

5 Days

## VMware vSphere: Install, Configure, Manage [V5.5]

VMware vSphere Install, Configure, Manage [V5.5] training and certification course focuses on providing the skills to install, configure and manage the VMware vSphere. This course covers the various features and processes of the ESXi 5.5 and vCenter Server 5.5 hosts.

The VMware vSphere ICM V5.5 Certification will qualify you to manage the hosts, storage, and networking of the ESXi host using the vCenter Server, manage virtual machines, monitor resource usage and manage access control on the vSphere architecture.

Completion of the training course will validate the potency of the candidate for VMware Certified Professional - Datacenter Virtualization (VCP5-DCV) Exam.

## Course Details

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### Course Outline

#### 1. Course Introduction

- Introduction to course logistics
- Course objectives

#### 2. Virtualized Data Center

- Defining components of the virtualized data center
- Describing where vSphere fits into the cloud architecture
- Installation and use vSphere Client

#### 3. Creating Virtual Machines

- Deploying a single virtual machine
- Introduction of virtual machines, virtual machine files, and virtual machine hardware

#### 4. VMware vCenter Server

- Introduction to the vCenter Server architecture
- Introduction to VMware® vCenter™ Single Sign-On™
- Introduction VMware® vCenter™ Server Appliance™
- Installation and use vSphere Web Client
- Configure and manage vCenter Server Appliance
- How to 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
- Configuring virtual switch load-balancing algorithms

## 6. Configuring and Managing Virtual Storage

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

## 7. Virtual Machine Management

- Create and manage virtual machine snapshots
- Create a VMware vSphere® vApp™
- Use templates and cloning to deploy virtual machines
- Modifying and manage virtual machines
- Perform vSphere vMotion and vSphere Storage vMotion migrations

## 8. Access and Authentication Control

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

## 9. Resource Management and Monitoring

- Describe methods for optimizing CPU and memory usage
- Introduction to virtual CPU and memory concepts
- Monitor resource usage using vCenter Server performance graphs and alarms
- Configure and manage resource pools

## 10. High Availability and Fault Tolerance

- Introduce the new vSphere high availability Architecture
- Introduce vSphere Fault Tolerance
- Configure and Manage a vSphere HA Cluster
- Describing VMware vSphere® Replication

## 11. Scalability

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

## 12. Patch Management

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

## 13. Installing VMware Components

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

## Who Should Attend

The VMware vSphere Install, Configure, Manage [V5.5] training course is suitable for:

- Systems engineers
- System administrators
- Operators of ESXi and vCenter Server

## Pre Requisite

Required prerequisites include completion of one of the following:

- System Administration experience on Microsoft Windows or Linux Operating Systems.
  - Knowledge of concepts presented in the VMware Data Center Virtualization Fundamentals course for VCA-DCV certification.
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464, Udyog Vihar Phase  
V, Gurgaon (Delhi  
NCR)-122016, India

+91 8882 233 777

[training@mercury.co.in](mailto:training@mercury.co.in)

[www.mercurysolutions.co](http://www.mercurysolutions.co)

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