

# VMware vSphere: Skills for Operators

## Delivery Methods

- Classroom
- Live Online
- [Onsite](#)

## Course Duration

- Two (2) days of instructor-led classroom training (8-hour days)
- 50% lecture, 50% hands-on lab

## Target Audience

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

## Course Suitability

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Administrator | <input type="checkbox"/> Expert                  |
| <input type="checkbox"/> Engineer                 | <input type="checkbox"/> Advanced                |
| <input type="checkbox"/> Architect                | <input checked="" type="checkbox"/> Professional |
|   | <input type="checkbox"/> Fundamentals            |

## Prerequisites

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

## Certification

For more information, go to [VMware Certification](#).

## Pricing

Contact your VMware representative or a VMware Authorized Training Center™ for pricing information.

## More Information

Courses are conveniently scheduled around the world. Go to [VMware Education](#) to find the class that is right for you.



## Course Overview

This two-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.

After completing this course, you may enroll in advanced VMware vSphere® courses. For advanced vSphere course options, go to <http://www.vmware.com/education>.

## Course Objectives

The objective of this course is to provide you with a strong understanding of VMware virtual machine features in vSphere 6.0. 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 Modules

<p><b>1 Course Introduction</b></p> <ul style="list-style-type: none"> <li>• Introductions and course logistics</li> <li>• Course goals and objectives</li> <li>• Online vSphere resources</li> <li>• Location of online vSphere documentation</li> </ul>	<p><b>5 Monitor Virtual Machine Resources</b></p> <ul style="list-style-type: none"> <li>• Explain virtual machine resource monitoring concepts</li> <li>• Monitor virtual machine resource usage using vCenter Server performance graphs and alarms</li> <li>• Describe and monitor tasks</li> <li>• Describe, monitor, and manage events</li> <li>• Describe, monitor, manage, and acknowledge alarms</li> </ul>
<p><b>2 VMware Virtualization Overview</b></p> <ul style="list-style-type: none"> <li>• Identify the differences between traditional and virtual architecture</li> <li>• Identify the infrastructure components that can be virtualized</li> <li>• Describe VMware virtualization concepts</li> <li>• Describe the components of vSphere</li> <li>• Describe the inventory objects managed by vSphere</li> <li>• Identify the components of vCenter Server</li> </ul>	<p><b>6 Using vSphere vApp(s)</b></p> <ul style="list-style-type: none"> <li>• Describe vApp(s)</li> <li>• Explain the benefits of vApp(s)</li> <li>• Create, edit, and manage a vApp</li> <li>• Clone a vApp</li> <li>• Manage the power status of a vApp</li> </ul>
<p><b>3 vSphere Client and vSphere Web Client</b></p> <ul style="list-style-type: none"> <li>• Identify the differences between the VMware vSphere® Web Client and VMware vSphere® Client™ interfaces</li> <li>• Access and navigate through the vSphere Web Client interface</li> <li>• Use vSphere Web Client to monitor and manage vSphere objects</li> <li>• Perform searches in vSphere Web Client</li> <li>• Remove stored data from vSphere Web Client</li> <li>• Apply roles and permissions to users and user groups</li> </ul>	<p><b>7 Migrating Virtual Machines</b></p> <ul style="list-style-type: none"> <li>• Describe the types of migration</li> <li>• Explain the importance of vSphere vMotion</li> <li>• Identify the host and virtual machine requirements for vSphere vMotion</li> <li>• Explain how to migrate virtual machines using vSphere vMotion</li> <li>• Explain how to migrate storage with vSphere Storage vMotion</li> <li>• Explain how to migrate virtual machines across virtual switches, vCenter Server systems, and long distances</li> </ul>
<p><b>4 Creating and Managing Virtual Machines</b></p> <ul style="list-style-type: none"> <li>• Create and manage virtual machines</li> <li>• Install a guest operating system and VMware Tools™</li> <li>• Explain how to use clones and templates to manage virtual machines</li> <li>• Explain the importance of content libraries</li> <li>• Configure virtual machines</li> <li>• Manage virtual machines using snapshots</li> <li>• Explain how raw device mapping (RDM) allows a virtual machine to directly access and use a storage device</li> </ul>	<p><b>8 Using vSphere for Scalability and Business Continuity</b></p> <ul style="list-style-type: none"> <li>• Explain how vSphere DRS can be used to optimize the performance of the hosts and virtual machines in a cluster</li> <li>• Explain how vSphere HA can be used to increase the availability of your virtual machines</li> <li>• Explain how vSphere FT can be used for continuous availability of a virtual machine</li> <li>• Explain how vSphere Data Protection and vSphere Replication can be used to replicate backup and restore data in your virtual environment</li> </ul>



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