

Guten Morgen!



## Microsoft Networking and Server Essentials

Berlin Heidelberg Mo – Fr  
Physik → IT  
NT 4.0 AD 2000

**Thomas Jäkel**

Windows 2025

brainymotion OnPremises → Cloud IaaS  
PaaS  
SaaS

**Lead Trainer Cloud Infrastructure**

**Microsoft Certified Trainer since 1999**

KI ChatGPT



# Hello! Student Introductions

Labs ← Skillable ← Code

Your name

Company affiliation

Title/function

Microsoft Azure experience

Your expectations for the course

AZ-800

AZ-801

10<sup>30</sup> - 10<sup>45</sup>      9<sup>00</sup> - 17<sup>00</sup>  
12<sup>30</sup> - 13<sup>30</sup>  
15<sup>30</sup> - 15<sup>45</sup>

Account

HELLO

# Agenda:

1. Azure Architecture Fundamentals

2. Administration Fundamentals

3. Virtualization Fundamentals

4. Network Infrastructure Fundamentals

5. Storage Management Fundamentals

6. Identity Services Fundamentals

AD

Entra ID  
(Azure AD)



User SP  
App  
Group

GUI  
Server Manager

Azure

VM  
Server

Entra ID

M365

CLI  
PowerShell 5.1

Azure Copilot  
NLP

Hyper-V

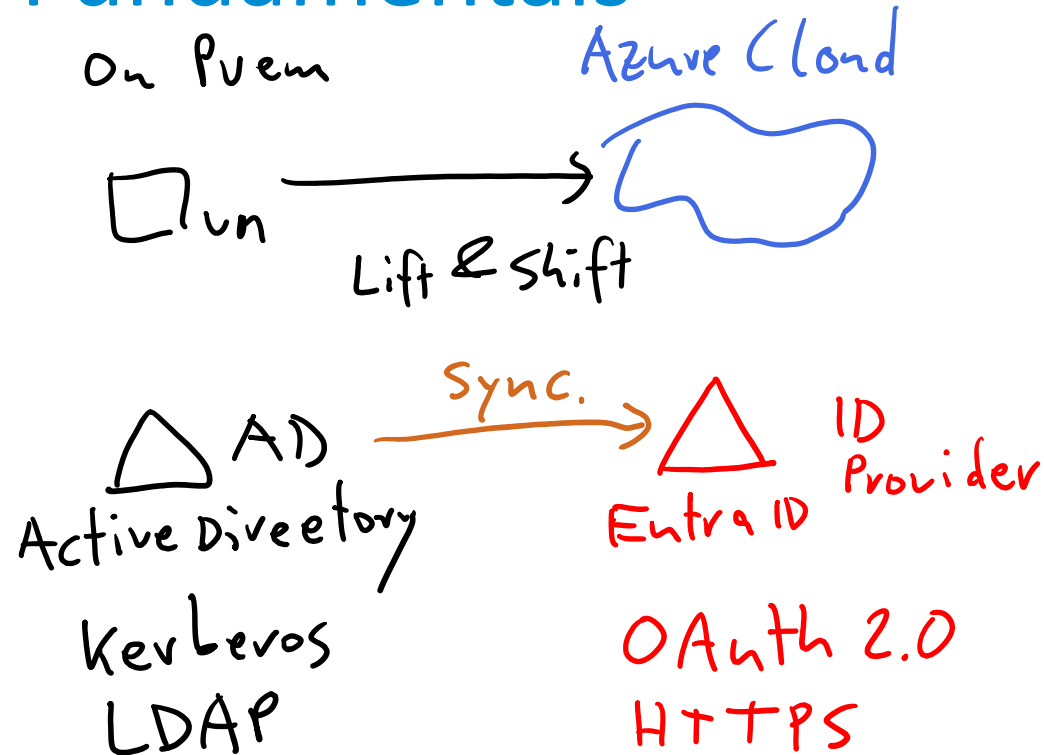
NTFS  
SMB  
Blob  
Files

192.168.0.1  
DNS

$2^{32} \sim 4 \cdot 10^9$   
32 Bit?  
Vint Cert

# 1. Azure Architecture Fundamentals

- ✓ Inside Azure Datacenters
- ✓ Regions
- ✓ Availability Options
- ✓ Azure Resources ←
- ✓ Resource groups ←
- ✓ Azure Subscriptions ←
- ✓ Management Groups
- ✓ Azure compute services
- ✓ Azure networking services
- ✓ Azure storage services



