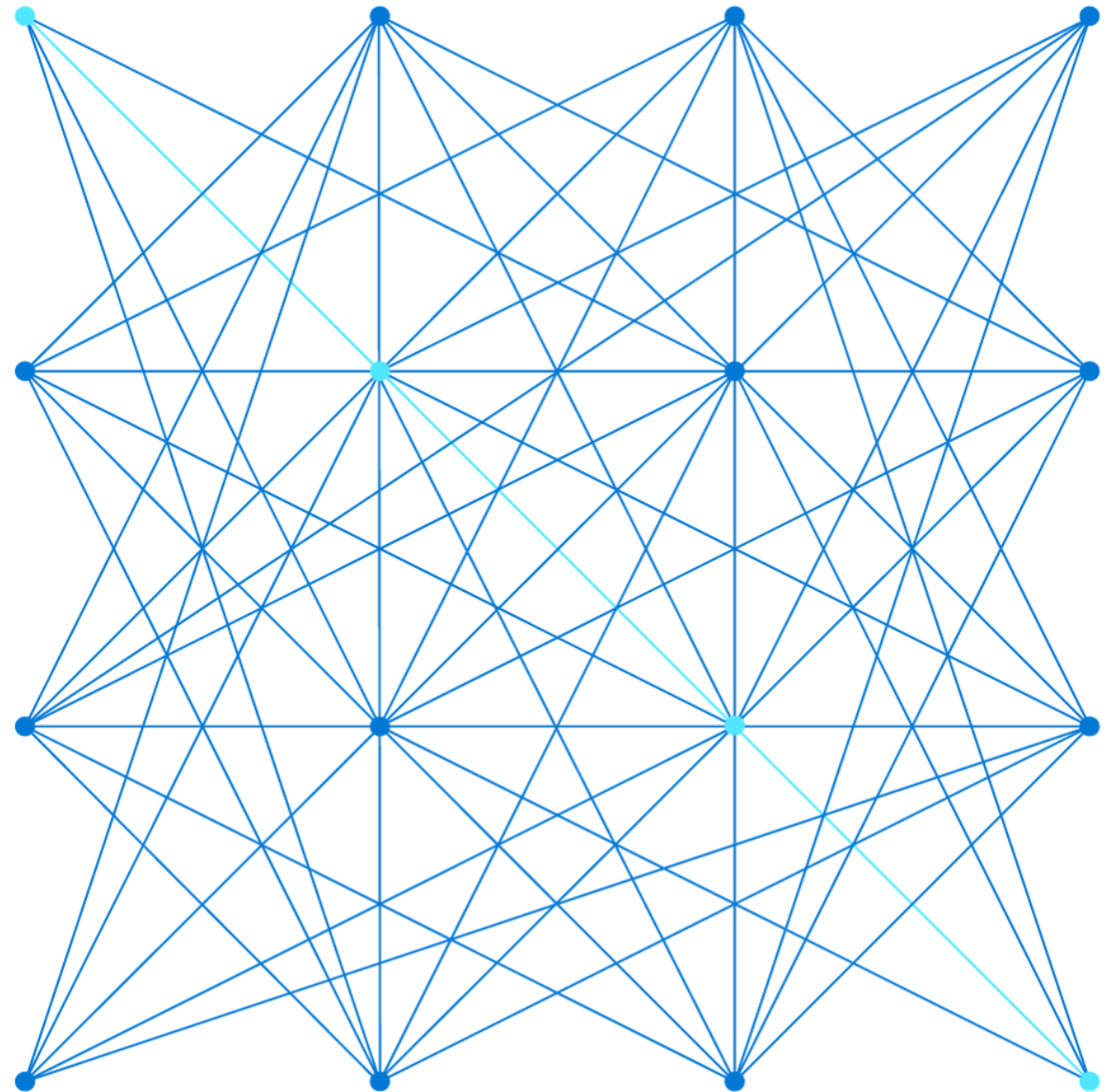


AZ-700 *Guten Morgen!*

Designing and Implementing Azure Networking Solutions

Seminar startet um 9⁰⁰ Uhr.



