

# VMware vSphere: Install, Configure, Manage

**Summary** - Format: Classroom  
- Length: 4 Days

**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 take the examination to become a VMware Certified Professional. The course is based on ESXi 4.0, ESX 4.0, and vCenter Server 4.0.

Students who complete this course may enroll in any of several more-advanced vSphere courses. See [www.vmware.com/education](http://www.vmware.com/education) for options.

**Objectives**

- 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

**Who Should Attend?** 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

**Outline**

Module 1: Course Introduction

Module 2: Introduction to VMware Virtualization

- Discussion of virtualization and vSphere components

Module 3: Configuring ESXi/ESX

- Configuration of ESXi and ESX

Module 4: Installing and Using VMware vCenter Server

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

Module 5: Networking

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

Module 6: Storage

- Storage management technologies

Module 7: Virtual Machines

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

Module 8: Access Control

- Controlling user access through roles and permissions

Module 9: Resource Monitoring

- Workload assessment, monitoring using vCenter Server

Module 10: Scalability

- VMware VMotion™ migrations
- Setup of resource pools and VMware Distributed Resource Scheduler cluster

Module 11: High Availability and Data Protection

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

Module 12: Configuration Management

- Patching using vCenter Update Manager

Module 13: Installing ESX

- Installation of ESX