



I'm speaking at Azure Back to School 2023

What you need to know about Microsoft Azure Architect (AZ-305) exam?

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Elkhan Yusubov



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Speaker | Author | Cloud Architect
Founder at #cloudmarathoner



Elkhan is a Cloud Architect Manager, Microsoft Azure MVP and 15+ 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 Speaker and Co-Organizer, and 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.

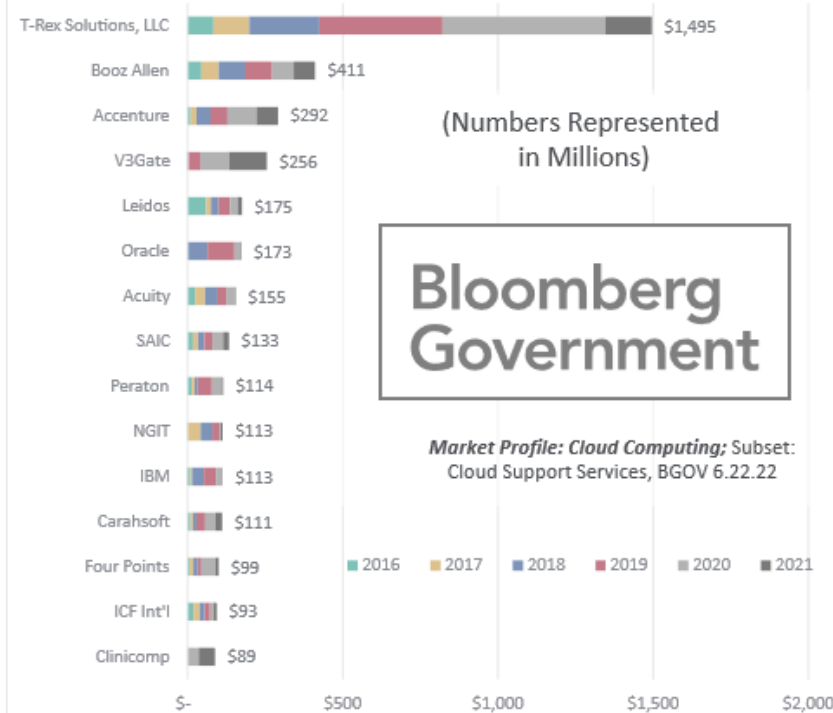
Please, checkout the blog posts at Cloud Marathoner site below.

<https://theCloudMarathoner.com>   

What we do; where we do it; how it relates



Top Cloud Support Services Vendors



Company Info

- **Established:** 1999
- **Legal Structure:** LLC
- **Headquarters:** Greenbelt, MD
- **8(a)/HUBZone & 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
- STARS III via MPJV
- GSA MAS HACS SB & Cloud SIN SB via MPJV

Silver
Microsoft Partner

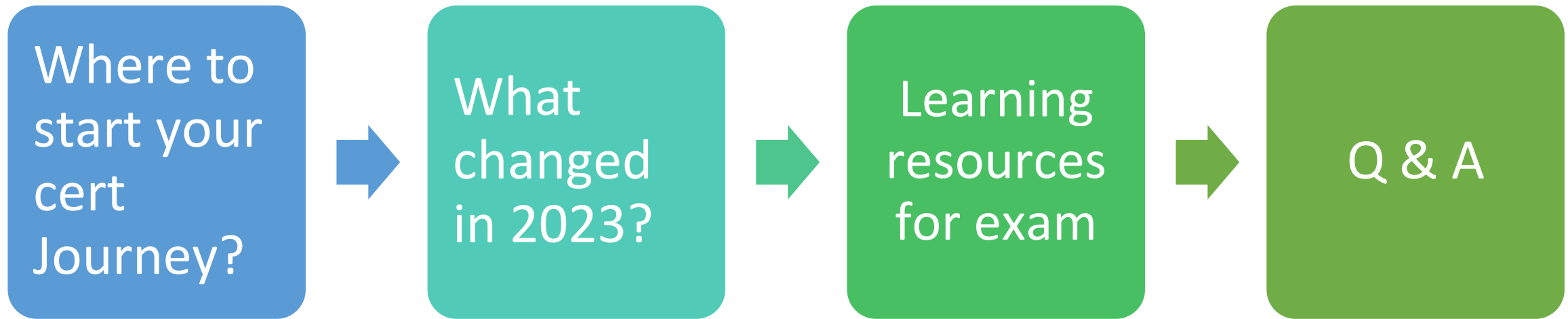
Silver Datacenter
Silver Data Analytics
Silver Data Platform
Silver App Dev
Silver App Integration