Physik



NT 4.0

Heidelberg

Thomas Jäkel

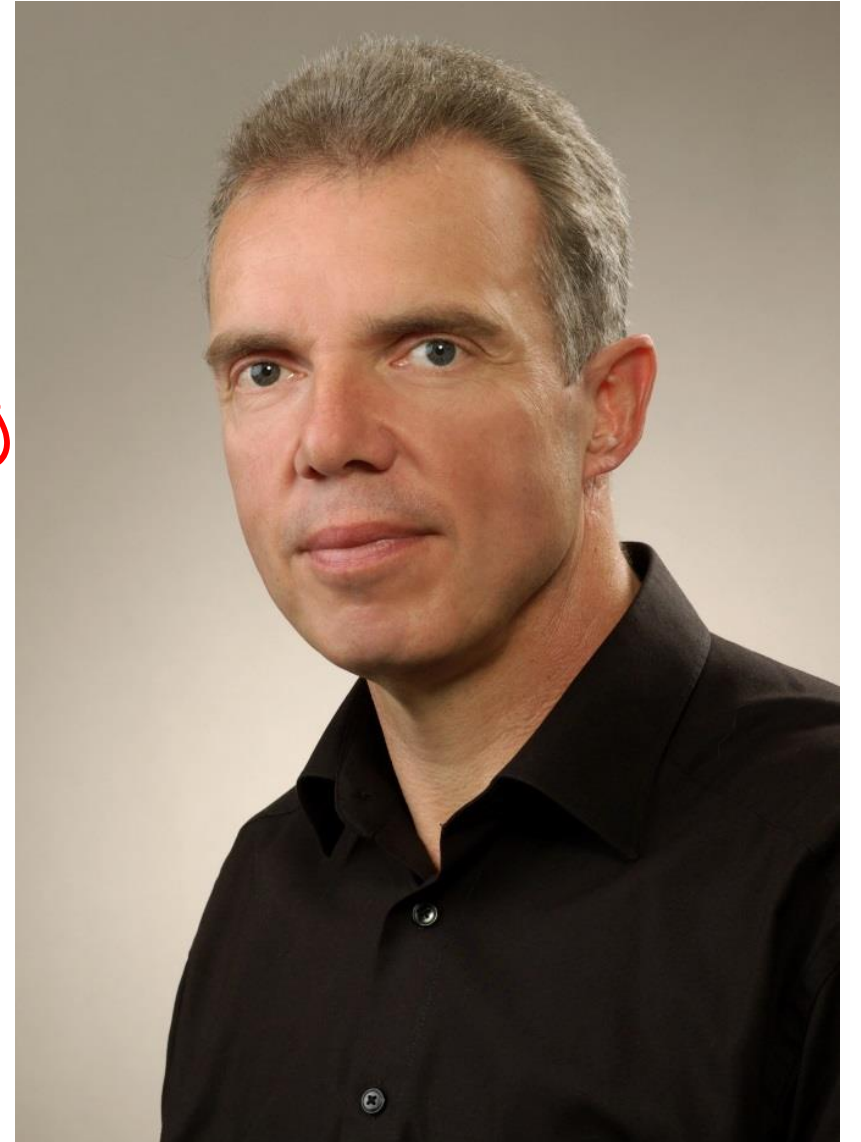
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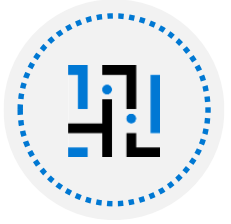
github.com/www42/az-700



Network Engineer Role

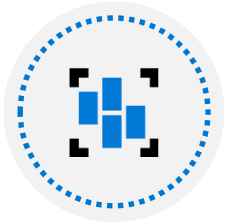


An Azure Network engineer designs and implements core Azure networking infrastructure, hybrid networking connections, routing, load balancing, private access to Azure services, network security and monitoring



The azure network engineer will manage networking solutions for optimal performance, resiliency, scale, and security. Candidates should have a strong understanding of core Azure services and hybrid cloud infrastructure concepts

NSG

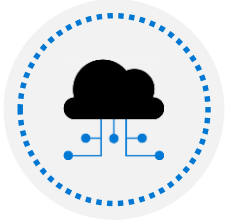


Azure network engineers use the Azure Portal and other methods, including PowerShell, Azure Command-Line Interface (CLI), and Azure Resource Manager (ARM) templates to implement and manage solutions

az ...

Az.*

Bicep



Successful Azure network engineers should have expert Azure administration skills, in addition to extensive experience and knowledge of networking, hybrid connections, and network security.

