



AZ-040T00 - Automating Administration with PowerShell

Microsoft - PowerShell - Sistemistica

Durata:

5 Giorni

Lingue:

Italiano

Certificazione:

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Descrizione del corso

This course provides students with the fundamental knowledge and skills to use 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. In addition, students learn how to build scripts to accomplish advanced tasks such as automating repetitive tasks and generating reports. This course provides prerequisite skills supporting a broad range of Microsoft products, including Windows Server, Windows Client, Microsoft Azure, and Microsoft 365. In keeping with that goal, this course will not focus on any one of those products, although Windows Server, which is the common platform for all of those products, will serve as the example for the techniques this course teaches.

Programma

Module 1: Getting started with Windows PowerShell

- Windows PowerShell overview
- Understand Windows PowerShell command syntax
- Find commands and get help in Windows PowerShell

Module 2: Windows PowerShell for local systems administration

- Active Directory Domain Services administration cmdlets
- Network configuration cmdlets
- Server administration cmdlets

ITCore Group

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- Windows PowerShell in Windows 10

Module 3: Working with the Windows PowerShell pipeline

- Understand the pipeline
- Select, sort, and measure objects
- Filter objects out of the pipeline
- Enumerate objects in the pipeline
- Send and pass pipeline data as output

Module 4: Using PSProviders and PSDrives

- Using PSProviders
- Using PSDrives

Module 5: Querying management information by using CIM and WMI

- Understand CIM and WMI
- Query data by using CIM and WMI
- Make changes by using CIM and WMI

Module 6: Working with variables, arrays, and hash tables

- Use variables
- Manipulate variables
- Manipulate arrays and hash tables

Module 7: Windows PowerShell scripting

- Introduction to scripting with Windows PowerShell
- Script constructs
- Import data from files
- Accept user input
- Troubleshooting and error handling
- Functions and modules

Module 8: Administering remote computers with Windows PowerShell

- Use basic Windows PowerShell remoting

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- Use advanced Windows PowerShell remoting techniques
- Use PSSessions

Module 9: Managing Azure resources with PowerShell

- Azure PowerShell
- Introduce Azure Cloud Shell
- Manage Azure VMs with PowerShell
- Manage storage and subscriptions

Module 10: Managing Microsoft 365 services with PowerShell

- Manage Microsoft 365 user accounts, licenses, and groups with PowerShell
- Manage Exchange Online with PowerShell
- Manage SharePoint Online with PowerShell
- Manage Microsoft Teams with PowerShell

Module 11: Using background jobs and scheduled jobs

- Use background jobs
- Use scheduled jobs

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