Windows 2012, maintenance and troubleshooting in Active Directory

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BPC-136   **4 Days (28 Hours)**

Description

This course will teach you the functionalities of Windows Server 2012 and R2 (Release 2) in order to respond to different issues: managing Active Directory structure modifications, renaming, domain migration, network speeds, performance, DNS and replication issues.

Who is this training for ?

For whom

Systems administrators and engineers.

Prerequisites

Good knowledge of Windows 2012 server architecture and administration.

Training objectives

- Diagnose and resolve Active Directory 2012 structural issues
- Diagnose and resolve DFS replication issues
- Restructure and migrate Active Directory domains and objects
- Fluid content: multi-column, multi-page splitting.
- Define a recovery plan from Active Directory

Training program

Dépannage et performances matérielles

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We are at your disposal : De Lun - Ven 09h00-18h00
email

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- Performance monitor and main counters.
- Core mode, installing an AD on a Core server.
- Using RSAT tools to administer the Core server .
- The Best Practice tool for AD.
- The Microsoft Diagnostic and Recovery Toolset: features and usefulness.
- Practical work Using the performance monitor to analyze a 2012 server.
- Scaling test.
- Using the MSDArt tool (Microsoft Diagnostic and Recovery Toolset).

Dépannage des problèmes réseau

- DNS records.
- Creation of a new zone, zone delegation.
- Powershell and its cmdlets to configure and manage DNS.
- Troubleshooting utilities: Dcdiag, Nslookup and dnscmd.
- Standalone and domain root.
- DFS Replication (DFS-R, DRC).
- Practical work Creation of zone by scripts.
- Query via nslookup.
- Setting up and testing a DFS root.

Dépannage de l'Active Directory

- Role transfer and capture.
- Tools: Ntdsutil, Dcdiag, Dsmgmt.
- Active Directory backup and restoration.
- Querying AD objects via the Powershell Active directory module.
- Restore AD objects, setting up the Recycle Bin.
- Troubleshooting replications, Repadmin tool.
- Troubleshooting GPOs, using Powershell, logs and GPOTools tools.
- Managing ACLs on objects with DSACLS.
- Practical work Role transfer and capture with Ntdsutil 2012, troubleshooting GPOs, using Repadmin, Powershell and the grouppolicy module.
- Resetting the restore password with Dsmgmt.

Dépannage des domaines

- Renaming DCs and domains.
- Approval relationships.
- Practical work Renaming a DC and a domain 2012.
- Creating and testing trust relationships.

Tâches administratives diverses

- WMI scripts with Powershell.
- Monitor servers via Powershell.
- Modify ad objects via Powershell.
- Works practices Editing and debugging a WMI script.
- Uses of the New-ad, Set-ad commands.

Fonctionnement des stratégies de groupes

- Differences between local and domain Active Directory policies.
- Administrative models.
- Object bindings.
- Starter GPOs .
- Filtering the deployment of an object.
- Practical work Creating and linking group policy objects.
- Filtering deploying an object.

Gérer les GPO avec GPMC

- Group Policy Manager (GPMC).
- How to create the GPO starter folder? GPO delegation.
- Report generation.
- Updating GPOs, controlling strategy descents to remote workstations.
- View and modify the status of GPO replications in the domain, status tab.
- Displaying Group Policy results.
- Hands-on Creating and using Starter.
- Searching GPOs.
- Example of filtering.

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