

VMWARE VSPHERE: INSTALL, CONFIGURE, MANAGE [V7]

Course Code: 100764

Learn installing, configuring, and managing VMware vSphere 7.

This five-day course features intensive hands-on training that focuses on installing, configuring, and managing VMware vSphere 7, which includes VMware ESXi 7 and VMware vCenter Server 7. This course prepares you to administer a vSphere infrastructure for an organization of any size.

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

What You'll Learn

- Describe the software-defined data center (SDDC)
- Explain the vSphere components and their function in the infrastructure
- Install and configure VMware ESXi hosts
- Deploy and configure VMware vCenter Server Appliance
- Use VMware vSphere Client to manage the vCenter Server inventory and the vCenter Server configuration
- Manage, monitor, back up, and protect vCenter Server Appliance
- Create virtual networks with vSphere standard switches
- Describe the storage technologies supported by vSphere
- Configure virtual storage using iSCSI and NFS storage
- Create and manage VMware vSphere VMFS datastores
- Use the vSphere Client to create virtual machines, templates, clones, and snapshots
- Create a content library and deploy virtual machines from templates in the library
- Manage virtual machine resource use
- Migrate virtual machines with VMware vSphere vMotion and VMware vSphere Storage vMotion
- Create and manage a vSphere cluster that is enabled with VMware vSphere High Availability and VMware vSphere Distributed Resource Scheduler
- Discuss solutions for managing the vSphere life cycle

- Use VMware vSphere Update Manager to apply patches and perform upgrades to ESXi hosts and virtual machines

Who Needs to Attend

System administrators, systems engineers, technicians who are responsible for server virtualization will benefit from this course.

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CLASSROOM LIVE

\$4,250 USD

5 Day

Classroom Live Outline

Course Introduction

- Introductions and course logistics
- Course objectives

Introduction to vSphere and the Software-Defined Data Center

- Explain basic virtualization concepts
- Describe how vSphere fits into the software-defined data center and the cloud infrastructure
- Explain how vSphere interacts with CPUs, memory, networks, and storage
- Recognize the user interfaces for accessing the vCenter Server system and ESXi hosts
- Use VMware Host Client to access and manage ESXi host

Virtual Machines

- Create and remove a virtual machine
- Provision a virtual machine with virtual devices
- Identify the files that make up a virtual machine
- Explain the importance of VMware Tools

vCenter Server

- Describe the vCenter Server architecture
- Discuss how ESXi hosts communicate with vCenter Server
- Deploy and configure vCenter Server Appliance
- Use the vSphere Client to manage the vCenter Server inventory
- Add data center, organizational objects, and hosts to vCenter Server
- Use roles and permissions to enable users to access objects in the vCenter Server inventory
- Back up vCenter Server Appliance

- Monitor vCenter Server tasks, events, and appliance health
- Use vCenter Server High Availability to protect a vCenter Server Appliance

Configuring and Managing Virtual Networks

- Create and manage standard switches
- Describe the virtual switch connection types
- Configure virtual switch security, traffic-shaping and load-balancing policies
- Compare vSphere distributed switches and standard switches

Configuring and Managing Virtual Storage

- Identify storage protocols and storage device types
- Discuss ESXi hosts using iSCSI, NFS, and Fibre Channel storage
- Create and manage VMFS and NFS datastores
- Explain how multipathing works with iSCSI, NFS, and Fibre Channel storage
- Deploy virtual machines on a VMware vSAN datastore

Virtual Machine Management

- Use templates and cloning to deploy new virtual machines
- Modify and manage virtual machines
- Create a content library and deploy virtual machines from templates in the library
- Dynamically increase the size of a virtual disk
- Use customization specification files to customize a new virtual machine
- Perform vSphere vMotion and vSphere Storage vMotion migrations
- Create and manage virtual machine snapshots
- Examine the features and functions of VMware vSphere Replication

Resource Management and Monitoring

- Discuss CPU and memory concepts in a virtualized environment
- Describe what overcommitment of a resource means
- Describe methods for optimizing CPU and memory usage
- Use various tools to monitor resource use
- Create and use alarms to report certain conditions or events

vSphere Cluster

- Describe options for making a vSphere environment highly available
- Explain the vSphere HA architecture
- Configure and manage a vSphere HA cluster
- Examine the features and functions of VMware vSphere Fault Tolerance
- Configure a vSphere cluster using ESXi Cluster Quickstart
- Describe the functions of a vSphere DRS cluster
- Create a vSphere DRS cluster

vSphere Lifecycle

- Describe how VMware vSphere Lifecycle Manager works
- Use vSphere Lifecycle Manager to update ESXi hosts in a cluster

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VIRTUAL CLASSROOM LIVE

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Jul 7 - 11, 2025 | 10:00 AM - 6:00 PM EST

Aug 4 - 8, 2025 | 10:00 AM - 6:00 PM EST

Sep 8 - 12, 2025 | 10:00 AM - 6:00 PM EST

Oct 20 - 24, 2025 | 10:00 AM - 6:00 PM EST

Nov 3 - 7, 2025 | 10:00 AM - 6:00 PM EST

Dec 1 - 5, 2025 | 10:00 AM - 6:00 PM EST



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