



## VMware vSphere 5.5

Regular Class room training - 30Days Weekends Class room training- 5Weekends	Online training would be depends on feasible with the candidate and trainer
<p><b>1. Introduction</b></p> <ul style="list-style-type: none"><li>• Introduction and Course objectives</li><li>• What is virtualization</li><li>• How virtualization works and its benefits</li><li>• Different types in virtualization</li><li>• VMware History</li><li>• VMware Key Products</li><li>• What is Cloud Computing</li><li>• Describe where vSphere fits into the cloud architecture</li><li>• Introduce components of the virtualized data center</li><li>• vSphere Editions and comparisons</li></ul> <p><b>2. Installing VMware Hypervisor ESXi</b></p> <ul style="list-style-type: none"><li>• Hypervisor types</li><li>• ESXi versions and comparisons</li><li>• Difference between ESX and ESXi</li><li>• Hardware Pre-requisites</li><li>• ESXi host maximums</li><li>• Installation, configuration and management of ESXi</li><li>• Ways to connect ESXi</li><li>• Direct Console User Interface</li><li>• ESXi accessing through SSH</li><li>• Important log locations</li><li>• Upgrading ESXi 4.x to 5.x</li></ul> <p><b>3. Creating Virtual Machines</b></p> <ul style="list-style-type: none"><li>• Introduce virtual machines</li><li>• Virtual machine hardware, and virtual machine files</li><li>• Creating a virtual machines and installing Guest Operating Systems</li><li>• Deploy a single virtual machine</li><li>• Installation of VMware tools</li><li>• Describe virtual machine settings</li></ul> <p><b>4. VMware vCenter Server</b></p> <ul style="list-style-type: none"><li>• Introduce the vCenter Server architecture</li><li>• Introduce VMware® vCenter™ Single Sign-On™</li><li>• Installation, Configuration of Windows based vCenter Server</li></ul>	<ul style="list-style-type: none"><li>• Manage vCenter Server inventory objects and licenses</li><li>• Install and use vSphere Web Client</li><li>• Introduce VMware® vCenter™ Server Appliance™</li><li>• Configure and manage vCenter Server Appliance</li><li>• Create a Datacenter, cluster and adding ESXi hosts to vCenter Server</li></ul> <p><b>5. Configuring and Managing Virtual Networks</b></p> <ul style="list-style-type: none"><li>• vNetwork Standard Switches</li><li>• Understanding Port Groups</li><li>• Create, and manage a standard switch</li><li>• Describe and modify standard switch properties</li><li>• Describe networking policies</li><li>• Configure virtual switch load-balancing algorithms</li></ul> <p><b>6. Configuring and Managing Virtual Storage</b></p> <ul style="list-style-type: none"><li>• Introduce storage protocols and device names</li><li>• Describe DAS, NAS, and SAN</li><li>• Datastore types VMFS, NFS</li><li>• Configure ESXi with iSCSI, NFS, and Fibre Channel storage</li><li>• Create and manage vSphere datastores</li><li>• Configuring RDM to Virtual Machines</li><li>• Multipathing with iSCSI, FC</li><li>• Describe about VMware® Virtual SAN™</li></ul> <p><b>7. Virtual Machine Management</b></p> <ul style="list-style-type: none"><li>• Use templates and cloning to deploy virtual machines</li><li>• Modify and manage virtual machines</li><li>• Create and manage virtual machine snapshots</li><li>• Perform vSphere vMotion and vSphere Storage vMotion migrations</li><li>• Create a VMware vSphere® vApp™</li></ul>

<p><b>8. Access and Authentication Control</b></p> <ul style="list-style-type: none"> <li>• Control user access through roles and permissions</li> <li>• Configure and manage the ESXi firewall</li> <li>• Configure ESXi lockdown mode</li> <li>• Integrate ESXi with Active Directory</li> </ul> <p><b>9. Resource Management and Monitoring</b></p> <ul style="list-style-type: none"> <li>• Introduce virtual CPU and memory concepts</li> <li>• Describe methods for optimizing CPU and memory usage</li> <li>• Configure and manage resource pools</li> <li>• Monitor resource usage using vCenter Server performance graphs and alarms</li> </ul> <p><b>10. High Availability and Fault Tolerance</b></p> <ul style="list-style-type: none"> <li>• Introduce the new vSphere High Availability architecture</li> <li>• Configure and manage a vSphere HA cluster</li> <li>• Introduce vSphere Fault Tolerance</li> <li>• Configure vSphere Fault Tolerance</li> </ul>	<p><b>11. Scalability</b></p> <ul style="list-style-type: none"> <li>• Configure and manage a VMware vSphere® Distributed Resource Scheduler™ (DRS) cluster</li> <li>• Configure Enhanced vMotion Compatibility</li> <li>• Use vSphere HA and DRS together\</li> </ul> <p><b>12. Patch Management</b></p> <ul style="list-style-type: none"> <li>• Use vSphere Update Manager to manage ESXi patching</li> <li>• Install vSphere Update Manager and the vSphere Update Manager plug-in</li> <li>• Create patch baselines and upgrading ESXi hosts</li> <li>• Scan and remediate hosts</li> </ul> <p><b>13. Physical-Virtual Conversion</b></p> <ul style="list-style-type: none"> <li>• Describe VMware Standalone converter</li> <li>• Converting Physical – Virtual Machines</li> <li>• Converting Virtual – Virtual Machines</li> </ul>
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**Some of our salient features are listed below:**

- 6 to 15+ yrs of Experienced Trainers who are MCITP, VCP, VCAP-DCA, Citrix CCA, CCEE, RHEL Certified, AWS, MCS in Hyper-V.
- Our team worked with Market leaders like Microsoft, VMware, Citrix, TCS, Wipro, SAP LABS, CAP-Gemini and HP.
- This team played key roles in designing and deploying enterprise level datacenter solutions at various MNCs and trains the students to high standards.
- Preferred Windows, Linux, Citrix and VMware Corporate Trainer for various global IT Giants.
- Only Institute in entire Hyderabad with full-fledged Corporate Server and SAN setup Lab (Modern Lab Facility).
- Only Institute to offer break-fix sessions for students in the Lab to understand real life troubleshooting scenarios.
- **Special Class on Troubleshooting**
- **Explaining the incident management and ticketing tools**
- **Free Resume and interview preparation**