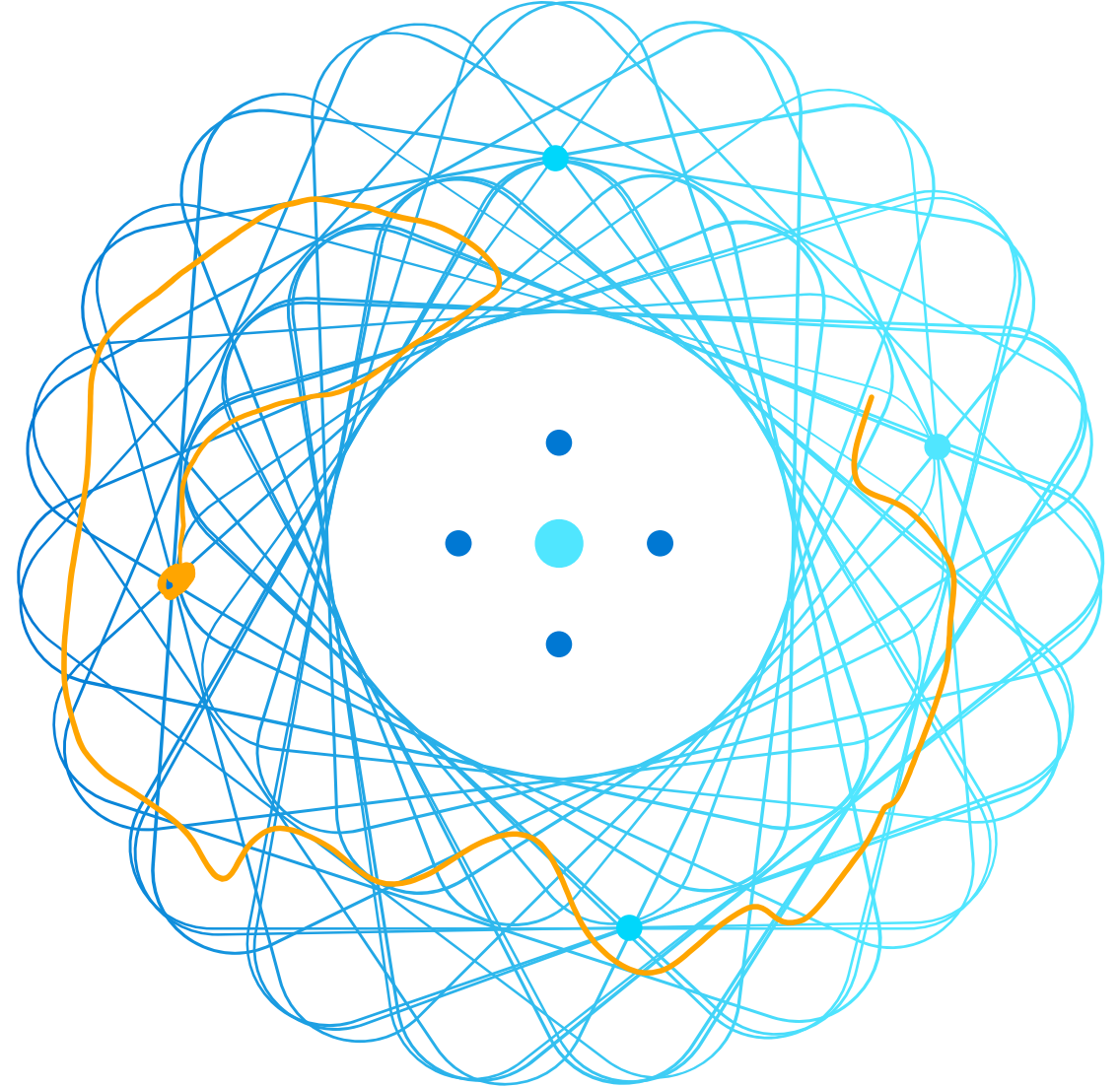


AZ-305

Guten Morgen!

Designing Microsoft Azure Infrastructure Solutions



Physik →
NT 4.0
Heidelberg
PowerShell

Thomas Jäkel

brainymotion

Lead Trainer Cloud Infrastructure

Microsoft Certified Trainer since 1999

github.com/www42/az-305



Azure Solution Architects

MS Learn
Learn Path

Role - Fundamentals AZ-900
Admin AZ-104
Security AZ-500

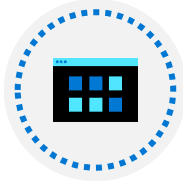
Azure Solution Architects have subject matter expertise in designing cloud and hybrid solutions that include compute, networking, storage, application services, data solutions, monitoring and security.



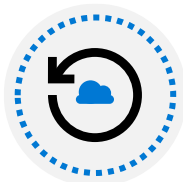
Working knowledge of networking technologies including connectivity services, application delivery services, and network architectures.



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.

