

VM-ESX4

VMware vSphere: Install, Configure, Manage [V4.1]

Summary

Duration

5 Days

Vendor

VMware

Category

Virtualization/VCP

Introduction

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.

Prerequisites

System administration experience on Microsoft Windows or Linux operating systems

Course Objectives

At the end of the course, you should gain an understanding of the functionality in VMware vSphere 4 and be able to:

- 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

Course Outline

Module 1: Course Introduction

Module 2: Introduction to VMware Virtualization

Introduce virtualization, virtual machines, and vSphere components

Module 3: VMware ESX and ESXi

Introduce the architecture of ESX and ESXi

Manually configure ESX/ESXi

Module 4: VMware vCenter Server

Install and configure vCenter Server components

Manage vCenter Server inventory objects

Module 5: Networking

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

Module 6: Storage

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

Module 7: 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

Module 8: Access Control

Controlling user access through roles and permissions

Module 9: 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

Module 10: Data Protection

Back up and recover virtual machines using VMware Data Recovery

Module 11: 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

Module 12: High Availability

Configure and manage a VMware High Availability cluster
Configure fault-tolerant virtual machines using VMware Fault Tolerance

Module 13: Patch Management

Manage patching and patch compliance using vCenter Update Manager

Module 14: Installing VMware ESX and ESXi

Introduce ESX and ESXi Installable installation

Target Audience

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

Associated Certifications & Exams

On successful completion of this course students will receive a Torque IT attendance certificate.

Upon completion of this course, you can take the examination to become a VMware Certified Professional. This course prepares delegates to take exam VCP410 - VMware Certified Professional on VI4.