

**CURRICULUM VMware**

**1.Introduction to Virtualization Technologies**

- VMware workstation
- VMware player
- Virtual box

**2. Introduction to VMware Virtualization**

- Introduce Virtualization
- Introduce Virtual machines
- Introduce vSphere components
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**3. VMware ESX and ESXi ( ESX/ESXi 4.1)**

- Introduce the architecture of ESX and ESXi
- Manually configure ESX/ESXi
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**4. VMware vCenter Server**

- Install and configure vCenter Server comp
- Manage vCenter Server inventory objects

**5. Networking**

- Create, configure, and manage vNetwork standard switches
- Create, configure, and manage network connections
- Create, configure, and manage port groups

**6. Storage**

- Configure ESX/ESXi with iSCSI, NFS,.
- Create and manage vSphere datastores

**7. Virtual Machines**

- Deploy virtual machines using the Create New Virtual Machine wizard, templates, cloning, and VMware vCenter Converter

- Modify and manage virtual machines
- Perform Storage vMotion migrations

**8. Access Control**

- Control user access through roles and permissions

**9. Resource Monitoring**

- Control virtual machine access to CPU, memory, and I/O resources
- Introduce VMkernel methods for optimizing CPU and memory usage
- Monitor resource usage using vCenter Server performance graphs and alarms

**10. Data Protection**

- Back up and recover virtual machines using VMware Data Recovery

**11. Scalability**

- Manage multiple vCenter Server inventories using VMware vCenter Linked Mode
- Manage ESX/ESXi configuration compliance using Host Profiles
- Create, configure, and manage vNetwork distributed switches, network connections, and port groups
- Perform VMware vMotion migrations
- Configure and manage a VMware Distributed Resource Scheduler cluster

## 12. High Availability

- Configure and manage a VMware High Availability cluster
- Configure fault-tolerant virtual machines using VMware Fault Tolerance

## 13. Patch Management

- Manage patching and patch compliance using vCenter Update Manager

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