

VMware vSphere 8: Install, Configure, Manage

Duration : 5 days

Course Overview

This five-day course features intensive hands-on training that focuses on installing, configuring, and managing VMware vSphere 8, which includes VMware ESXi[™] 8 and VMware vCenter® 8. This course prepares you to administer a vSphere infrastructure for an organization of any size.

This course is the foundation for most VMware technologies in the software-defined data center.

Objectives

Upon successful completion of this course delegates will be able to:

- Install and configure ESXi hosts
- Deploy and configure vCenter
- > Use the vSphere Client to create the vCenter inventory and assign roles to vCenter users
- Create virtual networks using vSphere standard switches and distributed switches
- Create and configure datastores using storage technologies supported by vSphere
- ► Use the vSphere® Client[™] to create virtual machines, templates, clones, and snapshots
- Create content libraries for managing templates and deploying virtual machines
- Manage virtual machine resource allocation
- Migrate virtual machines with VMware vSphere® vMotion® and VMware vSphere® Storage vMotion®
- ➤ Create and configure a vSphere cluster that is enabled with VMware vSphere® High Availability and VMware vSphere® Distributed Resource Scheduler™
- Manage the life cycle of vSphere to keep vCenter, ESXi hosts, and virtual machines up to date

Course Content

vSphere and Virtualization Overview

Explain basic virtualization concepts

Describe how vSphere fits in the software-defined data center and the cloud infrastructure Recognize the user interfaces for accessing vSphere Explain how vSphere interacts with CPUs, memory, networks, storage, and GPUs

Installing and Configuring ESXi

Install an ESXi host Recognize ESXi user account best practices Configure the ESXi host settings using the DCUI and VMware Host Client

Deploying and Configuring vCenter

Recognize ESXi hosts communication with vCenter Deploy vCenter Server Appliance Configure vCenter settings Use the vSphere Client to add and manage license keys Create and organize vCenter inventory objects Recognize the rules for applying vCenter permissions View vCenter logs and events

Configuring vSphere Networking

Configure and view standard switch configurations Configure and view distributed switch configurations Recognize the difference between standard switches and distributed switches Explain how to set networking policies on standard and distributed switches

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course outline

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Configuring vSphere Storage

Recognize vSphere storage technologies Identify types of vSphere datastores Describe Fibre Channel components and addressing Describe iSCSI components and addressing Configure iSCSI storage on ESXi Create and manage VMFS datastores Configure and manage NFS datastores

Deploying Virtual Machines

Create and provision VMs Explain the importance of VMware Tools Identify the files that make up a VM Recognise the components of a VM Navigate the vSphere Client and examine VM settings and options Modify VMs by dynamically increasing resources Create VM templates and deploy VMs from them Clone VMs Create customization specifications for guest operating systems Create local, published, and subscribed content libraries Deploy VMs from content libraries Manage multiple versions of VM templates in content libraries

Managing Virtual Machines

Recognize the types of VM migrations that you can perform within a vCenter instance and across vCenter instances Migrate VMs using vSphere vMotion Describe the role of Enhanced vMotion Compatibility in migrations Migrate VMs using vSphere Storage vMotion Take a snapshot of a VM Manage, consolidate, and delete snapshots Describe CPU and memory concepts in relation to a virtualized environment Describe how VMs compete for resources Define CPU and memory shares, reservations, and limits

Deploying and Configuring vSphere Clusters

Create a vSphere cluster enabled for vSphere DRS and vSphere HA View information about a vSphere cluster Explain how vSphere DRS determines VM placement on hosts in the cluster Recognize use cases for vSphere DRS settings Monitor a vSphere DRS cluster Describe how vSphere HA responds to various types of failures Identify options for configuring network redundancy in a vSphere HA cluster Recognize vSphere HA design considerations Recognize the use cases for various vSphere HA settings Configure a vSphere HA cluster Recognize when to use vSphere Fault Tolerance

Managing the vSphere Lifecycle

Enable vSphere Lifecycle Manager in a vSphere cluster Describe features of the vCenter Update Planner Run vCenter upgrade prechecks and interoperability reports Recognize features of VMware vSphere® Lifecycle Manager™ Distinguish between managing hosts using baselines and managing hosts using images Describe how to update hosts using baselines Describe ESXi images Validate ESXi host compliance against a cluster image and update ESXi hosts Update ESXi hosts using vSphere Lifecycle Manager Describe vSphere Lifecycle Manager Describe vSphere Lifecycle Manager automatic recommendations Use vSphere Lifecycle Manager to upgrade VMware Tools and VM hardware

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