

VMware vSphere 6: Install, Configure, Manage

Overview:

This hands-on training course explores installation, configuration, and management of VMware® vSphere™, which consists of VMware ESXi/ESX and VMware vCenter Server. Upon completion of this course, you can opt for VCP examination.

Course Objectives:

At the end of the course, you should gain an understanding of the functionality in VMware vSphere and be able to:

- Install and configure ESX
- Install and configure vCenter Server
- Configure and manage ESX networking and storage using vCenter Server
- Deploy and manage virtual machines
- Manage user access to the VMware infrastructure
- Increase scalability using vCenter Server
- Monitor resource usage using vCenter Server
- Apply patches using VMware vCenter Update Manager
- Manage higher availability and data protection using vCenter Server
- Best practices and lab exercises are interspersed throughout the course.

Target Audience:

System administrators, systems engineers, and operators responsible for ESXi, ESX, and/or vCenter Server.

Prerequisites:

System administration experience on Microsoft Windows or Linux operating systems.

Course Outline:

Introduction to virtualization
Various types of virtualization
Virtualization products comparison
Introduction to VMware vSphere
Discussion of vSphere components and Cloud Computing (IaaS and SaaS)
Installing and configuration of ESXi/ESX

Licensing and packaging

- Licensing changes, editions, kits and pricing.

Installing and Using VMware vCenter Server

- Install and configure vCenter Server, and use the VMware vSphere Client to manage vCenter Server inventory hierarchies

Networking

- Configuration of vNetwork standard and distributed switches, network connections, and port groups

Storage

- Storage management technologies

Virtual Machines

- Deploy virtual machines using templates, VMware vCenter Converter, Guided Consolidation
- Modifying, managing, and migrating virtual machines

Access Control

- Controlling user access through roles and permissions

Resource Monitoring

- Workload assessment, monitoring using vCenter Server

Scalability

- VMware vMotion™ migrations
- Setup of resource pools and VMware Distributed Resource Scheduler cluster(DRS)

High Availability and Data Protection

- Setup of a VMware High Availability cluster
- Backup and recovery of virtual machines using VMware Data Recovery

Configuration Management

- vCenter Update Manager for patching