AZ-700

Course Agenda

Labs

↳ skilable
(LODS)

Module 01: Introduction to Azure Virtual Networks

IP VNet
Peering Routing

Module 02: Designing and Implementing Hybrid Networking

VPN
WAN

Module 03: Designing and Implementing Azure ExpressRoute

Module 04: Load balance non-HTTP(S) traffic in Azure

LB

Module 05: Load balance HTTP(S) traffic in Azure

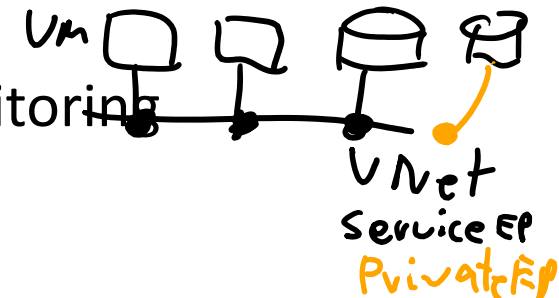
AppGw WAF
Front Door
DDOS, FW, WAF

Module 06: Design and Implement Network Security

Module 07: Design and Implement private access to Azure Services

Module 08: Design and Implement Network Monitoring

Network Watcher



Hello! Student Introductions

Your name

Company affiliation

Title/function

Microsoft Azure experience

Your expectations for the course



HELLO

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Presence

Presence

Activity

About




smart trainieren. sicher können.

Please confirm your presence

You have the following trainings today:

SC-300T00 Microsoft Identity and Access Administrator

I confirm my presence

The logo for brainymotion, featuring the word "brainymotion" in a blue, lowercase, sans-serif font. Below the word is a blue curved line that starts under the 'b' and ends under the 'n'. To the right of the logo, the tagline "smart trainieren. sicher können." is written in a smaller, blue, lowercase font.

Please confirm your presence

You have the following trainings today:

SC-300T00 Microsoft Identity and Access Administrator

I confirm my presence

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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



