Objectifs

This three-day instructor-led course provides students with the knowledge and skills to utilize Windows PowerShell for administering and automating administration of Windows Server 2008. The course focuses on cmdlets, script structure and flow control, language syntax, and implementation details of scripting administrative tasks using COM, WMI, and .NET foundations.

Participants

This course is intended for Windows administrators interested in automating Windows Server 2008 administration tasks, as well as those people looking for a full-featured interactive command-line environment for Windows operating systems. Windows end users or developers who need to understand what is involved in Windows administration or command-line environments may also find this course helpful.

Prérequis

Before attending this course, students should have completed: ? Course MS6430EN: Planning and Administering Windows Server 2008 Servers, or have equivalent knowledge of administrative tasks. In addition, it is recommended, but not required, that students have completed: ? Course MS2433EN: Microsoft Visual Basic Scripting Edition and Microsoft Windows Script Host Essentials, or have equivalent knowledge of scripting and automation in Window

Pédagogie

La pédagogie est basée sur le principe de la dynamique de groupe avec alternance d'apports théoriques, de phases de réflexion collectives et individuelles, d'exercices, d'études de cas et de mises en situations observées. Formation / Action participative et interactive : les participants sont acteurs de leur formation notamment lors des mises en situation car ils s'appuient sur leurs connaissances, les expériences et mettront en oeuvre les nouveaux outils présentés au cours de la session.

Remarque

Le support de cours est en anglais.

Profil de l'intervenant

Consultant-formateur expert sur cette thématique. Suivi des compétences techniques et pédagogiques assurée par nos services.

Moyens techniques

Encadrement complet des stagiaires durant la formation. Espace d'accueil, configuration technique des salles et matériel pédagogique dédié pour les formations en centre. Remise d'une documentation pédagogique papier ou numérique à échéance de la formation.

Méthodes d'évaluation des acquis

Exercices individuels et collectifs durant la formation. Evaluation des acquis et attestation de fin de stage adressés avec la facture.

Programme

Automating Windows Server 2008 Administration with Windows PowerShell

3 jours - 21 heures

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Programme

Introduction to Microsoft Windows PowerShell

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Installing Windows PowerShell in Windows Server 2008

Administering Group Policy in Microsoft Windows PowerShell Using COM

Managing GPOs Using the GPMC COM Interface

Managing Group Policy Objects

Reporting Group Policy

Overview of Microsoft Windows PowerShell

Overview of Objects

Working with Cmdlets

Tab Expansion, Aliases, and History

Using Variables and Types

Building Pipelines for Assembly-Line Style Processing

Using Pipelines

Using Arrays

Filtering and Iterating Through the Pipeline

Reordering Objects in a Pipeline

Managing Processes and Formatting Cmdlet Output

Managing Windows Processes with Microsoft Windows PowerShell

Formatting Cmdlet Output

Introduction to Scripting with Microsoft Windows PowerShell

Writing Windows PowerShell Scripts

Script Parameters

Security in Windows PowerShell

Customizing Windows PowerShell with Profiles

Implementing Flow Control and Functions

Controlling the Flow of Execution Within Scripts

Iteration Flow Control

Developing and Using Functions

Working with Files, the Registry, and Certificate Stores

Using Data Stores

Using Providers

Filtering and Selecting with Regular Expressions

Implementing Event Log Management

Persisting Objects in Files

Managing the Windows Operating System Using Microsoft Windows PowerShell and WMI

Introduction to WMI and WMI Objects

Managing Disks and Disk Volumes Using Windows PowerShell with WMI

Managing Shadow Copies Using Windows PowerShell with WMI

Managing Shared Folders with Windows PowerShell

Managing Terminal Services with WMI

Managing IIS 7.0 with WMI

Administering Active Directory with Microsoft Windows PowerShell

Administering Domains and Forests Using .NET Objects

Managing User Accounts and Groups Using ADSI

Managing Relationships Between Users and Groups

Web Administration Using IIS 7.0

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