



# Microsoft Learn Spark possibility

Guten Morgen!

AZ-500

# Microsoft Azure Security Technologies

Seminar startet um 9<sup>00</sup> Uhr.



# Thomas Jäkel

brainymotion

Lead Trainer Cloud Infrastructure

Microsoft Certified Trainer since 1999

PowerShell Az.\*

[github.com/www42/az-500](https://github.com/www42/az-500)

Berlin Physik  
→ Heidelberg  
NT 4.0  
Azure  
Copilot



# Agenda

Learning Path

Learning Path 1: Manage identity and access

Entra ID

Learning Path 2: Secure networking

NSG, ASG,

Learning Path 3: Secure compute, storage, and databases

AZ-500: Manage identity and access  
6 hr 24 min • Learning Path • 4 units

AZ-500: Secure networking  
3 hr 12 min • Learning Path • 3 units

AZ-500: Secure compute, storage, and databases  
3 hr 52 min • Learning Path • 3 units

AZ-500: Manage security operations  
5 hr 15 min • Learning Path • 4 units

Learning Path 4: Manage security operations

- Azure Monitor
- Defender for Cloud 42%
- Sentinel SIEM



# Let's get to know each other

Your name

Company affiliation

Title/function

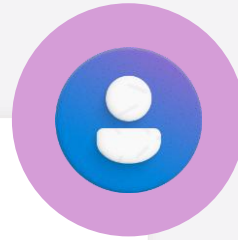
Your experience

Your expectations  
for the course



# Let's have a great time together

## We all contribute to a great class



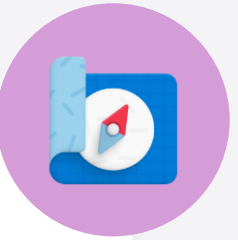
- Be on time (class hours)
- Be present (avoid mail, calls, side meetings)

9<sup>00</sup> - 17<sup>00</sup>  
12<sup>30</sup> - 13<sup>30</sup>

15 min

15 min

## What you should know about our facilities



- Internet access
- Parking
- Restrooms
- Emergency

# Get the most out of your Microsoft Learn profile

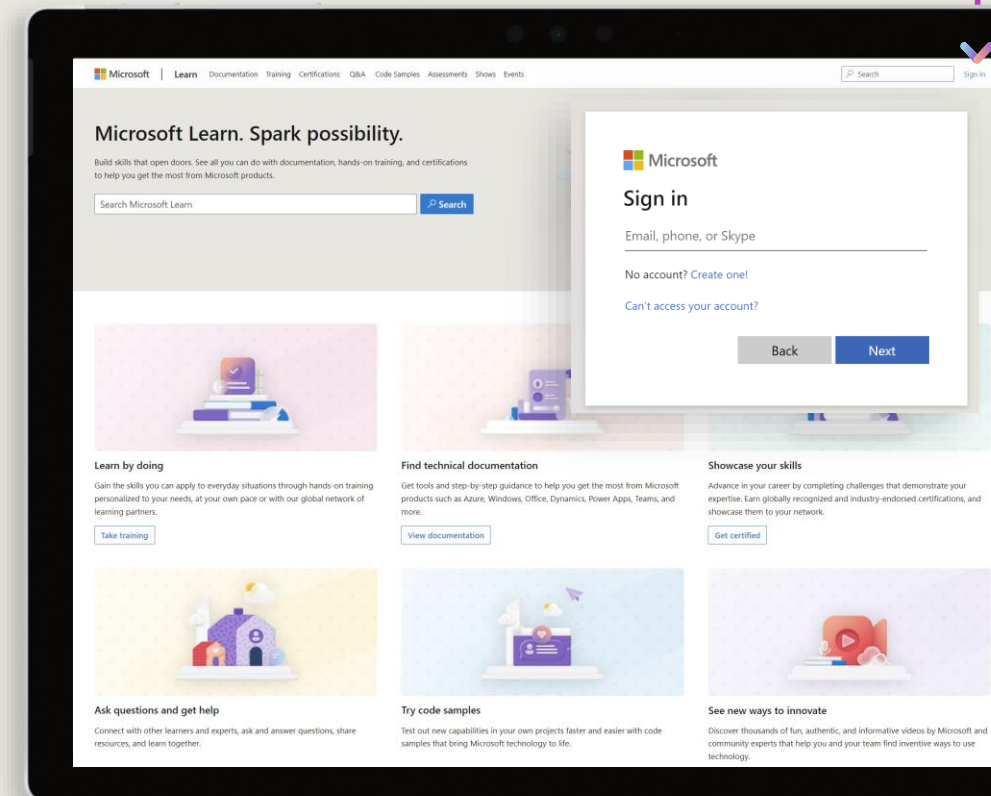
Verify, track, and share your training and certification progress and accomplishments—*all on one platform*

- Claim your achievement code for this course and share you have completed it.
- Access your course material and track progress on your learning activities.
- Share and verify your Microsoft Certifications via email, on social networking platforms, and on your résumé.
- Download and print transcripts and certificates.
- Manage your upcoming activities and certification exam appointments.

