
Advanced Automated Administration with Windows PowerShell

Varighed: 3 Days Kursus Kode: M10962

Beskrivelse:

Learn how to automate and streamline day to day management and administration tasks and functions in your Windows Server Infrastructure.

This three-day course is a follow on course from the 10961B: Automating Administration with Windows PowerShell course. It is built on Windows Server 2012 R2 and Windows 8.1 and while it is specifically focussed on Windows PowerShell v4.0, is also relevant in v2.0 and v3.0 Windows PowerShell environments.

Expand and build upon the knowledge already acquired in course 10961B and focus on building more scalable and usable Windows PowerShell scripts for use in your organization by building your own Windows PowerShell tools. Learn about areas such as the creation of advanced functions, script modules, advanced parameters attributes and controller scripts. Also learn how to make your scripts more robust by learning about handling script errors and the analysis and debugging Windows PowerShell scripts. The course will also cover the use of Windows PowerShell cmdlets with .NET Framework as well as teaching how to configure your Windows Servers using Desired State Configuration and providing an understanding of Windows PowerShell workflow.

The detailed hands on labs and in depth content and learning will help remove manual tasks that you may currently have to perform as an Administrator, allowing you to make your own Windows PowerShell tools for automated, repeated, accurate management and provisioning of your Windows Server infrastructure.

Målgruppe:

This course is intended for IT Professionals already experienced in general Windows Server and Windows Client administration or already experienced in administering and supporting Application servers and services including applications such as Exchange, SharePoint, and SQL. System, Infrastructure and Application Administrators working in a Windows or Windows hybrid environment will all find this course relevant to their day to day jobs and future career and skills development.

The course is also intended for IT Professionals who want to build upon existing Windows PowerShell knowledge and skill to learn how to build their own tools for broader general use in their organization, using any Microsoft or independent software vendor (ISV) product that supports Windows PowerShell manageability.

Agenda:

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|------------------------------------------------------------------|---------------------------------------------------------------------|
| ■ Create Advanced Functions | ■ Use XML Data Files |
| ■ Use Cmdlets and Microsoft .NET Framework in Windows PowerShell | ■ Manage Server Configurations by Using Desired State Configuration |
| ■ Write Controller Scripts | ■ Analyze and Debugging Scripts |
| ■ Handle Script Errors | ■ Understand Windows PowerShell Workflow |
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Forudsætninger:

- Knowledge and experience working with Windows PowerShell or knowledge equivalent to the content covered in course 10961B: Automating Administration with Windows PowerShell
- Experienced in general Windows Server and Windows Client administration or already experience in administering and supporting Application servers and services including applications like Exchange, SharePoint, and SQL.

Indhold:

Module 1: Creating Advanced Functions

- Converting a Command into an Advanced Function
- Creating a Script Module
- Defining Parameter Attributes and Input Validation
- Writing Functions that use Multiple Objects
- Writing Functions that Accept Pipeline Input
- Producing Complex Function Output
- Documenting Functions by using Content-Based Help
- Supporting -Whatif and -Confirm

Lab : Converting a Command into an Advanced Function

- Converting a Command into an Advanced Function

Lab : Creating a Script Module

- Creating a Script Module

Lab : Defining Parameter Attributes and Input Validation

- Defining Parameter Attributes and Input Validation

Lab : Writing Functions that use Multiple Objects

- Writing Functions that use Multiple Objects

Lab : Writing Functions that Accept Pipeline Input

- Writing Functions that Accept Pipeline Input

Lab : Producing Complex Function Output

- Producing Complex Function Output

Lab : Documenting Functions by using Content-Based Help

- Documenting Functions by using Content-Based Help

Lab : Supporting -Whatif and -Confirm

- Supporting -Whatif and -Confirm

Module 2: Using Cmdlets and Microsoft .NET Framework in Windows PowerShell

- Running Windows PowerShell Commands
- Using Microsoft .NET Framework in Windows PowerShell

Lab : Using .NET Framework in Windows PowerShell

- Using Static and Instance Members

Module 3: Writing Controller Scripts

- Understanding Controller Scripts
- Writing Controller Scripts that Show a User Interface

Lab : Writing Controller Scripts that Display a User Interface

- Write Functions to be Used in the Controller Script
- Write a Controller Script that Implements a Text-Based Menu

Module 4: Handling Script Errors

- Understanding Error Handling
- Handling Errors in a Script

Lab : Handling Errors in a Script

- Handling Errors in a Script

Module 5: Using XML Data Files

- Reading, Manipulating and Writing Data in XML

Lab : Reading, Manipulating and Writing Data in XML

- Test the Provided Tools
- Update an XML Inventory Document

Module 6: Managing Server Configurations by Using Desired State Configuration

- Understanding Desired State Configuration
- Creating and Deploying a DSC Configuration

Lab : Creating and Deploying a DSC Configuration

- Write, Run and Push a DSC Configuration

Module 7: Analyzing and Debugging Scripts

- Debugging in Windows PowerShell
- Analyzing and Debugging and Existing Script

Lab : Analyzing and Debugging and Existing Script

- Analyzing and Debugging and Existing Script

Module 8: Understanding Windows PowerShell Workflow

- Understanding Windows PowerShell Workflow

Flere Informationer:

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

training@globalknowledge.dk

www.globalknowledge.com/da-dk/

Global Knowledge, Stamholmen 110, 2650 Hvidovre