Microsoft

Microsoft Learn
Spark possibility

AZ-040

Automate Administration with PowerShell

ADN®

ADN – Advanced Digital Network Distribution GmbH

1999 NT 4.0
2000 AD
AzureAD → EntraID
Heidelberg
Azure
LM365

Thomas Jäkel
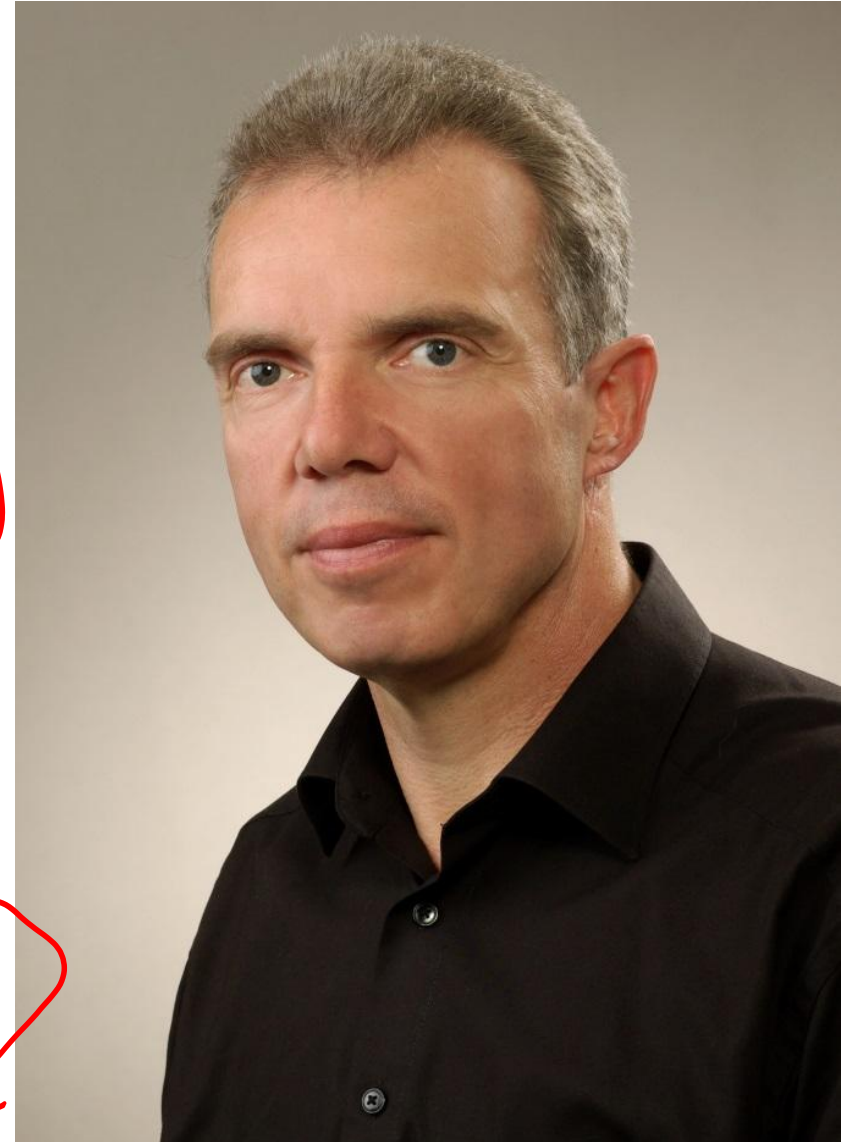
Lead Trainer Cloud Infrastructure

Microsoft Certified Trainer since 1999

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PS + Git
GitHub

github.com/www42/AZ-040

About this course

Microsoft Learn LP

Overview

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

+ move

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.

Agenda

AZ-040

LP 1   Get started with Windows PowerShell   *5   7   PS Console   ISE   ...   Help*

LP 2   Maintain system administration tasks in Windows PowerShell   *cmdlet / func*

LP 3   Work with the Windows PowerShell pipeline

LP 4   Work with PowerShell providers and PowerShell drives in Windows PowerShell

LP 5   Querying management information by using CIM and WMI   *Get-ChildItem*

LP 6   Use variables, arrays, and hash tables in Windows PowerShell scripts   *dir   Alias   dir HKLM: dir Cert:*

LP 7   Create and modify scripts by using Windows PowerShell   *$ @()   @{}   json   yml   function   modules*

LP 8   Administer remote computers by using Windows PowerShell   *AD*

LP 9   Manage cloud resources by using Windows PowerShell   *Azure*

LP 10   Manage Microsoft 365 services by using Windows PowerShell   *Azure AD   Entra ID*

