How to get certified as an Architect in Microsoft Azure in 2024?

by Elkhan Yusubov | Microsoft MVP & MCT RL



September 25, 2024 12:30 PM UTC



Elkhan Yusubov Speaker | Author | Architect Founder at #CloudMarathoner





Elkhan is a Director of Cloud & Infrastructure, and an Architect Manager, Microsoft Azure MVP and 17+ MCT with experience in cloud solutions, enterprise healthcare systems and healthcare data, and API standards (HL7 FHIR, EDI X12).

He is an active Microsoft Tech Community Contributor, Cloud Lunch and Learn Co-organizer, Learning expert and MCT Regional Lead, and as well as a LinkedIn instructor with interests in Architecture, DevOps & Security.

He is a frequent speaker at tech meetups and has volunteered for Give Camps, Azure Data Fest, SQL Saturdays and Microsoft community events, like this one.

And please, checkout his blog posts at Cloud Marathoner site below.



https://theCloudMarathoner.com 👛 🏃

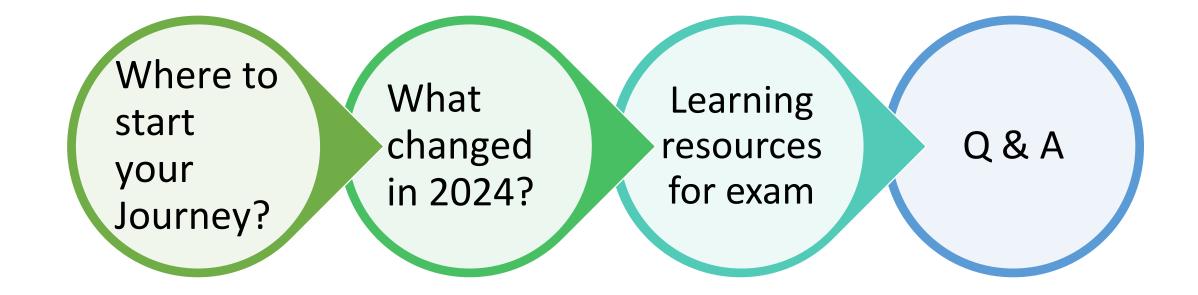






What we will cover





What we do; where we do it

□ IT Engineering Services

Agile Transformation Cloud Adoption & Infrastructure Optimization Cybersecurity Data Engineering & Analytics









Intel Community

DIS/



□ Customer Experience

Technology Adoption Release Management Communications Management Change Management



US TRANSCOM

Defense Information Systems Agency



General Services







Treasury

■ Health IT

Administration EHR Strategy & Management HIPAA Compliance Healthcare System Integration & Testing Patient Experience Enhancement





Company Info

· Established: 1999

Legal Structure: LLC

· Headquarters: Bethesda, MD

SDVOSB Joint Ventures

CMMI-DEV & SVC Level 3 v2.0

ISO 9001; ISO27001; ISO20000

Prime Vehicles/BPAs:

- GSA MAS HACS SIN
- GSA MAS Cloud SIN
- GSA MAS IT Svcs SIN
- COBRA OTA
- CIO-SP3 Small Business
- 8(a) STARS III via MPJV
- GSA MAS HACS SB & Cloud SIN SB via MPJV

Silver Microsoft Partner

Silver Datacenter Silver Data Analytics Silver Data Platform Silver App Dev Silver App Integration















T-Rex has donated over \$3.5M in support of underserved youth, veterans, and local organizations.

Certification journey



Your path to Azure Solutions Architect Expert

Microsoft training

- Self-paced online learning (on Microsoft Learn)
- AZ-305T00: Designing Microsoft Azure Infrastructure Solutions

AZ-305: Designing Microsoft Azure Infrastructure Solutions Exam Prep You are here - welcome!