SC - *

AZ-305 Agenda

LP

~~Module 01~~ Design a governance solution

Module 02 Design a compute solution

VN

Module 03 Design a non-relational data storage solution

Storage Account
SQL

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

Entra ID

Module 08 Design a solution to log and monitor Azure resources

LA, KQL

Module 09 Design a network infrastructure solution

VNet, Topo, Hub-Spoke

Module 10 Design a business continuity solution

ASR

Module 11 Design a migration solution

Azure Migrate

* Fundamentals

Microsoft Certified: Azure Solutions Architect Expert

AZ-104



CERTIFICATION EXAM

Microsoft Azure Administrator

Complete one prerequisite



PREREQUISITE OPTION 1

Microsoft Certified: Azure Administrator Associate

Associate ✓

Take one exam



CERTIFICATION EXAM

Designing Microsoft Azure Infrastructure Solutions

AZ-305

Earn the certification



EXPERT CERTIFICATION

Microsoft Certified: Azure Solutions Architect Expert

✓

Hello! Student Introductions

Your name

Company affiliation

Title/function

Microsoft Azure experience

Your expectations for the course

9⁰⁰ – 17⁰⁰ 15min
12³⁰ – 13³⁰ 15min



HELLO

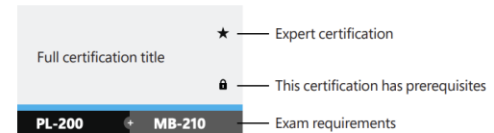


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microsoft.com/certifications



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

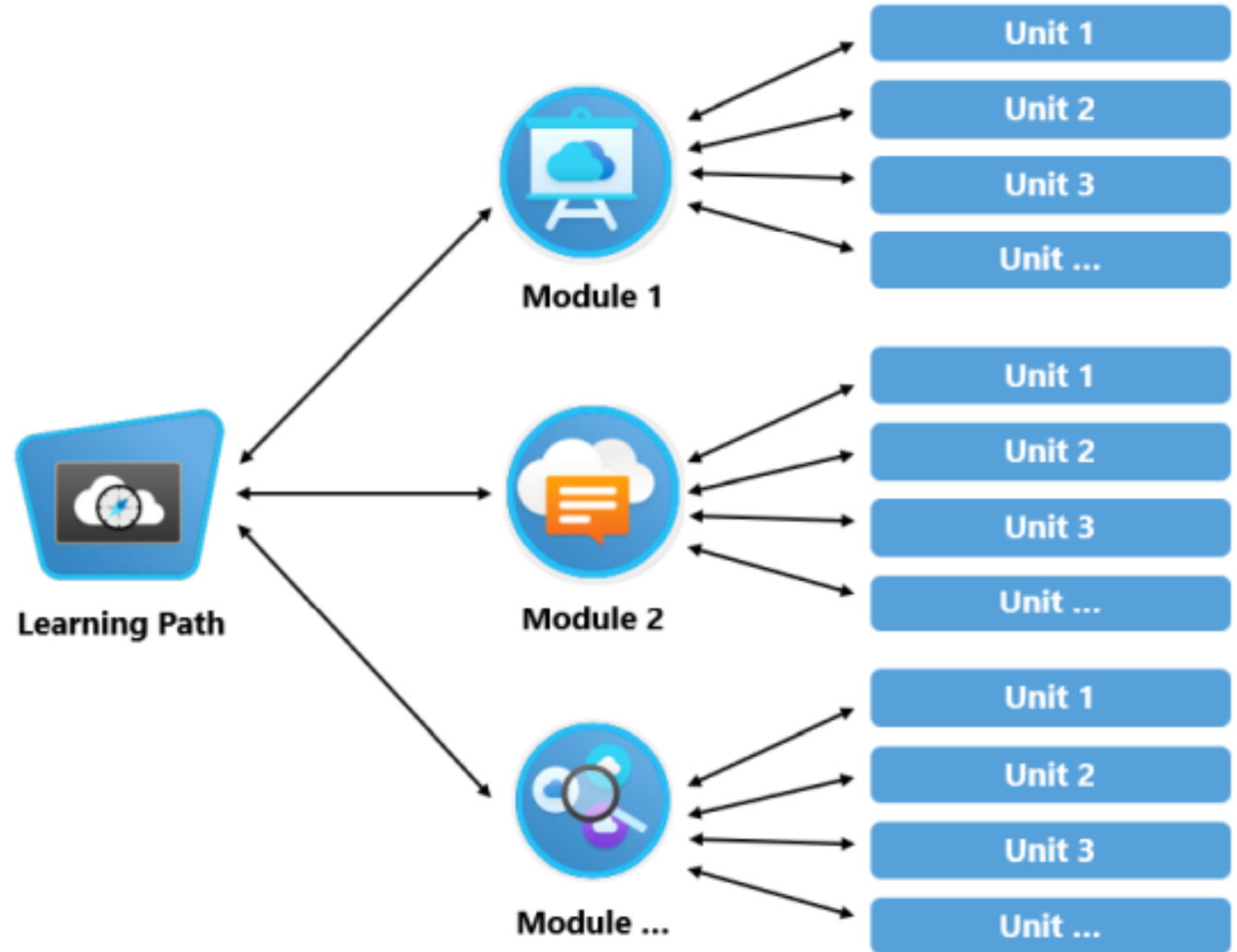
Microsoft Learn

Anonymous

- All Learning Paths

With Learn Account

- Sandboxes
- 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>

Course AZ-305T00: Designing Microsoft Azure Infrastructure Solutions

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

[Delete](#) [Share](#)

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



End of presentation

