



Microsoft Learn Spark possibility

MS

DP



AI

AZ-500

Secure cloud resources
with Microsoft security
technologies



Physik Berlin

Heidelberg

Thomas Jäkel

1998

NT 4.0

AD

~~Novell~~

Lead Trainer Cloud Infrastructure

Microsoft Certified Trainer since 1999

2011 Windows Azure

2013 Azure

2016

<https://github.com/www42/az-500>



About this course

Purpose

- Helps students prepare for the new credential or day to day job tasks
- Bridges fundamental and associate level tasks
- Combines networking and cloud service security skills.
- Focuses on hands-on practice.

Prerequisites

- Practical experience in administration of Microsoft Azure and hybrid environments.
- Strong familiarity with compute, network, and storage in Azure, as well as Microsoft Entra ID.
- Familiarity with security management and vulnerability remediation techniques.
- Knowledge of threat modeling and implementation of threat protection measures.

Agenda

LP

1 Secure identity and access

Entra ID

2 Secure networking

TCP/IP

EndPoint EP

NSG

FW

WAF

3 Secure compute, storage, and databases

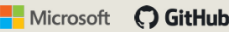
VM

AKS

Storage Account

4 Secure Azure using Microsoft Defender for Cloud and Microsoft Sentinel

SIEM
Security Portal



Certify with Microsoft and GitHub

Learn more at: https://aka.ms/ExploreCredentials



Fundamentals
Master the basics

Role-based
Expand your technical skill set

Specialty
Deepen your technical skills and manage industry solutions

Cloud & AI Platforms				AI Business Solutions				Security
<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>
<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 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>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>Fabric Analytics Engineer Associate</div> <div>DP-600</div>	<div>DevOps Engineer Expert</div> <div>AZ-400</div>	<div>Administrator Expert</div> <div>MS-102</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>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>Fabric Data Engineer Associate</div> <div>DP-700</div>		<div>Collaboration Communications Systems Engineer Associate</div> <div>MS-721</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>Security Operations Analyst Associate</div> <div>SC-200</div>
<div>Windows Server Hybrid Administrator Associate</div> <div>AZ-800 + AZ-801</div>				<div>Teams Administrator Associate</div> <div>MS-700</div>	<div>Dynamics 365 Customer Experience Analyst Associate</div> <div>MB-280</div>	<div>Dynamics 365 Business Central Functional Consultant Associate</div> <div>MB-600</div>	<div>Power Platform Solution Architect Expert</div> <div>PL-600</div>	<div>Identity and Access Administrator Associate</div> <div>SC-300</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>Information Security Administrator Associate</div> <div>SC-401</div>
<div>Azure for SAP Workloads Specialty</div> <div>AZ-120</div>	<div>Azure Cosmos DB Developer Specialty</div> <div>DP-420</div>	<div>Azure Virtual Desktop Specialty</div> <div>AZ-140</div>	<div>GitHub Copilot</div> <div>GH-300</div>					
<div>GitHub Actions</div> <div>GH-300</div>	<div>GitHub Foundations</div> <div>GH-900</div>	<div>GitHub Administration (beta)</div> <div>GH-100</div>						<div>GitHub Advanced Security</div> <div>GH-500</div>

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 Security Administrator Associate

SC-401

GitHub Advanced Security

GH-500

Let's get to know
each other

A7-500

Exam

↳ Cert.

