



AZ-305

Designing Microsoft Azure Infrastructure Solutions



Thomas Jäkel



Lead Trainer Cloud Infrastructure
Microsoft Certified Trainer since 1999

github.com/www42/az-305



About this course

Purpose – Azure Architects

- Subject matter expertise in designing cloud and hybrid solutions
- Expertise includes compute, networking, storage, application services, data solutions, monitoring and security.

Prerequisites

- Working knowledge of networking technologies including connectivity services, application delivery services, and network architectures.
- Working knowledge of storage technologies including relational and non-relational data solutions.
- Working knowledge of compute technologies including virtual machines, containers, and PaaS compute solutions. .
- Experience architecting solutions including security, migration, and business continuity.

AZ-305 Agenda

Module 01 Design a governance solution

Module 02 Design a compute solution

Module 03 Design a non-relational data storage solution

Module 04 Design a data storage solution for relational data

Module 05 Design a data integration solution

Module 06 Design an application architecture solution

Module 07 Design Authentication and Authorization Solutions

Module 08 Design a solution to log and monitor Azure resources

Module 09 Design a network infrastructure solution

Module 10 Design a business continuity solution

Module 11 Design a migration solution

Microsoft Certified: Azure Solutions Architect Expert



CERTIFICATION EXAM

Microsoft Azure Administrator

AZ-104

Complete one prerequisite



PREREQUISITE OPTION 1

