



Microsoft Learn Spark possibility

AZ-500

Secure cloud resources with Microsoft security technologies



Physik

AI
Security Copilot

NT 4.0

2011 Windows Azure
2013 Azure ARM

Heidelberg

Thomas Jäkel

brainymotion

Lead Trainer Cloud Infrastructure

Microsoft Certified Trainer since 1999

<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.

Azure

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

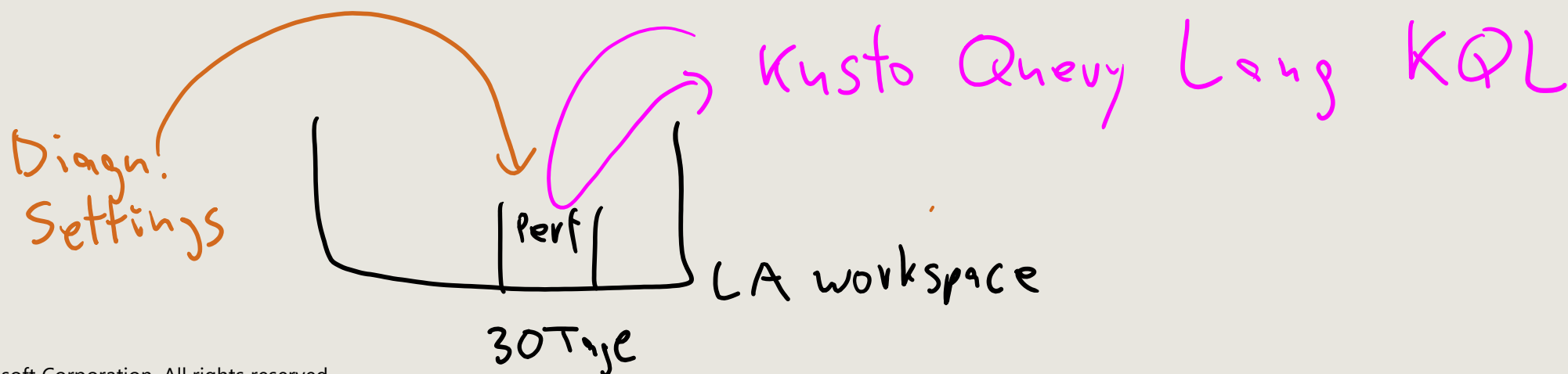
Learning Path

1 Secure identity and access

2 Secure networking

3 Secure compute, storage, and databases

4 Secure Azure using Microsoft Defender for Cloud and Microsoft Sentinel



Microsoft

GitHub

Certify with Microsoft and GitHub

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

Full certification title

MB-300 + MB-310

Expert certification

This certification has prerequisites

Exam requirements

	Cloud & AI Platforms	AI Business Solutions	Security
Fundamentals Master the basics	<div>Azure Fundamentals</div> <div>AZ-900</div>	<div>Microsoft 365 Fundamentals</div> <div>MS-900</div>	<div>Security, Compliance, and Identity Fundamentals</div> <div>SC-900</div>
	<div>Azure AI Fundamentals</div> <div>AI-900</div>	<div>Dynamics 365 Fundamentals (CRM)</div> <div>MB-910</div>	
Role-based Expand your technical skill set	<div>Azure Data Fundamentals</div> <div>DP-900</div>	<div>Dynamics 365 Fundamentals (ERP)</div> <div>MB-920</div>	
	<div>Azure Administrator Associate</div> <div>AZ-104</div>	<div>Power Platform Fundamentals</div> <div>PL-900</div>	<div>Security, Compliance, and Identity Fundamentals</div> <div>SC-900</div>
	<div>Azure AI Engineer Associate</div> <div>AI-102</div>	<div>Endpoint Administrator Associate</div> <div>MD-102</div>	<div>Azure Security Engineer Associate</div> <div>AZ-500</div>
	<div>Power BI Data Analyst Associate</div> <div>PL-300</div>	<div>Dynamics 365 Customer Service Functional Consultant Associate</div> <div>MB-230</div>	<div>Cybersecurity Architect Expert</div> <div>SC-100</div>
Specialty Deepen your technical skills and manage industry solutions	<div>Azure Solutions Architect Expert</div> <div>AZ-305</div>	<div>Dynamics 365 Finance and Operations Apps Solution Architect Expert</div> <div>MB-700</div>	<div>Security Operations Analyst Associate</div> <div>SC-200</div>
	<div>Azure Data Scientist Associate</div> <div>DP-100</div>	<div>Dynamics 365 Supply Chain Management Functional Consultant Associate</div> <div>MB-330</div>	<div>Identity and Access Administrator Associate</div> <div>SC-300</div>
	<div>Fabric Analytics Engineer Associate</div> <div>DP-600</div>	<div>Dynamics 365 Supply Chain Management Functional Consultant Expert</div> <div>MB-335</div>	<div>Information Security Administrator Associate</div> <div>SC-401</div>
	<div>DevOps Engineer Expert</div> <div>AZ-400</div>	<div>Collaboration Communications Systems Engineer Associate</div> <div>MS-721</div>	
	<div>Azure Network Engineer Associate</div> <div>AZ-700</div>	<div>Teams Administrator Associate</div> <div>MS-700</div>	
	<div>Azure Database Administrator Associate</div> <div>DP-300</div>	<div>Dynamics 365 Field Service Functional Consultant Associate</div> <div>MB-240</div>	
	<div>Fabric Data Engineer Associate</div> <div>DP-700</div>	<div>Dynamics 365 Customer Experience Analyst Associate</div> <div>MB-280</div>	
	<div>Windows Server Hybrid Administrator Associate</div> <div>AZ-800 + AZ-801</div>	<div>Dynamics 365 Finance Functional Consultant Associate</div> <div>MB-310</div>	
		<div>Dynamics 365 Business Central Functional Consultant Associate</div> <div>MB-520</div>	
	<div>Azure for SAP Workloads Specialty</div> <div>AZ-120</div>		<div>GitHub Advanced Security</div> <div>GH-500</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-200</div>		
	<div>GitHub Foundations</div> <div>GH-900</div>		
	<div>GitHub Administration (beta)</div> <div>GH-100</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

