

Hands-on course , 5
day(s)
Ref : MWI

Participants

This training is for system administrators and architects who want to get a quick start with the VMware vSphere 6 software suite (ESXi Server 6 and vCenter 6).

Pre-requisites

Basic knowledge of administering a Linux/Unix or Windows system.

Next sessions

VMware vSphere 6, Installation, Configuration, and Administration

You'll learn how to install, configure and administer the components of a VMware vSphere 6 virtual infrastructure. You'll study how to manage the virtual network, storage, resources, and machine deployment. You'll also see how to secure and back up the infrastructure once installed.

OBJECTIVES

Install and configure the components of a VMware vSphere 6 infrastructure. ESXi, vCenter
Configure and manage the virtual network in vSphere
Configure, manage, and optimize storage in VMware vSphere
Improve and optimize resource allocation with VMware Distributed Resource Schedule
Set up Fault Tolerance for the virtual machines
Set up VM replication with vSphere Replication
Make access to the VMWare infrastructure secure

1) vSphere 6, vCenter 6

2) Managing the network, storage

3) Administration of virtual machines (VMs)

4) Secure access to the infrastructure

5) Resource monitoring and management

6) High availability and continuity of service

7) Adaptability of the virtual Datacenter

1) vSphere 6, vCenter 6

- Architecture, components, PSC (Platform Services Controller).
- Installing vCenter Server 6 in Windows.

Workshop

Installing and configuring an ESXi, vCenter 6 server. Deploying the Appliance vCenter 6.

2) Managing the network, storage

- Standard virtual switches.
- Advanced network configuration: security, traffic management, teaming management.
- Fibre Channel SAN, iSCSI SAN, and NFS storage.
- Datastores: Creation and management.

Workshop

Configure and manage the virtual network, optimize storage.

3) Administration of virtual machines (VMs)

- Cloning, snapshots, and cold migration.
- Managing the virtual hardware: Thin Provisioning, VMDirectPath.
- Backing up with VMware Data Protection.
- Monitoring and managing the use of resources.

Workshop

Creating VMs and templates. Cloning, backing up and cold migration of VMs. Monitoring and managing the use of resources.

4) Secure access to the infrastructure

- ESXi: The firewall, integrating it into Active Directory.
- Making access secure: Roles and permissions.
- Managing updates (VMware Update Manager).

Workshop

Make access to the VMWare infrastructure secure Configure and administer the firewall in ESXi. Install vCenter Update Manager. Manage updates.

5) Resource monitoring and management

- Optimizing the use of CPUs and memory.
- Alarms.

Workshop

Implementing alarms, checking CPU consumption on a VM. Creating an alarm linked to an event.

6) High availability and continuity of service

- Managing a VMware High Availability (HA) cluster.

Workshop

Implementing high availability and a VM backup policy. Setting up VM replication with vSphere Replication

7) Adaptability of the virtual Datacenter

- VMware VMotion, VMware Storage VMotion, VMware Enhanced VMotion.
- Managing a Distributed Resource Scheduler (DRS) cluster.
- Configuring Enhanced VMotion Compatibility (EVC).
- Managing Distributed Power Management (DPM).
- Installing VMware Converter Standalone: installation, migration.

Workshop

Improving, optimizing resources (VMware Distributed Resource Schedule). Managing updates to the virtual infrastructure.