5 Days   VMware vCloud Director: Install Configure Manage [v8.10]

In this course, you will learn to VMware vCloud Director install, design, configure and manage 8.10 with products aligned to vCloud Director 8.10, Virtual SAN 6.2, and NSX 6.2. Further, you will be able to acquire knowledge regarding self-service provisioning, virtual data centers, catalog services, the creation of organizations, on-demand VMware NSX networks, and VMware virtual SAN integration.

Course Objective:

Upon completion of the course, you will be well-versed in the following objectives.

- Design, Deploy and Manage vCloud Director environment
- Configuration of Virtual SAN and VMware vSphere storage
- Hybrid cloud connectivity creation using NSX
- Create and manage vCloud Director organizations, catalogs, and vApps
- Transfer of virtual machine workloads from vSphere into and out of vCloud Director
- Configuration of network for organizations and vApps
- Interface creation between vCloud Director and Microsoft Active Directory servers

Course Details
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Course Outline

1. Course Introduction

- Introduction, course logistics, and objectives

2. Software-Defined Data Center

- Evolution of the software-defined data center
- vSphere, NSX, and Virtual SAN

3. Cloud Computing and Cloud Director Overview

- Overview, characteristics, and categories
- enable cloud-based services with VMware
- Cloud deployment environments
- VMware vCloud® Air™ network program
- vCloud Director in relation to service provider/managed services environments

4. vCloud Director Architecture and Components

- Architecture, Components, and functions
- Integration with VMware products
- vApp, Catalog, organization, and virtual data center
- Network concepts and supported storage

5. vCloud Providers

- Storage Resources: Identification, configuration, and management.
- Examine and manage storage requirements and space allocation
- Virtual SAN, legacy storage, VMware vSphere Virtual Volumes use cases

6. vCloud Director Organizations

- Creation and its management
- Virtual data center allocation models
- Manage catalogs, vApps, and v Templates

7. vCloud Networking with NSX

- NSX components basics
- Network types, vApp network traffic choices
- Content sharing between vApps and organizations
- Connect private and public cloud

8. Basic Security

- Description of role-based access, LDAP configuration, Active Directory integration
- Single sign-on, two-factor authentication
- Enabling a SAML identity provider

9. Manage Cloud Resources

- vSphere fulfillment for vCloud Director requests
- Provider and organization virtual data centers management

10. Managing vSphere Resources

- Manage VMware vCenter Server® instances, vSphere datastores, VMware ESXi™ hosts, and stranded items.
- Resource pools configuration and management

11. Monitoring vCloud Components

- Monitor Usage information
- Monitor vCloud Director environments
- Leverage vRealize Business for cost management
- Analyze vCloud Director logs to mirror vCloud Director cells

12. vCloud Director API and Metadata

- Access tools description
- Use of REST API
- Metadata creation and updates

13. vCloud Director Installation

- Overview
- Hardware and software requirements
- Installation and configuration for vCloud Director database
- Configuration of an Oracle database, VMware NSX® Manager™ and Microsoft SQL Server database
- SSL certificate creation
- Installation of AMQP broker, VMware public key

14. vCloud Director Upgrade

- Upgrade overview, Prerequisites
- NSX requirements
- Best practice implementation for upgrades

Who Should Attend

- Cloud Architects
- System Engineers
- Data center administrators
- Cloud administrators

Pre Requisite

The recommended e-learning courses completion include:

- VMware vCloud Director Fundamentals [v 8.10]
- VMware Virtual SAN: Fundamentals [6.2]
- VMware Network Virtualization Fundamentals

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