

## VMware vSphere 5.1, installation, configuration et administration



SII-379 5 Days (35 Hours)

### Description

This course will show you how to install and configure the components of a VMware vSphere 5.1 virtual infrastructure. You will learn how to manage the virtual network, storage and resources, create, deploy and use virtual machines, as well as administer, secure and backup the infrastructure.

### Who is this training for ?

#### For whom

System administrators and architects wishing to quickly get started with the VMware vSphere 5.1 suite (ESXi Server 5.1 and vCenter 5.1).

#### Prerequisites

Aucune

### Training objectives

- Install and configure the components of a VMware vSphere 5
- 1 virtual infrastructure Configure and manage the virtual network under vSphere Configure, manage and optimize storage under VMware vSphere Improve and optimize resource allocation with VMware Distributed Resource Schedule Implement a Virtual Machine backup policy Implement fault tolerance for virtual machines with Fault Tolerance

### Training program

#### L'infrastructure virtuelle

- The main use cases of virtualization.
- Presentation of VMware vSphere, licenses.
- Architecture and components of vSphere 5.
- 1 Practical work Install an ESXi server.

## Le serveur VMware vCenter 5.1

- Installing vCenter Server 5.
- 1 on Windows.
- Deploying the vCenter 5 Appliance.
- 1 The SSO server.
- The Inventory Service server.
- Practical work Install and configure vCenter 5.
- 1.

## Gestion des vNetwork Standard Switch

- Standard virtual switches.
- Advanced network configuration (security, traffic management, teaming management).
- Practical work Configure network elements .

## Gestion du stockage sous vSphere : vStorage

- Presentation of the different storage protocols.
- Fiber Channel SAN storage, iSCSI SAN and NFS.
- Creation and management of Datastores.
- Practical work Configure storage.

## Création, déploiement et administration des machines virtuelles (VM)

- Creation, deletion and management of VMs, Templates.
- Cold migration of a VM.
- Management of virtual hardware: Thin Provisionning, VMDirectPath.
- Snapshots of virtual machines.
- Backing up VMs with VMware Data Protection.
- Monitoring and managing resource usage.
- Practical work Create VMs and Templates.
- Clone a virtual machine (VM).

## Sécurité d'accès à l'infrastructure

- Configure and administer the firewall in ESXi.
- Use Lockdown Mode.
- Integrate ESXi with Active Directory.
- Securing access: roles and permissions.
- Installing vCenter Update Manager.
- Managing updates with VMware Update Manager.

## Haute disponibilité et continuité de service

- Managing a VMware High Availability (HA) cluster.
- Fault tolerance with VMware Fault Tolerance.
- VMware vSphere Replication.
- Practical work Implement high availability and a VM backup policy.

### Evolutivité du Datacenter virtuel

- VMware Storage VMotionVMware Storage VMotion.
- Gestion d'un Cluster Distributed Resource Scheduler.
- Configuration du Enhanced VMotion Compatibility (EVC).
- Gestion de Distributed Power Management (DPM).