[www.aka.ms/MyMicrosoftLearnProfile](https://www.aka.ms/MyMicrosoftLearnProfile)

## Create your Microsoft Learn profile at [learn.microsoft.com](https://learn.microsoft.com)

- Select *Sign in* at the top, right corner of any Microsoft Learn page.
- Follow the Microsoft account authentication process.
- If the account that you have chosen to sign-in with doesn't already have a Microsoft Learn profile, you'll be guided to create one.





# Become Microsoft Certified

Learn more at: [microsoft.com/credentials](https://aka.ms/TrainCertPoster)

Full certification title

- ★ Expert certification
- 🔒 This certification has prerequisites
- MB-200 MB-310 Exam requirements

|   | Infrastructure   | Data and AI   |   | Digital app and innovation                             | Modern work  | Business applications   |   |  | Security   |
|---|--|---|---|--|--|---|---|--|--|
| Fundamentals<br>Master the basics                                       | <div>Azure Fundamentals</div> <div>AZ-900</div>                            | <div>Azure AI Fundamentals</div> <div>AI-900</div>                  | <div>Azure Data Fundamentals</div> <div>DP-900</div>            |  | <div>Microsoft 365 Fundamentals</div> <div>MS-900</div>                              | <div>Dynamics 365 Fundamentals (CRM)</div> <div>MB-910</div>                                    | <div>Dynamics 365 Fundamentals (ERP)</div> <div>MB-920</div>                                      | <div>Power Platform Fundamentals</div> <div>PL-900</div>                       | <div>Security, Compliance, and Identity Fundamentals</div> <div>SC-900</div> |
| Role-based<br>Expand your technical skill set                           | <div>Azure Administrator Associate</div> <div>AZ-104</div>                 | <div>Azure AI Engineer Associate</div> <div>AI-102</div>            | <div>Power BI Data Analyst Associate</div> <div>PL-300</div>    | <div>Azure Developer Associate</div> <div>AZ-204</div> | <div>Endpoint Administrator Associate</div> <div>MD-102</div>                        | <div>Dynamics 365 Sales Functional Consultant Associate</div> <div>MB-210</div>                 | <div>Dynamics 365 Finance Functional Consultant Associate</div> <div>MB-310</div>                 | <div>Dynamics 365 Business Central Developer Associate</div> <div>MB-620</div> | <div>Azure Security Engineer Associate</div> <div>AZ-500</div>               |
|   | <div>Azure Solutions Architect Expert</div> <div>AZ-305</div>              | <div>Azure Data Scientist Associate</div> <div>DP-100</div>         | <div>Azure Data Engineer Associate</div> <div>DP-203</div>      | <div>DevOps Engineer Expert</div> <div>AZ-400</div>    | <div>Administrator Expert</div> <div>MS-102</div>                                    | <div>Dynamics 365 Customer Service Functional Consultant Associate</div> <div>MB-230</div>      | <div>Dynamics 365 Supply Chain Management Functional Consultant Associate</div> <div>MB-330</div> | <div>Power Platform Functional Consultant Associate</div> <div>PL-200</div>    | <div>Cybersecurity Architect Expert</div> <div>SC-100</div>                  |
|   | <div>Azure Network Engineer Associate</div> <div>AZ-700</div>              | <div>Azure Database Administrator Associate</div> <div>DP-300</div> | <div>Azure Analytics Engineer Associate</div> <div>DP-600</div> |  | <div>Collaboration Communications Systems Engineer Associate</div> <div>MS-721</div> | <div>Dynamics 365 Finance and Operations Apps Solution Architect Expert</div> <div>MB-700</div> | <div>Dynamics 365 Supply Chain Management Functional Consultant Expert</div> <div>MB-335</div>    | <div>Power Platform Developer Associate</div> <div>PL-400</div>                | <div>Security Operations Analyst Associate</div> <div>SC-200</div>           |
|   | <div>Windows Server Hybrid Administrator Associate</div> <div>AZ-800</div> |   |   |  | <div>Teams Administrator Associate</div> <div>MS-700</div>                           | <div>Dynamics 365 Field Service Functional Consultant Associate</div> <div>MB-240</div>         | <div>Dynamics 365 Finance and Operations Apps Developer Associate</div> <div>MB-500</div>         | <div>Power Automate RPA Developer Associate</div> <div>PL-500</div>            | <div>Identity and Access Administrator Associate</div> <div>SC-300</div>     |
| Specialty<br>Deepen your technical skills and manage industry solutions | <div>Azure for SAP Workloads Specialty</div> <div>AZ-120</div>             | <div>Azure Cosmos DB Developer Specialty</div> <div>DP-420</div>    |   |  |  | <div>Dynamics 365 Customer Experience Analyst Associate</div> <div>MB-260</div>                 |   |  |  |
|   | <div>Azure Virtual Desktop Specialty</div> <div>AZ-140</div>               |   |   |  |  |   |   |  |  |