AZ-305: Designing Microsoft Azure Infrastructure Solutions Exam

Microsoft Certified: **Azure Solutions** Architect Expert



Work experience

- Experience in Azure administration
- Advanced experience and knowledge of IT operations
- Experience with Azure development and DevOps

Self-study resources

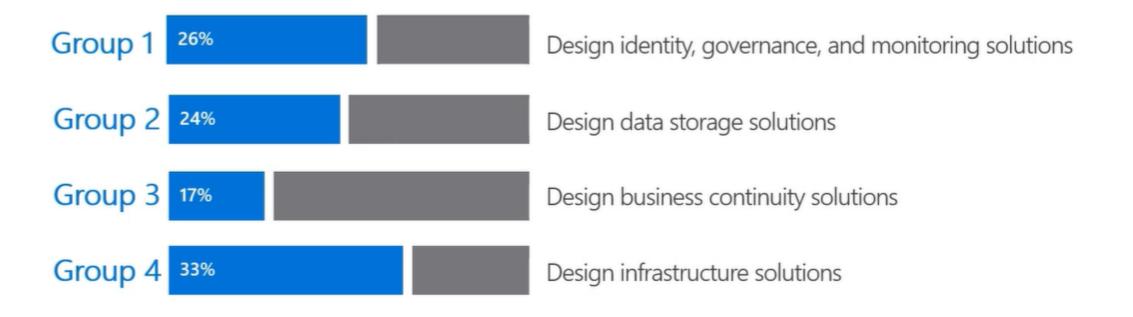
- Hands-on Labs
- Microsoft Docs
- Azure Architecture Center
- Microsoft Official Practice Test
- Focus placed on skills identified during this session





What we have in AZ-305 exam?





Exam domain objective Group 1



AZ-305 exam – Skills Measured 1

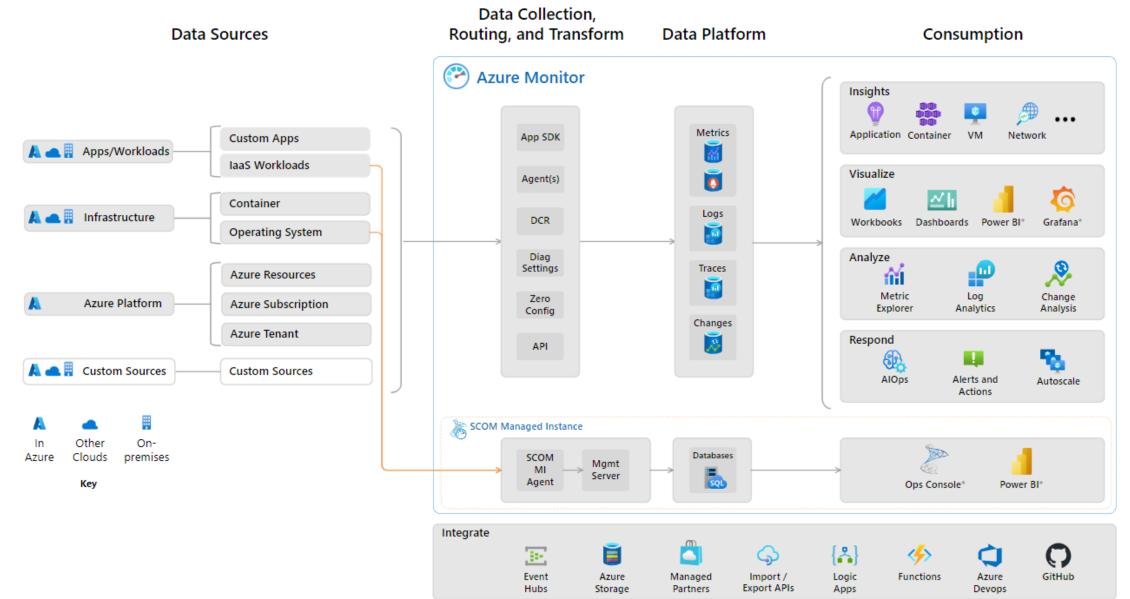
Design identity, governance, and monitoring solutions

- 1.1 Design a solution for logging and monitoring
- 1.2 Design authentication and authorization solutions
- 1.3 Design governance



