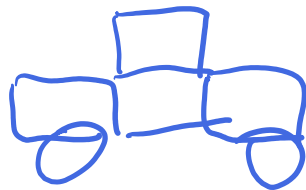


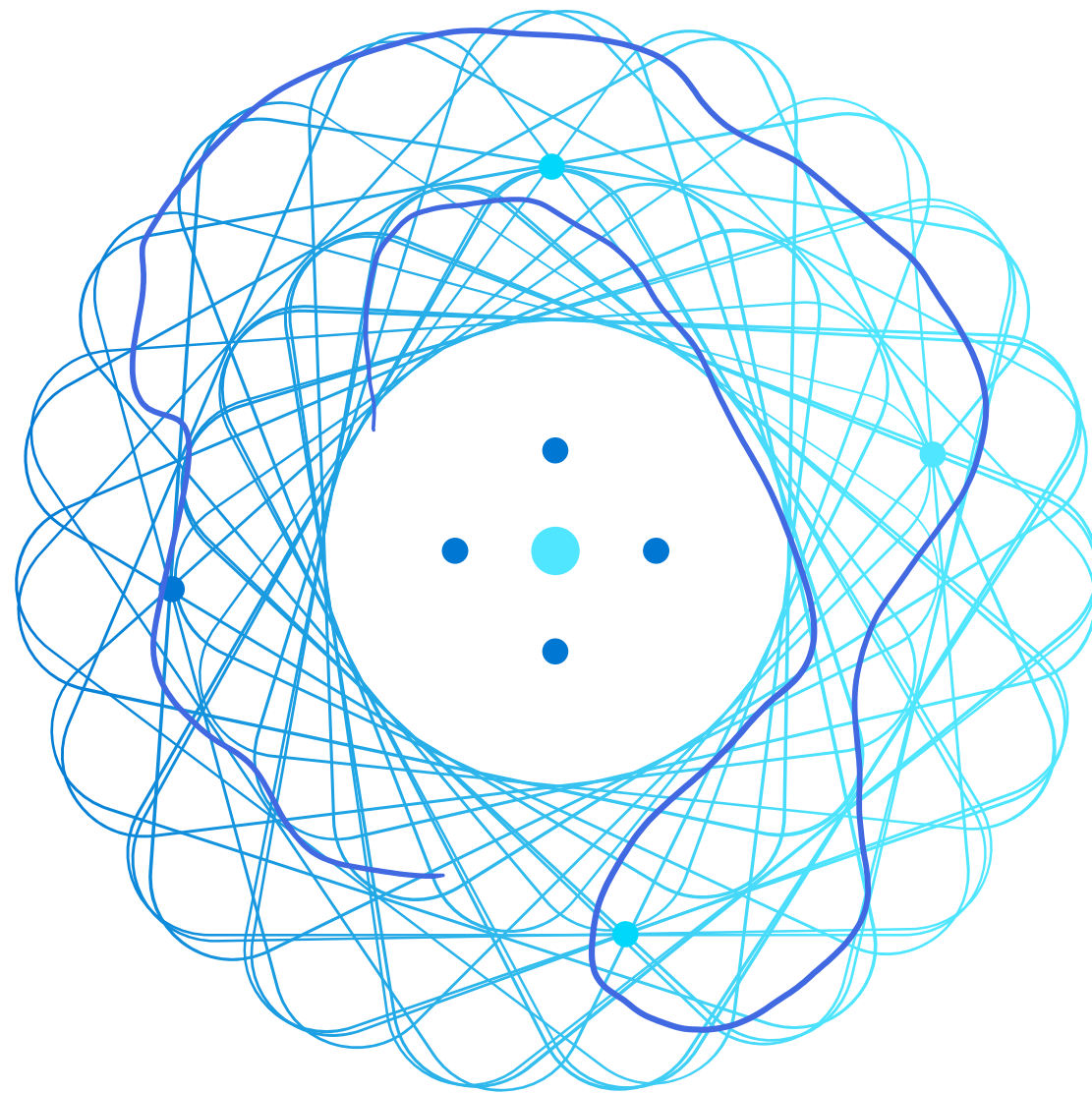
Guten Morgen!



AZ-305

# Designing Microsoft Azure Infrastructure Solutions

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



# Thomas Jäkel

brainymotion

Lead Trainer Cloud Infrastructure ✓  
Microsoft Certified Trainer since 1999

[github.com/www42/az-305](https://github.com/www42/az-305)

Physik  
Fortran 77  


Az AWS  
NT 4.0

DevOps



# Azure Solution Architects

AZ-305

AZ Administrator AZ-104  
AZ Security AZ-500  
SC ...