aka.ms/CertificationsPoster | LAST UPDATED JUNE 2024

Access this document in these additional languages.  
The English version of this document always has the most up-to-date information.

Brazilian Portuguese Chinese Simplified English French German Japanese Spanish

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## Security

Security, Compliance, and Identity Fundamentals

SC-900

Azure Security Engineer Associate

AZ-500

Cybersecurity Architect Expert

SC-100

Security Operations Analyst Associate

SC-200

Identity and Access Administrator Associate

SC-300

Information Protection and Compliance Administrator Associate

SC-400

<https://aka.ms/TrainCertPoster>

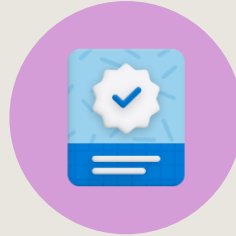


# Become Microsoft Certified

\*  
AZ-900

\* \*  
AZ-500

\*  
\* \*  
AZ-305



92%

of certified IT professionals feel more confident  
in their abilities after earning certifications<sup>1</sup>

Get recognized by earning industry validation for technical knowledge. Ensure you stay current with the necessary skills and expertise for continued success.

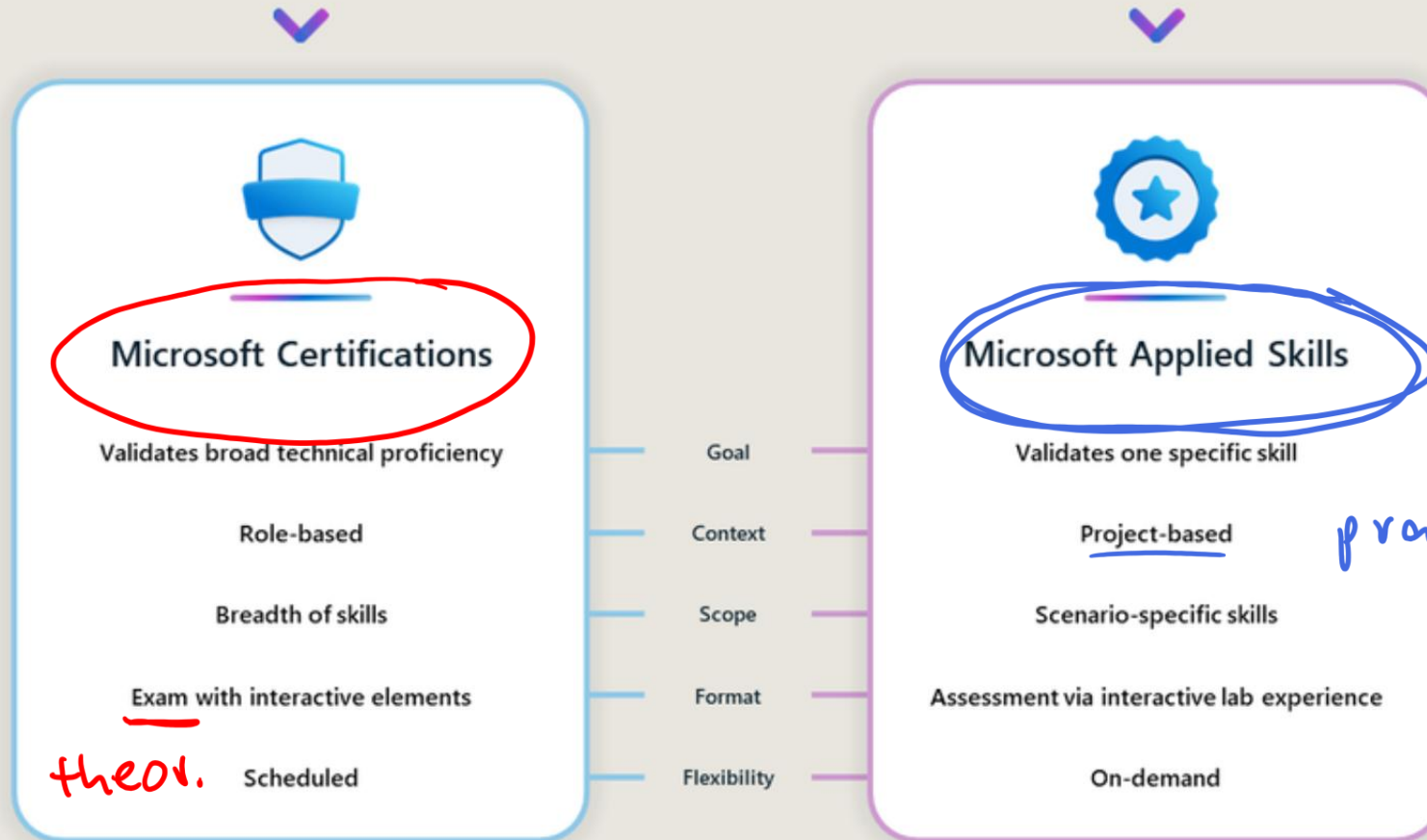
Start at [learn.microsoft.com/certifications](https://learn.microsoft.com/certifications)

