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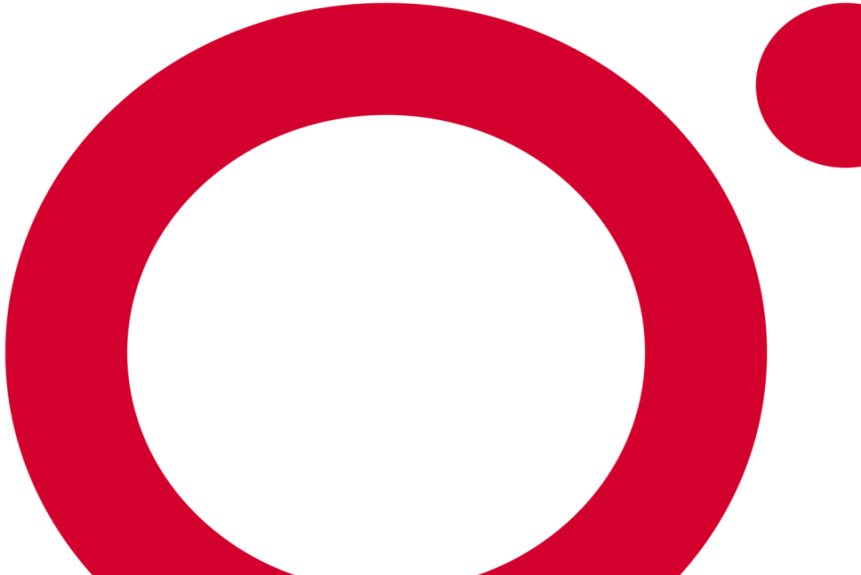
Microsoft Azure Developer Associate (AZ-204) Crash Course

Developing Solutions for Microsoft Azure



Reza Salehi

Cloud Consultant and Trainer

linkedin.com/in/rezasalehi2008

Pulse Check: Are you familiar with Azure Fundamentals?

Microsoft Azure Fundamentals (AZ-900) Certification Course, 2nd Edition

Continue

4h 55m remaining

With your instructor

Reza Salehi

+ Add to playlist

Associated roles

Cloud native engineer | Cloud solutions architect | Cybersecurity engineer | Database administrator

+1 more

Skills covered

AZ-900: Microsoft Azure Fundamentals

AZ-303: Microsoft Azure Architect...

AZ-500: Microsoft Azure Security...

AI-900: Microsoft Azure AI Fundamentals

Includes quizzes

Test your knowledge during the course and with a final quiz.

October 2024

O'Reilly Media, Inc.

Learning Outcomes

- Gain knowledge of Azure cloud concepts and services
- Explore Azure services in greater depth
- Get ready for Exam AZ-900: Microsoft Azure Fundamentals
- Comfortably work with the Azure portal

The Microsoft Azure Fundamentals (AZ-900) exam is one of the most popular certifications for those who are just beginning to work with cloud-based solutions and services or who are new to Azure. The exam certifies knowledge of cloud concepts, Azure services, workloads, security and privacy, and pricing and support.

In this self-paced course, Reza Salehi will help you get familiar with Microsoft Azure's cloud services and begin your Azure certification journey. This course is aligned to the AZ-900 exam objective domains and has recently been updated to reflect the most current version of the exam (2024). It covers all the services and concepts in the Azure ecosystem you need to know in order to prepare for the test.

What you'll learn and how to apply it

By the end of this certification course, you will understand the following:

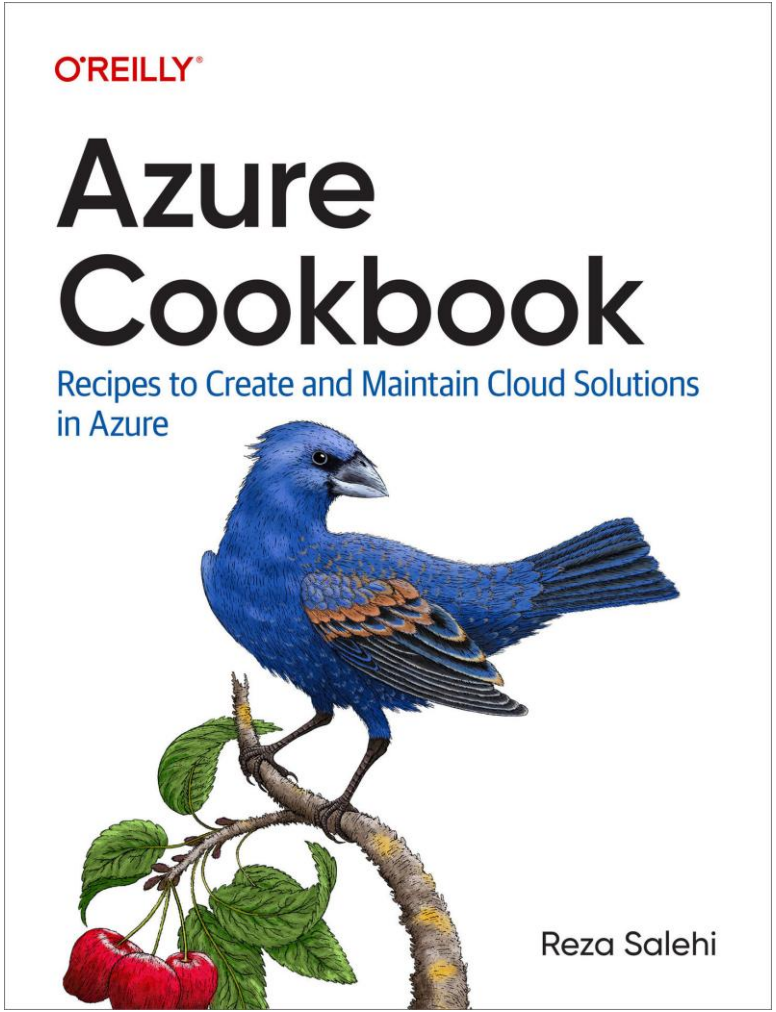
- General cloud concepts
- Core Azure services
- Core solutions and management tools on Azure
- General security and network security features
- Identity, governance, privacy, and compliance features
- Azure cost management and service-level agreements

Azure Cookbook

https://learning.oreilly.com/library/view/azure-cookbook/9781098135782/

https://www.amazon.ca/Azure-Cookbook-Recipes-Maintain-Solutions/dp/1098135792/

https://www.amazon.com/Azure-Cookbook-Recipes-Maintain-Solutions/dp/1098135792



CERTIFICATION

Microsoft Certified: Azure Developer Associate

Build end-to-end solutions in Microsoft Azure to create Azure Functions, implement and manage web apps, develop solutions utilizing Azure storage, and more.

At a glance

Level

Product

Prepare for the exam

COURSE

Developing Solutions for Microsoft Azure

Continue course >

Training in this course

AZ-204: Implement Azure App Service web apps

2 hr 3 min • Learning Path • 4 units

AZ-204: Implement Azure Functions

53 min • Learning Path • 2 units

AZ-204: Develop solutions that use Blob storage

1 hr 19 min • Learning Path • 3 units

AZ-204: Develop solutions that use Azure Cosmos DB

Take the exam

You will have **100 minutes** to complete this assessment.

Exam policy

This exam will be proctored, and is not open book. You may have interactive components to complete as part of this exam. To learn more about exam duration and experience, visit: Exam duration and exam experience.

If you fail a certification exam, don't worry. You can retake it 24 hours after the first attempt. For subsequent retakes, the amount of time varies. For full details, visit: Exam retake policy.

Need accommodations?

We offer a variety of accommodations to support you.

Learn More

This exam is offered in the following languages:

English, Japanese, Chinese (Simplified), Korean, French, German, Spanish, Portuguese (Brazil), Russian, Chinese (Traditional), Italian, Indonesian (Indonesia), Arabic (Saudi Arabia)

Schedule through Pearson Vue

United States

Pulse Check: Are you an application developer?

Course Overview

AZ-204 Skills Measured

Exam AZ-204: Developing Solutions for Microsoft Azure

Questions & Resources

- Please post questions in the Q&A box
- The course repository
  - https://github.com/zaalion/oreilly-az-204

- Reach out:
  - @zaalion

AZ-204 Candidate Profile

- Professionals who:
  - Have subject matter expertise designing, building, testing, and maintaining cloud applications and services on Microsoft Azure.

Azure Developer Associate

- Should have at least 2 years of professional development experience
- Experience with Microsoft Azure
- Can program in a language supported by Azure

AZ-204 Candidates

- Proficiency in
  - Azure SDKs, Azure PowerShell, Azure CLI,
  - Data storage options, data connections, APIs,
  - App authentication and authorization
  - Compute and container deployment
  - Debugging, performance tuning, and monitoring.

AZ-204 Skills Measured

- Skills measured:
  - Develop Azure compute solutions (25-30%)
  - Develop for Azure storage (15-20%)
  - Implement Azure security (15-20%)
  - Monitor and troubleshoot Azure solutions (5-10%)
  - Connect to and consume Azure services and third-party services (20-25%)

Course Repository

https://github.com/zaalion/oreilly-az-204

zaalion / oreilly-az-204 Public

Code Issues Pull requests Actions Projects Wiki Security 10 Insights Settings

master 1 branch 0 tags

Go to file Add file Code

rezasalehinewsig Updated slide deck PDF

Demos	demo files arrangement
.gitignore	Demos
AP-204 Resources.pdf	Resource updates
OReilly-AZ-204-Slide-Deck.pdf	Updated slide deck PDF

Help people interested in this repository understand your project by adding a

Local Codespaces New

Clone

HTTPS SSH GitHub CLI

https://github.com/zaalion/oreilly-az-204.git

Use Git or checkout with SVN using the web URL.

Open with GitHub Desktop

Open with Visual Studio

Download ZIP

Develop Azure Compute Solutions (25–30%)

Develop Azure Compute Solutions

- Implement containerized solutions
- Create Azure App Service Web Apps
- Implement Azure functions

Poll 1: You need to deploy a containerized application without managing infrastructure, while ensuring quick startup and per-second billing. Which Azure service should you use?

- Virtual Machines
- Azure Kubernetes Service (AKS)
- Azure Container Instances (ACI)
- Azure App Service

Implement Containerized Solutions

- Create and manage container images for solutions [see 1 2]
- Publish an image to the Azure Container Registry [see 1 2 3 4]
- Run containers by using Azure Container Instance [see 1 2 3]
- Create solutions by using Azure Container Apps [see 1 2]

Azure Container Registry (ACR)

- Use Azure Container Registries to store and manage Docker container images and related artifacts.
- Host images on a service such as App Services, Function Apps, ACI, AKS, or Azure Container Apps.

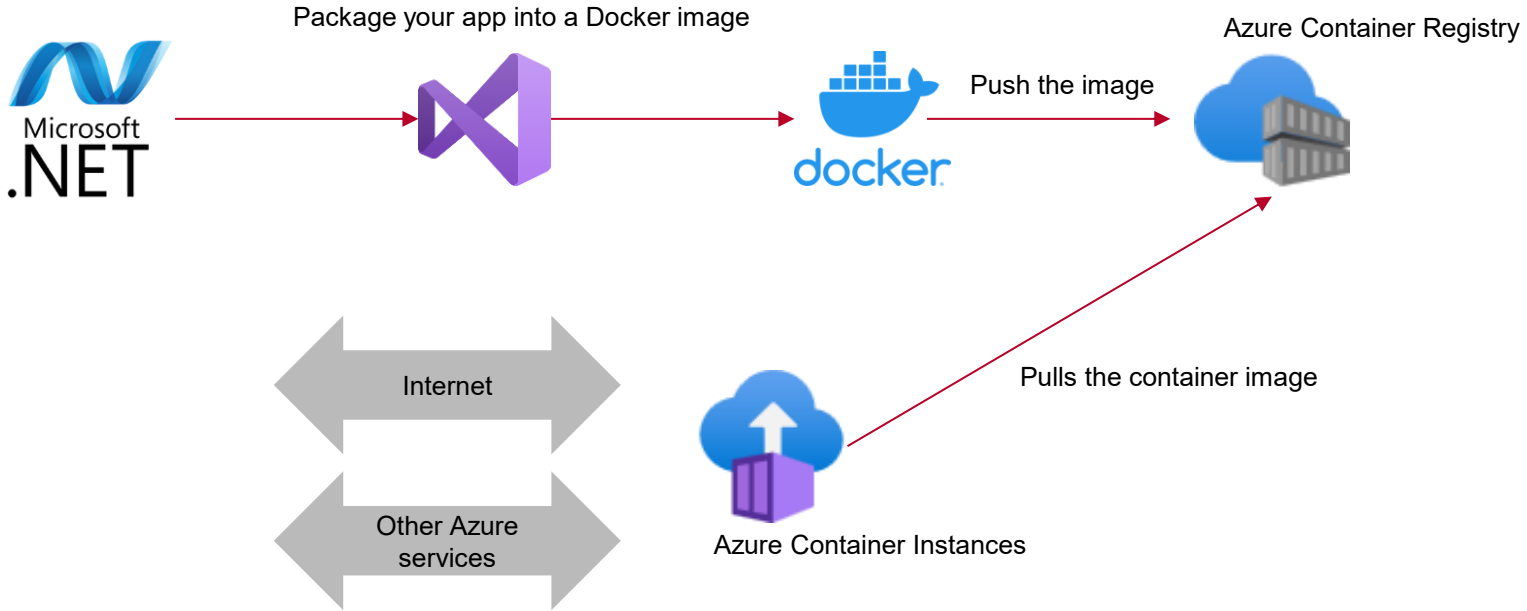
https://learn.microsoft.com/en-us/azure/container-registry/container-registry-intro

Azure Container Instances (ACI)

- Host single or multiple containers via NGroups
- ACI enables exposing containers directly to the internet with an IP address or a domain name (FQDN)

https://learn.microsoft.com/en-us/azure/container-instances/container-instances-overview

Host Your Code in ACI



https://docs.microsoft.com/en-us/azure/container-instances/container-instances-overview

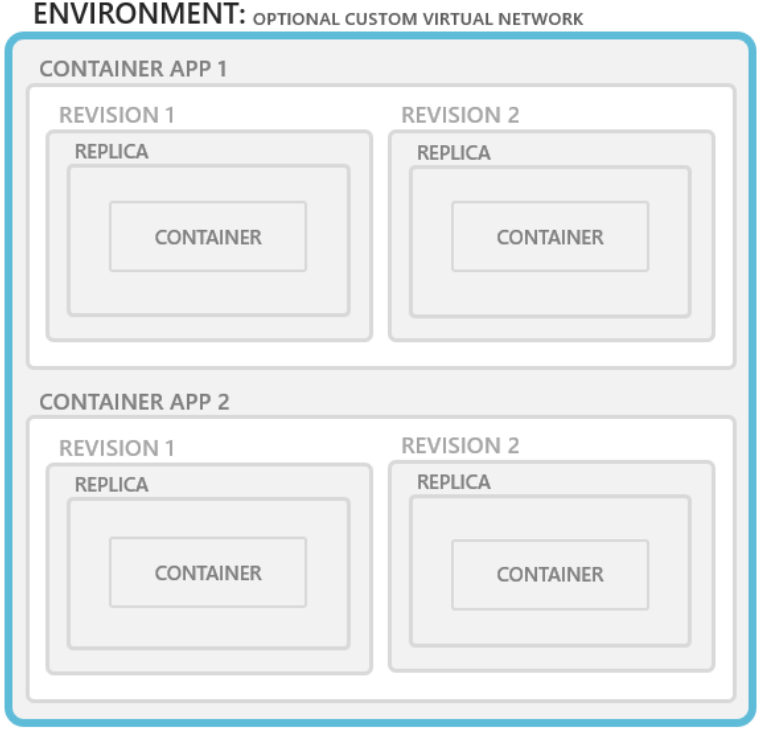
Azure Container Apps

- Use ACAs for complex container solutions instead of AKS, to eliminate K8 administrative tasks.

