Microsoft Learn
Spark possibility

Microsoft

AZ-040

Automating Administration with PowerShell

Physik

NT 4.0

GitHub

Azure

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brainymotion

Lead Trainer Cloud Infrastructure

Microsoft Certified Trainer since 1999

github.com/www42/AZ-040

Let's get to know each other
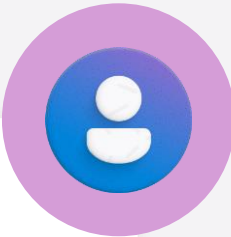
Your name

Company affiliation

Title/function

Your experience

Your expectations
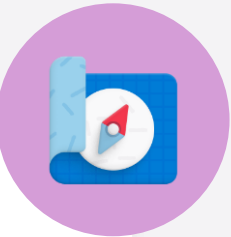for the course

Let's have a great time together

We all contribute to a great class

- Be on time (class hours)
- Be present (avoid mail, calls, side meetings)

$$9^{00} - 17^{00}$$
$$12^{30} - 13^{30}$$

What you should know about our facilities

- Internet access
- Parking
- Restrooms
- Emergency

About this course

Overview

- This course teaches you how to use PowerShell to automate administration of Windows servers..

The Automating Administration with PowerShell course could be a great fit for you if you'd like to:

- Build scripts to accomplish advanced tasks such as automating repetitive tasks and generating reports.

- Automate administration across a broad range of Microsoft products, including Windows Server, Windows Client, Microsoft Azure, and Microsoft 365.