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



What we will cover



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



Microsoft Certified:
Azure Administrator Associate
(Prerequisite)



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



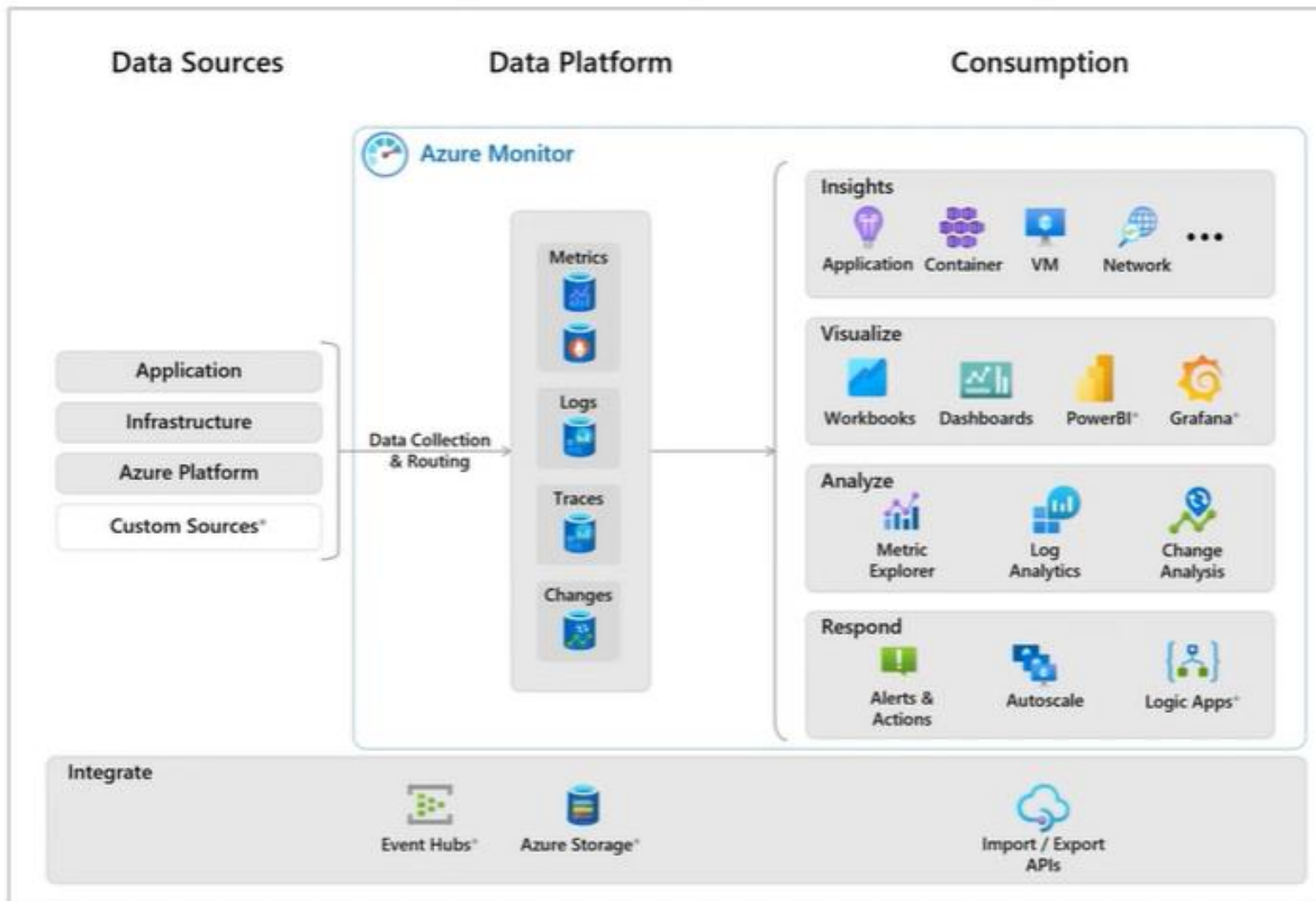
AZ-305 exam – Skills Measured 1

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



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

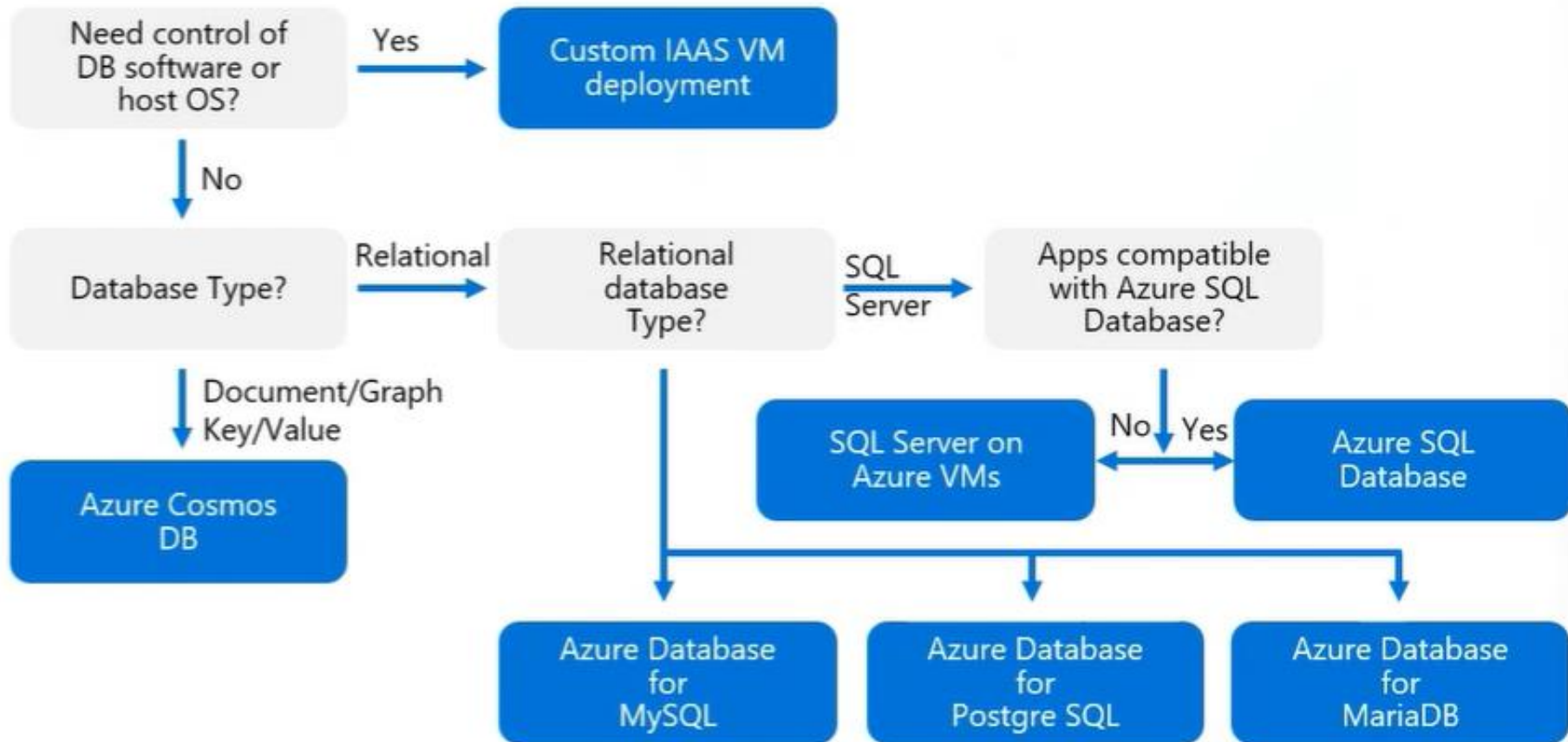


Closer look at storage exam domain objective

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

 Relational data	<p>Relational or structured data is stored in a relational format and has a shared schema.</p> <p>It is often stored in a database table with rows, columns, and keys.</p> <div data-bbox="1745 349 2051 621">Structured </div>
 Non-relational data	<p>Non-relational data includes:</p> <ul style="list-style-type: none">• Semi-structured data that is less organized than structured data and contains tags that clarify how it is organized.• Unstructured data is the least organized type of data and is stored in a non-relational format. <div data-bbox="802 792 1202 1149">Semi-structured </div> <div data-bbox="1694 792 2094 1149">Unstructured </div>

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



Azure Backup



You need to back up on-premises machines and workloads.

You have Azure VMs running production workloads.

You need application-consistent backups for Linux virtual machines.



Azure Site Recovery



You need to back up your managed disks at any point in time.

You need a read-only full copy of a managed disk.

You need to cover disaster scenarios like an entire regional outage.



