

VMware syllabus

Introduction to Virtualization Technologies

- VMware workstation
 - VMware player
 - Virtual box

Introduction to VMware Virtualization

- Introduce Virtualization
- Introduce Virtual machines
- Introduce vSphere components

VMware ESX and ESXi (ESX/ESXi 4.1)

- Introduce the architecture of ESX and ESXi
 - Manually configure ESX/ESXi

VMware vCenter Server

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

Networking

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

Storage

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

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

Access Control

- Control user access through roles and permissions

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

Data Protection

- Back up and recover virtual machines using VMware Data Recovery

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



High Availability

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

Patch Management

- Manage patching and patch compliance using vCenter Update Manager

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