

HP Education Services Course Overview

VMware vSphere: Install, Configure, Manage (HH633S)



This 5-day hands-on training course explores installation, configuration, and management of VMware® vSphere™, which consists of VMware ESX™/ESXi and VMware vCenter™ Server. The course is based on ESX/ESXi 4 and vCenter Server 4. Upon completion of this course, you can take the examination to qualify as a VMware Certified Professional. Students who complete this course may enroll in any of several more-advanced vSphere courses.

Audience

System administrators, systems engineers, and operators responsible for ESXi, ESX, and vCenter Server

Prerequisites

System administration experience on Microsoft Windows or Linux operating systems.

Course objective

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
- Monitor resource usage using vCenter Server
- Increase scalability using vCenter Server
- Monitor resource usage using vCenter Server
- Apply ESX/ESXi patches using VMware vCenter Update Manager

Course title: VMware vSphere: Install, Configure, Manage

HP product number: HH633S

Category/Subcategory: VMware

Course length: 5 days

Level: Intermediate

Delivery language: English

To order: You can order this course online at <http://www.hp.com/learn>. At the site, select a country, then choose "registration" or "Book a course" and fill out the online registration form.

- Manage higher availability and data protection using vCenter Server
- Best practices and lab exercises are interspersed throughout the course.

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Detailed course outline

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
- 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: Patch Management

- Manage patching and patch compliance using vCenter Update Manager

Module 13: High Availability and Fault Tolerance

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

Module 14: Installing VMware ESX and ESXi

- Introduce ESX and ESXi Installable installation

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