Advanced Scripting with PowerShell for Administrators

Course code: GOC179

This five-days course builds on the basic scripting knowledge that students receive on the official GOC216 and extends their skills in advanced scripting concepts. Students will learn deep details about the PowerShell language syntax, constructs and its internal parsing mechanisms. They will obtain hands on experience developing complex administrative scripts combining various technologies such as ADSI, WMI, .NET Framework and few PowerShell extensions of different application platforms such as Exchange, SharePoint, System Center or those included with Windows Server 2012 and higher.

Affiliate	Duration	Course price	ITB	
Praha	5	28 500 Kč	50	
Brno	5	28 500 Kč	50	
Bratislava	5	1 250 €	50	

The prices are without VAT.

Course terms

	Date	Duratio n	Course price	Туре	Course language	Location
G	16.09.2024	5	28 500 Kč	Presence	CZ/SK	GOPAS Praha
	07.10.2024	5	1 250 €	Presence	CZ/SK	GOPAS Bratislava prezenčne
G	18.11.2024	5	28 500 Kč	Presence	CZ/SK	GOPAS Praha
	16.12.2024	5	1 250 €	Presence	CZ/SK	GOPAS Bratislava prezenčne
	16.12.2024	5	28 500 Kč	Presence	CZ/SK	GOPAS Brno
	17.02.2025	5	28 500 Kč	Presence	CZ/SK	GOPAS Praha
	10.03.2025	5	28 500 Kč	Presence	CZ/SK	GOPAS Brno
	12.05.2025	5	28 500 Kč	Presence	CZ/SK	GOPAS Praha

The prices are without VAT.

Who is the course for

The course is primarily designed for IT administrators who already use PowerShell or who have gained its working knowledge (e.g. at MOC10325 course). It is designed for those who want to learn advanced techniques of programming in PowerShell and learn the possibilities of Windows operating system administration both via the interface of PowerShell command line and Power Shell language scripts into the details.

What we teach you

The participants in this course will be able to administer Windows operating systems using modern techniques via a command line and related scripting technologies. They will learn basic principles of working in PowerShell environment and familiarize themselves with other tools for setting the automatic administrator's tasks. The students will get besides other things the total overview of up to date possibilities of administration outsider a graphical user interface.

Required skills

The knowledge of courses listed in Previous Courses and Related Courses section Good knowledge of TCP/IP and DNS technologies

Course outline

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Advanced Scripting with PowerShell for Administrators

Traditional command line
External extension
WSH and WMI

Possibilities of scripting in Windows overview

Basic operation in PowerShell environment

Starting up and initial setting
Commandlets
Saving and starting up your own scripts
Use of Help

Data flow in a script

The principle and using of pipeline
Data entry
Formatting of data output
Managing variables and operators
Basic structure of the language

Conditions

Cycles

Blocks

Function

Objects and .NET platform

Advanced features of objects
.NET Framework thoroughly
Text processing
Object pipeline

Advanced techniques

Regular expressions and their use Processing of fault states Work with XML format

Operation system administration

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Advanced Scripting with PowerShell for Administrators

Log reading, sorting them out and recording Interactive handling of operating system Real time tracking

Work with PS objects

File system
Registry database
Certificate repository

Use of traditional interfaces and technologies

Establishing COM cooperation

Coexistence with WSH word

WMI technology in PowerShell environment

Advanced administration

Operating the remote devices
Planned and automated tasks
MS Exchange 2007 server administration

Other Windows technologies

Windows Remote Management
WMIC console
WSH and Perl,Python and Ruby languages
LogParser

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