



VMware vSphere: Skills for Operators [V6.0] H9P80S

This 2-day technical classroom training course is designed to help operators and administrators who create and manage virtual machines. By combining lecture and hands-on labs the course will help you gain the skills required to work effectively with VMware virtual machines. This course is based on VMware ESXi™ 6.0 and VMware vCenter Server™ 6.0.

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Price USD \$1,600

Links to local schedules, pricing and registration [US/Canada](#) [Mexico/Latin America](#) [Brazil](#)

HP course # H9P80S

Category VMware

Duration 2 days

Audience

- Technical professionals with system administration skills and operators responsible for managing virtual machines using ESXi and vCenter Server

Prerequisites

- System administration experience on Microsoft, Linux, Solaris
- Understanding of basic network and storage concepts

Course objectives

By the end of the course, you should be able to meet the following objectives:

- Describe virtualization, virtual machines, and vSphere components
- Describe the concepts of server, network, storage, and desktop virtualization
- Deploy, configure, clone, and manage virtual machines
- Use vCenter Server to monitor virtual machine resource usage
- Use VMware vSphere® vApp(s)™ to bundle and manage multiple interoperating virtual machines and software applications
- Use VMware vSphere® vMotion® and VMware vSphere® Storage vMotion® to migrate virtual machines
- Use VMware vSphere® Distributed Resource Scheduler™, VMware vSphere® High Availability, VMware vSphere® Fault Tolerance, VMware vSphere® Data Protection™, and VMware vSphere® Replication™ to optimize the performance of your vSphere virtual environment

Course outline

Module 1: Course Introduction

- Introductions and course logistics
- Course goals and objectives
- Online vSphere resources
- Location of online vSphere documentation

Module 2: VMware Virtualization Overview

- Identify the differences between traditional and virtual architecture
- Identify the infrastructure components that can be virtualized
- Describe VMware virtualization concepts
- Describe the components of vSphere
- Describe the inventory objects managed by vSphere
- Identify the components of vCenter Server

Module 3: vSphere Client and vSphere Web Client

- Identify the differences between the VMware vSphere® Web Client and VMware vSphere® Client™ interfaces
- Access and navigate through the vSphere Web Client interface
- Use vSphere Web Client to monitor and manage vSphere objects
- Perform searches in vSphere Web Client
- Remove stored data from vSphere Web Client
- Apply roles and permissions to users and user groups

Module 4: Creating and Managing Virtual Machines

- Create and manage virtual machines
- Install a guest operating system and VMware Tools™
- Explain how to use clones and templates to manage virtual machines
- Explain the importance of content libraries
- Configure virtual machines
- Manage virtual machines using snapshots
- Explain how raw device mapping (RDM) allows a virtual machine to directly access and use a storage device

Module 5: Monitor Virtual Machine Resources

- Explain virtual machine resource monitoring concepts
- Monitor virtual machine resource usage using vCenter Server performance graphs and alarms
- Describe and monitor tasks
- Describe, monitor, and manage events
- Describe, monitor, manage, and acknowledge alarms

Module 6: Using vSphere vApp(s)

- Describe vApp(s)
- Explain the benefits of vApp(s)
- Create, edit, and manage a vApp
- Clone a vApp
- Manage the power status of a vApp

Module 7: Migrating Virtual Machines

- Describe the types of migration
- Explain the importance of vSphere vMotion
- Identify the host and virtual machine requirements for vSphere vMotion
- Explain how to migrate virtual machines using vSphere vMotion
- Explain how to migrate storage with vSphere Storage vMotion
- Explain how to migrate virtual machines across virtual switches, vCenter Server systems, and long distances

Module 8: Using vSphere for Scalability and Business Continuity

- Explain how vSphere DRS can be used to optimize the performance of the hosts and virtual machines in a cluster
- Explain how vSphere HA can be used to increase the availability of your virtual machines
- Explain how vSphere FT can be used for continuous availability of a virtual machine
- Explain how vSphere Data Protection and vSphere Replication can be used to replicate backup and restore data in your virtual environment

Learn more at

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