VMware Certified
Professional 6.05
Data Center Virtualization
(VCP-5DCV)

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VMware vSphere: Install, Configure, Manage [V 6.5]

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

Outline:

1-Course Introduction
- Introductions and course logistics
- Course objectives

2-Virtualized Data Center
- Introduce components of the virtualized data center
- Describe where vSphere fits into the cloud architecture
- Install and use vSphere Client

3-Creating Virtual Machines
- Introduce virtual machines, virtual machine hardware, and virtual machine files
- Deploy a single virtual machine

4-VMware vCenter Server
- Introduce the vCenter Server architecture
- Introduce VMware® vCenter™ Single Sign-On™
- Install and use vSphere Web Client
- Introduce VMware® vCenter™ Server Appliance™
- Configure and manage vCenter Server Appliance
- Manage vCenter Server inventory objects and licenses

5-Configuring and Managing Virtual Networks
- Describe, create, and manage a standard switch
- Describe and modify standard switch properties
- Configure virtual switch load-balancing algorithms

6-Configuring and Managing Virtual Storage
- Introduce storage protocols and device names
- Configure ESXi with iSCSI, NFS, and Fibre Channel storage
- Create and manage vSphere datastores
- Deploy and manage VMware® Virtual SAN™

7-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 a VMware vSphere® vApp™

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Outline:

8-Access and Authentication Control
○ Control user access through roles and permissions
○ Configure and manage the ESXi firewall
○ Configure ESXi lockdown mode
○ Integrate ESXi with Active Directory

9-Resource Management and Monitoring
○ Introduce virtual CPU and memory concepts
○ Describe methods for optimizing CPU and memory usage
○ Configure and manage resource pools
○ Monitor resource usage using vCenter Server performance graphs and alarms

10-High Availability and Fault Tolerance
○ Introduce the new vSphere High Availability architecture
○ Configure and manage a vSphere HA cluster
○ Introduce vSphere Fault Tolerance
○ Describe VMware vSphere® Replication

11-Scalability
○ Configure and manage a VMware vSphere® Distributed Resource Scheduler™ (DRS) cluster
○ Configure Enhanced vMotion Compatibility
○ Use vSphere HA and DRS together

12-Installing VMware Components
○ Introduce ESXi installation
○ Describe boot-from-SAN requirements
○ Introduce vCenter Server deployment options
○ Describe vCenter Server hardware, software, and database requirements
○ Install vCenter Server (Windows-based)

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