



AUTOMATING ADMINISTRATION WITH POWERSHELL SCRIPTING

COURSE OVERVIEW

This course provides students with the fundamental knowledge and skills to use Windows PowerShell for administering and automating administration of Windows servers. This course provides students the skills to identify and build the command they require to perform a specific task.

PREREQUISITE

Experience with Windows networking technologies and implementation, maintenance, and troubleshooting and Windows Client administration, maintenance, and troubleshooting

WHAT YOU'LL LEARN

- Basic concepts behind Windows PowerShell
- Understand How the Pipeline Works
- Use PSProviders & PSDrivesFormat Output
- Use WMI and CIMPrepare for Scripting
- Administer Remote Computers
- Put the various Windows PowerShell components together
- Use Background Jobs and Scheduled Jobs
- Use Advanced PowerShell Techniques and Profiles

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COURSE DETAILS

Module 1: Getting started with Windows PowerShell

Overview and background of Windows PowerShell
Understanding command syntax
Finding commands

Module 2: Cmdlets for administration

Active Directory administration cmdlets
Network configuration cmdlets
Other server administration cmdlets

Module 3: Working with the Windows PowerShell pipeline

Understanding the pipeline
Selecting, sorting, and measuring objects
Filtering objects out of the pipeline
Enumerating objects in the pipeline
Sending pipeline data as output

Module 4: Understanding how the pipeline works

Passing the pipeline data
Advanced considerations for pipeline data

Module 5: Using PSProviders and PSDrives

Using PSProviders
Using PSDrives

Module 6: Querying system information by using WMI and CIM

Understanding WMI and CIM
Querying data by using WMI and CIM
Making changes with WMI/CIM

Module 6: Querying system information by using WMI and CIM

Understanding WMI and CIM
Querying data by using WMI and CIM
Making changes with WMI/CIM

Module 7: Working with variables, arrays, and hash tables

Using variables
Manipulating variables
Manipulating arrays and hash tables

Module 8: Basic scripting

Introduction to scripting
Scripting constructs
Importing data from files

Module 9: Advanced scripting

Accepting user input
Overview of script documentation
Troubleshooting and error handling
Functions and modules

Module 10: Administering Remote Computers

Using basic Windows PowerShell remoting
Using advanced Windows PowerShell remoting techniques
Using PSSessions

Module 11: Using background jobs and scheduled jobs

Using background jobs
Using scheduled jobs

Module 12: Using advanced Windows PowerShell techniques

Creating profile scripts
Using advanced techniques