Course outline

Learning Path 1: Getting started with Windows PowerShell

Learning Path 2: Windows PowerShell for local systems administration

Learning Path 3: Working with the Windows PowerShell pipeline

Learning Path 4: Using PSProviders and PSDrives

Learning Path 5: Querying management information by using CIM and WMI

Learning Path 6: Working with variables, arrays, and hash tables

Learning Path 7: Windows PowerShell scripting

Learning Path 8: Administering remote computers with Windows PowerShell

Learning Path 9: Managing Azure resources with PowerShell

Learning Path 10: Managing Microsoft 365 services with PowerShell

Learning Path 11: Using background jobs and scheduled jobs

Handwritten annotations:
Lab

dir Cert: HKLM: item
$PSVersiontable
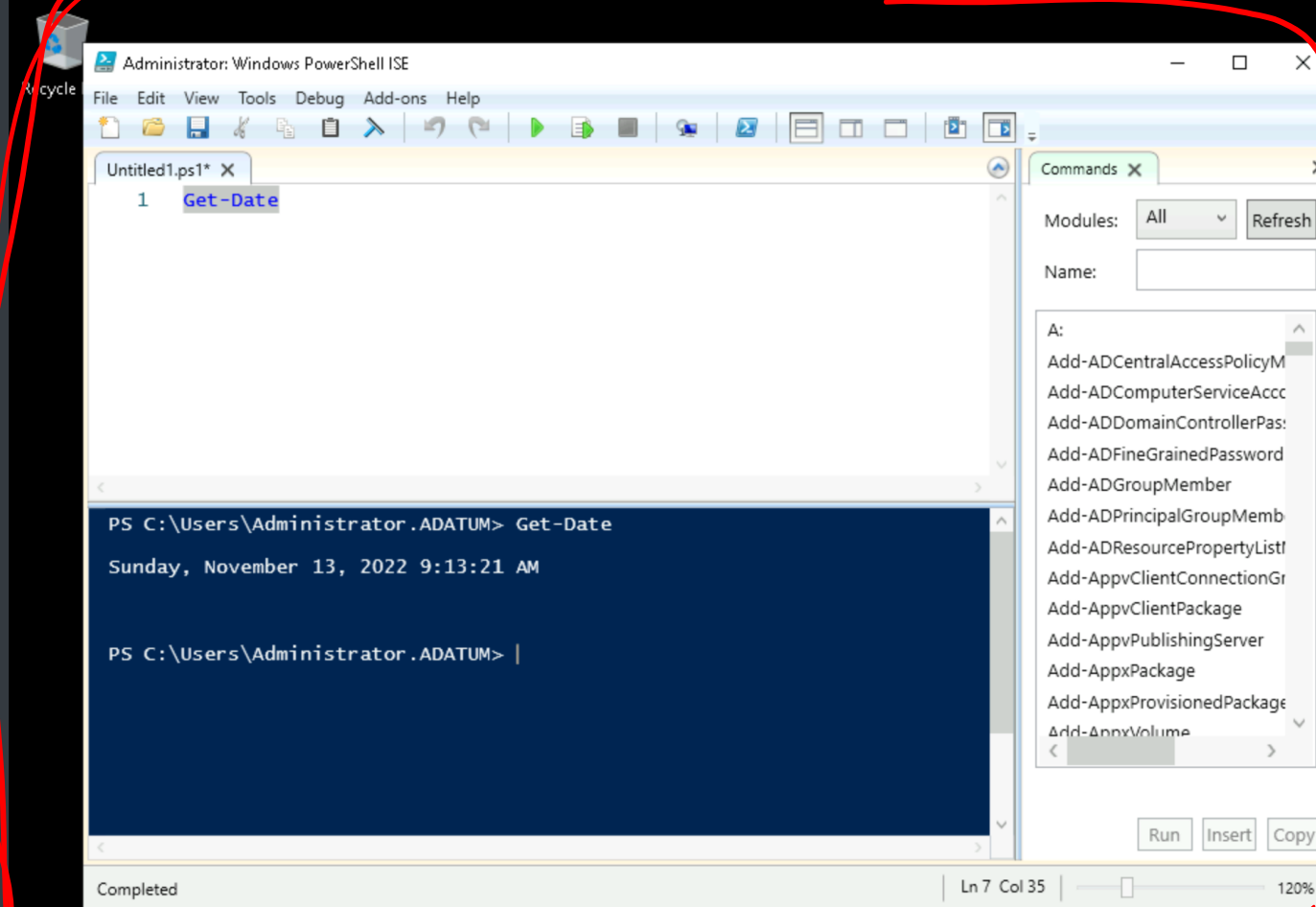WS-Man → WinRM

go deploy - Lab Umgebung

go deploy AZ-040T00 (CS) | Lab 01

Home | Lab Guide | Microsoft Learn

Lab Guide

Task 1: Start the console application as Administrator, and pin the Windows PowerShell icon to the taskbar

☑ 1. On 🖥 **LON-CL1**, send the 🔲 **CTRL+ALT+DEL** command and then log in as 📋 **ADATUM\Administrator** with the password 📋 **Pa55w.rd**.

☑ 2. Select **Start**.

☐ 3. Enter **powershell** to display the Windows PowerShell icon. Make sure that the icon name displays **Windows PowerShell** and not **Windows PowerShell (x86)**.

☐ 4. Right-click **Windows PowerShell** or activate its context menu, and then select **Run as administrator**.

☐ 5. Make sure that the window title bar reads **Administrator** and doesn't include the text **(x86)**. This indicates that it is the 64-bit console application and that an administrator is running it.

☐ 6. On the taskbar, right-click the **Windows PowerShell** icon or

⏱ 00:16:21

Administrator: Windows PowerShell ISE

File Edit View Tools Debug Add-ons Help

Untitled1.ps1* ✕

1   Get-Date

PS C:\Users\Administrator.ADATUM> Get-Date

Sunday, November 13, 2022 9:13:21 AM

PS C:\Users\Administrator.ADATUM> |

Commands ✕

Modules: All   Refresh

Name:

A:
Add-ADCentralAccessPolicyM
Add-ADComputerServiceAccc
Add-ADDomainControllerPas:
Add-ADFineGrainedPassword
Add-ADGroupMember
Add-ADPrincipalGroupMemb
Add-ADResourcePropertyListI
Add-AppvClientConnectionGr
Add-AppvClientPackage
Add-AppvPublishingServer
Add-AppxPackage
Add-AppxProvisionedPackage
Add-AppxVolume

Run Insert Copy

Completed   Ln 7 Col 35   120%

Start   Type here to search   ENG   9:13 AM   11/13/2022

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