https://learn.microsoft.com/en-us/azure/container-apps/overview

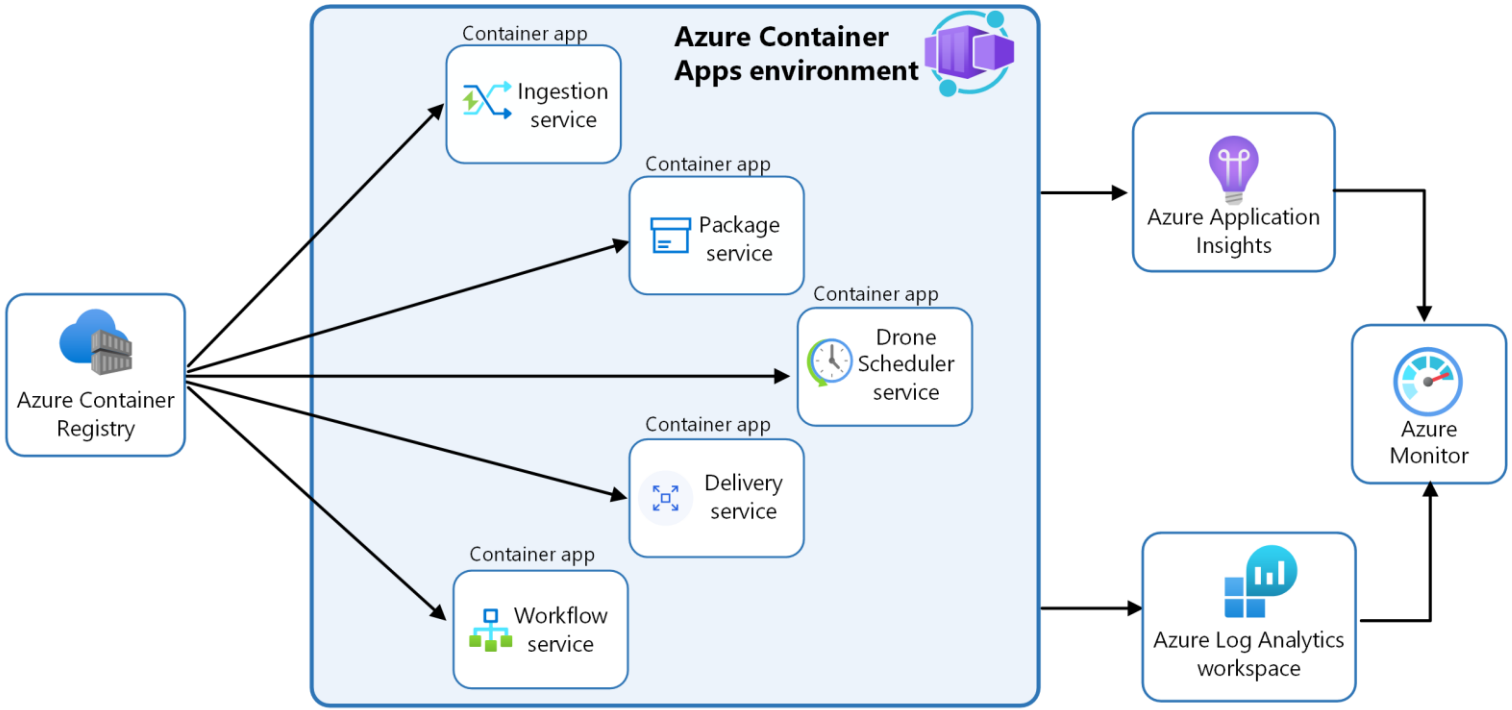
Azure Container Apps environments

Environments are an isolation boundary around a collection of container apps.



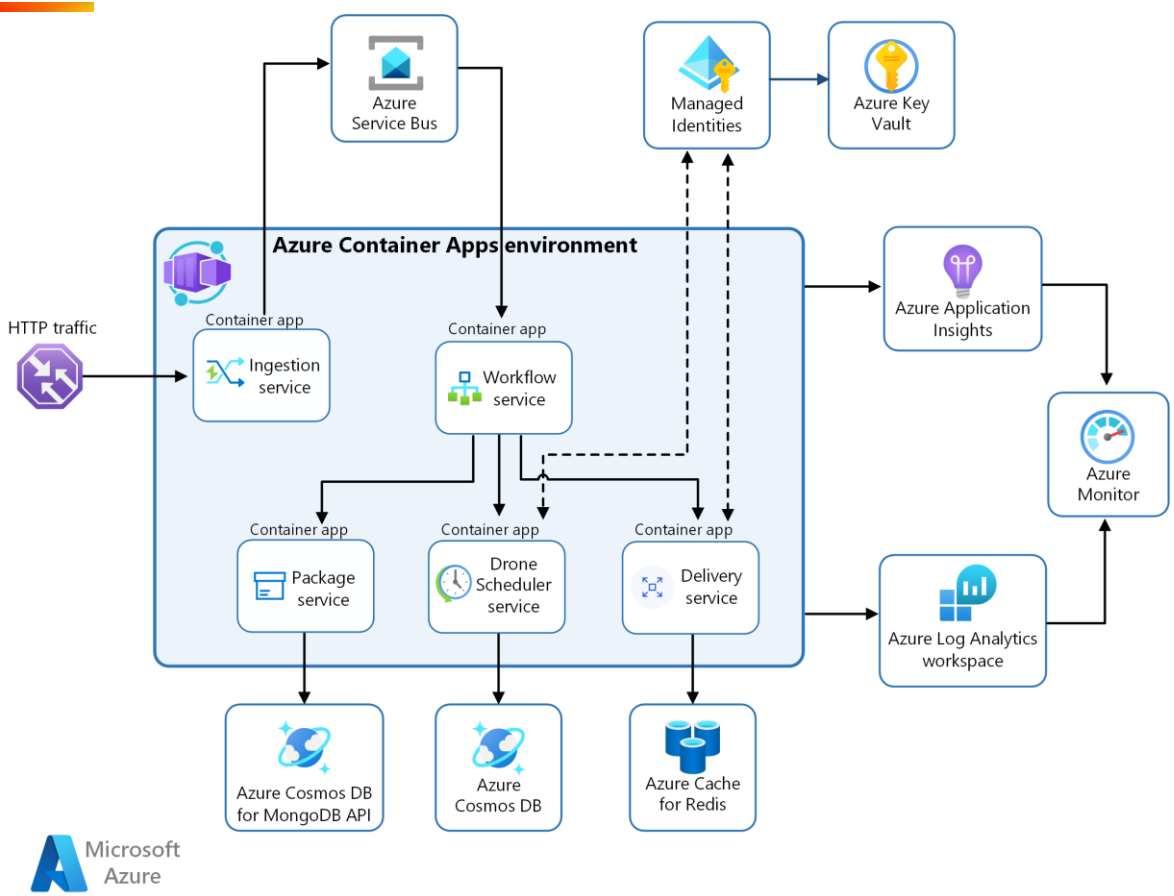
https://learn.microsoft.com/en-us/azure/container-apps/environment

Deploy microservices with Azure Container Apps

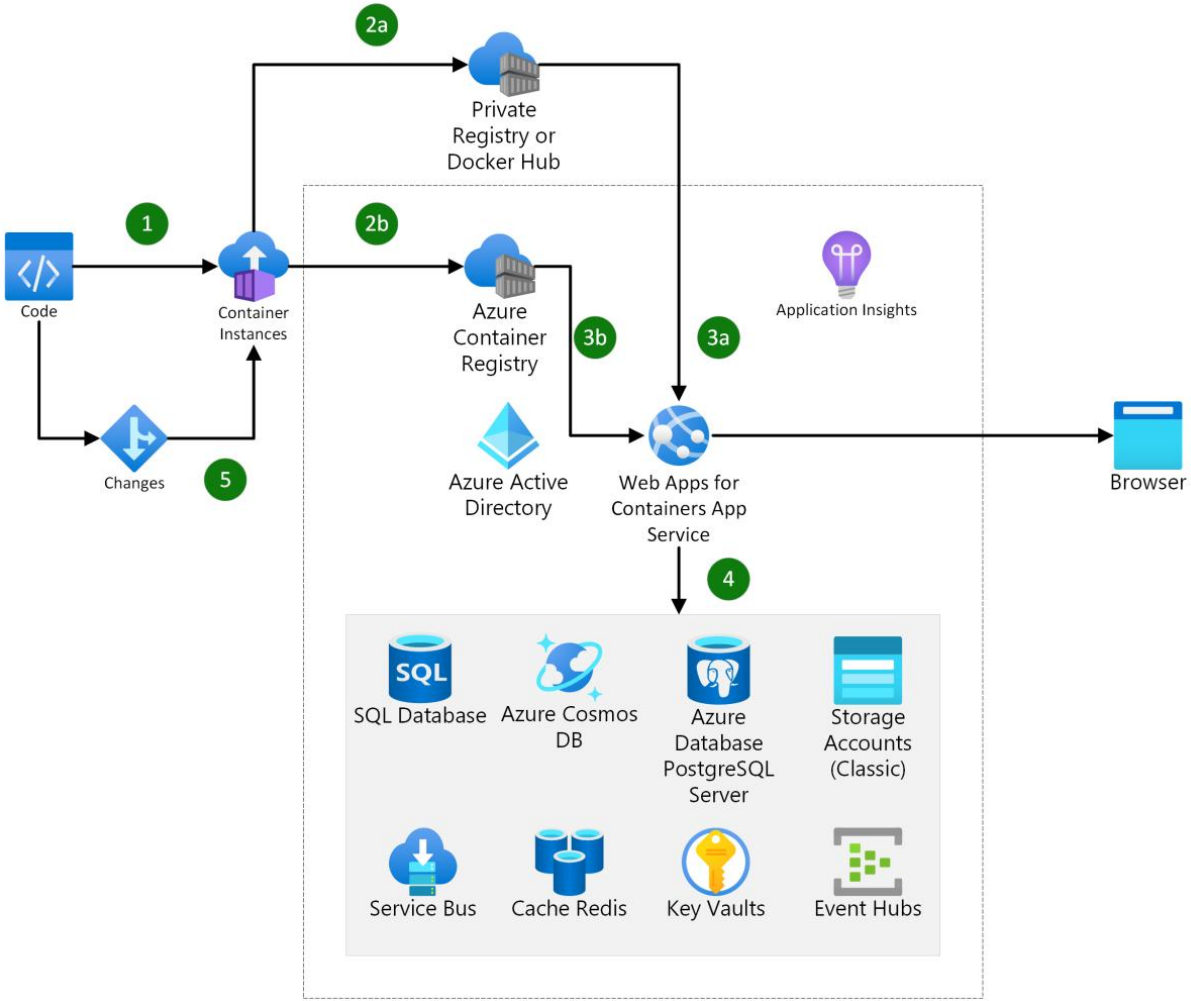


Microsoft Azure

https://learn.microsoft.com/en-us/azure/architecture/example-scenario/serverless/microservices-with-container-apps



https://learn.microsoft.com/en-us/azure/architecture/example-scenario/serverless/microservices-with-container-apps


2a
Private Registry or Docker Hub
1
2b
Code
Container Instances
Azure Container Registry
3b
3a
Application Insights
Changes
5
Azure Active Directory
Web Apps for Containers App Service
Browser
4
SQL Database
Azure Cosmos DB
Azure Database PostgreSQL Server
Storage Accounts (Classic)
Service Bus
Cache Redis
Key Vaults
Event Hubs

Implement Azure App Service Web Apps

- Create an Azure App Service Web App [see 1 2 3]
- Configure and implement diagnostics and logging [see 1]
- Deploy code and containerized solutions [see 1 2 3 4]
- Configure settings including Transport Layer Security (TLS), API settings, and service connections [see 1 2]
- Implement autoscaling [see 1]
- Configure deployment slots [see 1 2]

Azure App Services

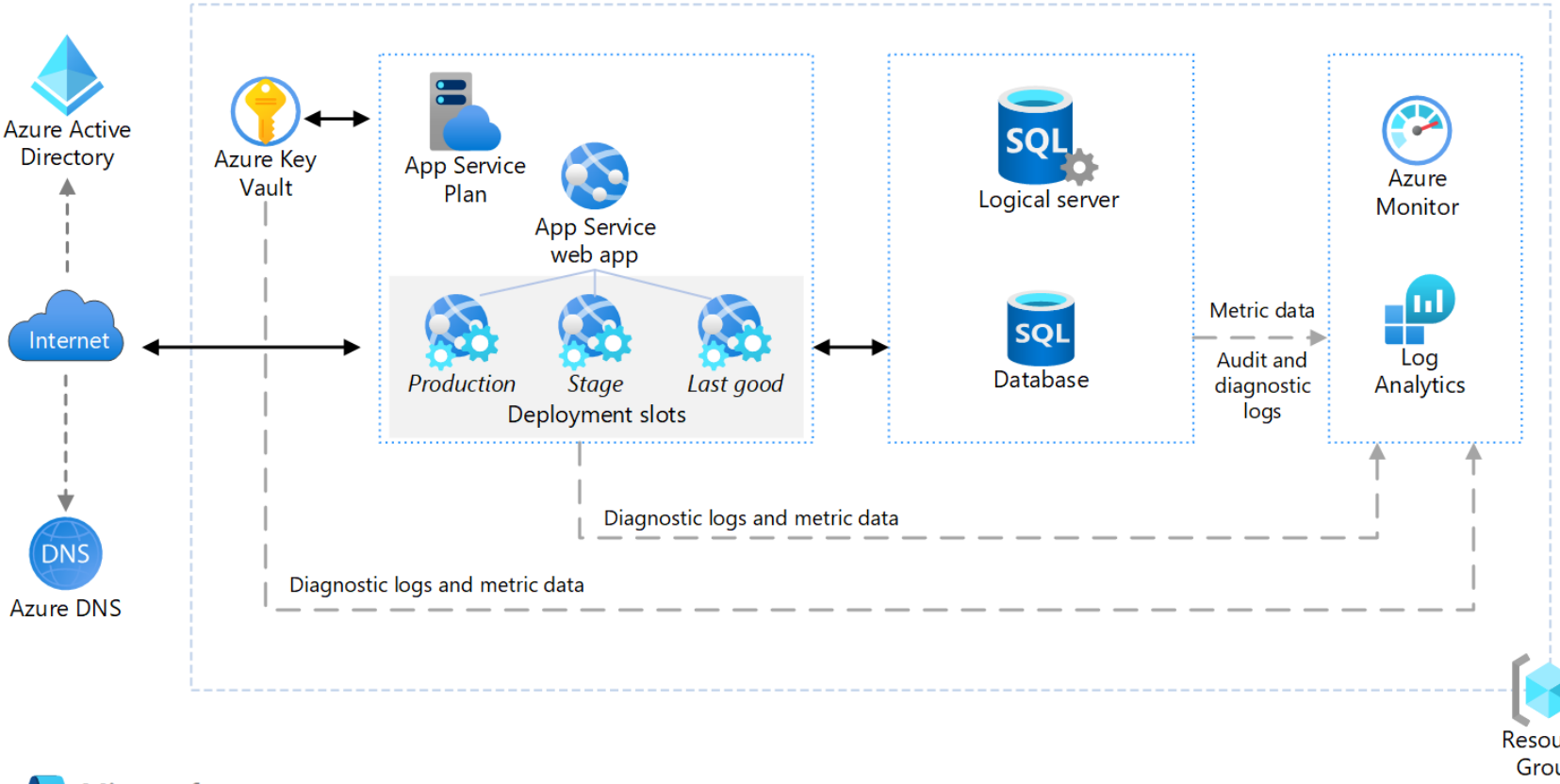
Azure App Service is an HTTP-based service for hosting web applications, REST APIs, and mobile back ends. It can host .NET, .NET Core, Java, Ruby, Node.js, PHP, or Python code

