

Virtual Infrastructure with ESX Server and VirtualCenter

Class Summary

- **Format: Lecture 50%, Lab 50%**
- **Duration: 4 days**

Overview

This hands-on training course explores VMware® ESX Server™, virtual infrastructure software for consolidating and partitioning servers in high-performance environments. This course covers the use of this product both by itself and also in conjunction with VMware VirtualCenter, virtual infrastructure management software.

Course Objectives

- Install and configure ESX Server, VMware VirtualCenter, and multiple guest virtual machines
- Create VMware virtual machines, network them and set their priorities for accessing resources
- Move and clone virtual machines
- Ensure high availability for applications inside virtual machines
- Monitor the state of the system and virtual machines
- Troubleshoot ESX Server in a systematic manner
- Deploy ESX Server and VMware VirtualCenter in alignment with VMware's best-practice recommendations

Who Should Attend?

This course is designed for system administrators and systems engineers who are responsible for the integration, administration and management of ESX Server. The course is suitable for both users of VMware VirtualCenter and ESX Server administrators.

Prerequisite

System administration experience on Microsoft Windows (2003, XP, 2000 or NT 4.0) or Linux.

Pricing

US \$2995 per attendee in open-enrollment courses.

Key Topics

- Installation, configuration and administration
- Virtual networking
- Storage area networks
- VMotion™
- Resource Management
- Security
- Backup and recovery
- Clustering

Course Outline

Module 1: Virtual Infrastructure Overview

- VMware products: functions and applications

Module 2: Installation and Configuration

- Set-up of ESX Server and VMware VirtualCenter

Module 3: Creation and Management of Virtual Machines

- Using ESX Server and VMware VirtualCenter

Module 4: VMFS and Storage Area Networks

- Storage Management technologies

Module 5: Networking

- Virtual switch configuration, NIC teaming, failover

Module 6: Resource Management

- Setting VM priorities on CPU, memory, etc.

Module 7: Virtual Machine Access Control

- Controlling administrator rights

Module 8: Deployment and Migration

- Cloning, use of templates, hot and cold migrations

Module 9: Monitoring Your Environment

- Workload assessment
- Service Console monitoring

Module 10: Disaster Preparedness

- Clustering, backups, failover

Module 11: Structure of ESX Server

- System architecture

Module 12: Troubleshooting

- Systematic isolation of problems
- Common symptoms, faults, fixes

Module 13: Virtual Infrastructure Deployment

- Sizing and deployment guidelines
- Best practices

FOR MORE INFORMATION PLEASE CONTACT VMWARE, INC. AT:

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