
VMware vSphere: Install, Configure, Manage

Duration: 5 **Course Code: VSICM**

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 advanced vSphere courses.

Target Audience:

System administrators Systems engineers Operators responsible for ESXi, ESX, and/or vCenter Server

Objectives:

- At the end of the course, you should gain an understanding of the functionality in VMware vSphere 4.1 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
 - Monitor resource usage using vCenter Server Increase scalability using vCenter Server
 - Apply ESX/ESXi patches using VMware vCenter
 - Update Manager Manage higher availability and data protection using vCenter Server
 - Best practices and lab exercises are interspersed throughout the course.
-

Prerequisites:

Delegates should meet the following prerequisites:

- System administration experience on Microsoft Windows or Linux operating systems

Testing and Certification

Recommended preparation for exam :

- VCP-4 -VMware Certified Professional
-

Follow-on-Courses:

Customers who attended the VSICM also attended:

- VMware vSphere 4: Troubleshooting (VST)
 - VMware vSphere 4: Manage for Performance (VSMP)
 - VMware vSphere 4: Design Workshop (VSD)
 - VMware vSphere 4: Manage and Design for Security (VSMDS)
 - VMware View 4: Install, Configure & Manage (VMVIEW4)
-

Content:

Module 1: Course Introduction

Module 2: Introduction to VMware Virtualization

- Introduce virtualization, the cloud, and vSphere components

Module 3: Configuring ESX/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: vNetwork Standard Switches

- 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

- Control 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

Additional Information:

Further Information:

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

info@globalknowledge.co.uk

www.globalknowledge.co.uk

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK