

VMware vSphere: Install, Configure, Manage (V41)

Duration: 5 days

Overview

This hands-on training course explores installation, configuration, and management of VMware vSphere™, which consists of ESX/ESXi and vCenter Server. The course is based on ESX/ESXi 4.1 and vCenter Server 4.1. Completion of this course satisfies as a prerequisite to take the VMware Certified Professional 4 exam.

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

Course Objectives

- Install and configure ESX or ESXi
- Install and configure vCenter Server components
- Configure and manage ESX/ESXi networking and storage using vCenter Server
- Deploy, manage, and migrate virtual machines
- Manage user access to the VMware infrastructure
- Use vCenter Server to monitor resource usage
- Use vCenter Server to increase scalability
- Use VMware vCenter Update Manager to apply ESX/ESXi patches
- Use vCenter Server to manage higher availability and data protection

Target Audience

- System administrators
- Systems engineers
- Operators responsible for VMware® ESX™, ESXi, and VMware vCenter™ Server

Prerequisites

- System administration experience on Microsoft Windows or Linux operating systems

Course Outline

Course Introduction

- Introductions and course logistics
- Course objectives

Introduction to VMware Virtualization

- Introduce virtualization, virtual machines, and vSphere components

VMware ESX and ESXi

- Introduce the architecture of ESX and ESXi
- Manually configure ESX/ESXi

VMware vCenter Server

- Install and configure vCenter Server components
- Manage vCenter Server inventory objects

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Networking

- Create, configure, and manage vNetwork standard switches, network connections, and port groups

Storage

- Configure ESX/ESXi with iSCSI, NFS, and Fibre Channel storage
- Create and manage vSphere datastores

Virtual Machines

- Deploy virtual machines using the Create New Virtual Machine wizard, templates, cloning, and

VMware vCenter Converter

- Modify and manage virtual machines
- Perform Storage vMotion migrations

Access Control

- Control user access through roles and permissions

Resource Monitoring

- Control virtual machine access to CPU, memory, and I/O resources
- Introduce VMkernel methods for optimizing CPU and memory usage
- Monitor resource usage using vCenter Server performance graphs and alarms

Data Protection

- Back up and recover virtual machines using VMware Data Recovery

Scalability

- Manage multiple vCenter Server inventories using VMware vCenter Linked Mode
- Manage ESX/ESXi configuration compliance using Host Profiles
- Create, configure, and manage vNetwork distributed switches, network connections, and port groups
- Perform VMware vMotion™ migrations
- Configure and manage a VMware Distributed Resource Scheduler cluster
- Configure and manage VMware Distributed Power Management

High Availability

- Configure and manage a VMware High Availability cluster
- Configure fault-tolerant virtual machines using VMware Fault Tolerance Patch Management
- Manage patching and patch compliance using vCenter Update Manager

Installing VMware ESX and ESXi

- Introduce ESX and ESXi Installable installation