
VMware vSphere Fast Track Program

Duration: 5 Days **Course Code: VSFT** **Version: 6.0**

Overview:

This intensive, extended-hours course combines instructor training with hands-on labs to focus on how to install, configure, manage, and troubleshoot VMware vSphere® 6, including VMware ESXi™ 6 and VMware vCenter Server™ 6. This course combines the content of the VMware vSphere: Install, Configure, Manage course with troubleshooting skills needed for maintaining highly available and scalable vSphere environments. Students gain practical experience with these concepts through the completion of hands-on labs. Completion of this course satisfies the prerequisite for taking the VMware Certified Professional 6 – Data Center Virtualization (VCP6-DCV) exam.

Target Audience:

New and experienced system administrators, systems engineers, and system integrators willing to work hard to achieve superior vSphere skills with minimal time away from the office

Objectives:

- Deploy an ESXi host and create virtual machines
 - Deploy a vCenter Server instance or VMware vCenter™ Server Appliance™
 - Configure and manage the vSphere infrastructure with the VMware vSphere® Client™ and the VMware vSphere® Web Client
 - Configure virtual networks with vSphere standard switches
 - Describe and use a content library
 - Migrate virtual machines with VMware vSphere® vMotion®
 - Use VMware vSphere® Storage vMotion® to migrate virtual machine storage
 - Use VMware vRealize™ Operations Manager™ to identify and solve issues through analytics and alerts
 - Manage VMware vSphere® High Availability and VMware vSphere® Fault Tolerance
 - Use VMware vSphere® Replication™ and VMware vSphere® Data Protection™ to replicate virtual machines and perform data recovery
 - Use VMware vSphere® Distributed Resource Scheduler™ clusters to improve host scalability
 - Use vSphere distributed switches to improve network scalability
 - Use VMware vSphere® Update Manager™ to apply patches
 - Perform basic troubleshooting of ESXi hosts, virtual machines, vCenter Server, virtual networking, virtual storage, and other vSphere operations
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Prerequisites:

- System administration experience on Microsoft Windows or Linux operating systems
 - Understanding of concepts presented in the VMware Data Center Virtualization Fundamentals course or VCA-DCV certification
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Content:

Course Introduction

- Introductions and course logistics
- Course objectives

Software-Defined Data Center

- Introduce virtualization and vSphere components
- Explain the concepts of server, network, and storage virtualization
- Describe where vSphere fits into the cloud architecture
- Install and use vSphere user interfaces
- Describe the ESXi architecture and configure various ESXi settings

Creating Virtual Machines

- Introduce virtual machines, virtual machine hardware, and virtual machine files
- Deploy a single virtual machine
- Explain the importance of VMware Tools™
- Describe how to import an OVF template

VMware vCenter Server

- Introduce vCenter Server architecture
- Introduce vCenter Server Appliance
- Install and configure vCenter Server Appliance
- Use the vSphere Web Client
- Configure VMware vCenter™ Single Sign-On™ and VMware Platform Services Controller™
- Manage vCenter Server inventory objects and licenses

Troubleshooting vSphere

- Use a structured approach to troubleshoot issues in vSphere
- Discuss options for running vSphere commands
- Locate and use important vSphere log files

Configuring and Managing Virtual Networks

- Describe, create, and manage a standard switch
- Describe and modify standard switch properties
- Describe the NIC teaming of a standard switch port group
- Describe, create, and manage a distributed switch
- Troubleshoot virtual networking

Configuring and Managing Virtual Storage

- Introduce storage protocols and device names
- Configure ESXi with iSCSI, NFS, and Fibre Channel storage
- Create and manage vSphere VMFS datastores
- Introduce VMware Virtual SAN™ datastores
- Troubleshoot virtual storage

Virtual Machine Management

- Use templates and cloning to deploy virtual machines
- Modify and manage virtual machines
- Create and manage virtual machine snapshots
- Perform vSphere vMotion and vSphere Storage vMotion migrations
- Create VMware vSphere® vApp™
- Describe the types of content libraries
- Troubleshoot virtual machines and snapshots

Resource Management and Monitoring

- Introduce virtual CPU and memory concepts
- Describe methods for optimizing CPU and memory usage
- Configure and manage resource pools
- Use vCenter Server performance graphs and alarms to monitor resource usage
- Use vRealize Operations Manager to manage a software-defined data center
- Troubleshoot ESXi and vCenter Server

vSphere HA and vSphere FT

- Explain the vSphere HA architecture
- Configure and manage a vSphere HA cluster
- Set vSphere HA advanced parameters
- Enable vSphere FT on a virtual machine
- Describe vSphere Replication and vSphere Data Protection
- Troubleshoot vSphere HA

Host Scalability with vSphere DRS

- Describe the functions of a vSphere DRS cluster
- Create a vSphere DRS cluster
- View information about a vSphere DRS cluster
- Troubleshoot vSphere DRS clusters

vSphere Update Manager and Host Maintenance

- Describe, install, and configure vSphere Update Manager
- Describe and use host profiles
- Use baselines and remediate ESXi hosts
- Perform patch management

Installing vSphere Components

- Describe how to install ESXi interactively
- Identify the basic requirements for an ESXi host to boot from SAN
- Identify system requirements to install vCenter Server
- Install vCenter Server on a supported Windows system

Further Information:

For More information, or to book your course, please call us on 353-1-814 8200

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