



VMware vSphere: Boot Camp [V4.1]

Duration: 5 Days

Course Description

Training 12 hours per day in this intensive course, you will install, configure, manage, and troubleshoot a VMware® vSphere™ infrastructure. This VMware Boot Camp combines the content of VMware vSphere: Install, Configure, Manage with advanced tasks and skills for troubleshooting a highly available and scalable virtual infrastructure. You will learn to diagnose and resolve configuration problems created on VMware ESX™/ESXi hosts and VMware vCenter™ Server systems.

Completion of this course satisfies as a prerequisite to take the VMware Certified Professional 4 exam.

Certification

This course is recommended for VMware Certified Professional on vSphere 4 - Datacenter Administration Certification (VCAP4-DCA)

Audience

Experienced system administrators, system integrators, or system engineers willing to participate in a demanding, high-intensity, and fast-paced training experience that requires minimal time away from the office

Prerequisites

Experience administering Microsoft Windows or Linux operating systems
Experience entering commands at a command-line prompt]

Course Outline

1. Introduction to VMware Virtualization

- Role of vSphere in the datacenter and the cloud

2. Configuring ESX/ESXi

- Architecture of ESXi/ESX
- Configuration tasks

3. Installing and Using VMware vCenter Server

- vCenter Server architecture and components
- vCenter Server installation
- vCenter Server inventory building

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4. Networking

- vNetwork standard switch components, configuration, and property modification

5. Storage

- VMware FC, iSCSI, NAS storage technologies
- VMFS datastores

6. Virtual Machines

- Virtual machine hardware and creation
- Templates and clones
- Use of vCenter Converter
- Dynamically increasing the size of VM virtual disk and raw device mapping
- VM snapshots and storage vMotion

7. Access Control

- Permissions and custom role creation

8. Resource Monitoring

- CPU, memory, and storage I/O allocation settings
- Resource pools
- Monitoring VM resource usage
- Alarm management

9. Data Protection

- VMware Data Recovery

10. Scalability

- vCenter Linked Mode
- Host Profiles
- vNetwork Distributed Switches
- vMotion
- Distributed Resource Scheduler clusters
- Distributed Power Management

11. Availability

- VMware High Availability clusters
- VMware Fault Tolerance

12. Patch Management

- VMware vCenter Update Manager

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13. ESXi/ESX Installation

- Interactive and scripted installation methods

14. ESXi Command-Line Troubleshooting

- Configuring vSphere Management Assistant virtual appliance
- ESXi troubleshooting tools and methodology

15. ESXi/ESX and vCenter Log Files

- Primary log files
- Syslog service
- Centralized loghost configuration

16. Network Troubleshooting

- vNetwork Distributed Switch PVLAN configuration and troubleshooting
- Command-line examination of ESXi/ESX network information
- Network traffic capture and analysis

17. Management Troubleshooting

- Management problems caused by network, firewall, service, agent, and permission errors

18. Storage Troubleshooting

- Command-line examination of ESXi/ESX storage information
- Software iSCSI multipathing configuration
- Path masking configuration

19. vMotion and Storage vMotion Troubleshooting

20. Infrastructure Troubleshooting

- Troubleshooting DRS and HA clusters
- Troubleshooting virtual machines