Microsoft Certified: Azure Administrator Associate

Take one exam



CERTIFICATION EXAM

Designing Microsoft Azure Infrastructure Solutions

AZ-305

Earn the certification



EXPERT CERTIFICATION

Microsoft Certified: Azure Solutions Architect Expert



Let's get to know each other

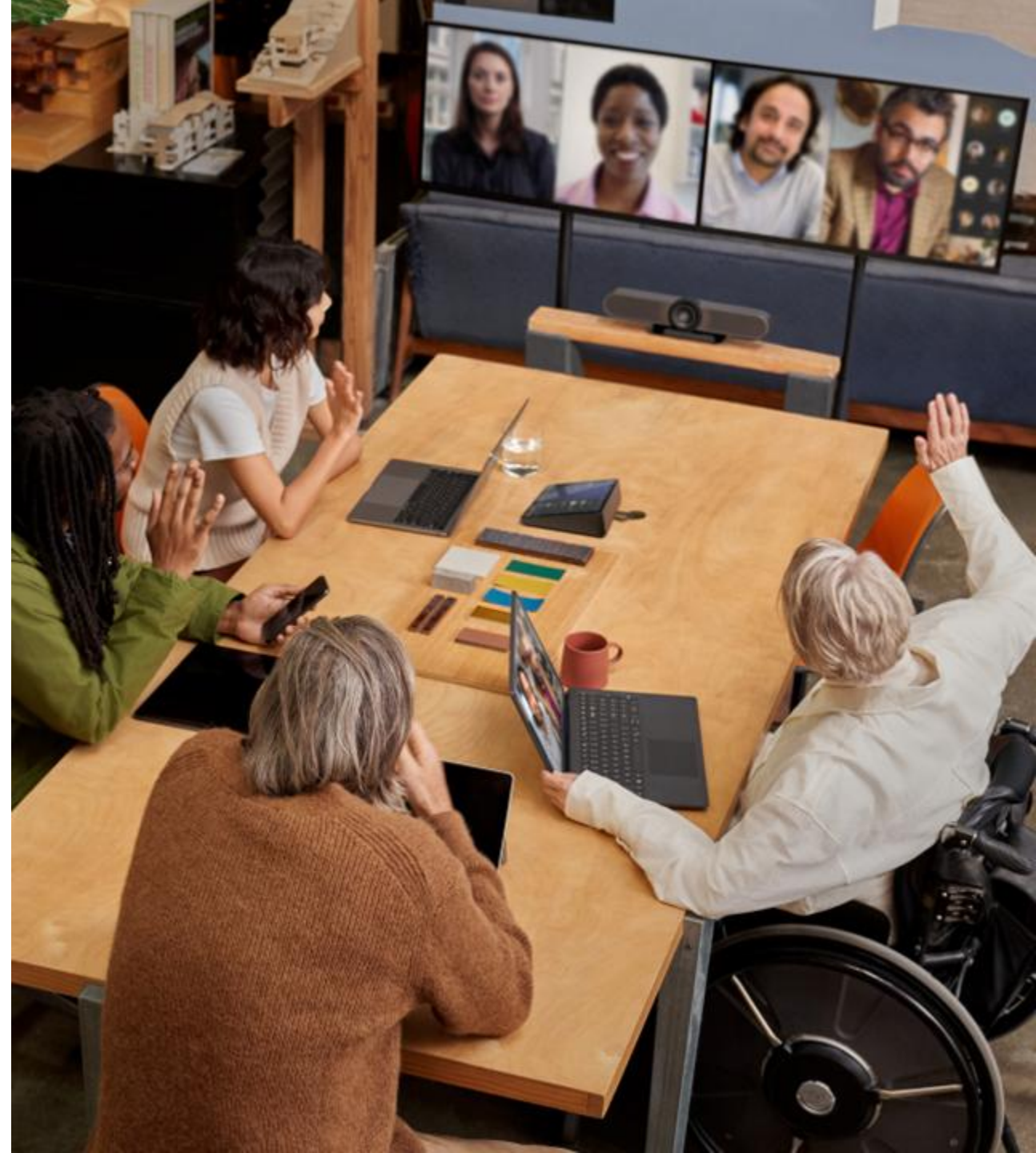
Your name

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)

What you should know about our facilities



- Internet access

Case studies

- Tailwind Traders is modernizing its infrastructure and moving to the cloud -
- You have been asked to recommend and suggest new cloud architectures - requirements and tasks are provided in case studies
- Make sure to actively participate in small groups or individually
- Become familiar with the [Azure Architecture Center](#), [Azure Charts](#), and the [Azure Documentation](#).



AZ-305 Challenge Labs

- Login with Training Key
- Azure Subscription paid by Skillable
- 180 Days 3 x



Enable High Availability by Using Availability Sets

Challenge Overview

Understand the scenario

You are an Administrator for Hexelo, an organization that needs to migrate its web services from its own datacenter to Azure®.

In this Challenge Lab, you will configure high availability by using availability sets. First, you will create an availability set. Next, you will deploy two Azure virtual machines to the availability set. Finally, you will configure load balancing.

Get the most out of your Microsoft Learn profile

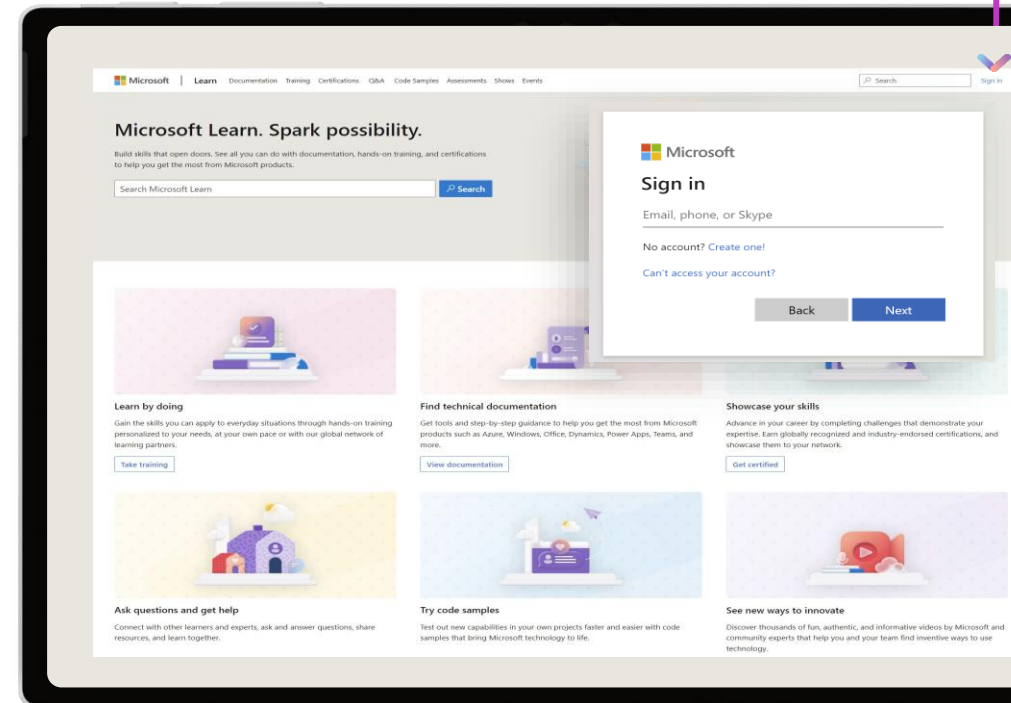
Verify, track, and share your training and certification progress and accomplishments—*all on one platform*

