

VMware vSphere 5.5, installation, configuration et administration



MR-147 5 Days (35 Hours)



Description

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, resources and deploy virtual machines and also how to secure and backup the infrastructure set up.

Who is this training for ?

For whom

This training is aimed at system administrators and architects wishing to quickly get started with the VMware vSphere 5.5 software suite (ESXi Server 5.5 and vCenter 5.5).

Prerequisites

Aucune

Training objectives

- Install and configure VMware vSphere 5
- 5 virtual infrastructure components 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 Scheduler
- Implement fault tolerance for virtual machines with Fault Tolerance
- Set up VM replication with vSphere Replication

Training program

L'infrastructure virtuelle

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

Le serveur VMware vCenter 5.5

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Image n°5 Contact : We are at your disposal
Email : De Lun - Ven 09h00-18h00

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

Gestion des vNetwork Standard Switchs

- Standard virtual switches.
- Advanced network configuration (security, traffic management, teaming management).
- Practical work Configure network elements .
- » Storage management under 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 VMotion.
- Gestion d'un Cluster Distributed Resource Scheduler.
- Configuration du Enhanced VMotion Compatibility (EVC).
- Gestion de Distributed Power Management (DPM).