Closer look at Monitoring exam domain objective



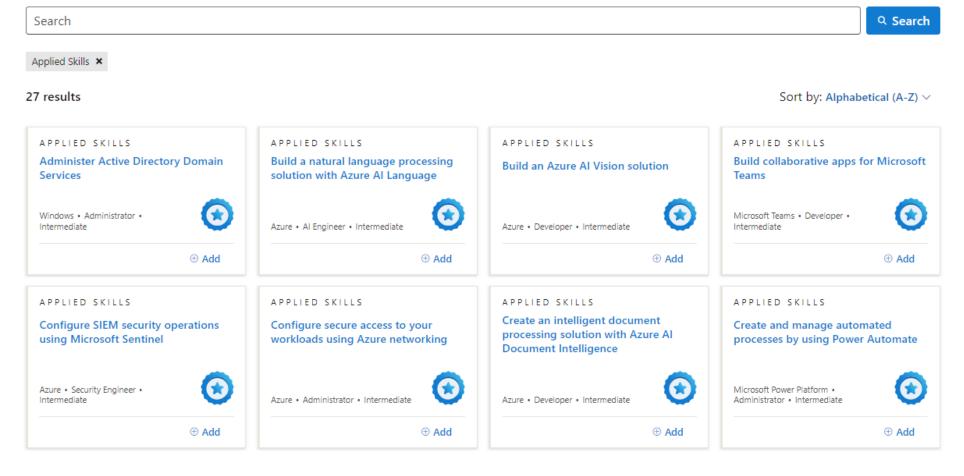


Applied Skills



Filter Clear all **Products** Find a product ✓ □ .NET ✓ ☐ Azure Microsoft Copilot ✓ Microsoft Defender ✓ Microsoft Entra Microsoft Fabric Microsoft Graph ✓ Microsoft Power Platform Microsoft Teams Roles Administrator Al Engineer App Maker Data Analyst

Data Engineer







Exam domain objective Group 2



AZ-305 exam – Skills Measured 2

Design Data Storage Solutions

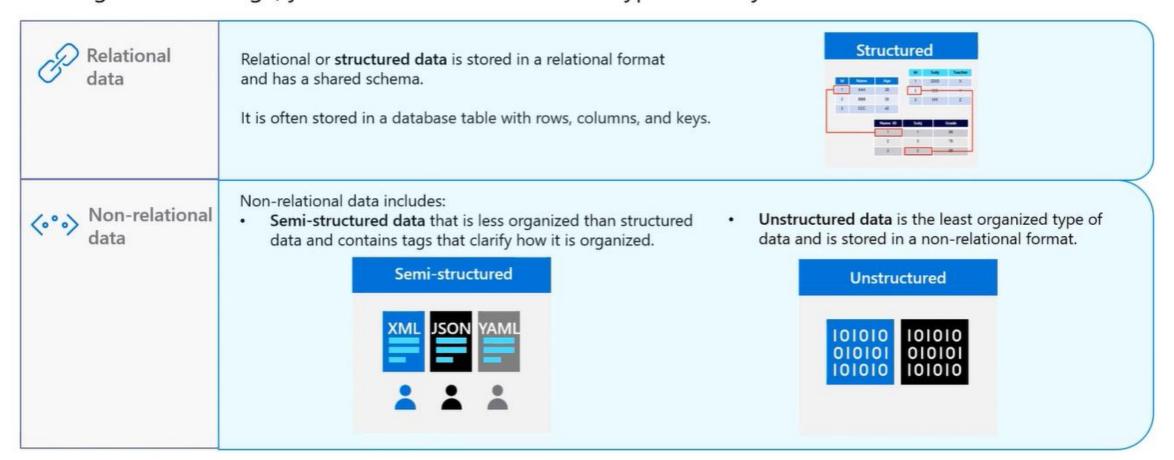
- 2.1 Design a data storage solution for relational data
- 2.2 Design data storage solutions for semi-structured and unstructured data
- 2.3 Design data integration



