

VMware vSphere: Overview

Overview

This hands-on training course introduces the most compelling features of VMware® vSphere™ 4. This course demonstrates vSphere features that help to reduce your IT costs while improving efficiency, availability, flexibility, and manageability.

Course Objectives

By the end of the course, you should understand how to use vSphere core features, including:

- Using VMware vCenter™ Server to deploy virtual machines
- Performing live migrations of virtual machines
- Configuring VMware ESX™ clusters to automatically balance virtual machine workloads
- Hierarchically allocating CPU and memory resources to specific business functions
- Using vCenter Server alarms to proactively monitor the virtual datacenter
- Ensuring high availability of applications

Target Audience

This course is designed for technical persons responsible for evaluating ESX, ESXi, and vCenter Server, including IT managers, system architects, and system administrators.

Prerequisites

System administration experience on Microsoft Windows or Linux operating systems

Pricing and Scope

- One (1) day of instructor-led, classroom training
- 60% lecture, 40% hands-on lab
- Individual enrollment available at convenient locations worldwide.

For locations, please click the following link

<http://www.vmware.com/education>

- Contact your VMware representative for pricing information.
- Onsite training available for companies that want the benefits of an instructor-led classes without travel
- Contact VMware Education to discuss facility requirements for onsite training at education@vmware.com.



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Course Outline

Module 1: Course Introduction

Module 2: Virtual Infrastructure Overview

- Define virtualization and identify vSphere components
- Learn to use the vCenter Server management interface
- View virtual network and storage components

Module 3: Creating Virtual Machines

- Create and use templates to deploy virtual machines
- Automate guest operating system customization

Module 4: Allocating Compute Resources to Business Functions

- Hierarchically allocate CPU and memory resources
- Set virtual machine priorities on CPU and memory resources
- Create resource pools

Module 5: Migrating Virtual Machines

- Migrate live virtual machines using VMware VMotion™ and VMware Storage VMotion

Module 6: Balancing Virtual Machine Workloads

- Configure a VMware Distributed Resource Scheduler cluster and resource pools

Module 7: Monitoring the Virtual Datacenter

- Become familiar with vCenter Server graphs to monitor virtual machine performance
- Use vCenter Server alarms to monitor and proactively respond to ESX/ESXi and virtual machine state changes

Module 8: High Availability and Fault Tolerance

- Configure a VMware High Availability cluster
- Understand how VMware Fault Tolerance works

Module 9: Extending VMware vSphere Capabilities

- Discuss how different VMware products and features work together to reduce the costs and improve the efficiency, availability, flexibility, and manageability of your datacenter