2011 ~~Windows~~ Azure  
2013 Azure ARM  
Bicep Template



## 2. Administration Fundamentals

- ✓ Administration in Windows Server
- ✓ Administration in Azure



# 3. Virtualization Fundamentals

- ✓ Configure and manage Hyper-V
- ✓ Configuring VMs
- ✓ Virtual machines in Azure
- ✓ Container



# 4. Network Infrastructure Fundamentals

- ✓ IPv4 Fundamentals
- ✓ IPv6 Fundamentals
- ✓ Dynamic host configuration Protocol (DHCP)
- ✓ Domain Name Service (DNS)
- ✓ Azure network Fundamentals
- ✓ Configure Network Security Groups
- ✓ Configure Azure DNS
- ✓ Configure VNet Peering
- ✓ Configure Network Routing
- ✓ Configure Azure Load Balancer





# 5. Storage Management Fundamentals

- ✓ Volumes and file systems in Windows Server
- ✓ Implementing sharing in Windows Server
- ✓ Configure Storage Accounts
- ✓ Configure Blob Storage
- ✓ Configure Azure Files
- ✓ Configure Azure Storage with Tools

# 6. Identity Services Fundamentals

- ✓ Overview of AD DS
- ✓ Deploying Windows Server domain controllers
- ✓ Implementing Group Policy
- ✓ Azure Active Directory
- ✓ Configure Azure Policy
- ✓ Configure Role-Based Access Control