VM Snapshot



MABS



Exam domain objective Group 4



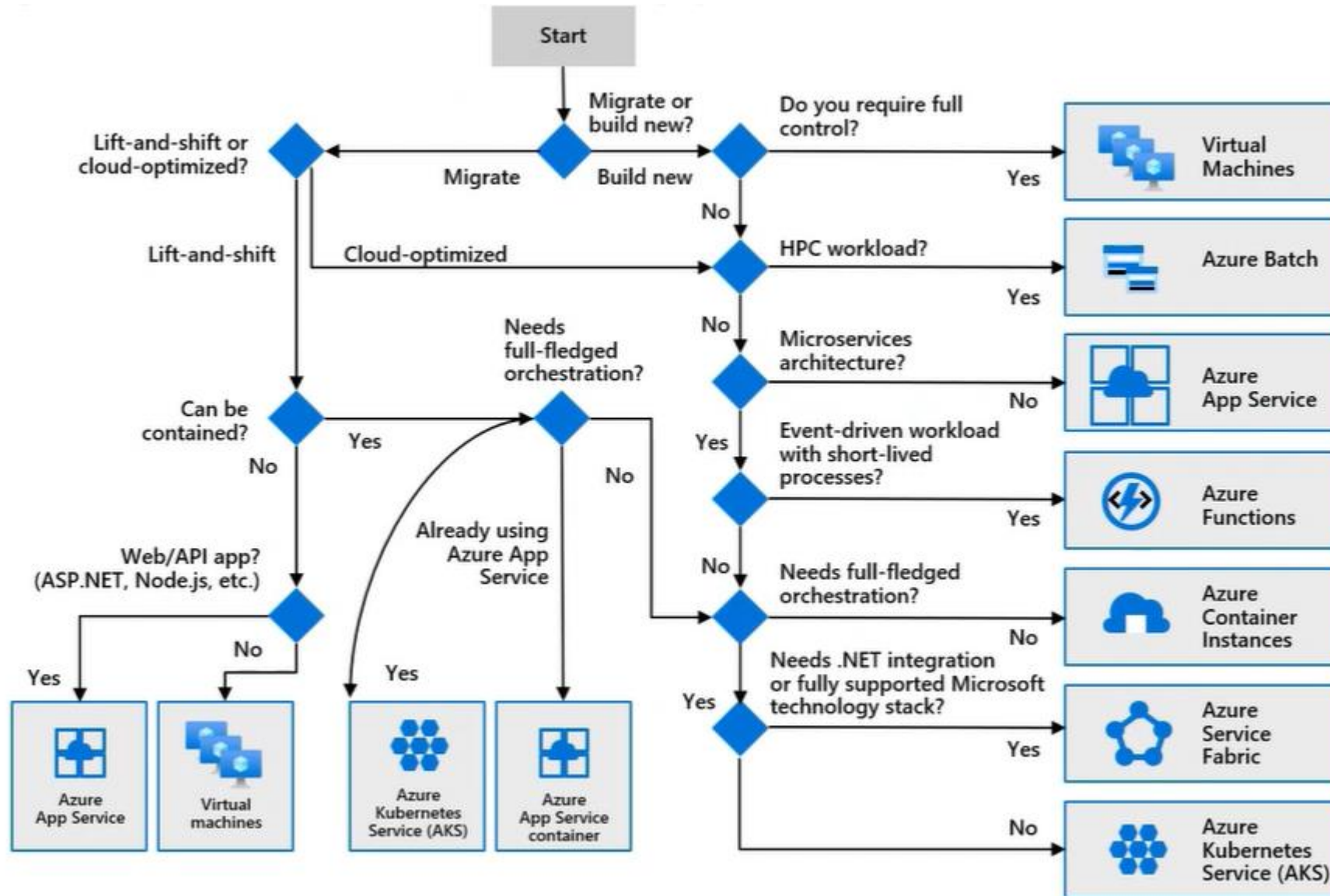
AZ-305 exam – Skills Measured 4

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 August 7th



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



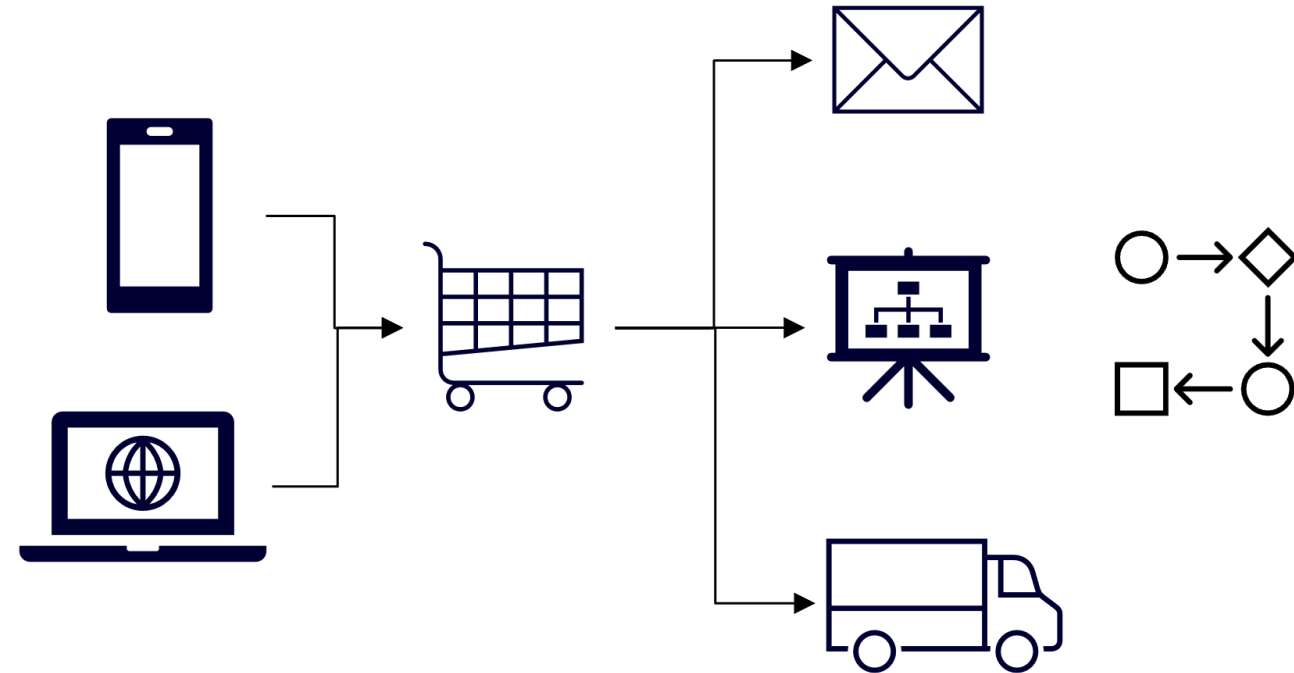
Learning resources for AZ-305 exam

- [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

