

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

Participants

This training is for system administrators and architects who want to get a quick start with the VMware vSphere 5.5 software suite (ESXi Server 5.5 and vCenter 5.5).

Pre-requisites

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

Next sessions

VMware vSphere 5.5, Installation, Configuration, and Administration

This course will teach you how to install, configure and administer the components of a VMware vSphere 5.5 virtual infrastructure. It will show you how to manage the virtual network, storage, and resources, and to deploy virtual machines and make the new infrastructure secure and backed-up.

OBJECTIVES

Install and configure the components of a VMware vSphere 5.5 infrastructure.
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

- [1\) Virtual infrastructure](#)
- [2\) The VMware vCenter 5.5 server](#)
- [3\) Managing vNetwork Standard Switches](#)
- [4\) Managing storage in vSphere: vStorage](#)

- [5\) Creation, deployment, and administration of virtual machines \(VM\)](#)
- [6\) Secure access to the infrastructure](#)
- [7\) High availability and continuity of service](#)
- [8\) Adaptability of the virtual Datacenter](#)

Workshop

On a platform of physical ESXi servers connected to a gigabit network and linked to Fibre Channel and iSCSI SANs and NFS.

1) Virtual infrastructure

- The most common use cases for virtualization.
- Overview of VMware vSphere, licenses.
- Architecture and components of vSphere 5.5

Workshop

Installing an ESXi server.

2) The VMware vCenter 5.5 server

- Installing vCenter Server 5.5 in Windows.
- Deployment of Appliance vCenter 5.5.
- The SSO server. The Inventory Service server.

Workshop

Installing and configuring vCenter 5.5.

3) Managing vNetwork Standard Switches

- Standard virtual switches.
- Advanced network configuration (security, traffic management, teaming management).

Workshop

Configuring the network's components.

4) Managing storage in vSphere: vStorage

- Overview of different storage protocols
- Fibre Channel SAN, iSCSI SAN, and NFS storage.
- Creating and managing Datastores.

Workshop

Configuring storage.

5) Creation, deployment, and administration of virtual machines (VM)

- Creating, deleting, and managing VMs, templates.
- Cold migration to move a VM.
- Managing the virtual hardware: Thin Provisioning, VMDirectPath.
- Snapshots of virtual machines.
- Backing up VMs with VMware Data Protection.
- Monitoring and managing the use of resources.

Workshop

Creating VMs and templates. Cloning a virtual machine (VM).

6) Secure access to the infrastructure

- Configuring and administering the firewall in ESXi.
- Using Lockdown Mode.
- Integrating ESXi into the Active Directory.
- Making access secure: Roles and permissions.
- Installing vCenter Update Manager.
- Managing updates with VMware Update Manager.

7) High availability and continuity of service

- Managing a VMware High Availability (HA) cluster.
- VMware Fault Tolerance.
- VMware vSphere Replication.

Workshop

Implementing high availability and a VM backup policy.

8) Adaptability of the virtual Datacenter

- VMware Storage VMotion.
- Managing a Distributed Resource Scheduler cluster.
- Configuring Enhanced VMotion Compatibility (EVC).
- Managing Distributed Power Management (DPM).