https://docs.microsoft.com/en-us/azure/app-service/overview

Azure App Services

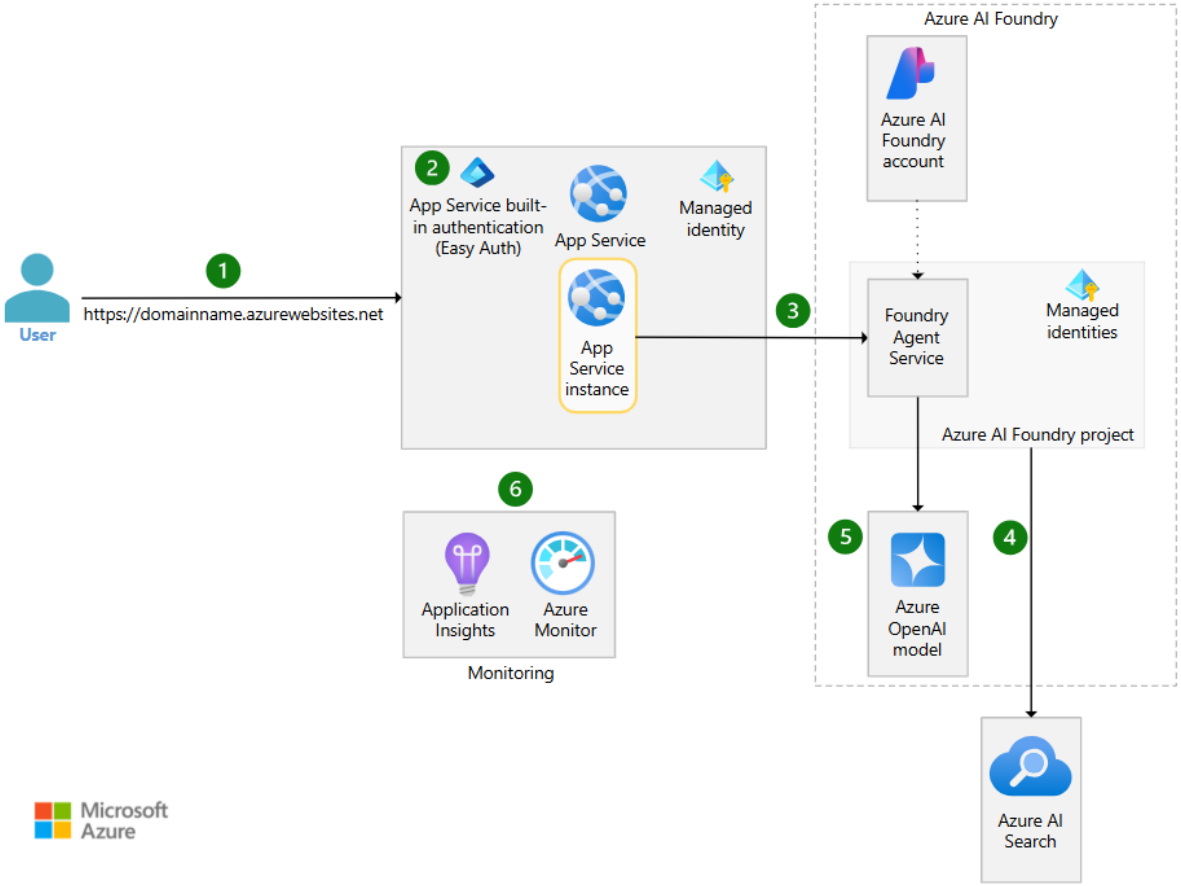
- Is a PaaS service, which means less administrative overhead comparing to IaaS services
- The service is managed by Azure. You just deploy your code and run it
- Host websites and RESTful APIs using the web app feature
- Other apps such as mobile app back ends or automated business processes
- Use for legacy and new applications
- Global scale with high availability

https://docs.microsoft.com/en-us/azure/app-service/overview



Microsoft Azure

https://learn.microsoft.com/en-us/azure/architecture/web-apps/app-service/architectures/basic-web-app?tabs=cli



https://learn.microsoft.com/en-us/azure/architecture/ai-ml/architecture/basic-azure-ai-foundry-chat

Implement Azure Functions

- Create and configure an Azure Function App [see 1 2 3]
- Implement input and output bindings [see 1]
- Implement function triggers by using data operations, timers, and webhooks [see 1 2]

Poll 2: You need to host a backend HTTP API that handles unpredictable traffic spikes, scales automatically, and minimizes management overhead. Which Azure service is the best choice?

- Virtual Machines
- Azure Function Apps
- Azure Web Apps
- Azure Container Instances

Azure Functions

- Run isolated pieces of code in a serverless solution.
- Best to host microservices and APIs (HTTP, and other types)

https://docs.microsoft.com/en-us/azure/azure-functions/functions-overview

Azure Functions

- A serverless PaaS
- The service is managed by Azure. Just deploy your code and run it
- Host APIs and microservices
- Use for legacy and new applications
- Automatic scale and high availability

https://docs.microsoft.com/en-us/azure/azure-functions/functions-overview

Azure Functions Triggers

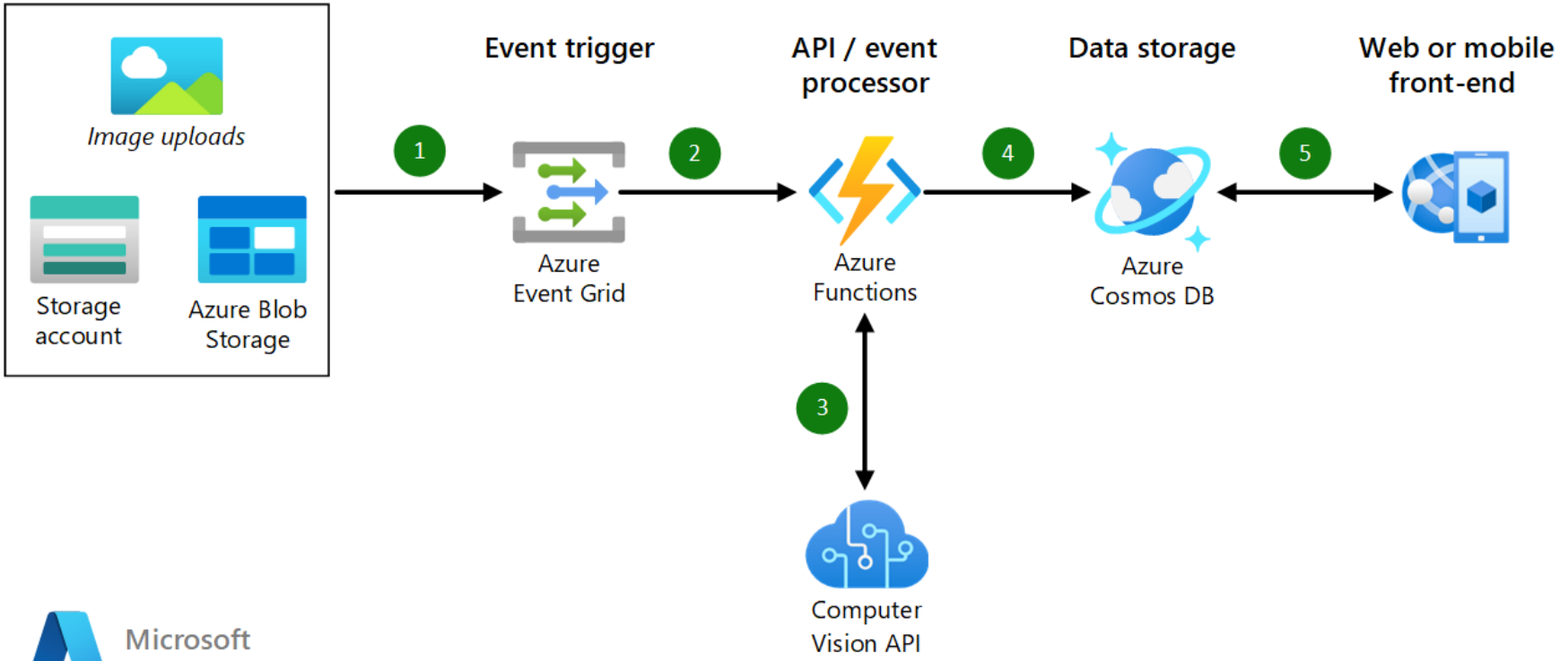
```
[Function("HttpExample")]
public static MultiResponse Run ([HttpTrigger(AuthorizationLevel.Function, "get", "post")]
HttpRequestData req,
    FunctionContext executionContext)
{
        // code
}
```

https://learn.microsoft.com/en-us/azure/azure-functions/functions-triggers-bindings

Azure Functions Bindings

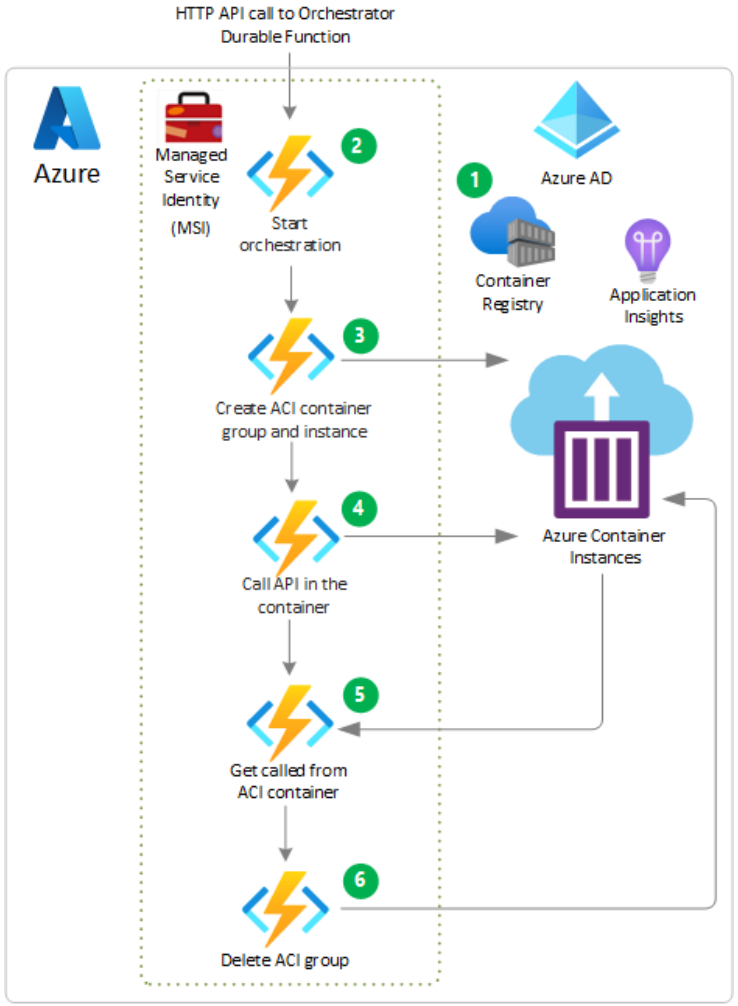
```
public class MultiResponse
{
        [QueueOutput("outqueue", Connection = "AzureWebJobsStorage")]
        public string[] Messages { get; set; }
        public HttpResponseData HttpResponse { get; set; }
 }
```

https://learn.microsoft.com/en-us/azure/azure-functions/functions-triggers-bindings



Microsoft Azure

https://learn.microsoft.com/en-us/azure/architecture/ai-ml/idea/intelligent-apps-image-processing


HTTP API call to Orchestrator Durable Function
Azure
Managed Service Identity (MSI)
2
Start orchestration
1
Azure AD
Container Registry
Application Insights
3
Create ACI container group and instance
4
Call API in the container
Azure Container Instances
5
Get called from ACI container
6
Delete ACI group

Develop for Azure Storage (15–20%)

Develop for Azure Storage

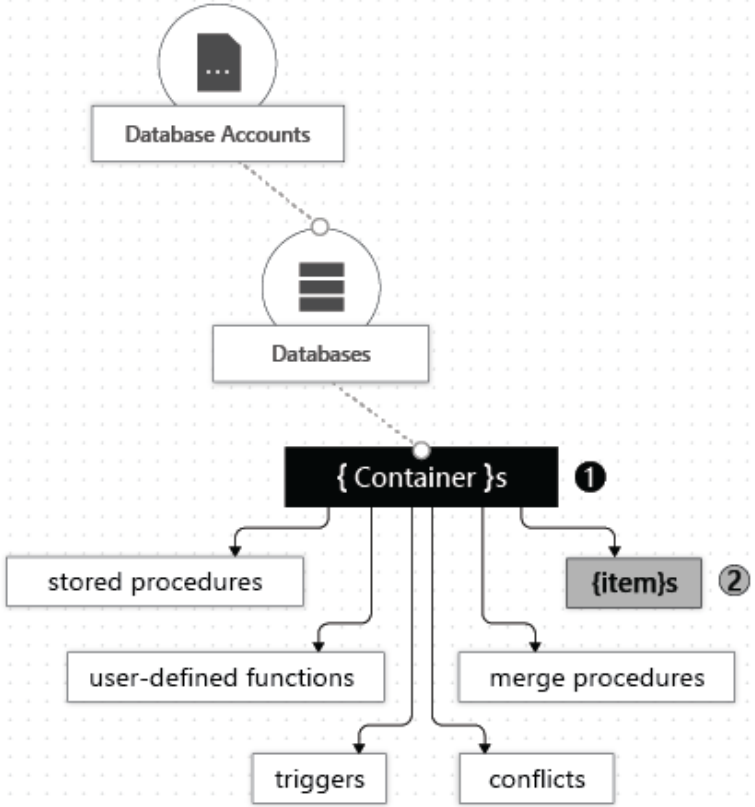
- Develop solutions that use Azure Cosmos DB
- Develop solutions that use Azure Blob Storage

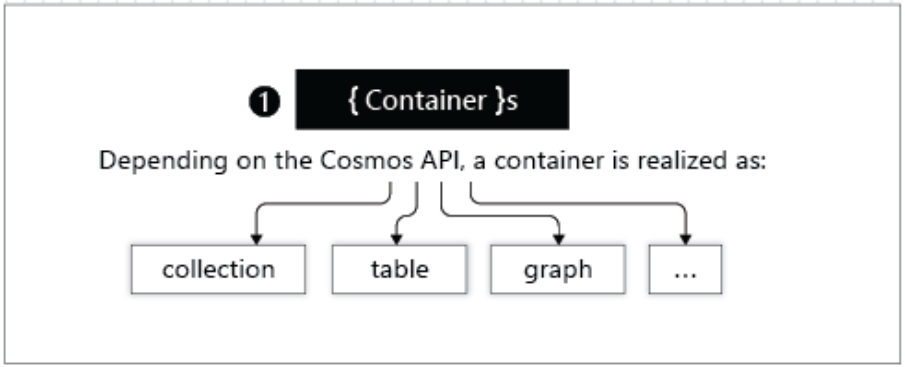
Develop Solutions That Use Azure Cosmos DB

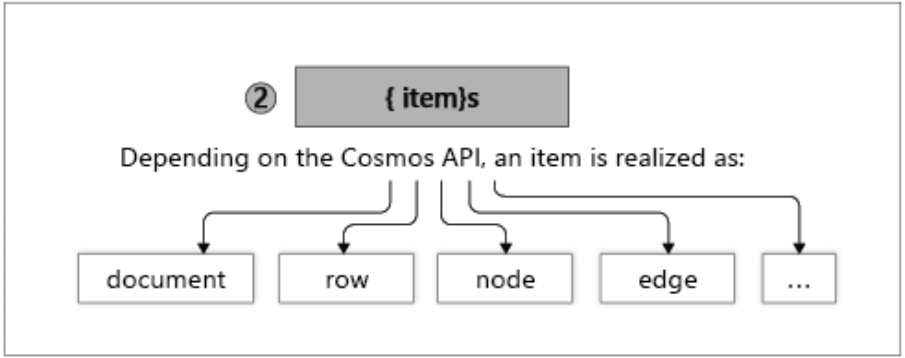
- Perform operations on containers and items by using the SDK [see 1 2]
- Set the appropriate consistency level for operations [see 1]
- Manage change feed notifications [see 1, 2]

Poll 3: You are developing an application that interacts with an Azure Cosmos DB container using the .NET SDK. Which method should you use to insert or update an item in the container?