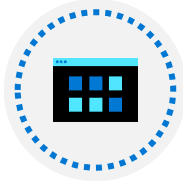
Azure Solution Architects have subject matter expertise in designing cloud and hybrid solutions that include compute, networking, storage, application services, data solutions, monitoring and security.



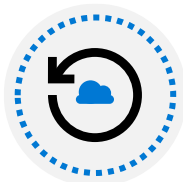
Working knowledge of networking technologies including connectivity services, application delivery services, and network architectures.



Working knowledge of compute technologies including virtual machines, containers, and PaaS compute solutions.



Working knowledge of storage technologies including relational and non-relational data solutions.



Experience architecting solutions including security, migration, and business continuity.

modules → Learning Paths MS Learn

## 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

Landing Zone

Roles  
Policies

VM App Service ← Docker → ACI  
Container → AKS

SQL CosmosDB

Big Data

Queues, LB, Micro Services  
Azure AD, CA

ASR

Hyper-V Repl.

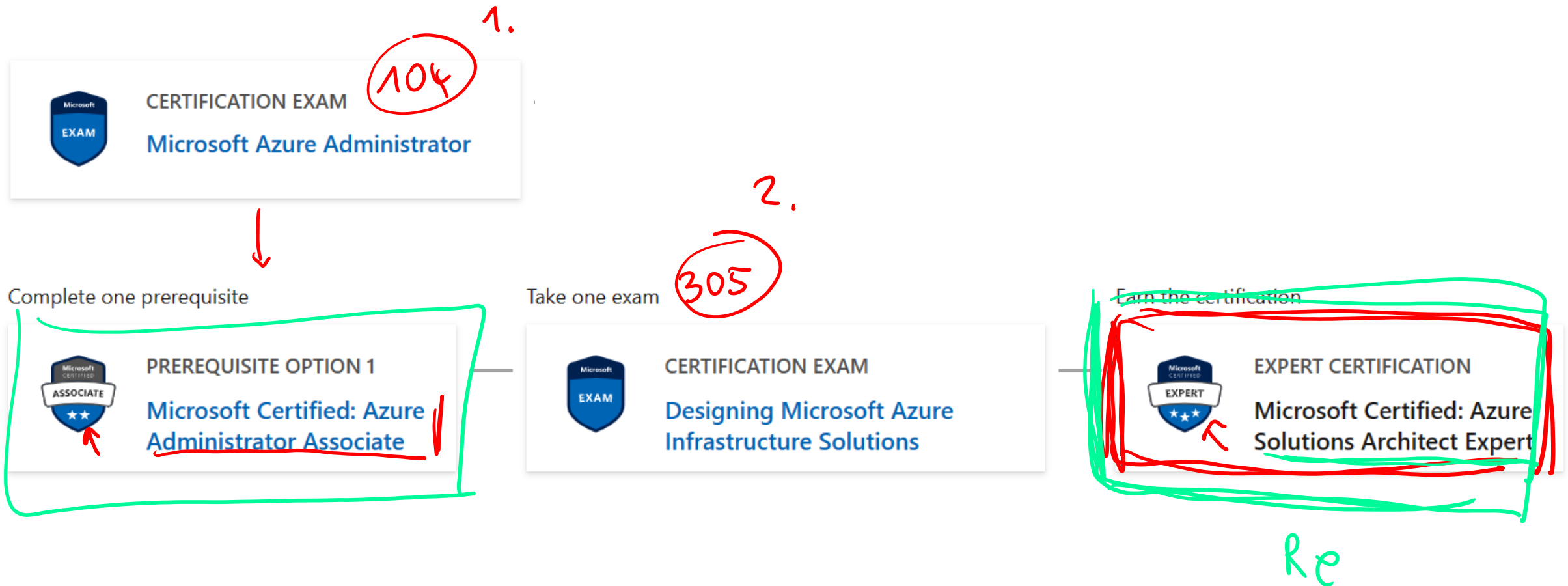
Lift & Shift

AZ-900  
Exam AZ-900  
\* No Recertification

Exam Az-900

\* No Recertification

# Microsoft Certified: Azure Solutions Architect Expert



# Hello! Student Introductions

Your name

Company affiliation

Title/function

Microsoft Azure experience

Your expectations for the course



HELLO

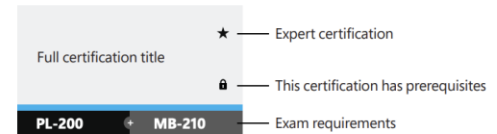


# Become Microsoft Certified

LAST UPDATED NOVEMBER 2021

No matter your experience level, you can advance your career and demonstrate your achievements through industry-recognized Microsoft Certifications.