# aka.ms/Learn



Docs

Documentation

Learn

Certifications

Q&A

Code Samples

Shows

Events

Search



Learn

Products ▾

Roles ▾

Educator Center ▾

Student Hub ▾

Learn TV

Browse Courses

FAQ & Help

LEVEL 11



23125 / 71899 XP

## 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

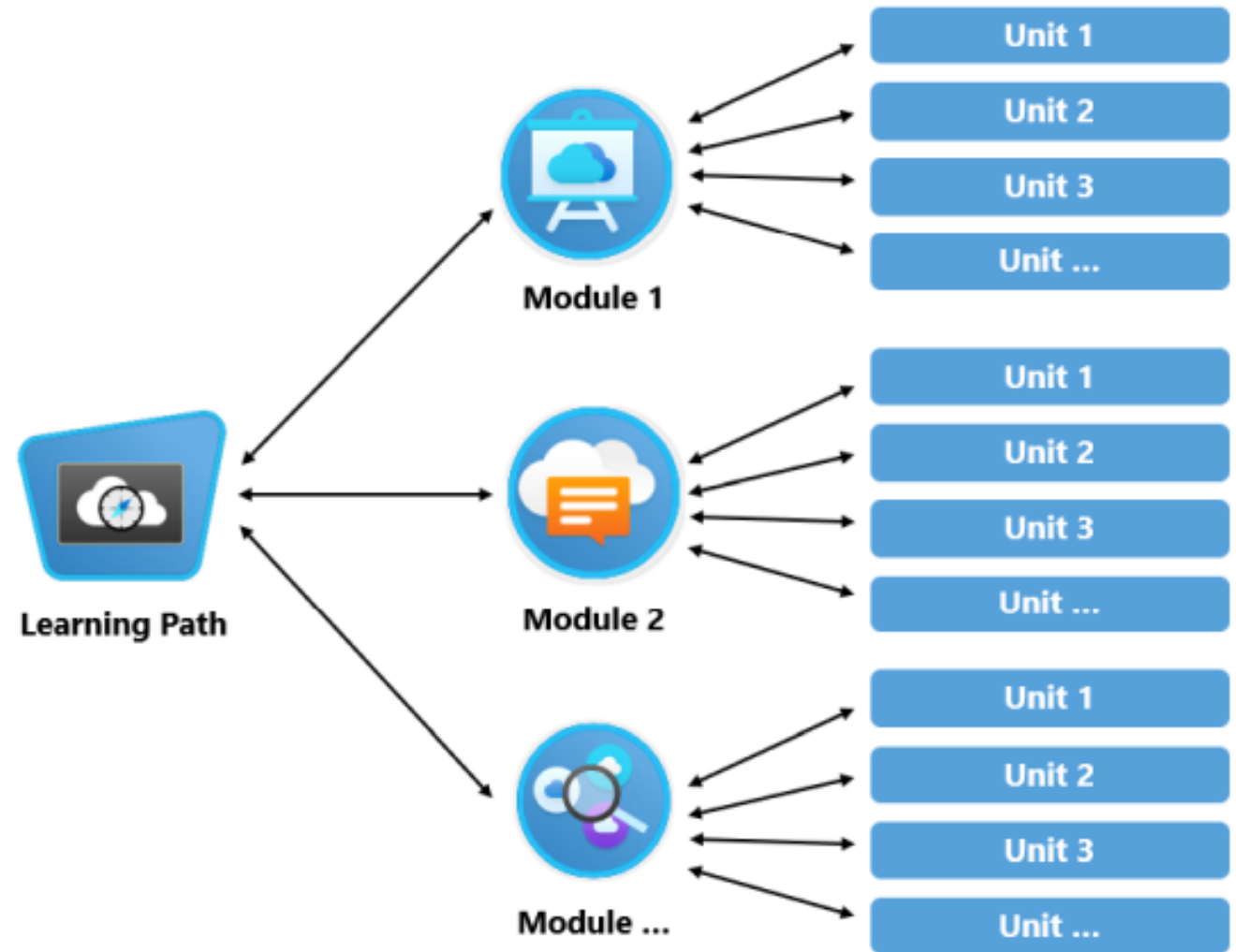
# Microsoft Learn

## Anonymous

- All Learning Paths

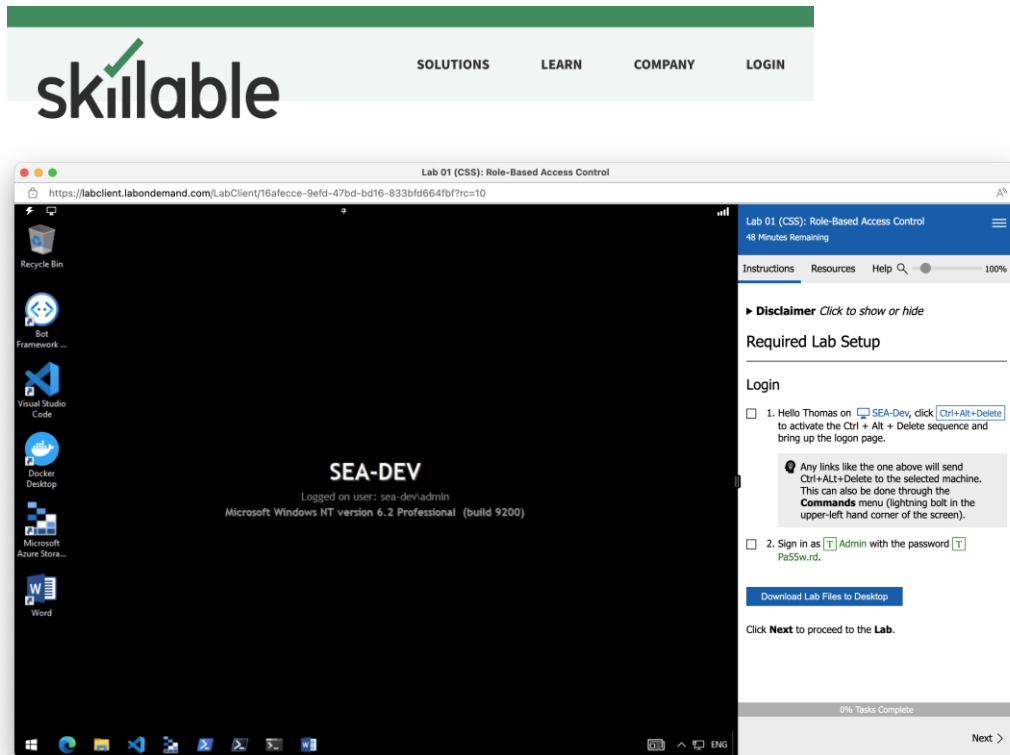
## With Learn Account

- Sandboxes
- Exam Registration
- Transcript
- Collections
- Badges
- Level
- Renew Certifications



# AZ-800 Labs

- Login with Training Key
- Azure Subscription paid by Skillable
- SEA-DEV + Instructions
- 180 Days 10 x



# The End