- ReplaceItemAsync
- UpsertItemAsync
- CreateItemAsync
- PatchItemAsync







https://learn.microsoft.com/en-us/azure/cosmos-db/resource-model

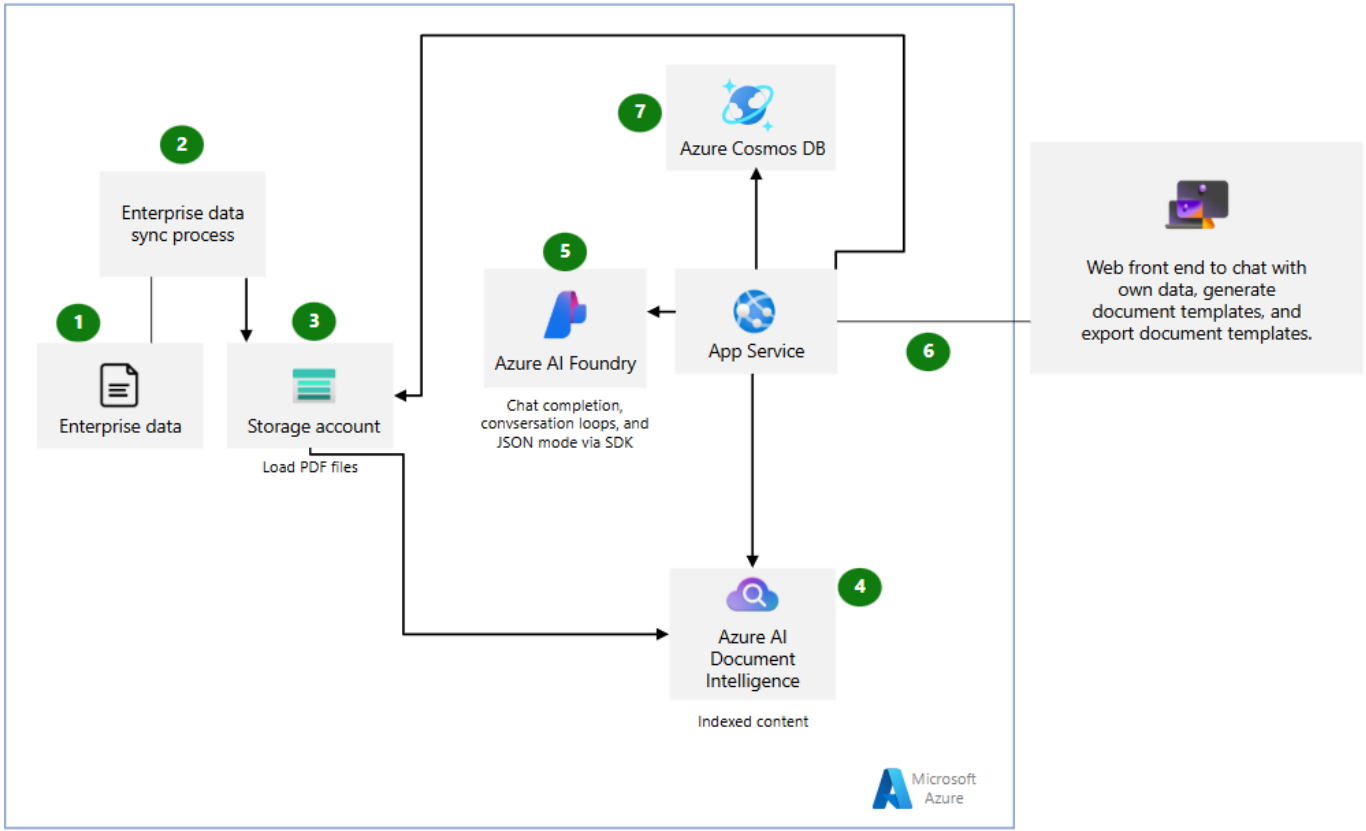
System-defined property	System generated or user defined	Purpose	API for NoSQL	API for Cassandra	DB API for MongoDB	API for Gremlin	API for Table
`_rid`	System generated	Unique identifier of the item	Yes	No	No	No	No
`_etag`	System generated	Entity tag used for optimistic concurrency control	Yes	No	No	No	No
`_ts`	System generated	Time stamp of the last update of the item	Yes	No	No	No	No
`_self`	System generated	Addressable URI of the item	Yes	No	No	No	No
`id`	Either	User-defined unique name in a logical partition	Yes	Yes	Yes	Yes	Yes
Arbitrary user-defined properties	User defined	User-defined properties in API-native representation (including JSON, BSON, and CQL)	Yes	Yes	Yes	Yes	Yes

https://learn.microsoft.com/en-us/azure/cosmos-db/resource-model

Create a container using .NET SDK

```
// Create a container with a partition key and provision 400 RU/s manual throughput.

Database database = await client.CreateDatabaseIfNotExistsAsync(databaseId);

ContainerProperties containerProperties = new ContainerProperties()
{
    Id = containerId,
    PartitionKeyPath = "/myPartitionKey"
};

var throughput = ThroughputProperties.CreateManualThroughput(400);

Container container = await database.CreateContainerIfNotExistsAsync(containerProperties,
throughput);
```

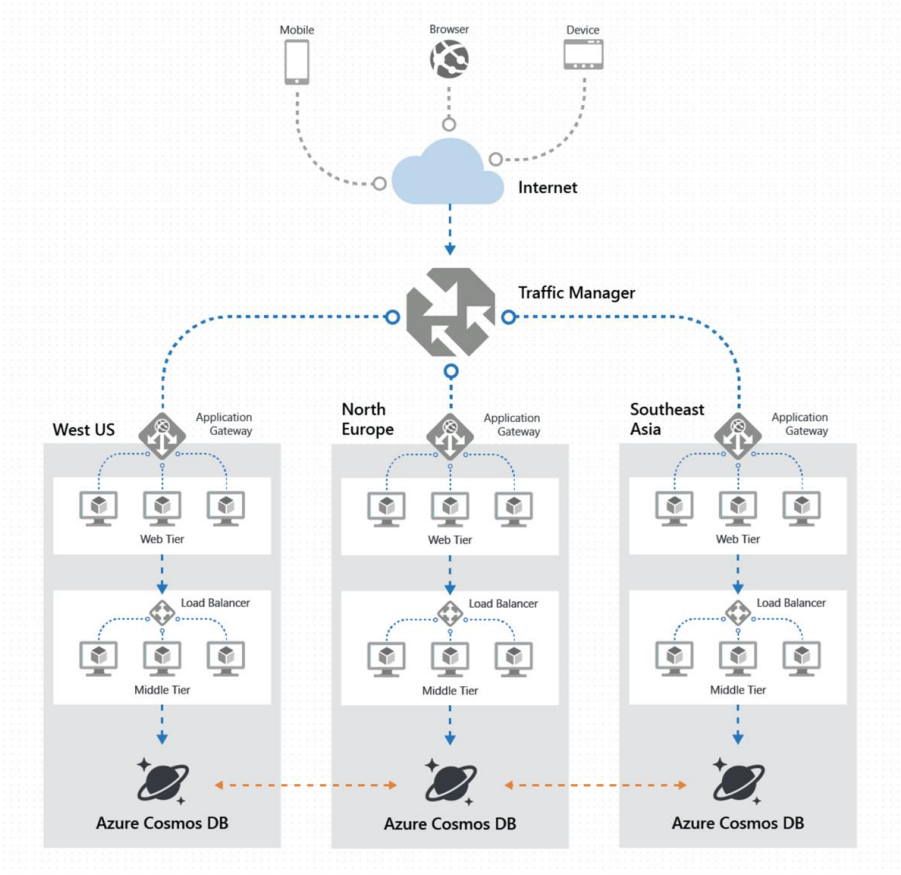
https://learn.microsoft.com/en-us/azure/cosmos-db/nosql/how-to-create-container



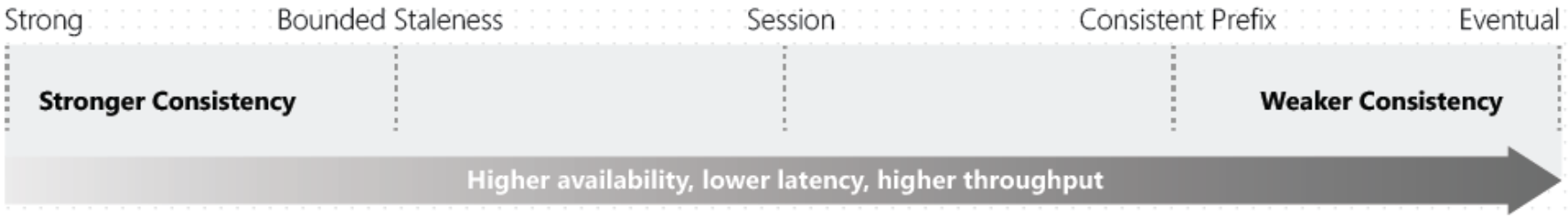
Microsoft Azure

https://learn.microsoft.com/en-us/azure/architecture/ai-ml/idea/generate-documents-from-your-data

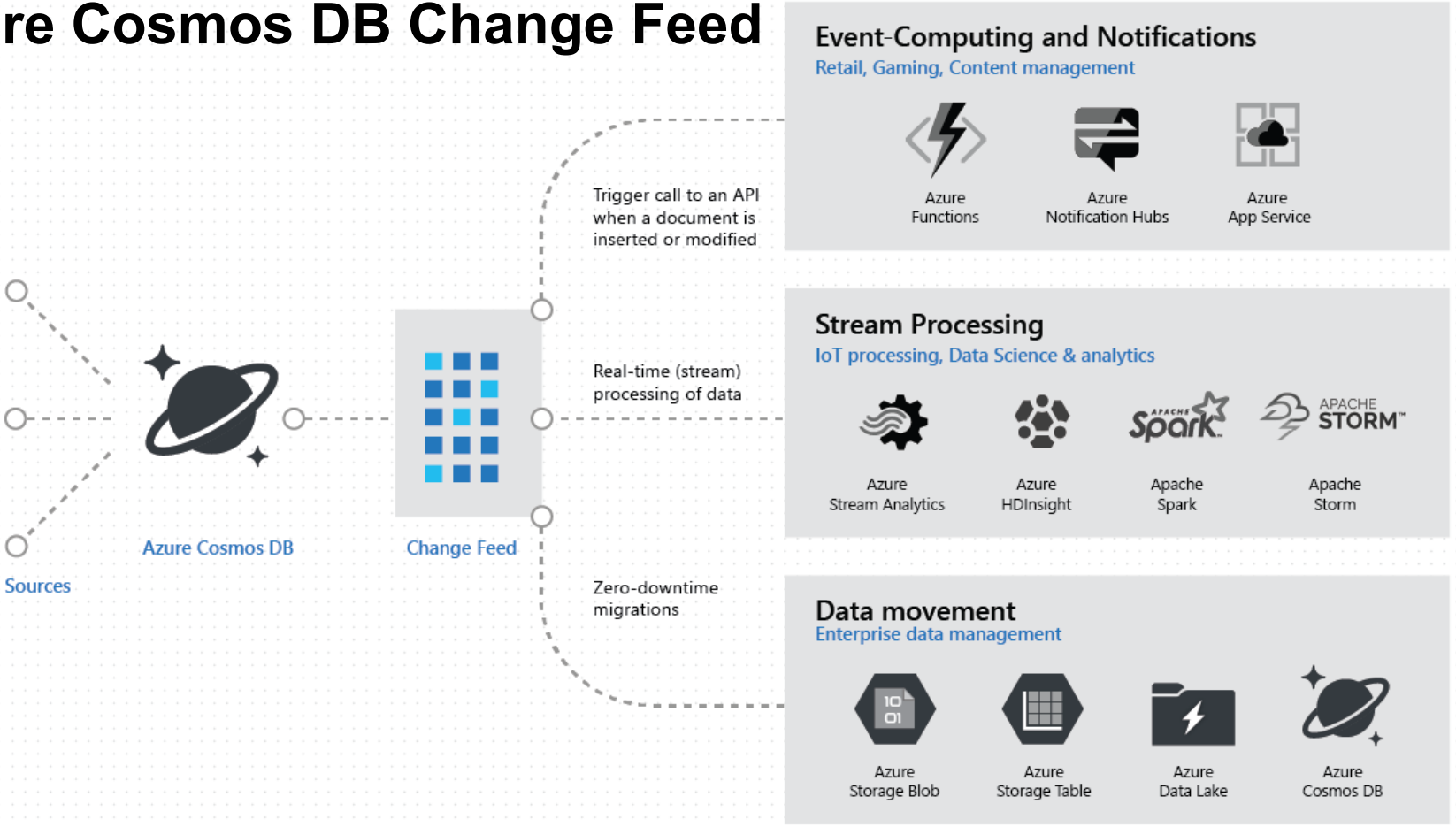
Azure Cosmos DB Multi-region Writes



Consistency Levels in Azure Cosmos DB



Azure Cosmos DB Change Feed



Develop Solutions That Use Azure Blob Storage

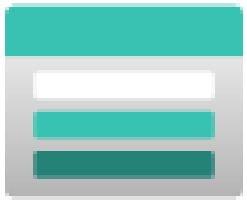
- Set and retrieve properties and metadata [see 1]
- Perform operations on data by using the appropriate SDK [see 1 2]
- Implement storage policies, and data lifecycle management [see 1 2 3 4]

Poll 4: You are developing an application that interacts with an Azure Cosmos DB container using the .NET SDK. Which method should you use to insert or update an item in the container?

- Azure Policy
- Lifecycle Management
- Soft Delete
- Immutable Storage

Azure Storage Account

Contains all Azure Storage data objects, including blobs, file shares, queues, and tables.



