5 Days

VMware vSphere : Install, Configure, Manage [V6]

VMware being the world leader in imparting knowledge and training of virtualization infrastructure has lately introduced its new VMware vSphere Install, Configure, Manage 6.0 training and certification course that focalizes on installing, configuring and managing the vSphere 6.0 foundation.

The course is inclusive of VMware ESXi™ 6 and VMware vCenter Server™ 6, providing wide-array dimensions of application virtualization, data center simplification and operational efficiency.

Mercury Solutions is the trusted authorized partner to VMware that provides you ease of enrollment and participation to VMware vSphere Install, Configure, Manage [6.0] course facilitating worthwhile training experiences that help you achieve an unrivaled growth in your career.

Course Details

Course Outline

1. Introduction

- Defining course logistics
- Course Objectives
- References and resources

2. Software-Defined Data Center

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

3. Creating Virtual Machines

- Introduction to virtual machines, virtual machine hardware, and virtual machine files
- Building and managing virtual machines and templates

4. vCenter Server

- Introduction to vCenter Server architecture
- Explore and manage vCenter Server Appliance
- Utilize vSphere Web Client
- Control vCenter Server inventory objects and licenses

5. Configuring and Managing Virtual Networks

- Explore, build and manage standard switches
- Administer virtual switch security and load-balancing policies
- Build, configure, and manage vSphere distributed switches, network connections, and port groups

6. Configuring and Managing Virtual Storage

- Introduction to storage protocols and storage device types
- Confer ESXi hosts using iSCSI and NFS storage
- Build and manage VMFS and NFS datastores
- Introduction to VMware Virtual SAN™
- Introduction to Virtual Volumes

7. Virtual Machine Management

- Utilize templates and cloning to manage new virtual machines
- Administer to virtual machines
- Perform vSphere vMotion and vSphere Storage vMotion migrations
- Build and work on virtual machine snapshots
- Create vApps
- Introduction to types of content libraries and how to deploy them

8. Resource Management and Monitoring

- Introduction to virtual CPU and memory concepts
- Build and manage resource pools
- Explore methods for optimizing CPU and memory usage
- Deploy various tools to monitor resource usage
- Build and utilize alarms to report certain conditions or events
- Identify and troubleshoot virtual machine resource issues
- Introduction to vRealize Operations Manager for data center monitoring and management

9. vSphere HA and vSphere Fault Tolerance

- Describe the vSphere HA architecture
- Arrange and manage a vSphere HA cluster
- Deploy vSphere HA advanced parameters
- Introduction to vSphere Fault Tolerance
- Enable vSphere Fault Tolerance on virtual machines
- Introduction to vSphere Replication
- Utilize the vSphere Data Protection to backup and restore data

10. Host Scalability

- Define the functions and benefits of a vSphere DRS cluster
- Build and work on a vSphere DRS cluster
- Work with affinity and anti-affinity rules
- Utilize vSphere HA and vSphere DRS together for business mobility

11. vSphere Update Manager and Host Maintenance

- Utilize the vSphere Update Manager to manage ESXi mending
- Installation of vSphere Update Manager and the vSphere Update Manager plug-in
- Create patch baselines
- Utilize host profiles to manage host configuration compliance
- Scan and repair hosts

12. Installing vSphere Components

- Install ESXi
- Introduction to vCenter Server deployment options
- Define vCenter Server hardware, software, and database requirements
- Confer installation of vCenter Server Appliance and a vCenter Server instance
- Demonstrate vCenter Server installation

Who Should Attend

The VMware vSphere Install, Configure, Manage 6.0 training course is ideal for those working with the profiles of:

- Virtualization Administrators
- Systems Engineers
- Operations Team
- vSphere Consultants

Pre Requisite

Required prerequisites include completion of one of the following:

- Deploy an ESXi host
- Experience of System administration on Linux operating systems or Microsoft Windows.
- Knowledge of concepts in the VMware Data Center Virtualization Fundamentals course for VCA-DCV certification

Exams

VMware Certified Professional (VCP) [VCP6-DCV]

VMware Certified Associate (VCA) [VCA]

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Date - Oct 30, 2026