Closer look at storage exam domain objective

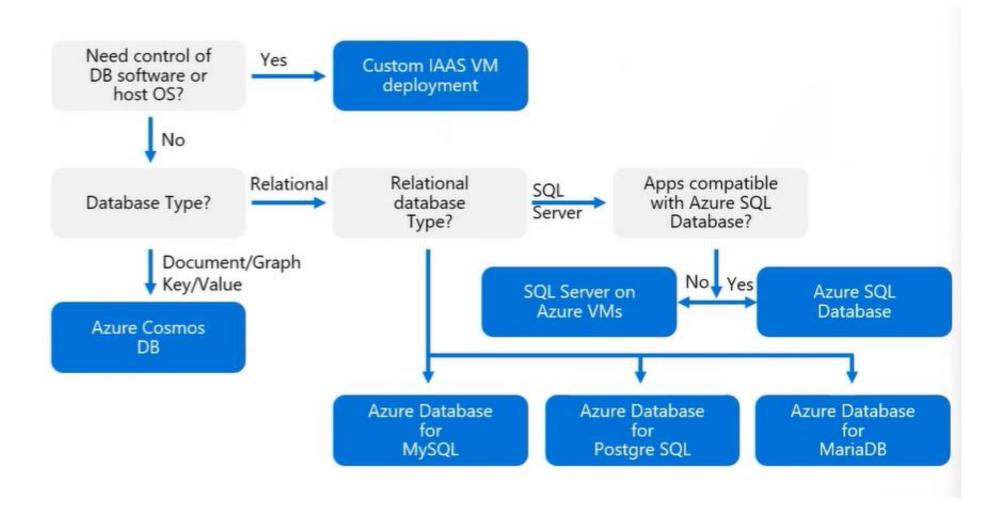


To design Azure storage, you first must determine what type of data you have.



Choose from the relational data products





Exam domain objective Group 3



AZ-305 exam – Skills Measured 3

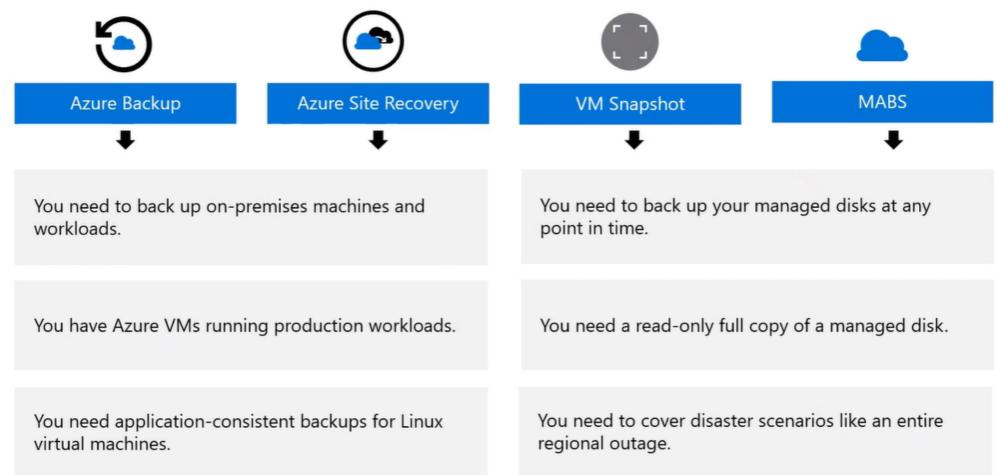
Design Business Continuity Solutions

- 3.1 Design a solution for backup and disaster recovery
- 3.2 Design for high availability