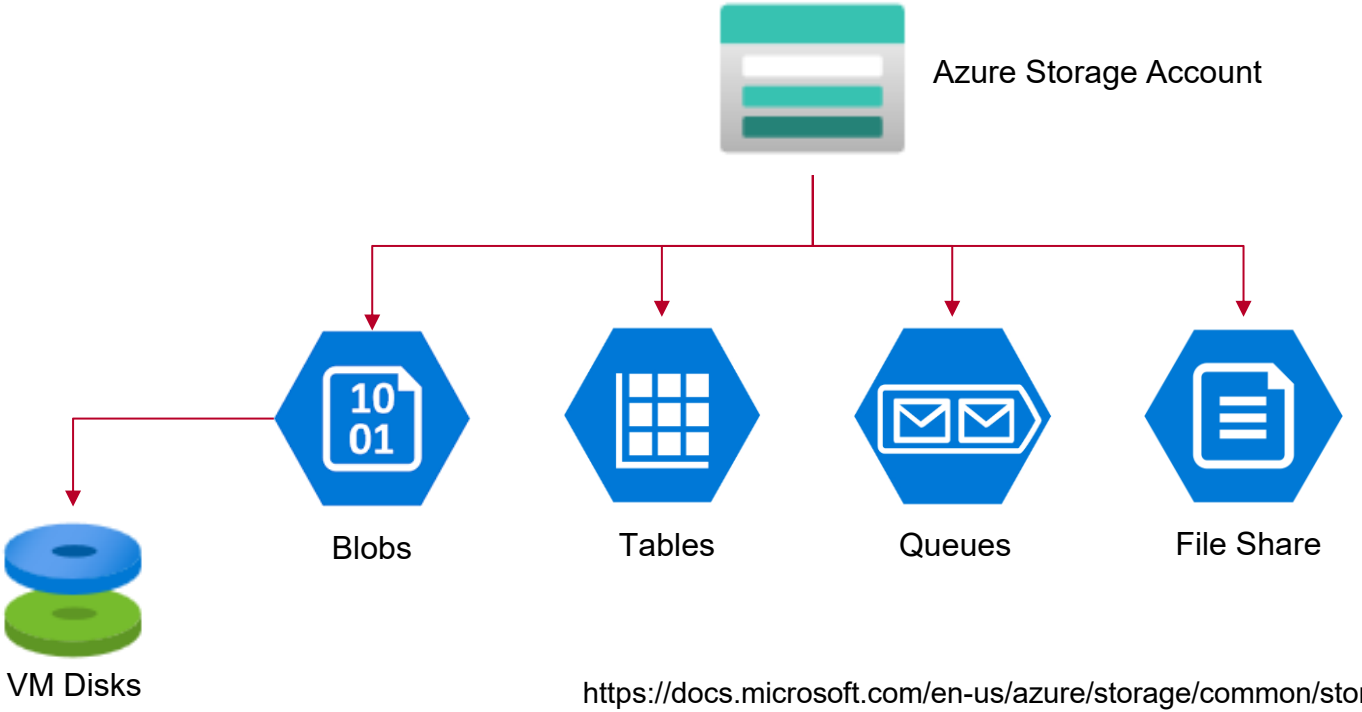
https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview

Azure Storage Account

- Accessible from around the globe over HTTP(S)
- Store blobs, tables, queues, and file shares
- Access via public and private endpoints
- Financially-backed SLA
- Security-in-depth (firewall, in transit, at rest)

https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview

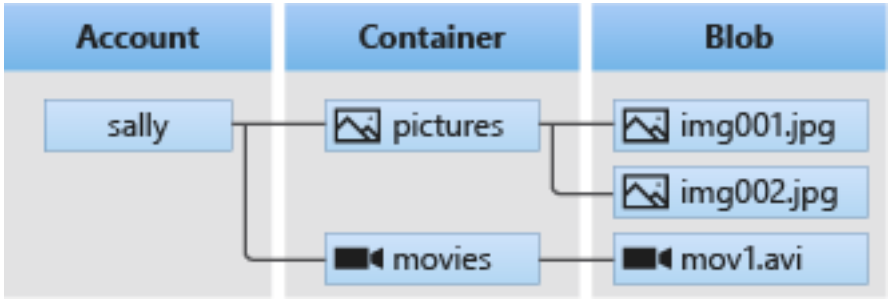
Azure Storage Services



https://docs.microsoft.com/en-us/azure/storage/common/storage-introduction

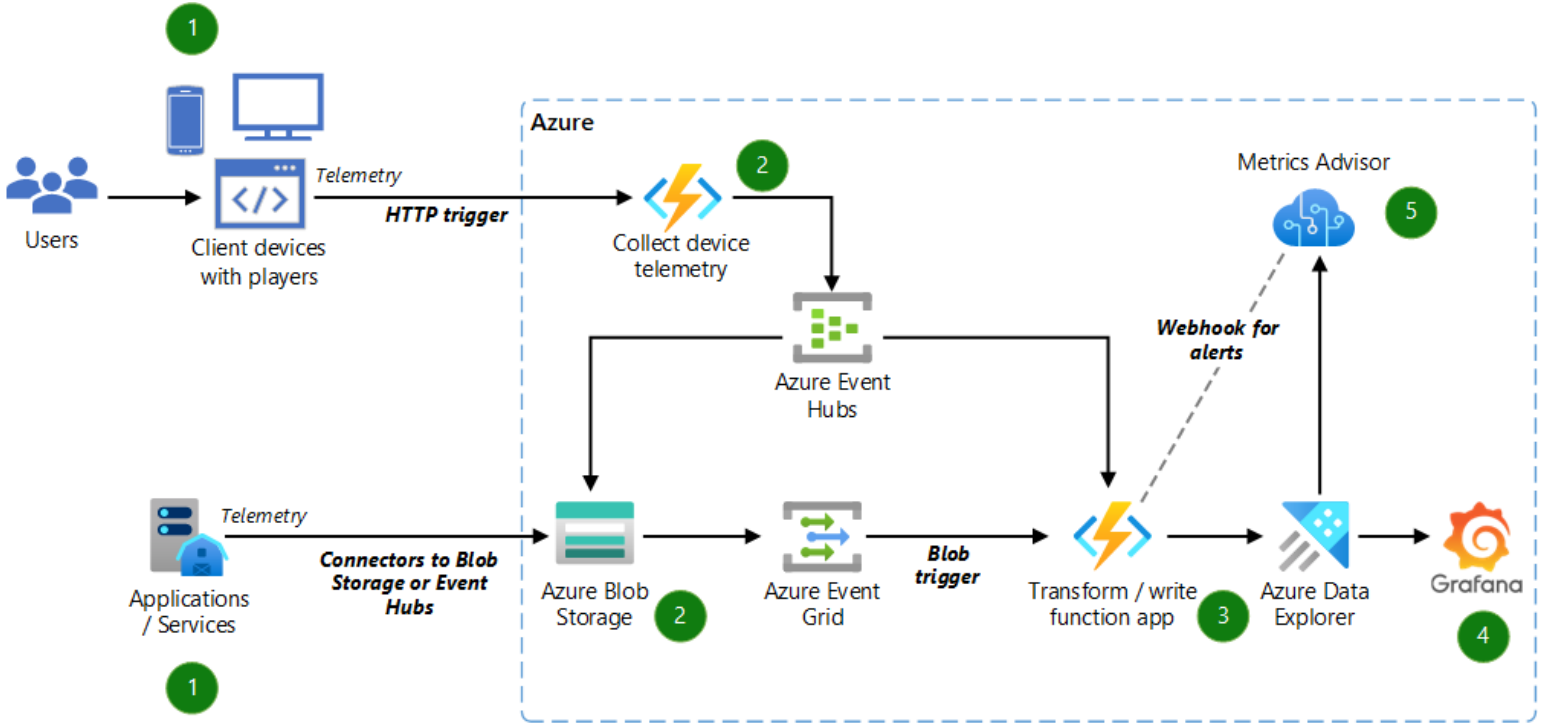
Azure Storage Account: Blobs

A scalable object store for text/binary files (unstructured data). Also includes support for big data analytics through Data Lake Storage Gen2



https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blobs-introduction

Azure Storage Account: Blobs



Microsoft Azure

Implement Azure Security (15–20%)

Implement Azure Security

- Implement user authentication and authorization
- Implement secure cloud solutions

Implement User Authentication and Authorization

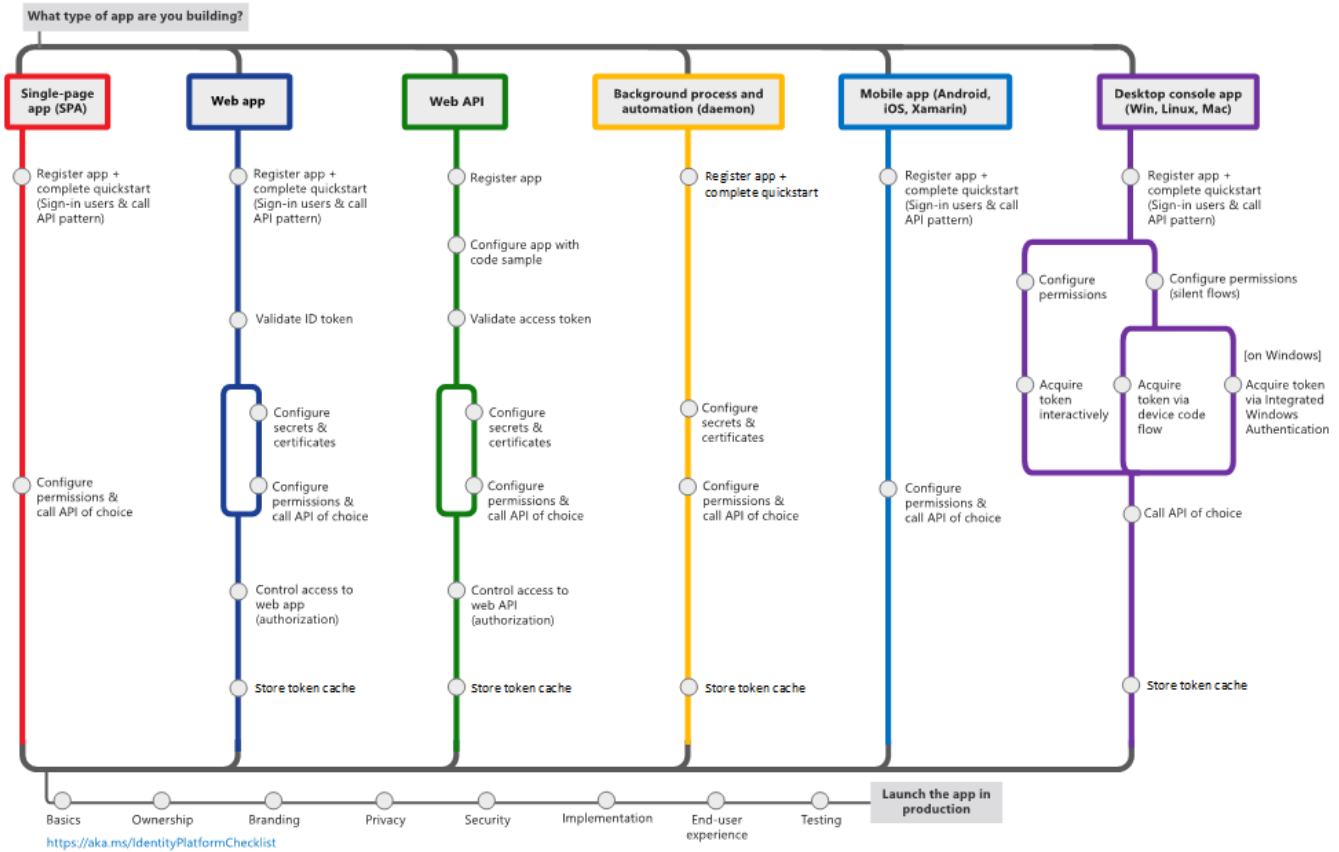
- Authenticate and authorize users by using the Microsoft Identity Platform [see 1 2 3 4 5 6]
- Authenticate and authorize users and apps by using Microsoft Entra ID [see 1 2]
- Create and implement shared access signatures [see 1 2]
- Implement solutions that interact with Microsoft Graph [see 1 2 3 4 5]

Poll: You need to retrieve a list of users from Microsoft Entra ID using Microsoft Graph API in a .NET application. Which HTTP method and endpoint should you use?

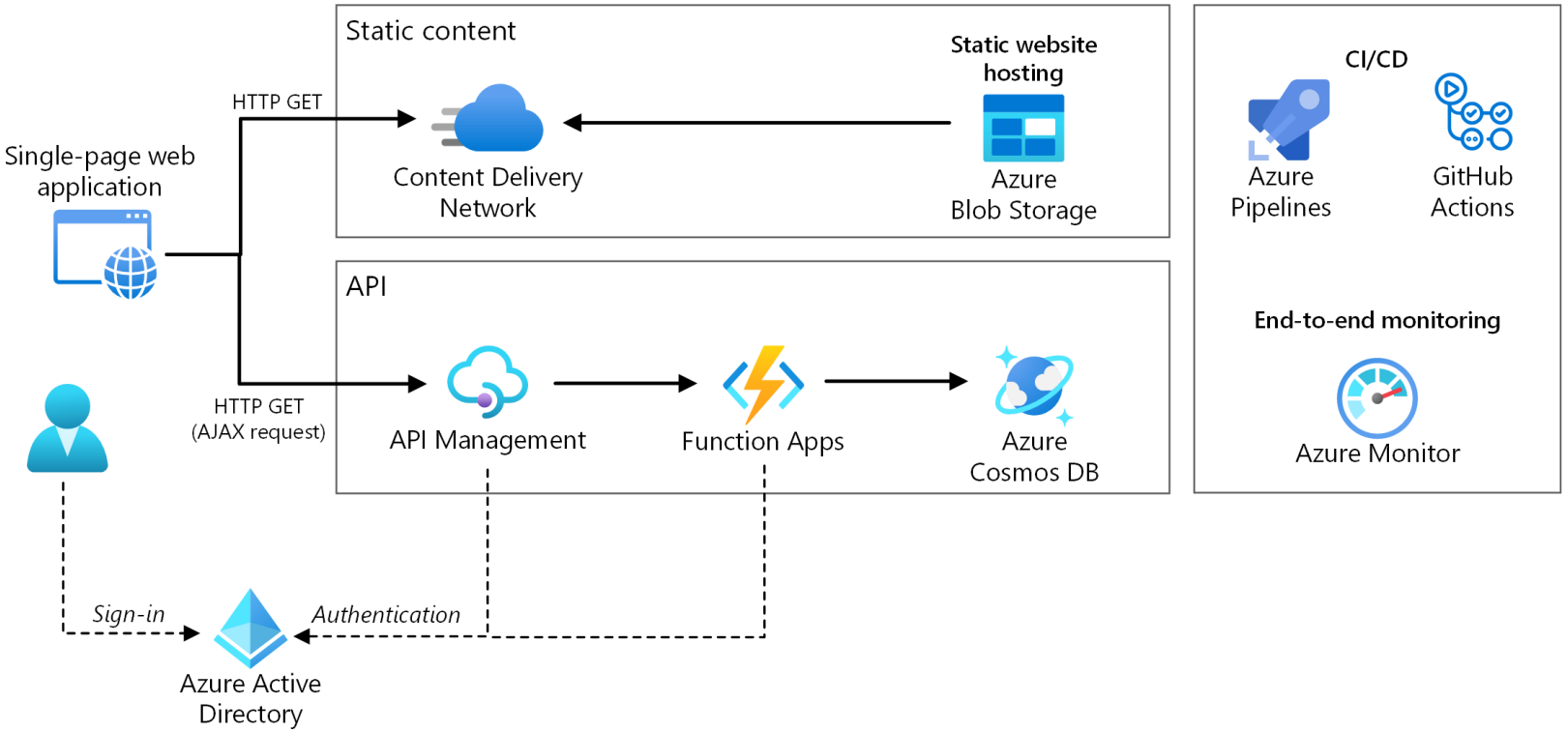
- POST /users
- GET /users
- PUT /users
- DELETE /users

