VM-VCPDCV
VCP-DCV for vSphere 8.x

DURATION	LEVEL	TECHNOLOGY	DELIVERY METHOD	TRAINING CREDITS
5 Days	Professional	VMware	ILT / VILT	N/A

INTRODUCTION

This five-day course focuses on two major goals: To prepare you to administer a vSphere infrastructure for an organization of any size and to help you prepare to pass the VMware vSphere 8.x Professional (2V0-21.23) exam, which is a key requirement for earning the VCP-DCV 2023 certification.

Intensive hands-on labs are a large component of this 5-day course to put theory into practice. You will get to install, configure, and manage a VMware vSphere 8 environment, which includes VMware ESXi8 and VMware vCenter Server 8.

AUDIENCE PROFILE

The VCP-DCV certification is the most popular certification at VMware. This course is intended for anyone who wants to prepare for the 2V0-21.23 exam. The audience includes current and prospective IT professionals such as system administrators, infrastructure administrators, and virtualization engineers.

PREREQUISITES

System administration experience on Microsoft Windows or Linux operating systems

COURSE OBJECTIVES

After completing this course, delegates should be familiar with:

- Architectures and Technologies
- VMware Products and Solutions
- Planning and Designing
- Installing, Configuring, and Setup
- Performance-tuning, Optimization, Upgrades
- Troubleshooting and Repairing
- Administrative and Operational Tasks

MODULES

Chapter 1: vSphere Overview, Components, and Requirements

- vSphere Components and Editions
- vCenter Server Topology
- Infrastructure Requirements
- Other Requirements
- VMware Cloud vs. VMware Virtualization

Chapter 2: Storage Infrastructure

- Storage Models and Datastore Types
- vSAN Concepts
- vSphere Storage Integration
- Storage Multipathing and Failover
- Storage Policies
- Storage DRS (SDRS)

Chapter 3: Network Infrastructure

- Networking Terms and Concepts
- vSphere Standard Switch (vSS)
- vSphere Distributed Switch (vDS)
- vDS Settings and Features
- Other vSphere Networking Features

Chapter 4: Clusters and High Availability

- Cluster Concepts and Overview
- Distributed Resource Scheduler (DRS)
- vSphere High Availability (HA)
- Other Resource Management and Availability Features

Chapter 5: vCenter Server Features and Virtual Machines

- vCenter Server and vSphere
- Virtual Machine File Structure
- Virtual Machine Snapshots
- Virtual Machine Settings
- Virtual Machine Migration
- Virtual Machine Cloning

Chapter 6: VMware Product Integration

- vSphere Add-ons
- Aria Suite
- Desktop and Application Virtualization
- Replication and Disaster Recovery
- Private, Public, and Hybrid Clouds
- Networking and Security

Chapter 7: vSphere Security

- vSphere Certificates
- vSphere Permissions
- ESXi and vCenter Server Security
- vSphere Network Security
- Virtual Machine Security
- Available Add-on Security

Chapter 8: vSphere Installation

- Installing ESXi Hosts
- Deploying vCenter Server Components
- Configuring Single Sign-On (SSO)
- Initial vSphere Configuration

Chapter 9: Configuring and Managing Virtual Networks

- vSphere Standard Switches (vSS)
- vSphere Distributed Switches (vDS)
- VMkernel Networking
- Configuring and Managing Networking Features
- Managing Host Networking with vDS

Chapter 10: Managing and Monitoring Clusters and Resources

- Creating and Configuring a vSphere Cluster
- Creating and Configuring a vSphere DRS Cluster
- Creating and Configuring a vSphere HA Cluster
- Monitoring and Managing vSphere Resources
- Events, Alarms, and Automated Actions
- Logging in vSphere

Chapter 11: Managing Storage

- Configuring and Managing vSAN
- Managing Datastores
- Storage DRS and SIOC
- iSCSI, iSER, NVMe, and PMem
- Multipathing, Storage Policies, and vVols

Chapter 12: Managing vSphere Security

- Configuring and Managing Authentication and Authorization
- Configuring and Managing vSphere Certificates
- General ESXi Security Recommendations
- Configuring and Managing ESXi Security
- Additional Security Management

Chapter 13: Managing vSphere and vCenter Server

- vCenter Server Backup
- Upgrading to vSphere 8.0
- Using vSphere Lifecycle Manager
- Managing ESXi Hosts

Chapter 14: Managing Virtual Machines

- Creating and Configuring Virtual Machines
- Managing Virtual Machines
- Advanced Virtual Machine Management
- Content Libraries

Chapter 15: Final Preparation

- Getting Ready
- Taking the Exam

Hands-On Labs:

- Accessing the Lab Environment
- Configuring an ESXi Host
- Adding vSphere Licenses
- Adding an Identity Source
- User groups and Permissions
- Creating Standard Switches
- Configuring vSphere Distributed Switches
- Accessing iSCSI Storage
- Managing VMFS Datastores
- Accessing NFS Storage
- Creating and Removing a Virtual Machine
- Installing VMware Tools
- Adding Virtual Hardware
- Modifying Virtual Machines
- Creating Templates and Deploying VMs
- Using Local Content Libraries
- Using Subscribed Content Libraries
- Versioning VM Templates in Content Libraries
- vSphere vMotion Migrations
- vSphere Storage vMotion Migrations
- Working with Snapshots
- Controlling VM Resources
- Implementing vSphere DRS Clusters
- Configuring vSphere HA
- Using vSphere Lifecycle Manager

ASSOCIATED CERTIFICATIONS & EXAM

The primary objective of the VCP-DCV 2023 certification is to demonstrate that you have mastered the skills to successfully install, configure, and manage VMware vSphere 8 environments.