

# VMware vSphere 7: Install, Configure, Manage

Learn via: **Classroom / Virtual Classroom / Online**

Duration: **5 Gün**

## Overview

## Genel Bilgi

Bu beş günlük eğitim, VMware ESXi™ 7 ve VMware vCenter Server® 7'yi içeren VMware vSphere® 7'nin kurulumu, yapılandırılması ve yönetimine odaklanan, yoğun bir uygulamalı eğitimidir. Bu eğitim sizi, herhangi bir boyuttaki bir kuruluş için vSphere altyapısını yönetmeye hazırlar. Bu eğitim, yazılım tanımlamalı veri merkezinde diğer VMware teknolojilerinin birçoğu için temel niteliktedir.

## Ürün Uyumu

- ESXi 7
- vCenter Server 7

## Prerequisites

VMware e-egitim malzemelerinizin tedarikini kolaylaştırmak amacıyla QA, adınızı ve e-posta adresinizi (kendi iş sistemlerimiz için kaydettiğimiz) VMware ile paylaşacaktır. Ardından VMware, eğitiminizden en geç 48 saat önce erişebileceğiniz e-egitim bilgilerinizi tarafınıza doğrudan gönderecektir. VMware bu bilgileri, e-egitim malzemelerinizin tarafınıza gönderilmesi haricinde başka herhangi bir amaçla kullanmayacaktır.

Bu bilgiler VMware tarafından AB dışında tutulmaktadır. Zaten bir VMware MyLearn hesabınız varsa bu hesaba kaydetmiş olduğunuz e-posta adresi konusunda QA'yı bilgilendirmiş olmanız önemlidir. Bu konu hakkında herhangi bir sorunuz veya endişeniz varsa lütfen QA müşteri temsilciniz ile iletişime geçin.

Sanal sınıf yoluyla eğitime katılanların ya iki monitör ya da bir monitör ve bir tablet cihaz kullanmaları gerekecektir.

## Teknik ön koşullar

Microsoft Windows veya Linux işletim sistemlerinde sistem yönetimi deneyimi

## Who Should Attend

- Sistem yöneticileri
- Sistem mühendisleri

## What You Will Learn

## Delegates will learn how to

By the end of the course, you should be able to meet the following objectives:

- 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

## Outline

# Outline

## 1 Course Introduction

- Introductions and course logistics
- Course objectives

## 2 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

## 3 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™

## 4 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

## 5 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

## 6 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

## 7 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™

## **8 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

## **9 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

## **10 vSphere Lifecycle**

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