Microsoft identity platform

http://aka.ms/IdentityPlatform



Microsoft



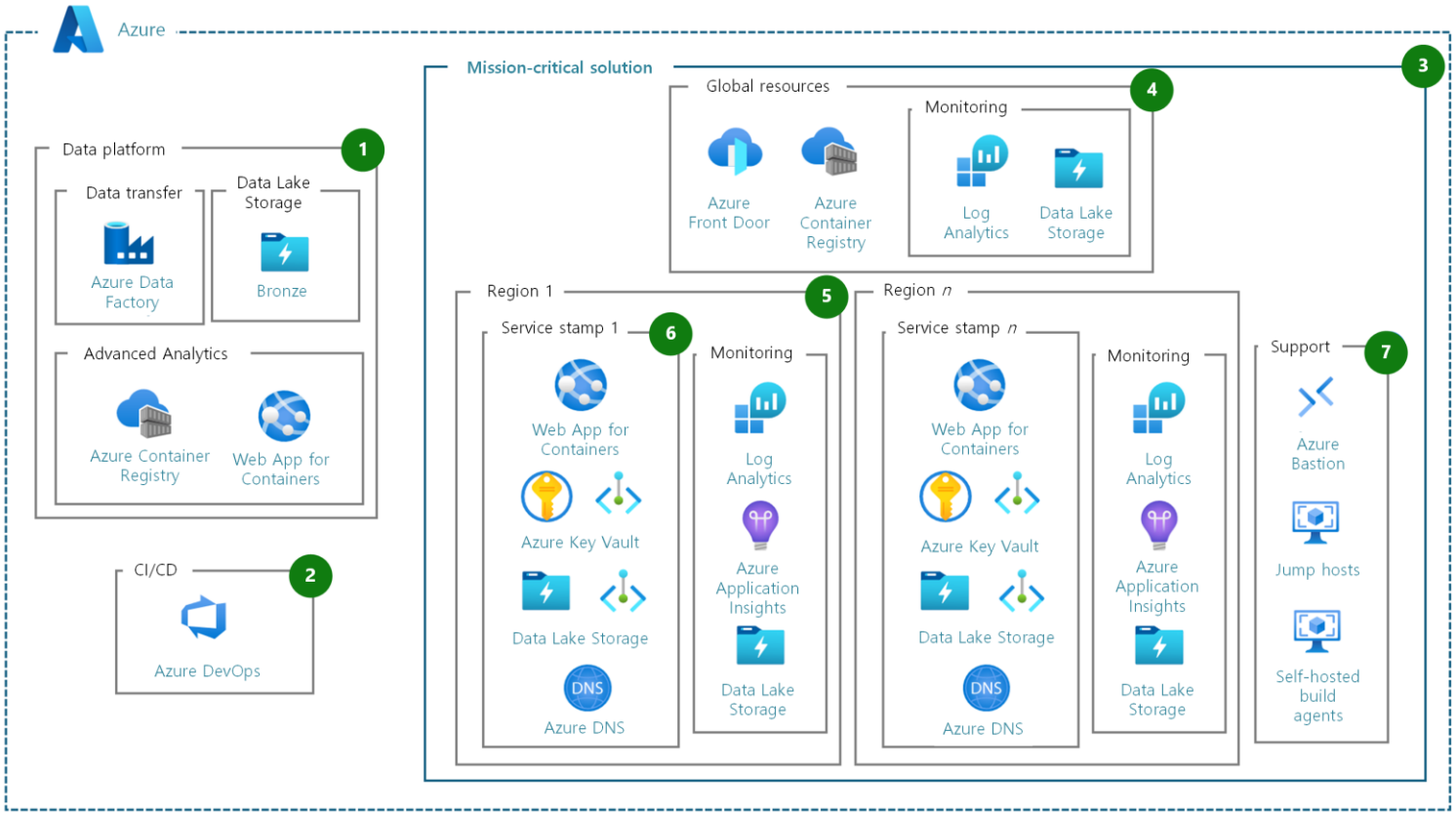
Microsoft Azure

Implement Secure Cloud Solutions

- Secure app configuration data by using App Configuration or Azure Key Vault [see 1 2 3]
- Develop code that uses keys, secrets, and certificates stored in Azure Key Vault [see 1 2 3]
- Implement Managed Identities for Azure resources [see 1 2]

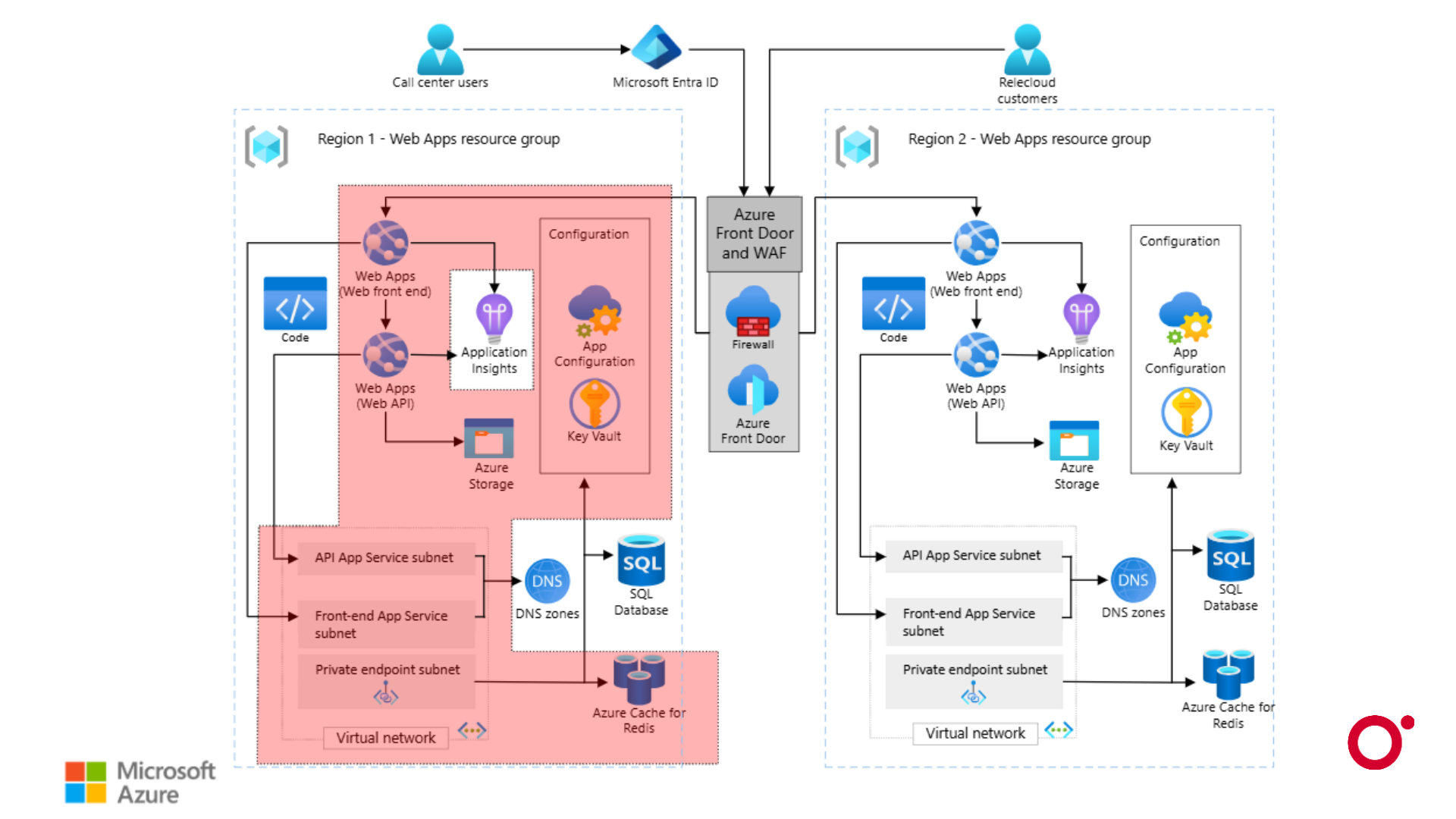
Poll 6: You are developing an application that retrieves a secret from Azure Key Vault using the Azure SDK for .NET. Which method should you use?

- GetSecretAsync()
- RetrieveSecretAsync()
- FetchSecretAsync()
- ReadSecretAsync()



Microsoft Azure

https://learn.microsoft.com/en-us/azure/architecture/databases/architecture/azure-data-factory-mission-critical


Call center users
Microsoft Entra ID
Relecloud customers
Region 1 - Web Apps resource group
Region 2 - Web Apps resource group
Azure Front Door and WAF
Firewall
Azure Front Door
Configuration
Web Apps (Web front end)
Code
Application Insights
App Configuration
Web Apps (Web API)
Key Vault
Azure Storage
API App Service subnet
Front-end App Service subnet
Private endpoint subnet
Virtual network
DNS
DNS zones
SQL
SQL Database
Azure Cache for Redis

Monitor and Troubleshoot Azure Solutions (5–10%)

Monitor and troubleshoot Azure solutions

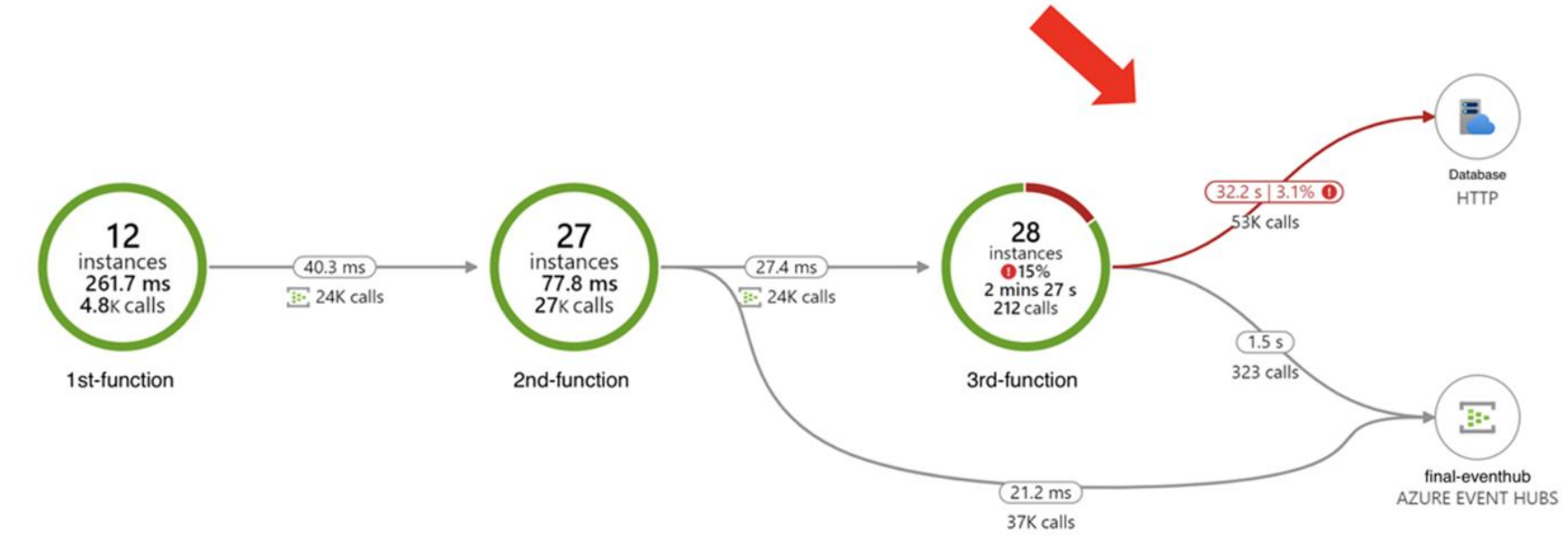
- Monitor and troubleshoot solutions by using Application Insights

Monitor and Troubleshoot Solutions by Using Application Insights

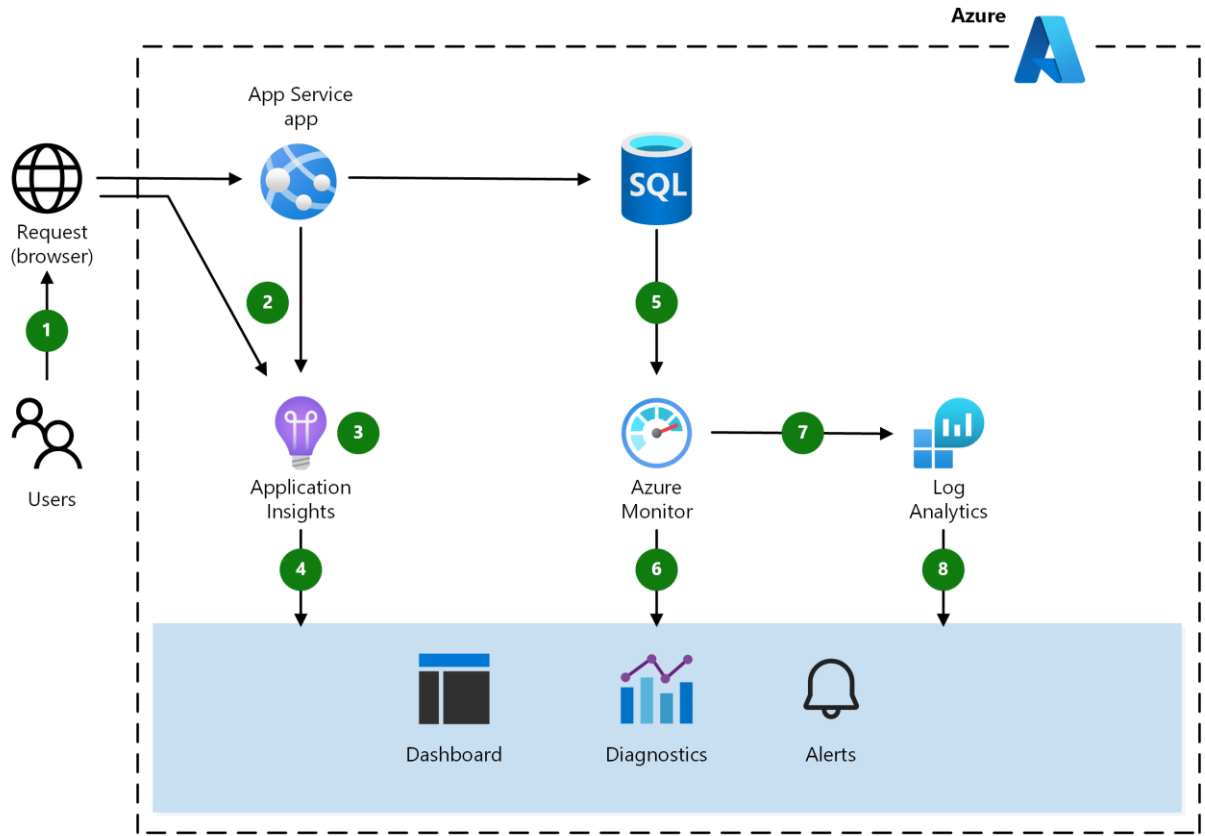
- Monitor and analyze metrics, logs, and traces [see 1 2 3 4]
- Implement Application Insights web tests and alerts [see 1 2 3]
- Instrument an app or service to use Application Insights [see 1 2]

Poll 7: You need to configure availability tests in Azure Application Insights to monitor the uptime of your web application and receive alerts if it becomes unreachable. Which type of test should you use?