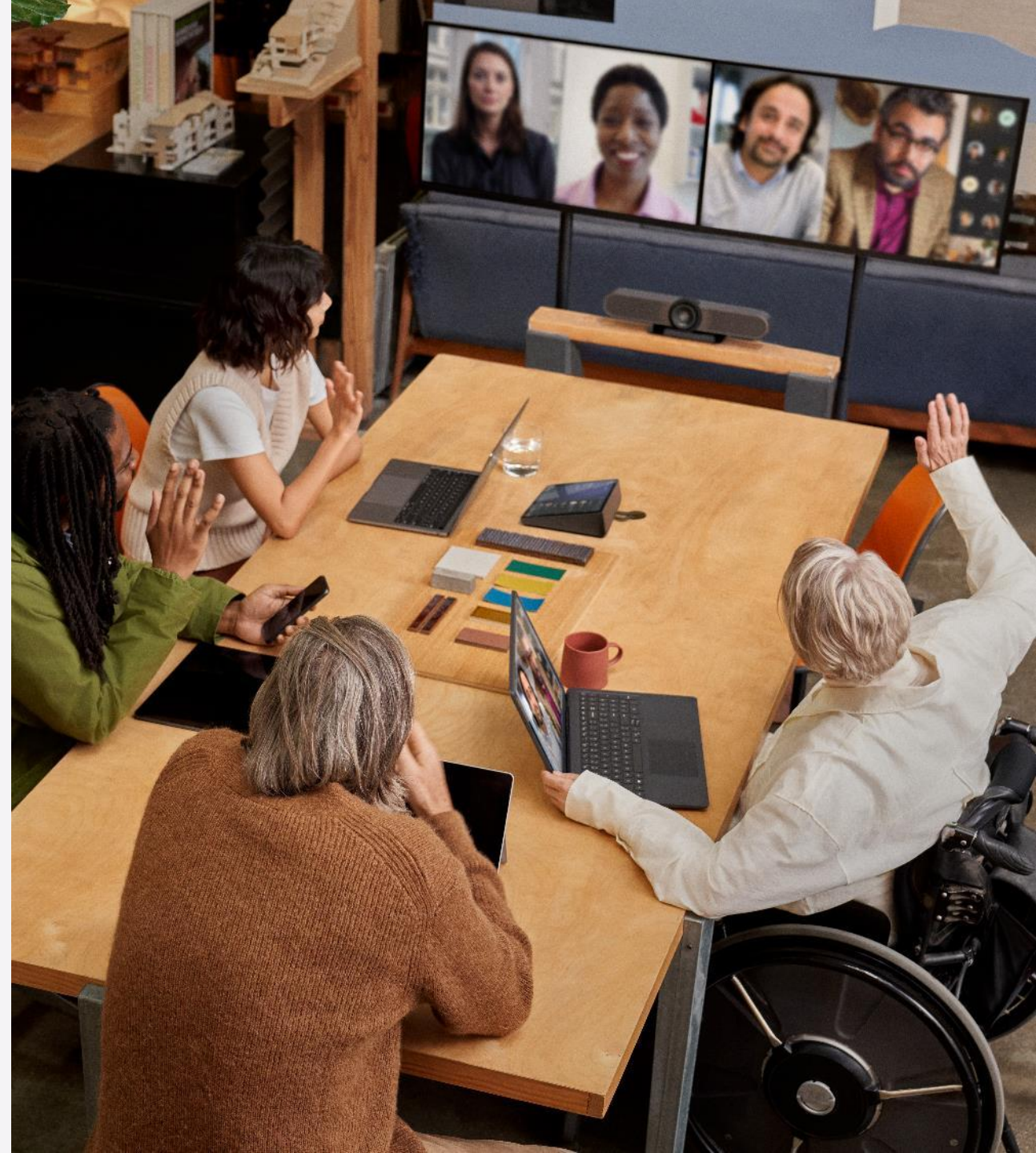
Your name

Company affiliation

Title/function

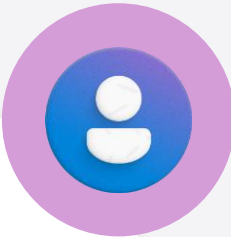
Your experience

Your expectations
for the course



Let's have a great time together

We all contribute to a great class

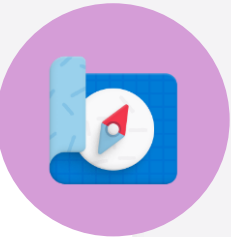


- Be on time (class hours)
- Be present (avoid mail, calls, side meetings)

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

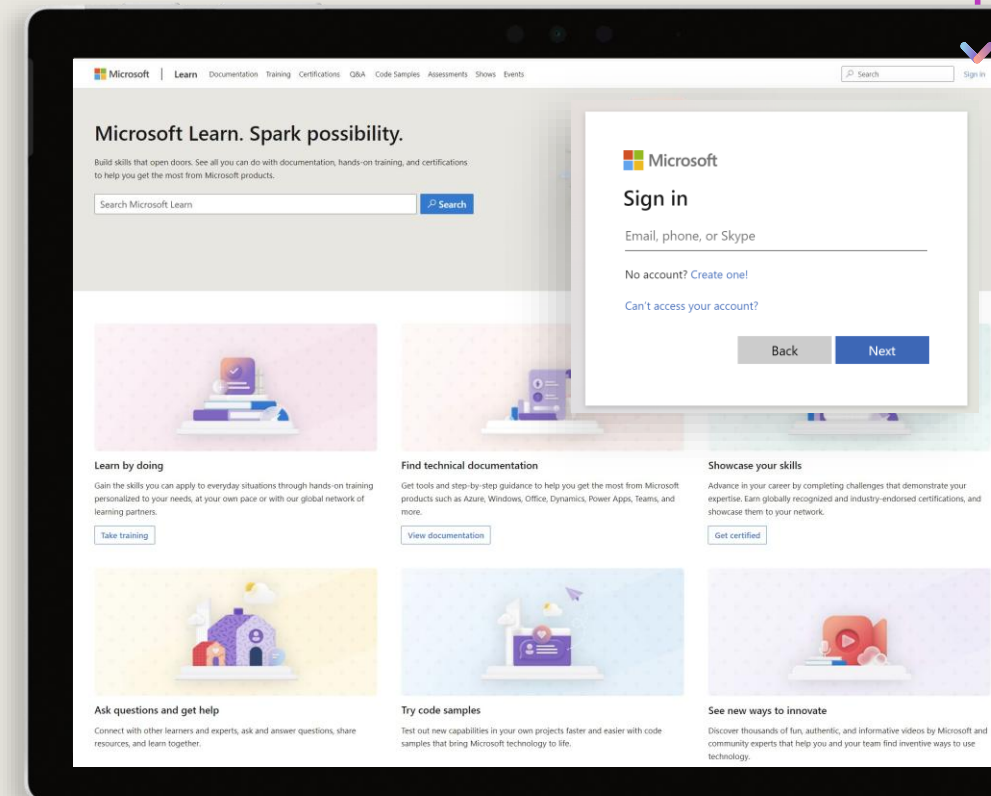
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- Share and verify your Microsoft Certifications via email, on social networking platforms, and on your résumé.
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www.aka.ms/MyMicrosoftLearnProfile

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- Follow the Microsoft account authentication process.
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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

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

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/>

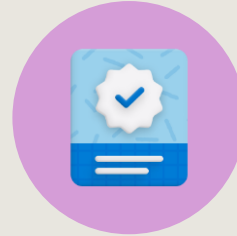
Sign in to the Azure portal using an account that has the Owner or Contributor role in the Azure subscription you are using for this lab. In this **Cloudslice** lab, this account is **LabUser-41215942@LODSPRODMCA.onmicrosoft.com** with password **eBdD0h#1B!**.

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 >

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