

VMWARE

1. Introduction about the server hardware

- Types of servers
- Datacenter overview
- Datacenter operations

2. VMware vSphere 5.5

- Introduction to Virtualization
- Understanding Virtualization
- Virtualization benefits
- Introduction to VMware ESXi Server
- Understanding features of ESXi Server
- Installation of ESXi Server
- Planning ESXi Server
- Understanding requirements
- Deploying ESXi Server
- vSphere Client
- Understanding ESXi License

3. Understand & Deploy Virtual Machines

- Deploying Virtual Machines
- Editing Virtual Machines
- Removing Virtual Machines
- Deploying Guest Operating System into VM
- Understanding VMware tools
- Deploying VMware tools
- Configuring VM's to autostart & auto shutdown

4. Understand ESXi Server hardware Architecture

- Understanding ESXi Operating System
- Understanding Virtualization kernel
- Understanding CPU, Memory Management
- Understanding ballooning
- Understanding Transparent page Sharing

5. Understand Storage Technologies

DAS

SAN

NAS

ISCSI

ESXi Storage

Configuring Storage adaptors

Understanding VMFS file system

Configuring VMFS Partition

6. Virtual Networking

Understanding VLAN's, Trunks

Understanding VSwitch & port group

Configuring Virtual Switch & Port groups

Understanding VMKernel Adaptor

Understanding Security policies

7. Install & Configure VCenter Server 5.5

Understanding Features of VCenter server

Understanding Architecture of Vcenter Server

Installing VCenter server

Understanding Vcenter Licensing

Adding ESX Hosts to Vcenter Server

8. VM Management – VCenter Server

Understanding cloning & Templates

Deploying VM's using templates

Preparing Templates

Understanding Snapshots

9. VMware vSphere 5.5

- User Access Control
- Understand roles & Privileges
- Create and modify user permission in ESX server
- Adding and Modify users
- Defining & Applying roles

10. Scheduled TASK, Events & Alarms

- Understanding Tasks, Events & Alarms
- Configuring SMTP
- Configuring Alarms

11. VM Migration

- Understanding Classic & Storage VMotion
- Configuring Classic & Storage VMotion

12. Distributed Switch

- Understanding Distributed Switch Architecture
- Configuring Distributed Switch
- Understanding VLAN Trunks
- Understanding Private VLAN's
- Configure Private VLAN Trunks & Private VLAN's

13. Resource pools

- Configuring CPU & Memory resources
- Understanding resource pools
- Configuring resource pools
- Shares, limits and Reservations

14. Understand VMware clusters

- Understand DRS Clusters
- Understand HA Clusters

15. Fault Tolerance

- Understanding Fault Tolerance
- Understanding Enhanced Vmotion
- Configuring Fault tolerance

16. VMware Converter

- Converting Physical to virtual machine (p2v)
- Converting virtual to virtual (v2v)
- Understanding OVF Format

17. VMware Logs & Services

- Checking VMware ESXi Logs
- Checking vCenter server logs
- Verify ESXi, VC Services
- Troubleshooting VM issues

18. VMware Update Manager

- Installing update manager
- Configuring Update Manager
- Deploy patches to ESXi Servers