
Automating Administration with Windows PowerShell

Varighed: 5 Days Kursus Kode: M10961

Beskrivelse:

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. 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 Exchange Server, Microsoft SharePoint Server, Microsoft SQL Server, System Center, and more. 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.

Målgruppe:

This course is intended for IT Professionals who are already experienced in general Windows Server and Windows Client administration, and who want to learn more about using Windows PowerShell for administration. No prior experience with any version of Windows PowerShell, or any scripting language, is assumed. This course is also suitable for IT Professionals already experienced in server administration, including Exchange Server, SharePoint Server, SQL Server, System Center, and others.

Agenda:

- 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.
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Forudsætninger:

- 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.
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Indhold:

Module 1: Getting started with Windows PowerShell This module will introduce you to Windows PowerShell and provide an overview of the product's functionality. The module shows you how to open and configure the shell for use and how to run commands within the shell. The module also introduces the built-in Help system in Windows PowerShell. Lessons

- 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 After completing this module, students will be able to:
 - Open and configure Windows PowerShell.
 - Find and run Windows PowerShell commands.
 - Run commands by using the correct command and parameter syntax.
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- 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

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- Identify and use cmdlets for Active Directory administration.
- Identify and use cmdlets for network configuration.
- Identify and use cmdlets for other server administration tasks.
- Module 3: Working with the Windows PowerShell pipeline This module introduces the pipeline feature of Windows PowerShell. Although the pipeline feature is included in several command-line shells such as the command prompt in
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- 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

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- Using advanced Windows PowerShell remoting techniques
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- Managing multiple computers
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Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

training@globalknowledge.dk

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Global Knowledge, Stamholmen 110, 2650 Hvidovre