VMware Cloud Director: Deploy, Configure, Manage [V10.6] Training

Duration: **5 Day**

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Overview

This five-day, hands-on {*training} is designed for IT professionals to master the deployment, configuration, and administration of VMware Cloud Director 10.6 in an on-premises or hybrid cloud environment. The course covers multi-tenant resource provisioning, organization and virtual data center (VDC) creation, catalog and template management, network configurations using NSX, and advanced access control. Participants will also explore integration with modern VMware solutions like App Launchpad, vCloud Availability, and VMware Avi Load Balancer.

Prerequisites

Prior completion or equivalent knowledge of:

- VMware vSphere: Install, Configure, Manage [V8]
- VMware NSX: Install, Configure, Manage [V4.0]

Who Should Attend

- Cloud Architects
- System Engineers
- Data Center Administrators
- Cloud Admins working in service provider environments

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What You Will Learn

By the end of this {*training}, you will have gained knowledge and skills in the following areas:

- Describe the core architecture and components of VMware Cloud Director
- Deploy and manage provider and organization VDCs
- Configure and provision vApps and virtual machines
- Implement user and group access through LDAP, SAML, and OpenID
- Set up provider and tenant-level networks using NSX
- Manage Cloud Director catalogs, templates, and content sharing
- Define and enforce quotas, access rights, and placement policies
- Operate Sub-Provider environments with segmented management
- Integrate VMware NSX Advanced Load Balancer (Avi)
- Connect Cloud Director to additional VMware tools and extensions

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Outline

1. **Introduction & Objectives**
2. **VCDA Deployment and Architecture**
   - HA deployment, two-stage appliance setup, backup & failover
3. **Provider Configuration**
   - Provider portal, VDC provisioning, resource pools, storage policies
4. **User, Role & Quota Management**
   - AD/LDAP/SAML, RBAC, rights bundles, OpenID Proxy
5. **Virtual Machines & vApps**
   - VM lifecycle, encryption, placement, vGPU/NVIDIA support
6. **Catalogs and Templates**
   - Content Hub, Helm Charts, shared templates across tenants
7. **Networking in VCD**
   - NSX integration, Org VDC, vApp networks, Edge services
8. **Sub-Provider Architecture**
   - Independent org management, isolated identities and networks
9. **Avi Load Balancer Integration**
10. **Data Center Group Networking**
    - NSX Edge, distributed firewall, federation setup
11. **Advanced Features & Integrations**
    - App Launchpad, CSE, Availability, Usage Meter, Aria Suite