Learn more at:  
[microsoft.com/certifications](https://microsoft.com/certifications)



## Azure

Azure Administrator Associate

AZ-104

Azure Developer Associate

AZ-204

Azure Security Engineer Associate

AZ-500

Azure Stack Hub Operator Associate

AZ-600

Azure Network Engineer Associate

AZ-700

Windows Server Hybrid Administrator Associate

AZ-800 + AZ-801

Azure AI Engineer Associate

AI-102

Azure Data Engineer Associate

DP-203

Azure Database Administrator Associate

DP-300

Azure Data Scientist Associate

DP-100

## Microsoft 365

Developer Associate

MS-600

Messaging Administrator Associate

MS-203

Modern Desktop Administrator Associate

MD-100 + MD-101

Security Administrator Associate

MS-500

Teams Administrator Associate

MS-700

Teams Voice Engineer Expert

MS-720

Enterprise Administrator Expert

MS-100 + MS-101

## Dynamics 365

Dynamics 365 Sales Functional Consultant Associate

PL-200 + MB-210

Dynamics 365 Marketing Functional Consultant Associate

PL-200 + MB-220

Dynamics 365 Customer Service Functional Consultant Associate

PL-200 + MB-230

Dynamics 365 Field Service Functional Consultant Associate

PL-200 + MB-240

Dynamics 365 Finance Functional Consultant Associate

MB-300 + MB-310

Dynamics 365 Supply Chain Management, Manufacturing Functional Consultant Associate

MB-300 + MB-320

Dynamics 365 Supply Chain Management Functional Consultant Associate

MB-300 + MB-330

Dynamics 365 Commerce Functional Consultant Associate

MB-300 + MB-340

Dynamics 365 Finance and Operations Apps Developer Associate

MB-300 + MB-500

Dynamics 365 Finance and Operations Apps Solution Architect Expert

MB-700

## Power Platform

Power Platform App Maker Associate

PL-100

Power Platform Functional Consultant Associate

PL-200

Power Platform Developer Associate

PL-400

Power Platform Solution Architect Expert

PL-600

Data Analyst Associate

DA-100

Role-based

Expand your technical skill set

# aka.ms/Learn



## Welcome back, Thomas Jäkel

Some items for you since your last visit:



### CERTIFICATION

Microsoft Certified: Azure Fundamentals

Next module: Describe cloud computing

Dismiss

Start



### COLLECTION

Build 2022 Intro to Tech Skills Collection

Next module: Develop a growth mindset

Dismiss

Start



### EXAM

Managing Microsoft Teams

Next module: Explore Microsoft Teams

Dismiss

Start

[Help us customize your path](#)

[See all activity](#)

