VMware vSphere: Install Configure Manage [8.0] Training

Duration: **5 Day**

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Overview

This **five-day intensive training** focuses on **installing, configuring, and managing VMware vSphere® 8**, including **VMware ESXi™ 8** and **VMware vCenter® 8**. It prepares participants to administer a modern virtualization infrastructure for organizations of any size.

This course serves as the **foundation for most VMware technologies** within the software-defined data center (SDDC).

Product Alignment

- VMware ESXi 8.0
- VMware vCenter 8.0
- VMware vSphere

Prerequisites

System administration experience with Microsoft Windows or Linux

Who Should Attend

- System administrators
- System engineers

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What You Will Learn

By the end of this course, you will be able to:

- Install and configure ESXi hosts
- Deploy and configure vCenter
- Use vSphere Client to manage inventory and permissions
- Create and manage networks with standard and distributed switches
- Configure storage with VMFS, NFS, iSCSI, and Fibre Channel
- Create, manage, and clone VMs, templates, and snapshots
- Manage templates with Content Libraries
- Perform VM migrations with vMotion and Storage vMotion
- Build clusters with High Availability (HA) and Distributed Resource Scheduler (DRS)
- Manage lifecycle tasks with vSphere Lifecycle Manager

Outline

1. Introduction

- Course objectives and logistics

2. vSphere and Virtualization Overview

- Basics of virtualization
- vSphere in SDDC and cloud infrastructure
- CPU, memory, network, and storage integration

3. Installing and Configuring ESXi

- ESXi installation and setup
- User account management
- DCUI and Host Client usage

4. Deploying and Configuring vCenter

- vCenter Server Appliance deployment

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- Licensing and inventory organization
- Permissions and logging

5. Configuring Networking

- Standard vs Distributed switches
- Network policies and configurations

6. Configuring Storage

- Datastore types
- VMFS and NFS setup
- iSCSI and Fibre Channel configuration

7. Deploying Virtual Machines

- VM provisioning and configuration
- VMware Tools
- Templates, clones, snapshots
- Content Libraries

8. Managing Virtual Machines

- vMotion and Storage vMotion
- Snapshot lifecycle
- CPU and memory resource allocation

9. Configuring vSphere Clusters

- HA and DRS clusters
- Failover responses
- Network redundancy and Fault Tolerance

10. Managing the vSphere Lifecycle

- Lifecycle Manager overview
- Upgrading vCenter and ESXi
- Cluster image compliance
- VMware Tools and VM hardware upgrades

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