

# VMware vSphere: Practitioner Workshop

## Course Overview

In this three-day workshop, students perform various tasks that a system administrator performs on a regular basis. These tasks include updating and upgrading an existing basic VMware vSphere® environment and troubleshooting common problems. Students apply the concepts learned during the VMware vSphere: Install, Configure, Manage [V6.7] course while they increase their skill and competence.

## Course Objectives

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

- Explore VMware vSphere® Distributed Switch™ configuration options
- Construct a vSphere Distributed Switch for VMware vSphere® vMotion® and VM Traffic
- Discuss vSphere storage concepts
- Differentiate between VMware vSphere® VMFS and NFS datastores
- Construct an iSCSI VMkernel Interface on a vSphere Distributed Switch
- Create VMFS datastores
- Describe the architecture and requirements of vSAN configuration
- Explain how to create and use vSAN disk groups and storage policies
- Discuss vSphere vMotion migration workflow
- Discuss VMware vSphere® Storage vMotion® migration workflow
- Complete virtual machine storage migrations
- Automate virtual machine migrations using VMware vSphere® Distributed Resource Scheduler™
- Configure vSphere DRS groups and rules
- Discuss VMware vCenter Server® migration paths
- Complete a migration of Windows vCenter Server to VMware vCenter® Server Appliance™
- Discuss VMware vSphere® Update Manager™ concepts
- Perform VMware ESXi™ hosts upgrades using vSphere Update Manager
- Employ host profiles to configure an ESXi host
- Configure VMware vSphere® High Availability
- Demonstrate the ESXi Cluster Quickstart feature
- Create a content library
- Create a virtual machine template
- Create customization specifications
- Deploy a virtual machine from a template in the content library
- Clone virtual machines
- Configure vCenter Server Appliance backup
- Restore a vCenter Server Appliance from a backup
- Forward vCenter Server Appliance log files to Remote Syslog Server
- Configure VMware vCenter Server® High Availability

## Target Audience

System administrators and engineers, with beginner to intermediate knowledge of vSphere, who want to gain proficiency in the management of the vSphere lifecycle.

## Prerequisites

Completion of the [VMware vSphere: Install, Configure, Manage \[V6.7\]](#) course

## Course Delivery Options

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

## Product Alignment

- ESXi 6.7
- vCenter Server 6.7

## Course Modules

### 1 Course Introduction

- Introductions and course logistics
- Overview of modules and course objectives

### 2 vSphere Networking

- Describe vSphere Distributed Switch architecture
- Create and configure a vSphere Distributed Switch for virtual machine and vMotion traffic
- Migrate vSphere networking interfaces to a vSphere Distributed Switch

### 3 vSphere Storage

- Identify storage protocols and iSCSI storage components
- Create and manage VMFS and NFS datastores
- Explain how multipathing works with iSCSI
- Describe vSAN disk groups and storage policies

### 4 vSphere vMotion

- Perform vSphere Storage vMotion migrations
- Use vSphere DRS clusters to improve host scalability
- View information about a vSphere DRS cluster
- Configure DRS groups and rules

### 5 vSphere Upgrade

- Discuss vCenter Server migration paths and steps
- Migrate and upgrade vCenter Server for Windows to vCenter Server Appliance
- Describe the architecture, components, and capabilities of vSphere Update Manager
- Use vSphere Update Manager to manage the update of ESXi hosts

### 6 vSphere Cluster Operations

- Add ESXi hosts to vCenter Server
- Describe and use host profiles
- Customize ESXi host configuration
- Configure and manage a vSphere HA cluster
- Create and customize a cluster using the Quickstart workflow
- Configure VMware vSAN™ in a cluster

### 7 Virtual Machine Management

- Define and use content libraries
- Use templates and cloning to deploy new virtual machines
- Use customization specification files to customize a new virtual machine

### 8 Native Features of vCenter Server Appliance

- Access and configure the vCenter Server Appliance management interface
- Create a vCenter Server Appliance backup schedule
- Restore vCenter Server Appliance from a backup
- Configure vCenter Server High Availability

## Contact

If you have questions or need help registering for this course, click [here](#).



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