Microsoft role-based and specialty certifications require annual renewal.<sup>2</sup>

Learn about certification renewal at  
[aka.ms/RenewYourCert](https://aka.ms/RenewYourCert)

<sup>1</sup> "2023 Value of IT Certification | Candidate Report," Pearson VUE, 2023 <sup>2</sup> Microsoft fundamentals certifications don't expire

Choose the path that fits your career goals, desired skills, and experience



theor.

165 €

0 €

praktisch  
2h  
email  
Azure

# AZ-500 Labs

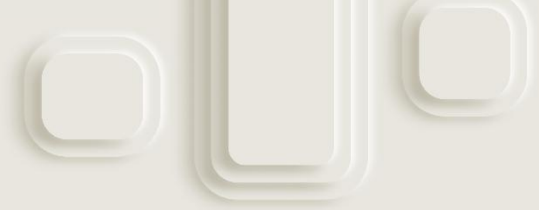
skillable

SOLUTIONS

LEARN

COMPANY

LOGIN



## AZ-500T00-A Microsoft Azure Security Technologies: Hands-on Labs



### Role-Based Access Control (Expected Duration 1 hours, 30 minutes)

AZ-500T00-A Microsoft Azure Security Technologies [Cloud Slice Provided], Lab 01 (CSS)

Launch

10 of 10 launch attempts remaining



### Network Security Groups and Application Security Groups (Expected Duration 1 hours, 30 minutes)

AZ-500T00-A Microsoft Azure Security Technologies [Cloud Slice Provided], Lab 02 (CSS)

Launch

10 of 10 launch attempts remaining



### Azure Firewall (Expected Duration 3 hours)

AZ-500T00-A Microsoft Azure Security Technologies [Cloud Slice Provided], Lab 03 (CSS)

Launch

10 of 10 launch attempts remaining



### Configuring and Securing ACR and AKS (Expected Duration 1 hours, 30 minutes)

AZ-500T00-A Microsoft Azure Security Technologies [Cloud Slice Provided], Lab 04 (CSS)

Launch

10 of 10 launch attempts remaining



Azure Monitor, Microsoft Defender for cloud, Microsoft Sentinel - Personal - Microsoft Edge

https://labclient.labondemand.com/LabClient/8f862af8-6c16-4020-8b90-2fc06aa335d8

Recycle Bin

Visual Studio Code

DEU DE 7:28 PM 5/31/2024

Azure Monitor, Microsoft Defender for cloud, Micros...  
5 Hr 38 Min Remaining

Instructions Resources Help 100%

### Instructions

Exercise 1: Deploy an Azure virtual machine

Exercise timing: 10 minutes

In this exercise, you will complete the following tasks:

- Task 1: Deploy an Azure virtual machine.

Task 1: Deploy an Azure virtual machine

1. Sign-in to the Azure portal  
<https://portal.azure.com/>

Sign in to the Azure portal using an account that has the Owner or Contributor role in the Azure subscription you are using for this lab. In this **Cloudslice** lab, this account is **LabUser-41215942@LODSPRODMCA.onmicrosoft.com** with password **eBdD0h#1B!**.

2. Open the Cloud Shell by clicking the first icon in the top right of the Azure Portal. If prompted, select **PowerShell** and **Create storage**.
3. Ensure **PowerShell** is selected in the drop-down menu in the upper-left corner of the Cloud Shell pane.
4. In the PowerShell session within the Cloud Shell pane, run the following to create a resource group that will be used in this lab:

0% Tasks Complete

< Previous Next >

9

End of presentation

