VMware vSphere: Fast Track [V6]

5 Days

Fast track courses are exhaustive and extended hours of training that involve instructor-led classes accompanied by hands-on lab experiences.

The VMware vSphere fast track V6 Training & Certification course provides the skills to install, configure, manage and troubleshoot the VMware vSphere 6 which includes the VMware ESXi 6 and VMware vCenter Server 6.

This course combines the curriculum of VMware VSphere Install Configure & Manage 6 along with the troubleshooting expertise needed to diagnose and resolve operational failures.

Course Details
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Course Outline

1. Course Introduction

- Course logistics & Introduction
- Course Objectives

2. Software-Defined Data Center

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

3. Creating Virtual Machines

- Introduction of Virtual Machines, Virtual Machine Hardware, and virtual machine files
- Deploy a single virtual machine
- Learn how to import an OVF template
- Explain the importance of VMware Tools™

4. vCenter Server

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

5. Troubleshooting vSphere

- A Structured approach to troubleshooting issues in vSphere
- Locate and use important vSphere log files
- Discuss options for running vSphere commands

6. Configuring and Managing Virtual Networks

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

7. Configuring and Managing Virtual Storage

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

8. Virtual Machine Management

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

9. Resource Management and Monitoring

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

10. vSphere HA and vSphere Fault Tolerance

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

11. Host Scalability

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

12. vSphere Update Manager and Host Maintenance

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

Who Should Attend

This VMware fast-track training course is ideal for those working with the profiles of:

- New and experienced system administrators,
- Systems engineers,
- System integrators seeking superior vSphere skills

Pre Requisite

Required prerequisites include completion of one of the following:

- 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

Exams

VMware Certified Professional (VCP) [VCP6-DCV]

VMware Certified Associate (VCA) [VCA]

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