



Greater value to the customers using innovative solutions and dedicated workforce

## **VMWARE ADMINISTRATION**

This course explores the installation, configuration and management of VMware vSphere 5 which include VMware ESXi(vSphere Hypervisor) and VMware vCenter Server (vSphere Server).

### **Introduction to VMware Virtualization**

- Introduce virtualization, virtual machines, and vSphere components
- Explain the concepts of server, network, and storage virtualization
- Describe where vSphere fits into the cloud architecture
- Install and use vSphere user interfaces

### **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)

### **Creating Virtual Machines**

- Introduce virtual machines, virtual machine hardware, and virtual machine files
- Deploy a single virtual machine

### **VMware vCenter Server**

- Introduce the vCenter Server architecture
- Introduce VMware® vCenter™ Server Appliance™
- Configure and manage vCenter Server Appliance
- Manage vCenter Server inventory objects and licenses

### **Configuring and Managing Virtual Networks**

- Describe, create, and manage a standard virtual switch
- Describe and modify standard virtual switch properties
- Configure virtual switch load-balancing algorithms

### **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 vSphere® Storage Appliance

### **Virtual Machine Management**

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

**MasterSys Tech Pvt Ltd.**

Bristol IT Park, 4th Floor, Plot No. 10, South Phase, Thiru Vi Ka Industrial Estate, Guindy, Chennai 600032.

Call us in **044 39167019** Mobile: 9884947402 E-mail [Training@msys-tech.com](mailto:Training@msys-tech.com)



Greater value to the customers using innovative solutions and dedicated workforce

Create a VMware vSphere® vApp™

### **Data Protection**

- Discuss a strategy for backing up ESXi hosts and vCenter Server
- Discuss solutions for backing up virtual machines efficiently
- 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
- Explain VMware® vShield Endpoint™ integration in VSphere

### **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

### **High Availability and Fault Tolerance**

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

### **Scalability**

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

### **Patch Management**

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

**MasterSys Tech Pvt Ltd.**

Bristol IT Park, 4th Floor, Plot No. 10, South Phase, Thiru Vi Ka Industrial Estate, Guindy, Chennai 600032.

Call us in **044 39167019** Mobile: 9884947402 E-mail [Training@msys-tech.com](mailto:Training@msys-tech.com)