



# VMware Infrastructure 3: Install and Configure

## Overview

This hands-on training course explores installation, configuration, and management of VMware Infrastructure 3, which consists of VMware ESX Server and VMware VirtualCenter. Upon completion of this course, you can take the examination to become a VMware Certified Professional. The course has been updated to reflect ESX Server 3.5 and VirtualCenter 2.5.

Students who complete this course should enroll next in **VMware Infrastructure 3: Deploy, Secure, and Analyze**.

## Course Objectives

At the end of the course, you should gain an understanding of the functionality in VMware Infrastructure 3 and be able to:

- Install ESX Server
- Configure ESX Server networking and storage
- Install and configure VirtualCenter
- Control user access to the VMware infrastructure
- Deploy and manage virtual machines using VirtualCenter
- Allocate and monitor virtual machines' resources
- Ensure high availability of applications

Troubleshooting guidance, best practices and lab exercises are interspersed throughout the course

## Target Audience

System administrators, systems engineers, and operators responsible for ESX Server and/or VirtualCenter

## Prerequisites

System administration experience on Microsoft Windows® or Linux® operating systems

## Pricing and Scope

- 4 days of instructor-led, classroom training
- 50% lecture and 50% hands-on lab
- Individual enrollment available at convenient locations worldwide [www.vmware.com/education](http://www.vmware.com/education)
  - Contact your VMware representative for pricing information
- Onsite training available for companies that want the benefits of instructor-led classes without travel
  - Contact VMware Education to discuss facility requirements for onsite training

## Course Outline

### Module 1: Introduction

### Module 2: Virtual Infrastructure Overview

- Discussion of virtualization and virtual infrastructure components

### Module 3: ESX Server Installation

- Set-up of ESX Server

### Module 4: Networking

- Configuration of virtual switches, network connections and port groups

### Module 5: Storage

- Storage management technologies

### Module 6: VirtualCenter Installation

- Set-up of VirtualCenter components

### Module 7: VM Creation and Management

- Use of templates
- Use of VMware Converter Enterprise
- Manage using VMware VirtualCenter and Web Access
- Use of Guided Consolidation

### Module 8: Virtual Infrastructure Access Control

- Controlling administrator rights

### Module 9: Resource Management

- VMotion migrations
- Set-up of resource pools and a VMware Distributed Resources Scheduler (DRS) cluster
- Setting VM priorities on CPU, memory, and other resources

### Module 10: Resource Monitoring

- Workload assessment
- Monitoring using VMware VirtualCenter

### Module 11: Data and Availability Protection

- Backup strategies
- Set-up of a VMware High Availability (HA) cluster

### Module 12: Planning VI Deployment

- Guidelines and best practices for a basic deployment

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