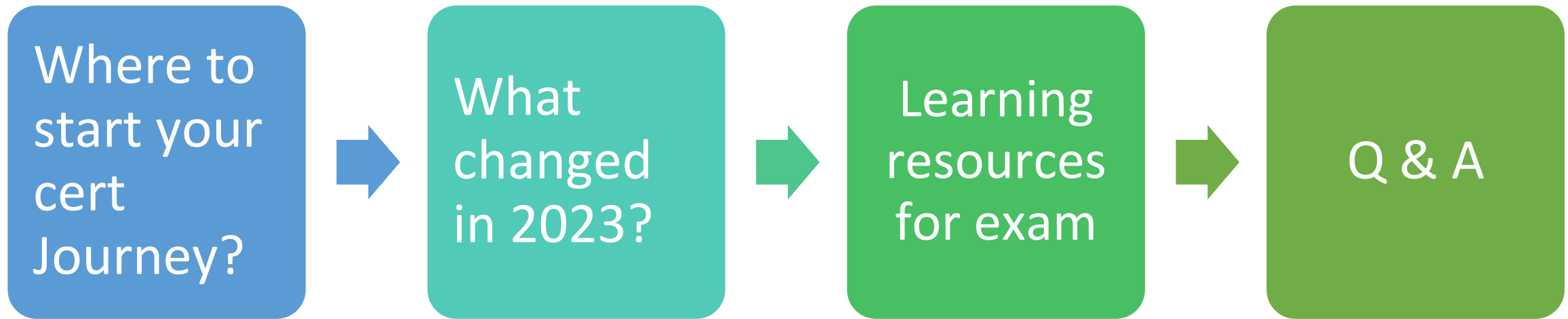


- Azure free subscription
- Always free 40+ services





What we covered



What is next?



#CloudMarathoner 's Study Guide



Microsoft Learn AZ-305 modules



AWESOME Azure Architect - GitHub



**LinkedIn AZ-305 Cert Prep:
Design Infrastructure Solutions**



Thank you !



<https://azurebacktoschool.github.io/>

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