Closer look at disaster recovery methods





Exam domain objective Group 4



AZ-305 exam – Skills Measured 4

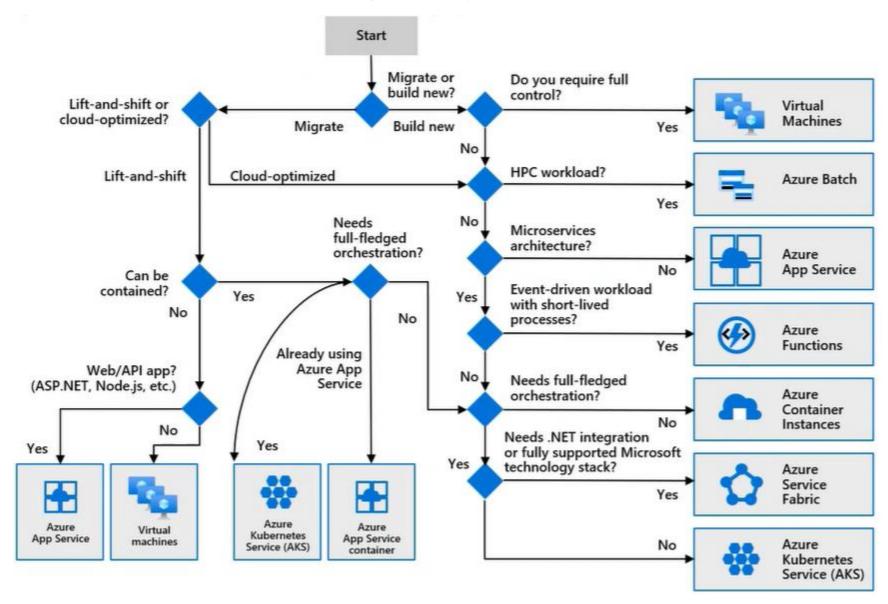
Design infrastructure solutions

- 4.1 Design a compute solution
- 4.2 Design an application architecture
- 4.3 Design migrations
- 4.4 Design network solutions



Closer look at choosing compute services





Major changes to AZ-305 exam after October 18th



- Design authentication and authorization solutions
- Design for High Availability
- Design Identities and Access for Applications (removed)
- Recommend a Data Storage Solution (removed)



Learning resources for AZ-305 exam



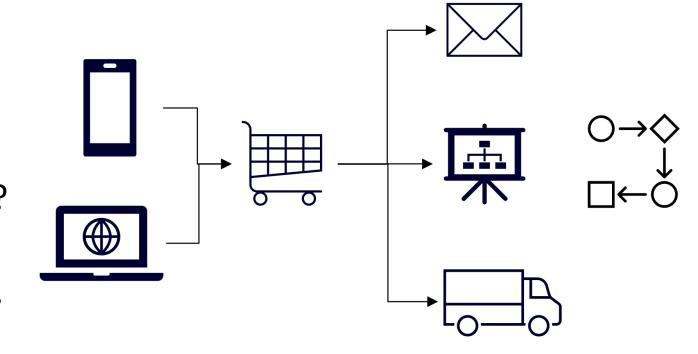
- Microsoft Learn modules
- Cloud Marathoner Study Guide
- Thomas Maurer Study Guide
- Official practice tests
- John Savill's Study Cram
- Labs and exercises
- **Azure Architect center**
- Microsoft Exam emulator
- Free Practice Assessment



Case Studies – Design an app architecture

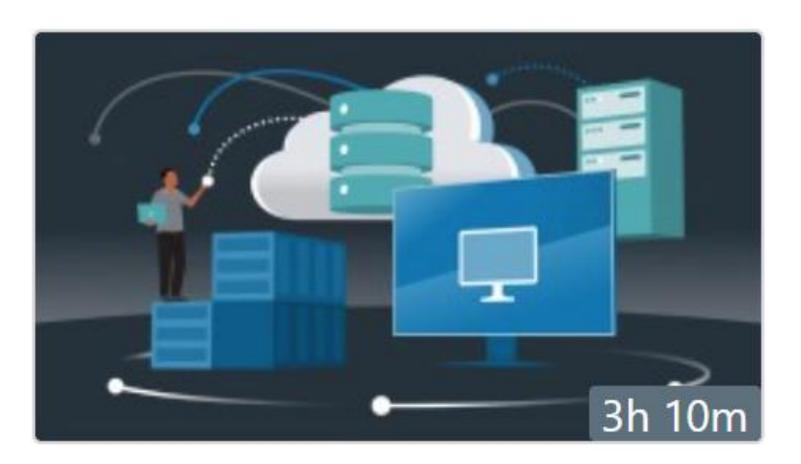


- Where should the images be stored?
- How will you ensure that all images are scanned even when uploads are outpacing scanning?
- Once images are approved and the catalog database is updated, how will the customer be notified?





