

MWS3-7 - MOC 10961 - AUTOMATING ADMINISTRATION WITH WINDOWS POWERSHELL

Categoria: **Windows Server 2016**

INFORMAZIONI SUL CORSO



Durata:
5 Giorni



Categoria:
Windows Server 2016



Qualifica Istruttore:
Microsoft Certified
Trainer



Dedicato a:
Professionista IT



Produttore:
Microsoft

OBIETTIVI

After completing this course, students will be able to:

- Describe the functionality of Windows PowerShell and use it to run and find basic commands.
- Identify and run cmdlets for server administration.
- Work with Windows PowerShell pipeline.
- Describe the techniques Windows PowerShell pipeline uses.
- Use PSProviders and PSDrives to work with other forms of storage.
- Query system information by using WMI and CIM.
- Work with variables, arrays, and hash tables.
- Write basic scripts in Windows PowerShell.
- Write advanced scripts in Windows PowerShell.
- Administer remote computers.
- Use background jobs and scheduled jobs.
- Use advanced Windows PowerShell techniques.

PREREQUISITI

- Experience with Windows networking technologies and implementation.
- Experience with Windows Server administration, maintenance, and troubleshooting.
- Experience with Windows Client administration, maintenance, and troubleshooting
- Students who attend this training can meet the prerequisites by obtaining equivalent knowledge and skills through practical experience as a Windows system administrator. No prerequisite courses are required.

CONTENUTI

Module 1: Getting started with Windows PowerShell

- Overview and background of Windows PowerShell
- Understanding command syntax
- Finding commands

Lab: Configuring Windows PowerShell

- Configuring the Windows PowerShell console
- Configuring the Windows PowerShell ISE application

Lab: Finding and running basic commands

- Finding commands
- Running commands
- Using the About files

Module 2: Cmdlets for administration

- Active Directory administration cmdlets
- Network configuration cmdlets
- Other server administration cmdlets

Lab: Windows Administration

- Creating and managing Active Directory objects
- Configuring network settings on Windows Server
- Creating a web site

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

Lab: Using the pipeline

- Selecting, sorting, and displaying data

Lab: Filtering objects

- Filtering objects

Lab: Enumerating objects

- Enumerating objects

Lab: Sending output to a file

- Exporting user information to a file

Module 4: Understanding how the pipeline works

- Passing the pipeline data
- Advanced considerations for pipeline data

Lab: Working with pipeline parameter binding

- Predicting pipeline behaviour

Module 5: Using PSProviders and PSDrives

- Using PSProviders
- Using PSDrives

Lab: Using PSProviders and PSDrives

- Creating files and folders on a remote computer

- Creating a registry key for your future scripts
- Create a new Active Directory group

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

Lab: Working with WMI and CIM

- Querying information by using WMI
- Querying information by using CIM
- Invoking methods

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

- Using variables.
- Manipulating variables.
- Manipulating arrays and hash tables.

Lab: Working with variables

- Working with variable types
- Using arrays
- Using hash tables

Module 8: Basic scripting

- Introduction to scripting
- Scripting constructs
- Importing data from files

Lab: Basic scripting

- Setting a script
- Processing an array with a ForEach loop
- Processing items by using If statements
- Creating a random password
- Creating users based on a CSV file

Module 9: Advanced scripting

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

Lab: Accepting data from users

- Querying disk information from remote computers
- Updating the script to use alternate credentials
- Documenting a script

Lab: Implementing functions and modules

- Creating a logging function
- Adding error handling to a script

- Converting a function to a module

Module 10: Administering Remote Computers

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

Lab: Using basic remoting

- Enabling remoting on the local computer
- Performing one-to-one remoting
- Performing one-to-many remoting

Lab: Using PSSessions

- Using implicit remoting
- Managing multiple computers

Module 11: Using background jobs and scheduled jobs

- Using background jobs
- Using scheduled jobs

Lab: Using background jobs and scheduled jobs

- Starting and managing jobs
- Creating a scheduled job

Module 12: Using advanced Windows PowerShell techniques

- Creating profile scripts
- Using advanced techniques

Lab: Practicing advanced techniques

- Creating a profile script
- Verifying the validity of an IP address
- Reporting disk information
- Configuring NTFS permissions
- Creating user accounts with passwords from a CSV file

INFO

Manuale: Il Materiale Didattico Ufficiale per tutti i corsi Microsoft MOC può essere richiesto, se disponibile, in forma elettronica (DMOC) invece che cartacea e lo studente iscritto potrà scaricarlo dal sito Microsoft. Chi acquista un DMOC ha diritto a consultare tutte le versioni del manuale, sia quelle precedenti a quella che acquista sia quelle che usciranno successivamente, dove troverà corretti eventuali errori e/o le novità del prodotto.

Prezzo manuale: 250 € incluso nel prezzo del corso a Calendario

Natura del corso: Operativo (previsti lab su PC)