNAT, DNAT, NO SNAT, and NO DNAT use cases

• Explain routing and distributed firewall services

• Discuss vApp networks

• List the various types of vApp networks

9 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

• Describe methods of sharing the named disk

• Discuss the implications of deleting VMs that have an attached named disk

• Discuss how VMware Cloud Director VMs and disks are encrypted

• Explain the storage policy capabilities

• Demonstrate how VM sizing and placement policies are published

• 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

• Describe the storage policy-supported entities

• Discuss vGPU in VMware Cloud Director

10 Additional UI Features and Integrated Solutions

• Explain custom advisories, global search, guided tours, keyboard shortcuts, and quick search

• Demonstrate the new branding and theming experience

• Briefly discuss how VMware Cloud Director can be integrated with other solutions