Azure Solutions Architect Expert (AZ-305) Cert Prep: Design Infrastructure Solutions

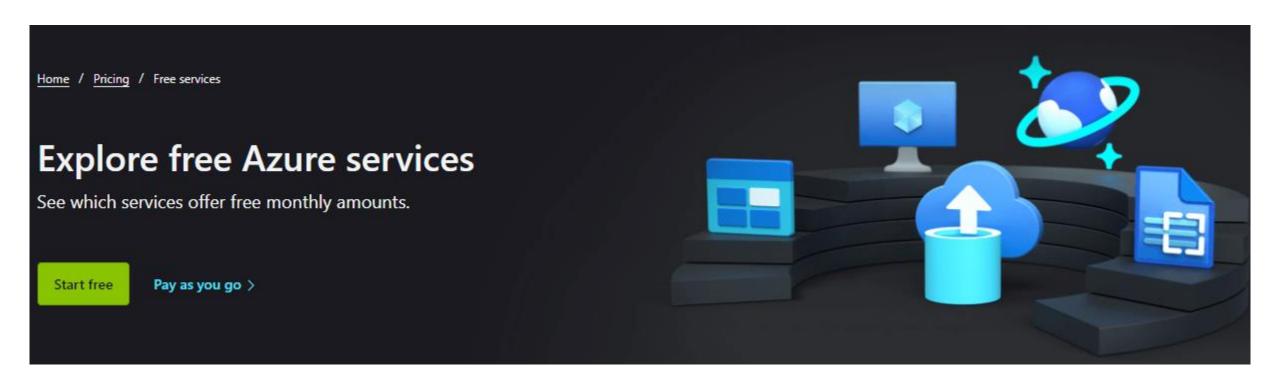




Azure always free resources



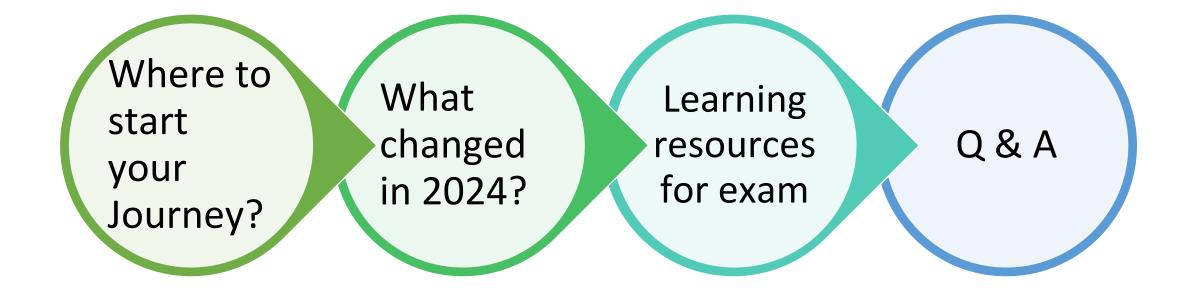
- Azure free subscription
- Always free 40+ services





What we covered





What is next?



#CloudMarathoner 's Study Guide



Microsoft Lean AZ-305 modules



AWESOME Azure Architect - GitHub



LinkedIn AZ-305 Cert Prep: Design Infrastructure Solutions



Thank you!



Elkhan Yusubov

Speaker | Author | Cloud Architect Founder at #cloudmarathoner

https://azurebacktoschool.github.io/

https://theCloudMarathoner.com 🦰 🏃 🏃