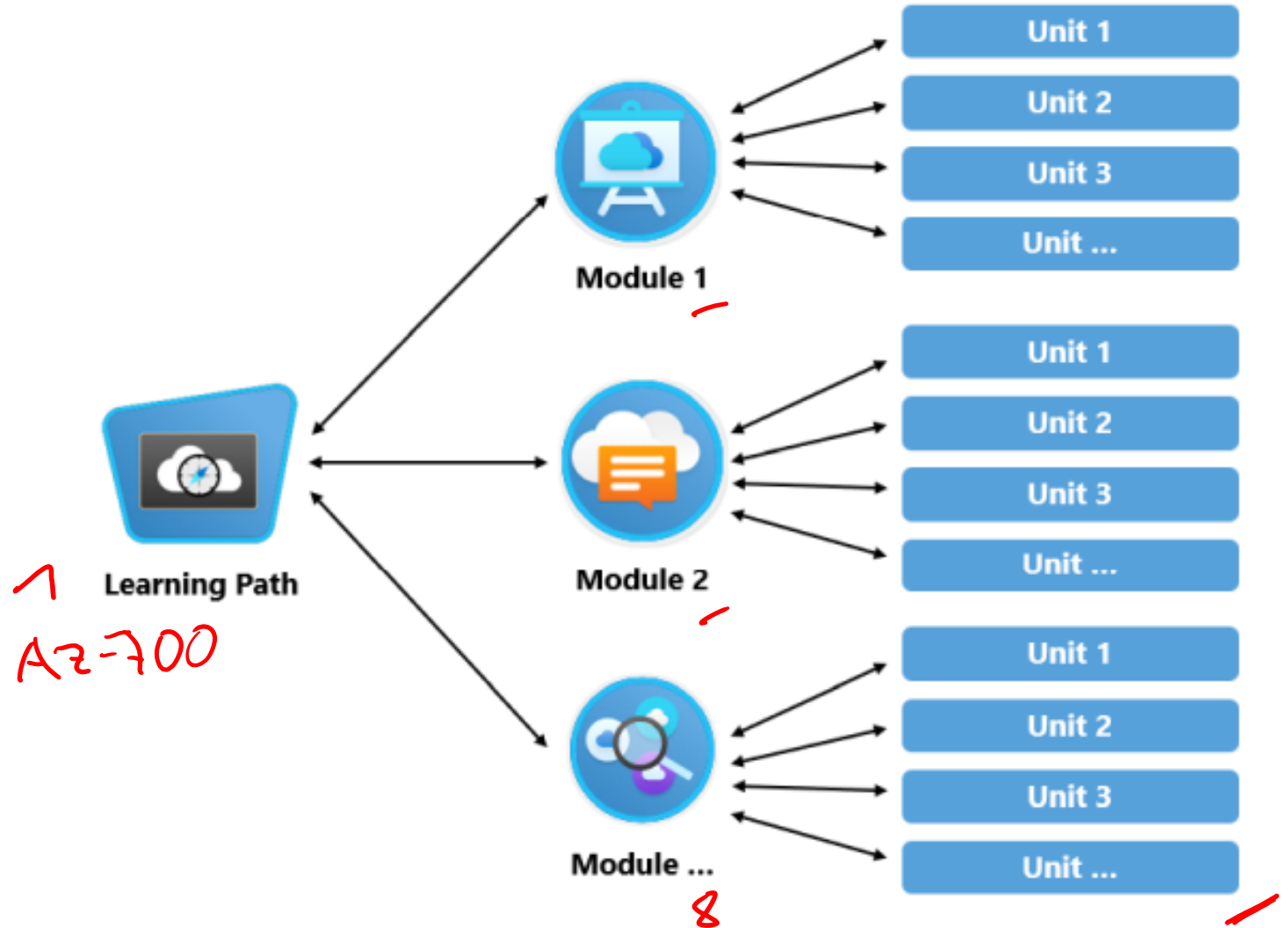
LEARNING PATH

AZ-204: Implement user authentication and authorization


Microsoft Learn

- Learning Paths

- Sandboxes
- Exam Registration
- Transcript
- Collections
- Badges



Student materials on Learn



9800 XP

AZ-700 Designing and Implementing Microsoft Azure Networking Solutions

9 hr 27 min • Learning Path • 8 Modules

Intermediate

Administrator

Network Engineer

Application Gateway

DNS

ExpressRoute

Firewall

Firewall Manager

Front Door

Load Balancer

Network Watcher

Private Link

Traffic Manager

Virtual Network

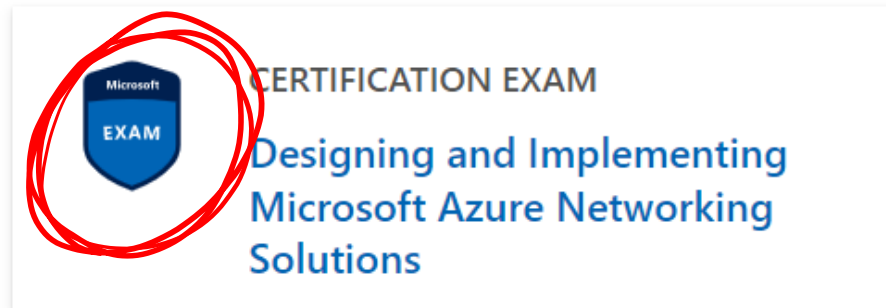
Virtual WAN

VPN Gateway

Learn how to design and implement a secure network infrastructure in Azure and how to establish hybrid connectivity, routing, private access to Azure services, and monitoring in Azure.

AZ-700 Exam

Take one exam



Earn the certification




Skills measured

- Design, implement, and manage hybrid networking
- Design and implement core networking infrastructure
- Design and implement routing
- Secure and monitor networks
- Design and implement Private access to Azure Services

1 Jahr

↪ Re

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🔒 This certification has prerequisites

