

PRG990 : Scripting met Powershell

Code :

PRG990

Duration :

3 days

Category :

Scripting

Audience :

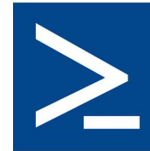
This course is intended for Windows system administrators and other interested persons who want to use PowerShell to manage Windows and Windows applications.

Prerequisites :

To participate in this course general skills in working with computers and working knowledge of Windows is required.

Realization :

The theory is treated on the basis of presentation slides. The concepts are illustrated with demos. The theory is interspersed with exercises.



Scripting with Powershell



Contents :

In the course Scripting with PowerShell, participants learn to use PowerShell to manage Windows Servers. Incidentally PowerShell can also be used well for the management of other products and that too is discussed. Participants learn to use PowerShell from the command line and they learn to use the Integrated Scripting Editor. Further the operators, variables, data types and control flow structures are discussed. Also the calling of functions and creating of functions and the handling of errors is on the agenda. Accessing files, directories and registry with PowerShell is part of the course as well. Separate modules in the course are devoted to PowerShell Remoting and dealing with WMI. Finally attention is paid to some advanced topics such as performing administrative tasks related to Active Directory and IIS. After completing the course participants can use simple commands and ready made scripts to perform common management tasks faster.

Module 1 : Powershell Intro

- Basics of PowerShell
- Interactive shell
- Customizing PowerShell
- Aliases in PowerShell
- Basic commands
- PowerShell Providers
- dotNet in PowerShell
- Overview CmdLets
- Integrated Scripting Editor
- Commands and expressions

Module 2 : Variables

- Variables
- Cmdlets
- Booleans
- Strings
- Numbers
- Arrays
- Hash Tables
- Built in variables
- XML
- Operators

Module 3 : Control flow

- Control Flow
- Branching
- Conditional Statements
- if, then, else
- Comparison Operators
- PowerShell Looping
- Script Blocks
- Variable Scope
- Object
- Properties

Module 4 : Functions

- Code reuse
- Using Functions
- Standard functions
- Creating functions
- Passing parameters
- Using return values
- Custom help
- Handling errors
- Accessing Files

Module 5 : Remoting

- Understanding WinRM and WSMAN
- WSMAN Security
- Enabling and Configuring
- Disabling Remoting
- The WSMAN Provider
- Trusted Hosts
- Configuring Remoting
- Using PSSessions

Module 6 : WMI

- What is WMI?
- WMI Support
- Get-WMI Object
- Using the Get-WmiObject Cmdlet
- WMI Object Properties
- Instance Methods
- WMI Type Accelerators
- Namespaces and Classes
- Accessing WMI Performance Counters
- WMI Security

Module 7 : Powershell Advanced

- Registry Access
- Pipelines
- Active Directory
- Group policies
- IIS
- Exchange
- Other products