LP 11   Create and manage background jobs and scheduled jobs in Windows PowerShell

Let's get to know each other

Theoria cum Praxi (handwritten annotation)

Your name

Company affiliation

Title/function

Your experience

Your expectations
for the course

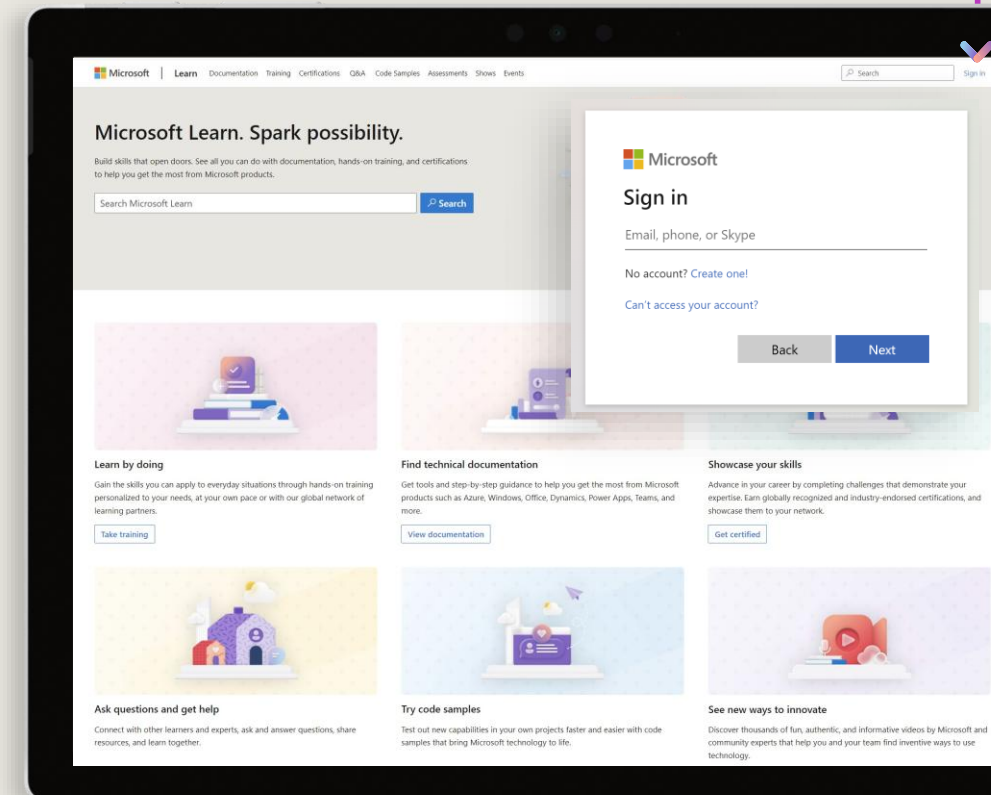# Get the most out of your Microsoft Learn profile

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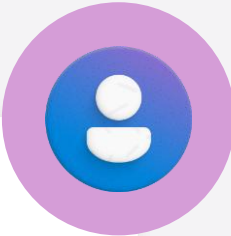**www.aka.ms/MyMicrosoftLearnProfile**

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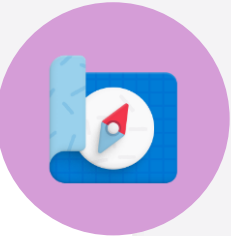# Let's have a great time together

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}

15 min   Fr. 15^{00}

What you should know about our facilities

- Internet access
- Parking
- Restrooms
- Emergency

Skillable - Lab Umgebung

½ Jahr

Save

AZ-040T00 Automating Administration with Windows PowerShell - Personal - Microsoft Edge

https://labclient.labondemand.com/LabClient/8a3545a1-29f9-4f0e-9d59-bd8db8b88d5b

AZ-040T00A-LON-CL1 ∨

AZ-040T00 Automating Administration with Windows PowerShell

✕ Exit Lab

Instructions   Resources

Exercise 1: Configuring the Windows PowerShell console application

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

1. On 🖥 AZ-040T00A-LON-CL1, select **Start**.

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

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

4. 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.

5. On the taskbar, right-click the **Windows PowerShell** icon or activate its context menu, and then select **Pin to taskbar**. The **Windows PowerShell console** should now be open, run by **Administrator**, and available on the taskbar for future use.

Task 2: Configure the Windows PowerShell console application

1. To configure Windows PowerShell to use the **Consolas** font:

   a. Select the control box in the upper-left corner of the **Windows PowerShell console** window.

← Previous   Next →

29 Hr 54 Min Remaining

End of presentation