## We think you might like these



### LEARNING PATH

AZ-204: Create Azure App Service web apps



### LEARNING PATH

AZ-204: Integrate caching and content delivery within



### LEARNING PATH

AZ-204: Implement user authentication and authorization



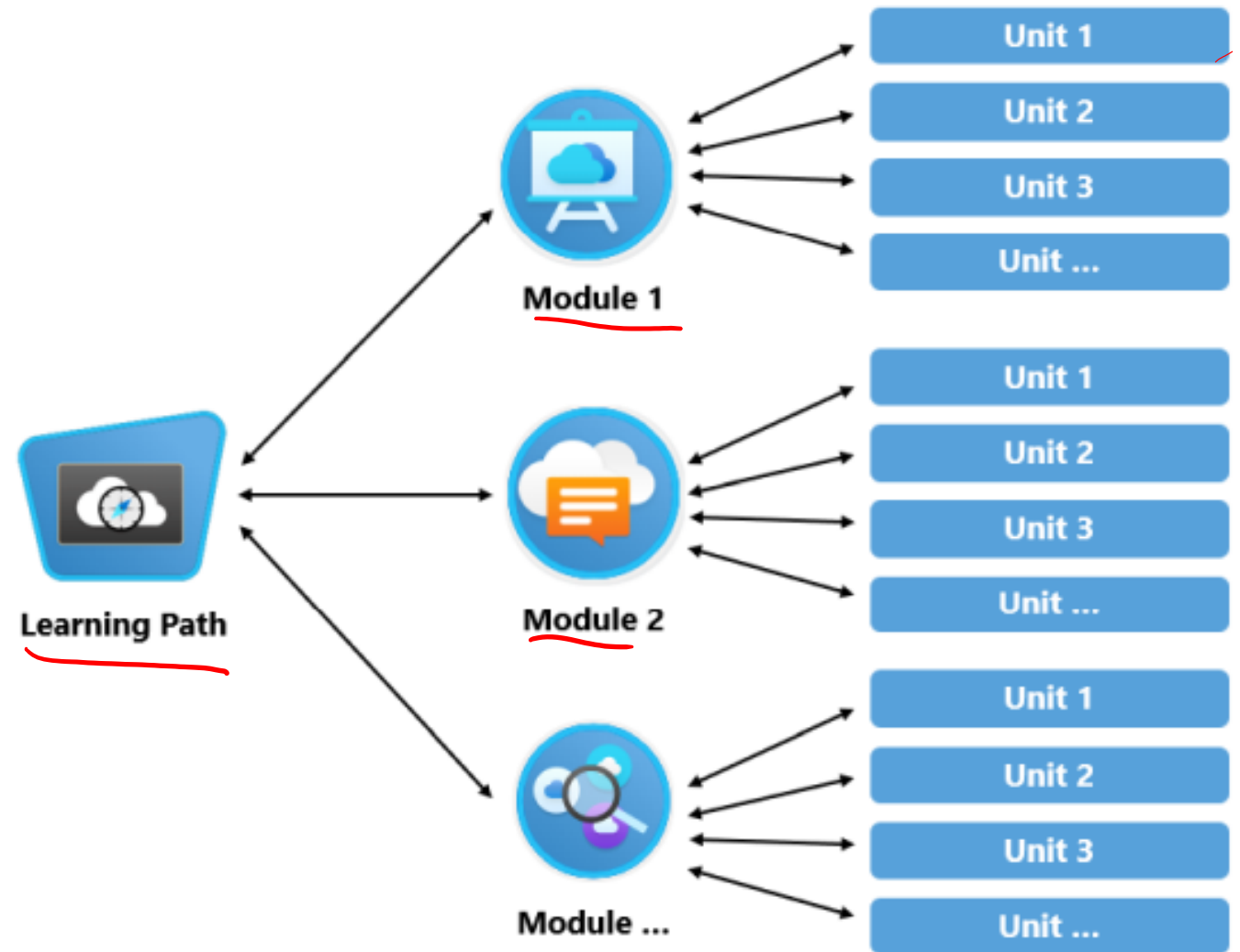
# Microsoft Learn

## Anonymous

- All Learning Paths

## With Learn Account

- Sandboxes ← *Übungen*
- Exam Registration ←
- Transcript ←
- Collections
- Badges ←
- Level



# Student materials on Learn

## Learning Paths

- Design identity, governance, and monitoring solutions
- Design data storage solutions
- Design business continuity solutions
- Design infrastructure solutions



<https://aka.ms/AZ-305StudentMaterials>

A screenshot of the Microsoft Learn course page for AZ-305T00: Designing Microsoft Azure Infrastructure Solutions. The page has a dark blue header with the course title and a pencil icon. Below the header, it says 'Collection • Edited on 1/14/2022 • Created by Microsoft' with a Microsoft logo. There are 'Delete' and 'Share' buttons. A description follows: 'This course teaches Azure Solution Architects how to design infrastructure solutions. Course topics cover governance, compute, application architecture, storage, data integration, authentication, networks, business continuity, and migrations. The course combines lecture with case studies to demonstrate basic architect design principles.' Below this is a section titled 'Items in this collection' with a pencil icon. It lists 'Design governance and compute solutions' and says 'In this module you will learn about governance and compute solutions.' There are two module cards. The first is 'Design governance' (33 min, 4.9 stars from 162 reviews). The second is 'Design a compute solution' (33 min, 4.8 stars from 33 reviews).

**Course AZ-305T00: Designing Microsoft Azure Infrastructure Solutions**

Collection • Edited on 1/14/2022 • Created by Microsoft

This course teaches Azure Solution Architects how to design infrastructure solutions. Course topics cover governance, compute, application architecture, storage, data integration, authentication, networks, business continuity, and migrations. The course combines lecture with case studies to demonstrate basic architect design principles.

**Items in this collection**

Design governance and compute solutions

In this module you will learn about governance and compute solutions.

**MODULE**

**Design governance**

33 min

★★★★★ 4.9 (162)

**MODULE**

**Design a compute solution**

33 min

★★★★★ 4.8 (33)

# 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](#).
- Consider the Cloud Adoption Framework and Well Architected Framework as you design your case study solutions (next slides)
- Optional hands-on sandboxes are provided on Learn



On Prem → Azure

9<sup>00</sup>

12<sup>30</sup> - 13<sup>30</sup>

17<sup>00</sup>

End of presentation