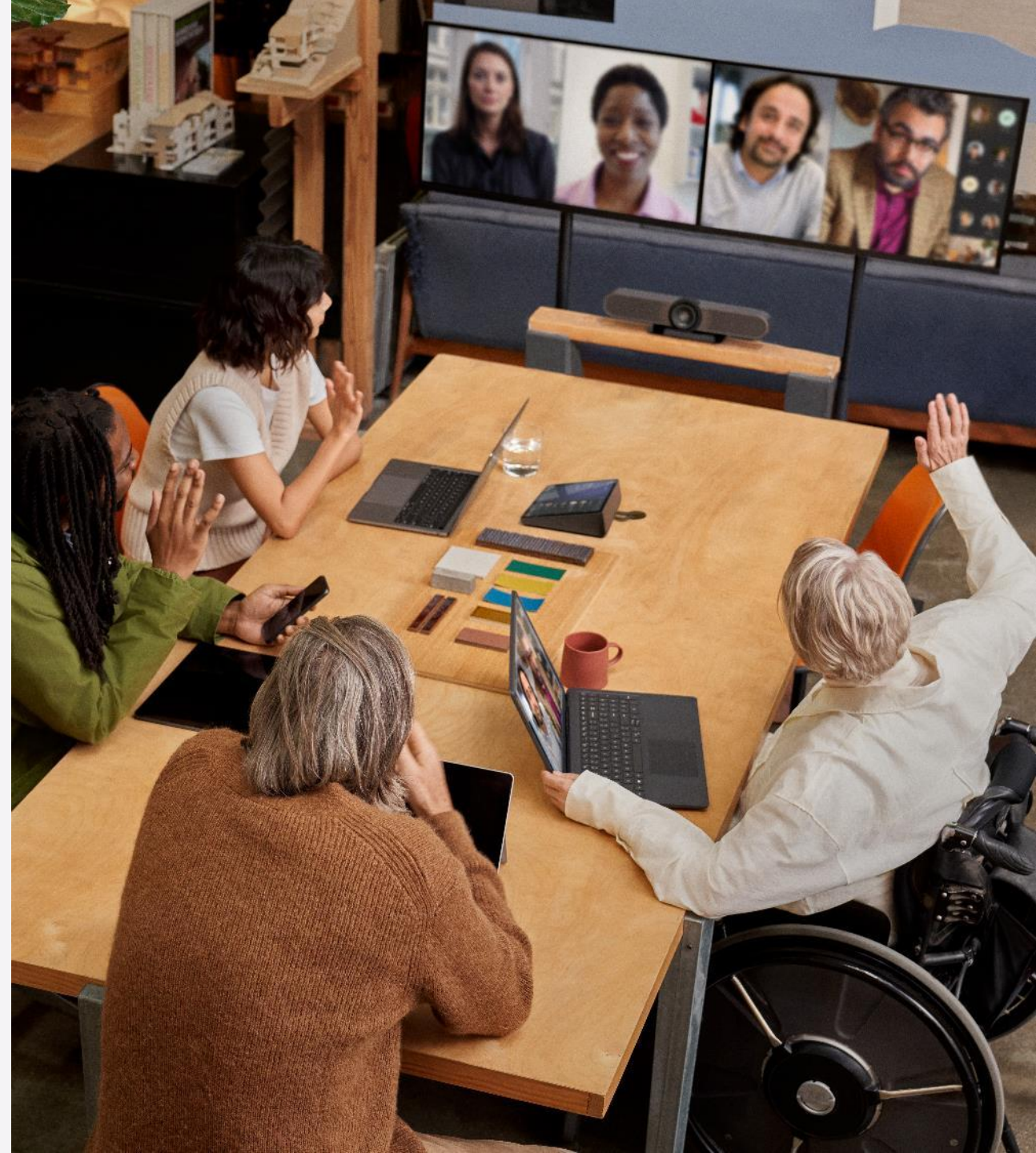
Your name

Company affiliation

Title/function

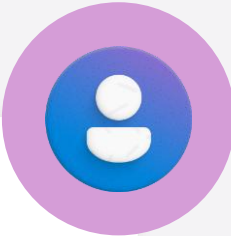
Your experience

Your expectations
for the course



Let's have a great time together

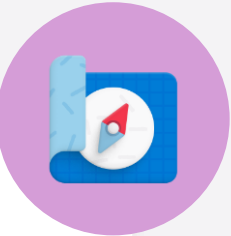
We all contribute to a great class



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

15 min 9⁰⁰ — 17⁰⁰
12³⁰ — 13³⁰
15 min

What you should know about our facilities



- Internet access
- Parking
- Restrooms
- Emergency

Get the most out of your Microsoft Learn profile

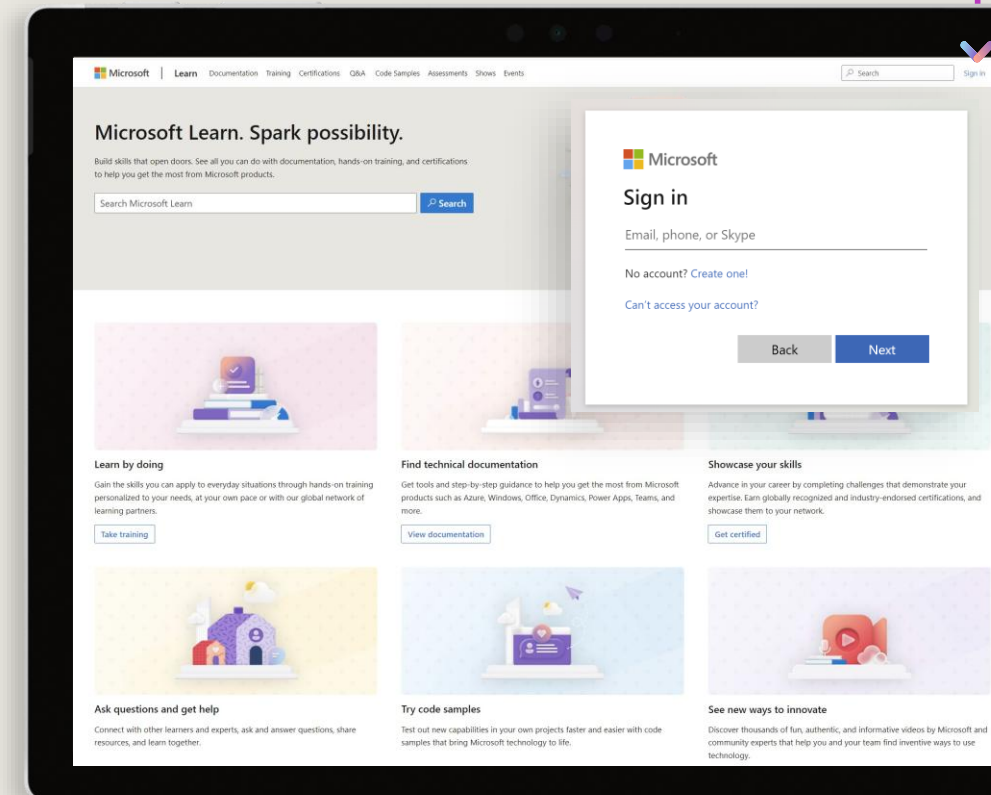
Verify, track, and share your training and certification progress and accomplishments—*all on one platform*

- 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

Create your Microsoft Learn profile at 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.



AZ-500 Labs

Theoria cum Praxi





go deploy
AZ-500T00 | Lab 1

Time remaining 01:28:22

HOME GUIDE MS LEARN

Lab Guide

Role Based Access Control



Lab 01: Role-Based Access Control

Lab scenario

You have been asked to create a proof of concept showing how Azure users and groups are created. Also, how role-based access control is used to assign roles to groups. Specifically, you need to:

- Create a Senior Admins group containing the user account of Joseph Price as its member.
- Create a Junior Admins group containing the user account of Isabel Garcia as its member.
- Create a Service Desk group containing the user account of Dylan Williams as its member.
- Assign the Azure Devops Administrator role to Dylan Williams.


Lab objectives


In this lab, you will complete the

END THIS LAB

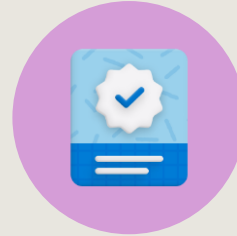
Recycle Bin

GoDeploy.it



ENG US  10:51 PM 2/15/2026

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92%

of certified IT professionals feel more confident
in their abilities after earning certifications¹

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Microsoft role-based and specialty certifications require annual renewal.²

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aka.ms/RenewYourCert

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