MB-300 + MB-310 Exam requirements

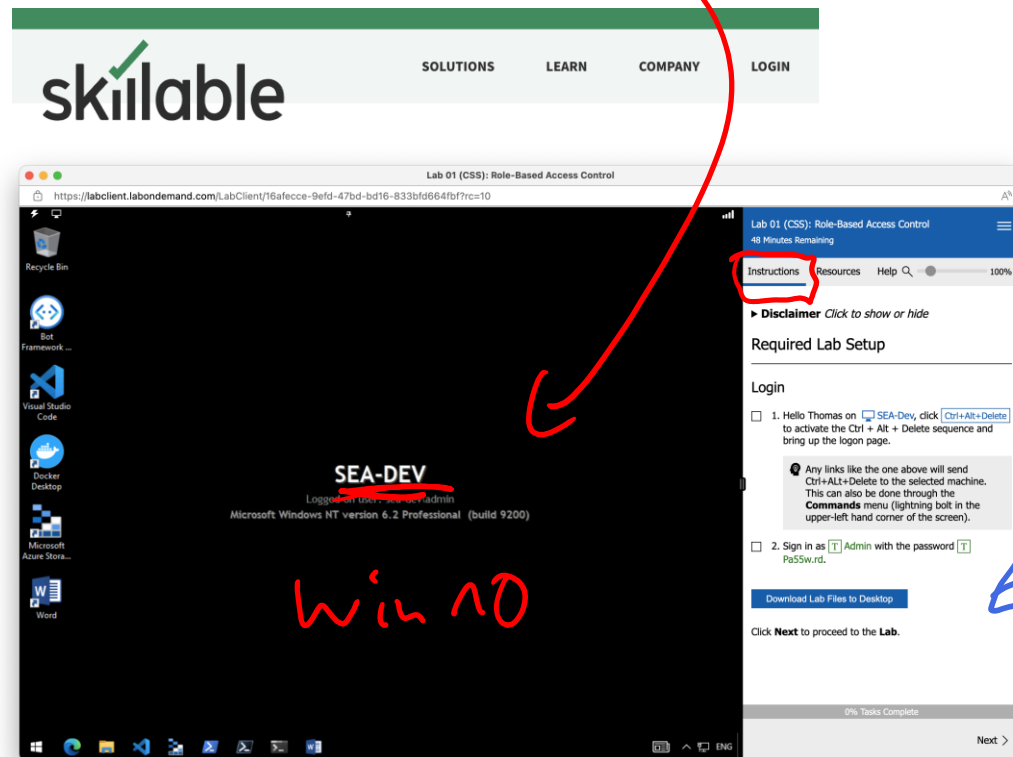
	Azure	Dynamics 365	Microsoft 365	Power Platform	Security, Compliance, and Identity
Fundamentals Master the basics	<div>Azure Fundamentals AZ-900</div> <div>Azure AI Fundamentals AI-900</div> <div>Azure Data Fundamentals DP-900</div>	<div>Dynamics 365 Fundamentals (CRM) MB-910</div> <div>Dynamics 365 Fundamentals (ERP) MB-920</div>	<div>Microsoft 365 Fundamentals MS-900</div>	<div>Power Platform Fundamentals PL-900</div>	<div>Security, Compliance, and Identity Fundamentals SC-900</div>
Role-based Expand your technical skill set	<div>Azure Administrator Associate AZ-104</div> <div>Azure Developer Associate AZ-204</div> <div>Azure Security Engineer Associate AZ-500</div> <div>Azure Stack Hub Operator Associate AZ-600</div> <div>Azure Network Engineer Associate AZ-700</div> <div>Windows Server Hybrid Administrator Associate AZ-800 + AZ-801</div> <div>Azure AI Engineer Associate AI-102</div> <div>Azure Data Scientist Associate DP-100</div> <div>Azure Data Engineer Associate DP-203</div> <div>Azure Database Administrator Associate DP-300</div> <div>Azure Enterprise Data Analyst Associate DP-500</div> <div>DevOps Engineer Expert AZ-400</div> <div>Azure Solutions Architect Expert AZ-305</div>	<div>Dynamics 365 Sales Functional Consultant Associate MB-210</div> <div>Dynamics 365 Marketing Functional Consultant Associate MB-220</div> <div>Dynamics 365 Customer Service Functional Consultant Associate MB-230</div> <div>Dynamics 365 Field Service Functional Consultant Associate MB-440</div> <div>Dynamics 365 Finance Functional Consultant Associate MB-300 + MB-310</div> <div>Dynamics 365 Supply Chain Management, Manufacturing Functional Consultant Associate MB-300 + MB-320</div> <div>Dynamics 365 Supply Chain Management Functional Consultant Associate MB-300 + MB-330</div> <div>Dynamics 365 Commerce Functional Consultant Associate MB-300 + MB-340</div> <div>Dynamics 365 Finance and Operations Apps Developer Associate MB-300 + MB-500</div> <div>Dynamics 365 Finance and Operations Apps Solution Architect Expert MB-700</div> <div>Dynamics 365 Business Central Functional Consultant Associate MB-400</div>	<div>Teams Application Developer Associate MS-600</div> <div>Messaging Administrator Associate MS-203</div> <div>Modern Desktop Administrator Associate MD-100 + MD-101</div> <div>Security Administrator Associate MS-500</div> <div>Teams Administrator Associate MS-700</div> <div>Teams Voice Engineer Expert MS-720</div> <div>Enterprise Administrator Expert MS-100 + MS-101</div>	<div>Power Platform App Maker Associate PL-100</div> <div>Power Platform Functional Consultant Associate PL-200</div> <div>Power BI Data Analyst Associate PL-300</div> <div>Power Platform Developer Associate PL-400</div> <div>Power Automate RPA Developer Associate PL-500</div> <div>Power Platform Solution Architect Expert PL-600</div>	<div>Azure Security Engineer Associate AZ-500</div> <div>Identity and Access Administrator Associate SC-300</div> <div>Microsoft 365 Security Administrator Associate MS-500</div> <div>Information Protection Administrator Associate SC-400</div> <div>Security Operations Analyst Associate SC-200</div> <div>Cybersecurity Architect Expert SC-100</div>
Specialty Deepen your technical skills and manage industry solutions	<div>Azure for SAP Workloads Specialty AZ-120</div> <div>Azure Virtual Desktop Specialty AZ-140</div> <div>Azure Support Engineer for Connectivity Specialty AZ-720</div> <div>Azure IoT Developer Specialty AZ-220</div> <div>Azure Cosmos DB Developer Specialty DP-420</div>	<div>Customer Data Platform Specialty MB-260</div>	<div>Exchange Online Support Engineer Specialty MS-220</div> <div>Teams Support Engineer Specialty MS-740</div>		