- Log-based alerts
- Performance counters
- URL ping test
- Custom events



https://learn.microsoft.com/en-us/azure/architecture/serverless/event-hubs-functions/observability



Microsoft Azure

https://learn.microsoft.com/en-us/azure/azure-monitor/app/app-insights-overview

Connect to and Consume Azure Services and Third-party Services (20–25%)

Connect to and Consume Azure Services and Third-party Services

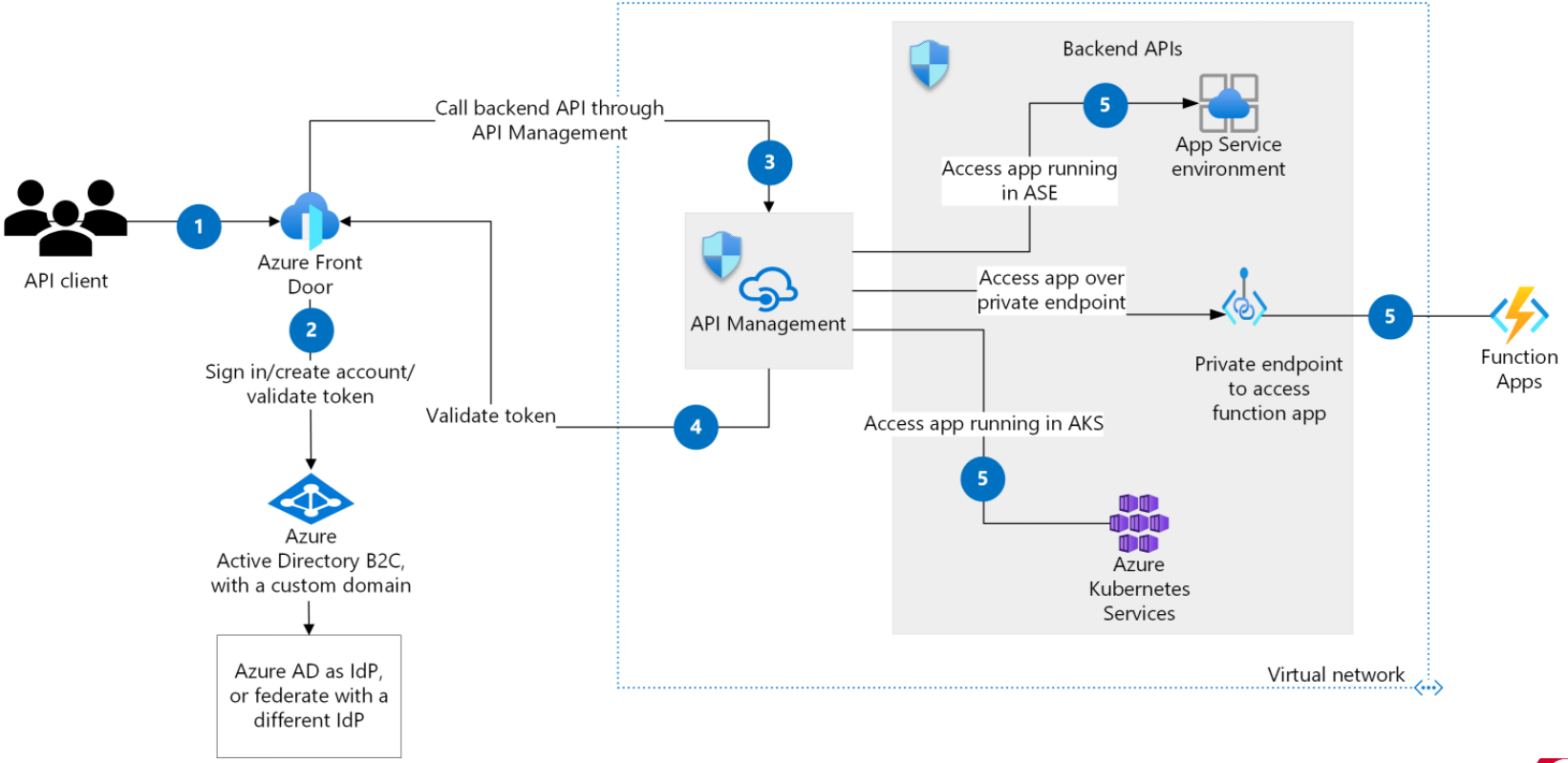
- Implement API Management
- Develop event-based solutions
- Develop message-based solutions

Implement API Management

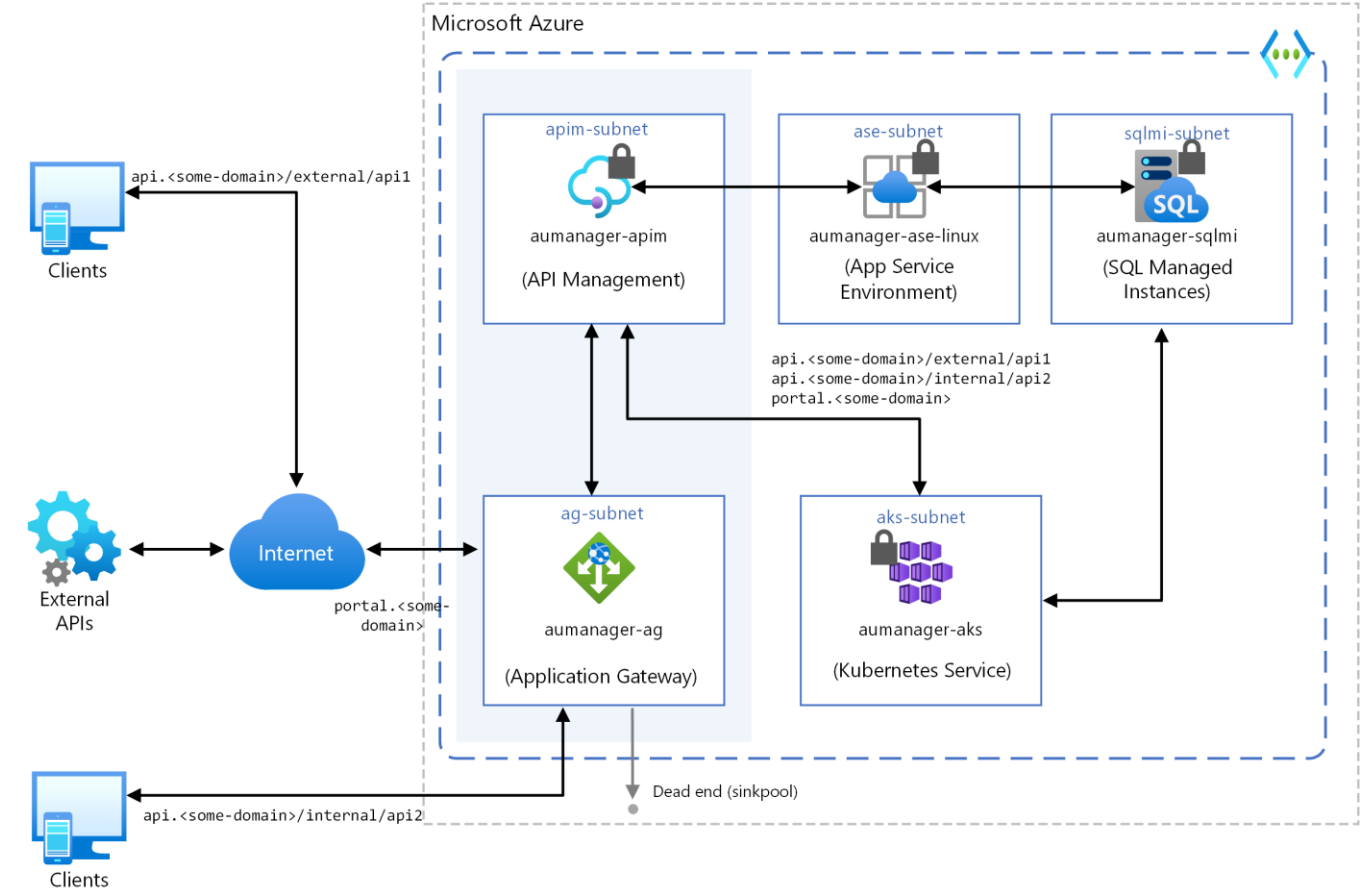
- Create an Azure API Management instance [see 1]
- Create and document APIs [see 1]
- Configure access to APIs [see 1]
- Implement policies for APIs [see 1 2]

Poll 8: You need to restrict access to an Azure API Management (APIM) API so that only authenticated clients with a valid OAuth 2.0 token can call it. What should you configure?

- Subscription Keys
- IP Restrictions
- OAuth 2.0 Authorization with an Identity Provider
- CORS Policy



https://learn.microsoft.com/en-us/azure/api-management/api-management-key-concepts



Microsoft Azure

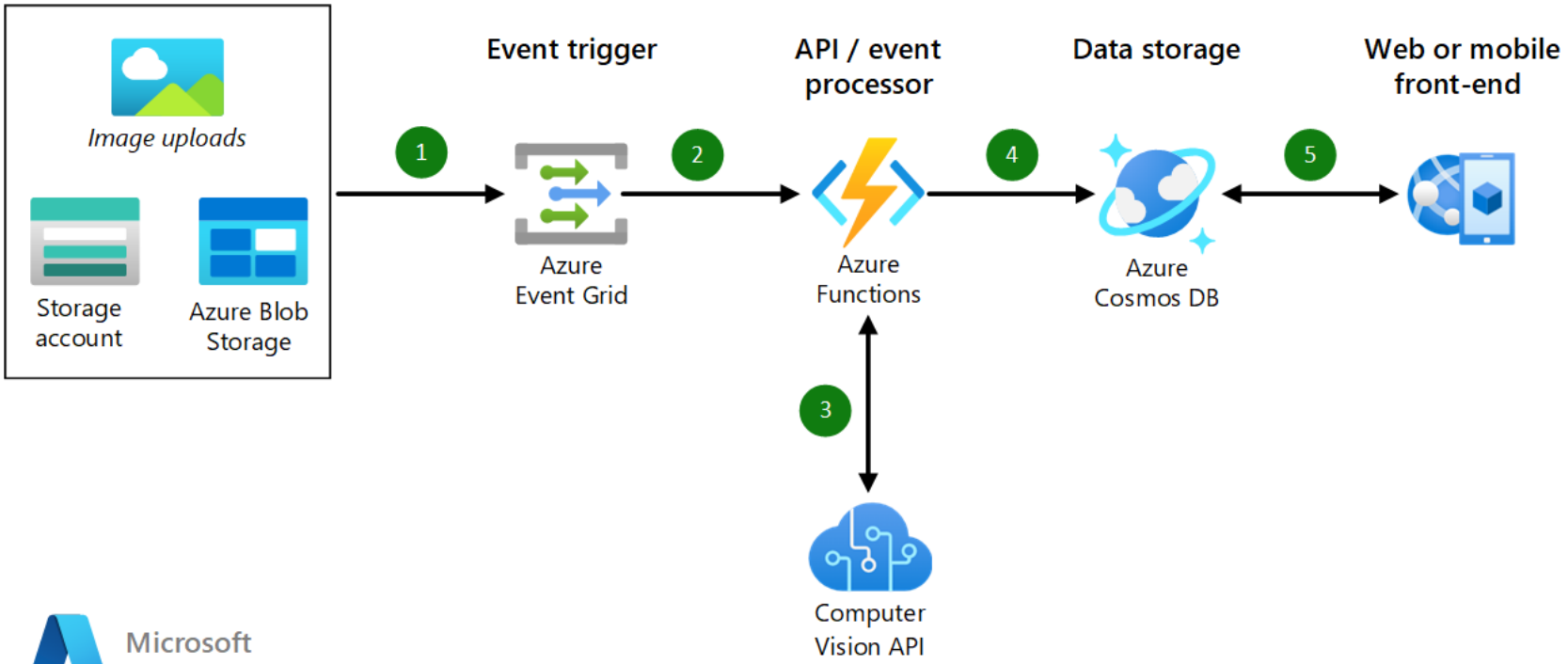
https://learn.microsoft.com/en-us/azure/architecture/web-apps/api-management/architectures/protect-apis

Develop Event-based Solutions

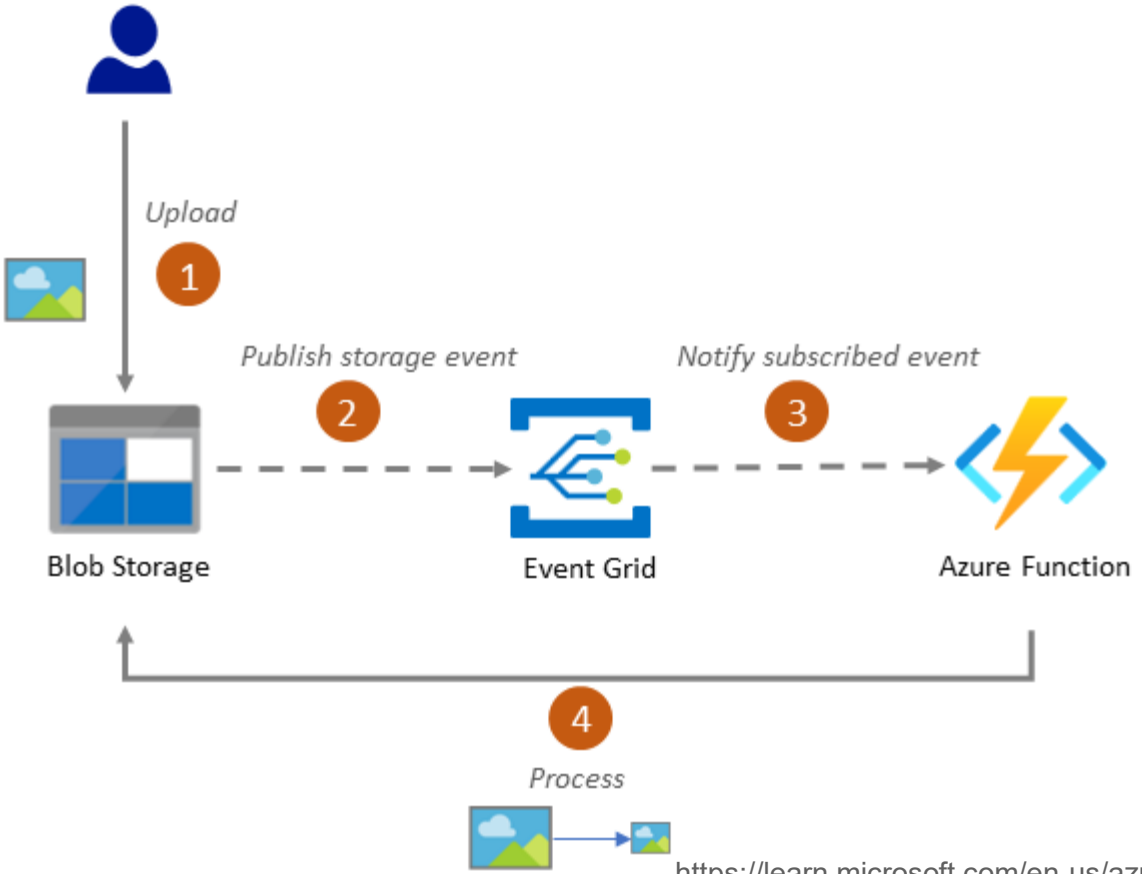
- Implement solutions that use Azure Event Grid [see 1 2]
- Implement solutions that use Azure Event Hubs [see 1 2 3 4]

Poll 9: You are designing an app where multiple services must react to new blob uploads in a Storage Account. Reliable event delivery with minimal management overhead is required. Which service should you use?

