



MOC 6434

Automating Windows Server 2008 Administration with Microsoft Windows PowerShell

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.

Audience

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.

Course Outline

Module 1: Introduction to Microsoft Windows PowerShell

This module explains how to name, declare, assign values to, and use variables. It also describes how to store data in an array.

Module 2: Overview of Microsoft Windows PowerShell

This module explains basic concepts in Windows PowerShell, including objects, variables, cmdlets, and pipelines. It describes how to invoke available cmdlets and aliases, assign aliases. The module also includes demonstrations of tab expansion and basic operators.

Module 3: Building Pipelines for Assembly-Line Style Processing

This module explains basic concepts in Windows PowerShell, including objects, variables, cmdlets, and pipelines. It describes how to invoke available cmdlets and aliases, assign aliases. The module also includes demonstrations of tab expansion and basic operators.

Module 4: Managing Processes and Formatting Cmdlet Output

This module explains basic concepts in Windows PowerShell, including objects, variables, cmdlets, and pipelines. It describes how to invoke available cmdlets and aliases, assign aliases. The module also includes demonstrations of tab expansion and basic operators.

Module 5: Implementing Scripts to Perform a Sequence of Operations

This module explains basic concepts in Windows PowerShell, including objects, variables, cmdlets, and pipelines. It describes how to invoke available cmdlets and aliases, assign aliases. The module also includes demonstrations of tab expansion and basic operators.

Module 6: Implementing Flow Control and Functions

This module explains basic concepts in Windows PowerShell, including objects, variables, cmdlets, and pipelines. It describes how to invoke available cmdlets and aliases, assign aliases. The module also includes demonstrations of tab expansion and basic operators.

Module 7: Working with Files, the Registry, and Certificate Stores

This module explains how to write scripts that perform specific tasks, such as searching files for particular text and modifying all matching files, or searching the event logs for events that match specific criteria. It also describes how to access data stores, the file store, the registry, certificate stores, and other stores, use wildcards and regular expressions, and import and export aliases and objects.

Module 8: Using Microsoft Windows PowerShell with WMI

This module explains how to use WMI to access system features, enumerate, defragment, and mount disk volumes in Windows PowerShell. Listing and configuring volume shadow copies, listing and creating shared folders with WMI, and configuring Terminal Server are also discussed.

Module 9: Administering Active Directory with Microsoft Windows PowerShell

This module explains how to write scripts to perform Active Directory administration tasks such as changing the domain functional level, moving FSMO roles, and creating and modifying objects such as groups and user accounts. Managing relationships between user accounts and groups is also demonstrated.

Module 10: Administering Group Policy in Microsoft Windows PowerShell

This module explains how to write scripts to perform Active Directory administration tasks such as changing the domain functional level, moving FSMO roles, and creating and modifying objects such as groups and user accounts. Managing relationships between user accounts and groups is also demonstrated.

Module 11: Managing Internet Information Services 7.0

This module explains how to write scripts to manage IIS 7.0 properties and report IIS statistics. It also describes how to create and manage Web sites.