- 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

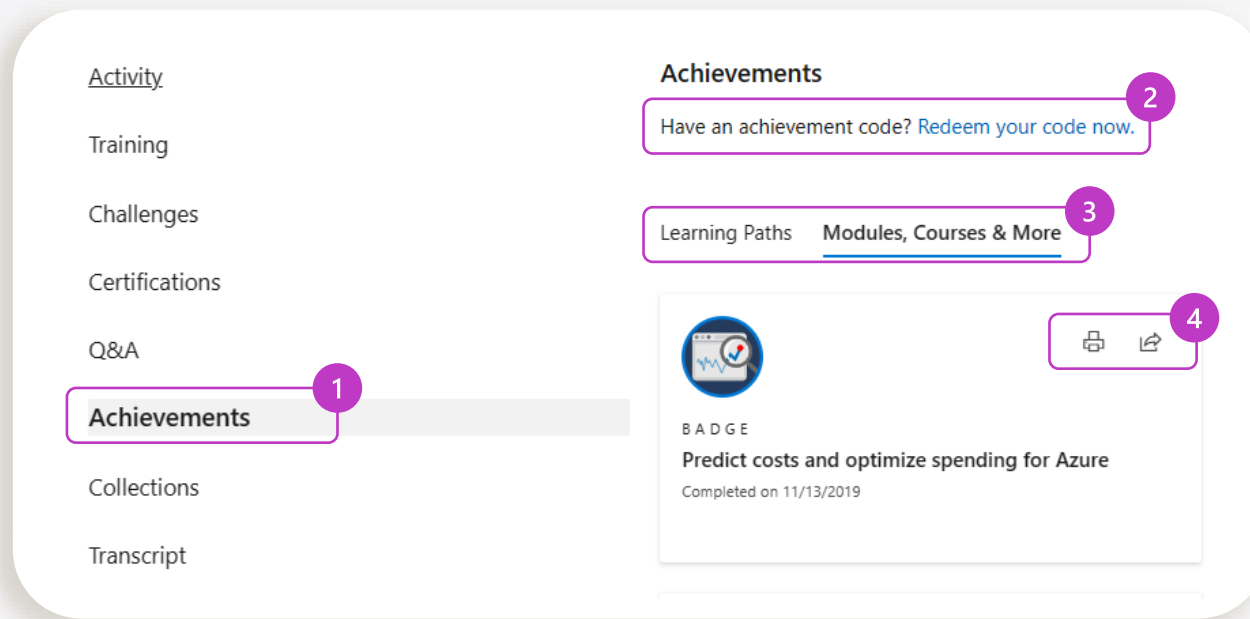
- Select *Sign in* at the top, right corner of any Microsoft Learn page.
- Follow the Microsoft account authentication process.
- If the account that you have chosen to sign-in with doesn't already have a Microsoft Learn profile, you'll be guided to create one.



Celebrate your accomplishments and feel empowered

Get your achievement recognized and earn your badge for completing this course

aka.ms/MyMicrosoftLearnProfile



1. Go to **Achievements** on your Microsoft Learn profile
2. Redeem the code provided by your trainer
3. Find your new badge **on Modules, Courses & More**
4. Share your new achievement with your professional network. You can also download and print your certificate.