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**VMWARE VSPHERE: INSTALL,
CONFIGURE, MANAGE [V6]**

MBPS Infotech, Near Shrushti Hotel, Sudarshannagar, Pimplegurav, Pune-411061

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Intended Audience:

- System administrators
- Systems engineers

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
- References and resources

2. Software-Defined Data Center

- Introduce components of the software-defined data center
- Describe where vSphere fits into the cloud architecture
- Install and use vSphere Client
- Overview of ESXi

3. Creating Virtual Machines

- Introduce virtual machines, virtual machine hardware, and virtual machine files
- Create and work with virtual machines and templates

4. vCenter Server

- Introduce the vCenter Server architecture
- Deploy and configure vCenter Server Appliance
- Use vSphere Web Client
- Manage vCenter Server inventory objects and licenses

5. Configuring and Managing Virtual Networks

- Describe, create, and manage standard switches
- Configure virtual switch security and load-balancing policies
- Create, configure, and manage vSphere distributed switches, network connections, and port groups

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6. Configuring and Managing Virtual Storage

- Introduce storage protocols and storage device types
- Discuss ESXi hosts using iSCSI and NFS storage
- Create and manage VMFS and NFS datastores
- Introduce VMware Virtual SAN™
- Introduce Virtual Volumes

7. Virtual Machine Management

- Use templates and cloning to deploy new virtual machines
- Modify and manage virtual machines
- Perform vSphere vMotion and vSphere Storage vMotion migrations
- Create and manage virtual machine snapshots
- Create vApps
- Introduce the types of content libraries and how to deploy and use them
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8. Resource Management and Monitoring

- Introduce virtual CPU and memory concepts
- Configure and manage resource pools
- Describe methods for optimizing CPU and memory usage
- Use various tools to monitor resource usage
- Create and use alarms to report certain conditions or events
- Identify and troubleshoot virtual machine resource issues
- Introduce vRealize Operations Manager for data center monitoring and management

9. vSphere HA and vSphere Fault Tolerance

- Explain the vSphere HA architecture
- Configure and manage a vSphere HA cluster
- Use vSphere HA advanced parameters
- Introduce vSphere Fault Tolerance
- Enable vSphere Fault Tolerance on virtual machines
- Introduce vSphere Replication
- Use vSphere Data Protection to back up and restore data

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10. Host Scalability

- Describe the functions and benefits of a vSphere DRS cluster
- Configure and manage a vSphere DRS cluster
- Work with affinity and anti-affinity rules
- Use vSphere HA and vSphere DRS together for business continuity

11. vSphere Update Manager and Host Maintenance

- Use vSphere Update Manager to manage ESXi patching
- Install vSphere Update Manager and the vSphere Update Manager plug-in
- Create patch baselines
- Use host profiles to manage host configuration compliance
- Scan and remediate hosts

12. Installing vSphere Components

- Install ESXi
- Introduce vCenter Server deployment options
- Describe vCenter Server hardware, software, and database requirements
- Discuss installation of vCenter Server Appliance and a vCenter Server instance
- Demonstrate vCenter Server installation