- Azure Service Bus
- Azure Event Grid
- Azure Event Hubs
- Azure Notification Hubs



https://learn.microsoft.com/en-us/azure/architecture/example-scenario/monitoring/monitoring-observable-systems-media



https://learn.microsoft.com/en-us/azure/architecture/example-scenario/monitoring/monitoring-observable-systems-media

Microsoft Azure

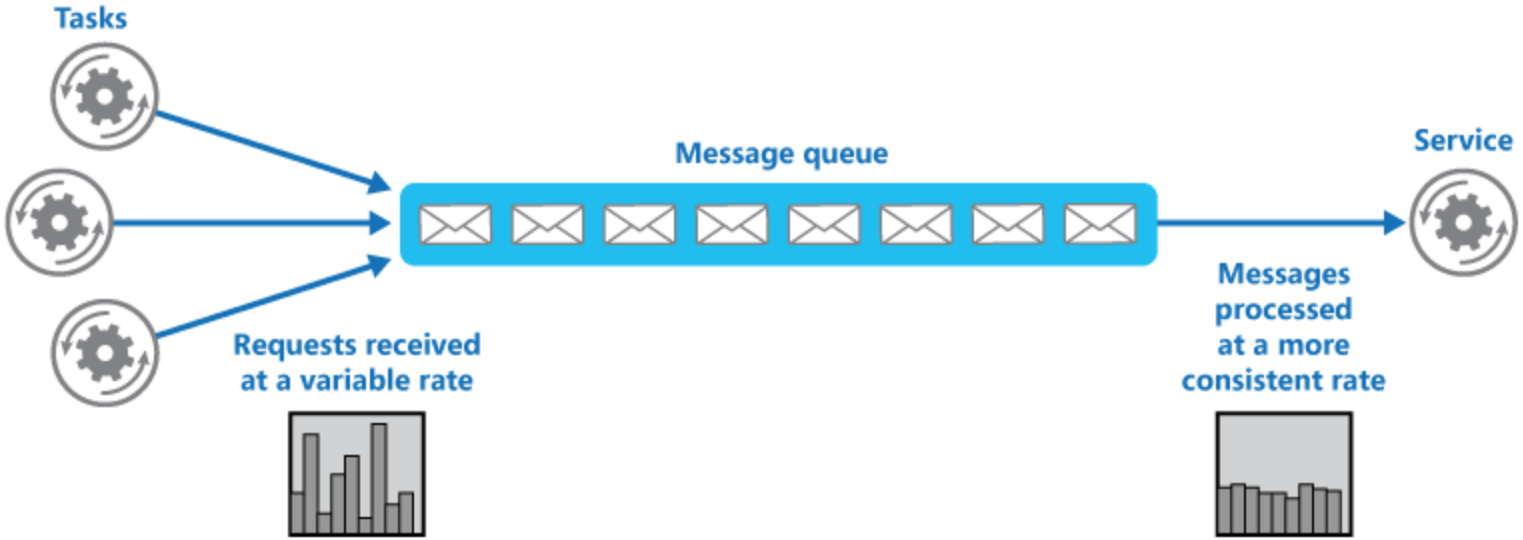
https://learn.microsoft.com/en-us/azure/stream-analytics/stream-analytics-real-time-fraud-detection

Develop message-based solutions

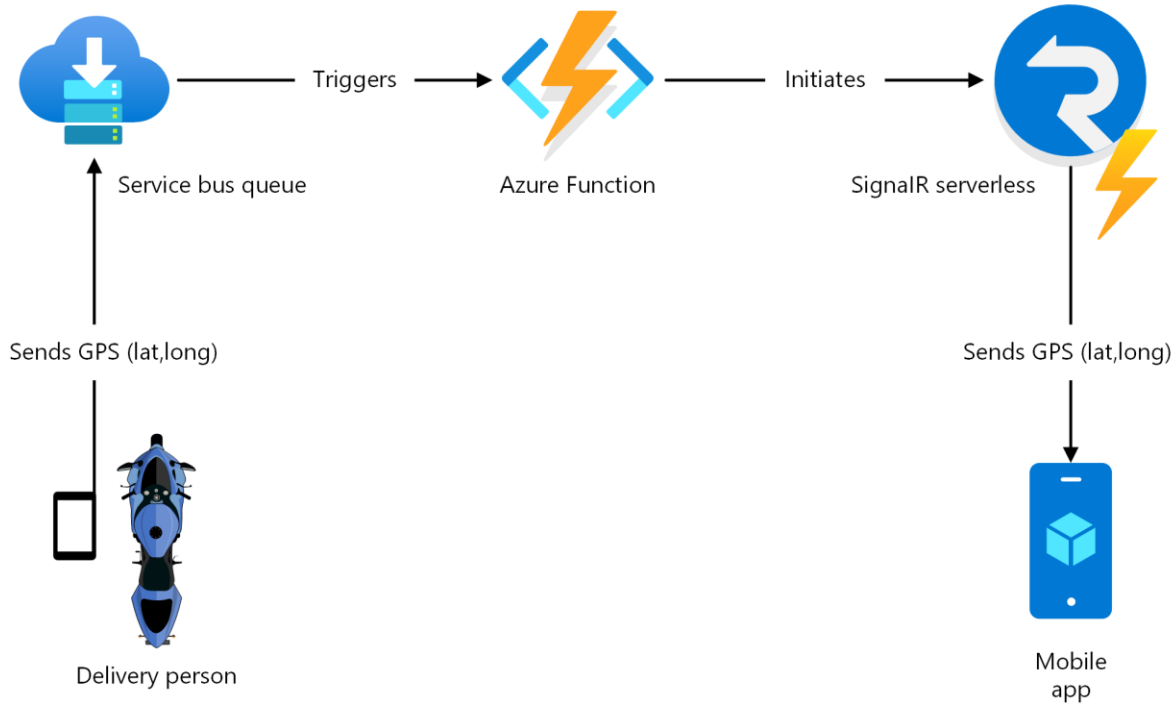
- Implement solutions that use Azure Service Bus [see 1 2 3 4 5]
- Implement solutions that use Azure Queue Storage queues [see 1 2]

Poll 10: You are developing a .NET application to work with Azure Service Bus Queue. Which method sends a message using the Azure.Messaging.ServiceBus SDK?

- SendAsync()
- PublishAsync()
- SendMessageAsync()
- QueueMessageAsync()

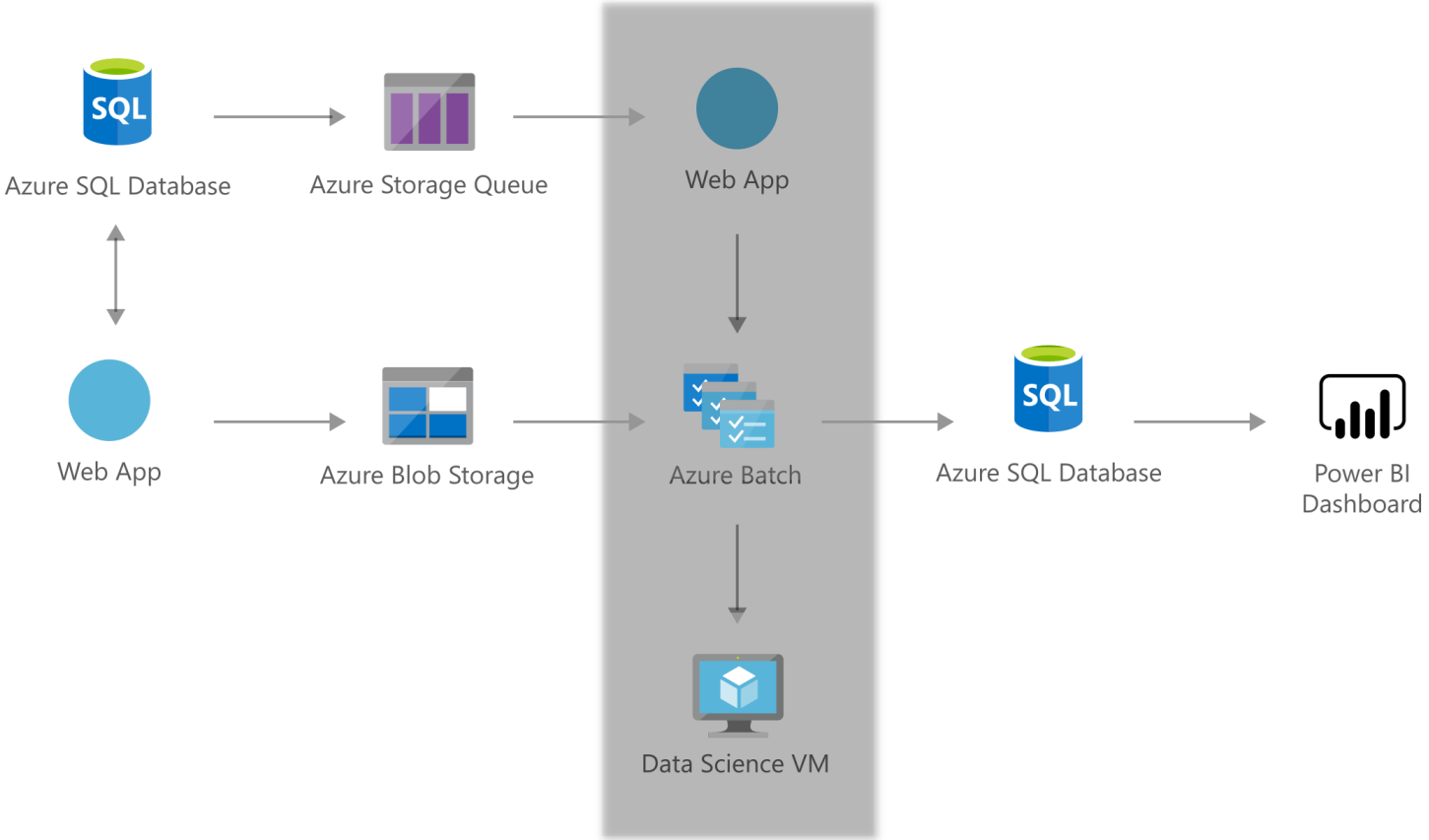


https://learn.microsoft.com/en-us/azure/architecture/patterns/queue-based-load-leveling



Microsoft Azure

https://learn.microsoft.com/en-us/azure/azure-signalr/signalr-overview



https://learn.microsoft.com/en-us/industry/

The Exam

Questions in AZ-204

- 45-55 questions
- Formats (multiple choice, drag and drop, scenario based, and labs)
- See the exam sandbox
- There **will be** hands-on labs

AZ-204

- Exam AZ-204: https://docs.microsoft.com/en-us/learn/certifications/exams/az-204
- Skills measured : https://query.prod.cms.rt.microsoft.com/cms/api/am/binary/RE4oZ7B

Prepare for the exam

COURSE

Developing Solutions for Microsoft Azure

Continue course >

Training in this course

AZ-204: Implement Azure App Service web apps

2 hr 3 min • Learning Path • 4 units

AZ-204: Implement Azure Functions

53 min • Learning Path • 2 units

AZ-204: Develop solutions that use Blob storage

1 hr 19 min • Learning Path • 3 units

AZ-204: Develop solutions that use Azure Cosmos DB

Take the exam

You will have **100 minutes** to complete this assessment.

Exam policy

This exam will be proctored, and is not open book. You may have interactive components to complete as part of this exam. To learn more about exam duration and experience, visit: Exam duration and exam experience.

If you fail a certification exam, don't worry. You can retake it 24 hours after the first attempt. For subsequent retakes, the amount of time varies. For full details, visit: Exam retake policy.

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Learn More

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United States

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Description	Details	Order Information	Price
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Course Repository

https://github.com/zaalion/oreilly-az-204

Microsoft Azure Fundamentals (AZ-900) Certification Course, 2nd Edition

Continue

4h 55m remaining

With your instructor

Reza Salehi

+ Add to playlist

Associated roles

Cloud native engineer | Cloud solutions architect | Cybersecurity engineer | Database administrator

+1 more

Skills covered

AZ-900: Microsoft Azure Fundamentals

AZ-303: Microsoft Azure Architect...

AZ-500: Microsoft Azure Security...

AI-900: Microsoft Azure AI Fundamentals

Includes quizzes

Test your knowledge during the course and with a final quiz.

October 2024

O'Reilly Media, Inc.

Learning Outcomes

- Gain knowledge of Azure cloud concepts and services
- Explore Azure services in greater depth
- Get ready for Exam AZ-900: Microsoft Azure Fundamentals
- Comfortably work with the Azure portal

The Microsoft Azure Fundamentals (AZ-900) exam is one of the most popular certifications for those who are just beginning to work with cloud-based solutions and services or who are new to Azure. The exam certifies knowledge of cloud concepts, Azure services, workloads, security and privacy, and pricing and support.

In this self-paced course, Reza Salehi will help you get familiar with Microsoft Azure's cloud services and begin your Azure certification journey. This course is aligned to the AZ-900 exam objective domains and has recently been updated to reflect the most current version of the exam (2024). It covers all the services and concepts in the Azure ecosystem you need to know in order to prepare for the test.

What you'll learn and how to apply it

By the end of this certification course, you will understand the following:

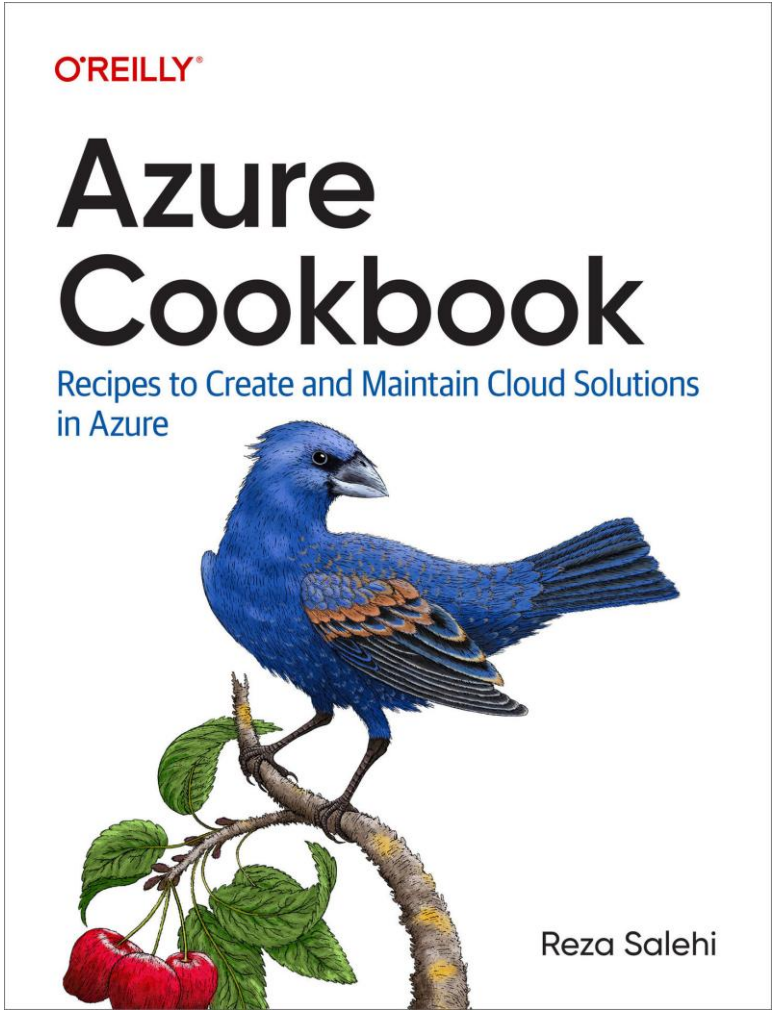
- General cloud concepts
- Core Azure services
- Core solutions and management tools on Azure
- General security and network security features
- Identity, governance, privacy, and compliance features
- Azure cost management and service-level agreements

Azure Cookbook

https://learning.oreilly.com/library/view/azure-cookbook/9781098135782/

https://www.amazon.ca/Azure-Cookbook-Recipes-Maintain-Solutions/dp/1098135792/

https://www.amazon.com/Azure-Cookbook-Recipes-Maintain-Solutions/dp/1098135792



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Thank you!

Reza Salehi

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