Windows 2012, maintenance and troubleshooting

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BPC-136   4 Days (28 Hours)

Description

This training offers a method for evaluating the behavior of a Windows 2012 and R2 (Release 2) server, detecting bottlenecks, carrying out centralized reporting of incidents and alerts and implement quick and effective troubleshooting techniques.

Who is this training for ?

For whom

System administrators or technical support wishing to improve the management of a Windows 2012 server and implement appropriate troubleshooting techniques.

Prerequisites

Good knowledge of Windows 2012 server architecture and administration.

Training objectives

- System administrators or technical support wishing to improve the management of a Windows 2012 server and implement appropriate troubleshooting techniques

Training program

Architecture interne de Windows 2012

- Components of Windows 2012 and R2 (Release 2).
- Using WMI with PowerShell.
- Server Manager 2012.
- Management fixes: WSUS (update management server).
- Practical work Analysis of the registry in Powershell.
- Query the system with WMI.
- Switching a graphics server to Core mode.
- Managing the Core server with the server manager.
- Installing a WSUS server.

Gestion à distance

- Server management via the server manager.
- Addition, removal of roles and functionality.
- Remote PowerShell to manage the server fleet.
- PowerShell Web Access.
- Practical work Adding roles on remote servers, using Powershell remotely, installing PowerShell Web Access.

Suivi d'activité

- Task manager, what's new.
- Resource monitor.
- Monitoring tools.
- Event management.
- The reliability and performance monitor.
- Diagnose memory.
- Practical work Analyze process activity with the system monitor.
- Analyzing log files.
- Added tracking flag.

Maintenance et dépannage d'Hyper-V

- Presentation of Hyper-V, the advantages.
- Setting up a PRA, replication.
- Live move a VM (Live Migration).
- Practical work Adding a VM, replication with a physical server, hot move of a VM.

Audit et BPA (Best Practices Analyzer)

- Setting up an audit on a 2012 server.
- Using BPA via Powershell.
- Analysis of Best Practices.
- Work practices Analysis of GAPs.

Dépannage et gestion du réseau

- IP address management with IPAM.
- The new cmdlets dedicated to networks.
- Network management via cmdlets.
- Cmdlets for DNS and DHCP.
- Practical work Using cmdlets.

Dépannage de Windows 2012

- Incidents: startup, drivers, registry.
- Creating a Windows PE to troubleshoot a server.
- Microsoft Diagnostics Recovery Toolset under 2012.
- Practical work Repair a boot sector, the registry, the system.
- Recover files.
- Reset the administrator password.