



VMware vSphere: Overview

Duration: 1 Day **Course Code: VSO**

Overview:

This hands-on training course introduces the most compelling features of VMware vSphere® 5, which is the foundational component of the cloud infrastructure suite of software from VMware®. This course demonstrates vSphere features that help reduce your IT costs while improving efficiency, availability, scalability, flexibility, and manageability. The course is based on VMware ESXi™ 5.0 and VMware vCenter Server™ 5.0.

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.

Objectives:

- By the end of the course, you will be able to explain vSphere 5.0 storage, network, and virtualization concepts and have hands-on experience with the following:
 - Using the VMware vSphere® Client™ to deploy and manage virtual machine
 - Using VMware vSphere® vMotion® to migrate live virtual machines
 - Using vSphere Storage vMotion to migrate live virtual machine data
 - Configuring ESXi clusters to automatically balance virtual machine workloads
 - Hierarchically allocating CPU and memory resources to specific business functions
 - Using vCenter Server alarms and performance graphs to actively monitor the datacenter
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Prerequisites:

System administration experience on Microsoft Windows or Linux operating systems

Content:

Module 1 - Course Introduction

- Understand the course goals
- Understand the course objectives
- Become familiar with the course outline\

Module 2 - Virtual Infrastructure Overview

- Describe server virtualization concepts
- Identify vSphere components, including vCenter Server, ESXi, and the vSphere Client
- View and describe virtual network and storage components
- Learn to use the vSphere Client management interface

Module 3 - Creating Virtual Machines

- Describe virtual machine virtual hardware components
- Create and use templates to deploy virtual machines
- Describe the functionality and benefits of installing VMware Tools on virtual machines
- Automate guest operating system customization

Module 4 - Allocating Compute Resources to Business Functions

- Describe CPU and memory resource management techniques used in ESXi
- Use virtual machine resource controls to allocate CPU and memory resources
- Use resources pools to hierarchically allocate CPU and memory resources

Module 5 - Migrating Virtual Machines

- Describe the operation and benefits of vMotion and Storage vMotion
- Use vMotion to migrate a live virtual machine
- Use Storage vMotion to migrate a live virtual machine's data

Module 6 - Balancing Virtual Machine Workloads

- Describe the operation and scalability benefits of vSphere Distributed Resource Scheduler (DRS)
- Configure a DRS cluster and resource pools
- Describe the operation and scalability benefits of Storage DRS
- Configure a Storage DRS cluster
- Describe the operation and cost benefits of vSphere Distributed Power Management

Module 7 - Monitoring the Virtual Datacenter

- Describe vCenter Server monitoring capabilities, including performance graphs and alarms
- Use performance graphs to monitor ESXi hosts
- Configure ESXi host and virtual machine alarms

Module 8 - High Availability and Fault Tolerance

- Describe the operation and availability benefits of vSphere High Availability
- Configure a vSphere HA cluster
- Describe the operation and availability benefits of VMware Fault Tolerance
- Configure a virtual machine for fault tolerance

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

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 01924 377489

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