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AZ-700 Labs

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



Microsoft Leaving Github

master










1 branch

5 tags

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Add file

<> Code

	jileary23 Update M05-Unit 4 Deploy Azure application gateway.md	✓ 2793e1a 27 days ago	🕒 585 commits
	.github	Delete release.yml	last month
	Allfiles/Exercises	Create test.json	2 months ago
	Instructions	Update M05-Unit 4 Deploy Azure application gateway.md	27 days ago
	LICENSE	Initial Commit	3 years ago
	_build.yml	Initial Commit	3 years ago
	_config.yml	Update _config.yml	3 years ago
	index.md	Update index.md	4 months ago
	readme.md	Update readme.md	11 months ago

 readme.md


AZ-700: Designing and Implementing Microsoft Azure Networking Solutions


Welcome


- [Link to Exercises \(HTML format\)](#)
- Are you a MCT? - Have a look at our [GitHub User Guide for MCTs](#)


About


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Releases

5 tags


Packages

No packages published

Contributors 12



Environments 1

 github-pages Active

Content Directory

Required exercise files can be [DOWNLOADED HERE](#)

Hyperlinks to each of the exercises are listed below.

Exercise

Module	Exercise
Module - Introduction to Azure Virtual Networks	M01-Unit 4 Design and implement a Virtual Network in Azure
Module - Introduction to Azure Virtual Networks	M01-Unit 6 Configure DNS settings in Azure
Module - Introduction to Azure Virtual Networks	M01-Unit 8 Connect two Azure Virtual Networks using global virtual network peering
Module - Design and implement hybrid networking	M02-Unit 3 Create and configure a virtual network gateway
Module - Design and implement hybrid networking	M02-Unit 7 Create a Virtual WAN by using Azure Portal
Module - Design and implement Azure ExpressRoute	M03-Unit 4 Configure an ExpressRoute Gateway
Module - Design and implement Azure ExpressRoute	M03-Unit 5 Provision an ExpressRoute circuit
Module - Load balancing non-HTTP(S) traffic in Azure	M04-Unit 4 Create and configure an Azure load balancer
Module - Load balancing non-HTTP(S) traffic in Azure	M04-Unit 6 Create a Traffic Manager profile using the Azure portal
Module - Load balancing HTTP(S) traffic in Azure	M05-Unit 4 Deploy Azure Application Gateway
Module - Load balancing HTTP(S) traffic in Azure	M05-Unit 6 Create a Front Door for a highly available web application using the Azure portal
Module - Design and implement network security	M06-Unit 4 Configure DDoS Protection on a virtual network using the Azure portal

Classroom experience

9⁰⁰ - 17⁰⁰
12³⁰ - 13³⁰

15 min
15 min



Class hours



Building hours



Parking



Restrooms



Meals



Phones



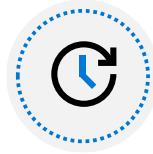
Messages



Smoking



Internet access



Recycling



Emergency procedures

End of presentation