

Skills for Jobs

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Azure Administrator

Mimmit Koodaa x Skills for Jobs Learning Circles

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elisa

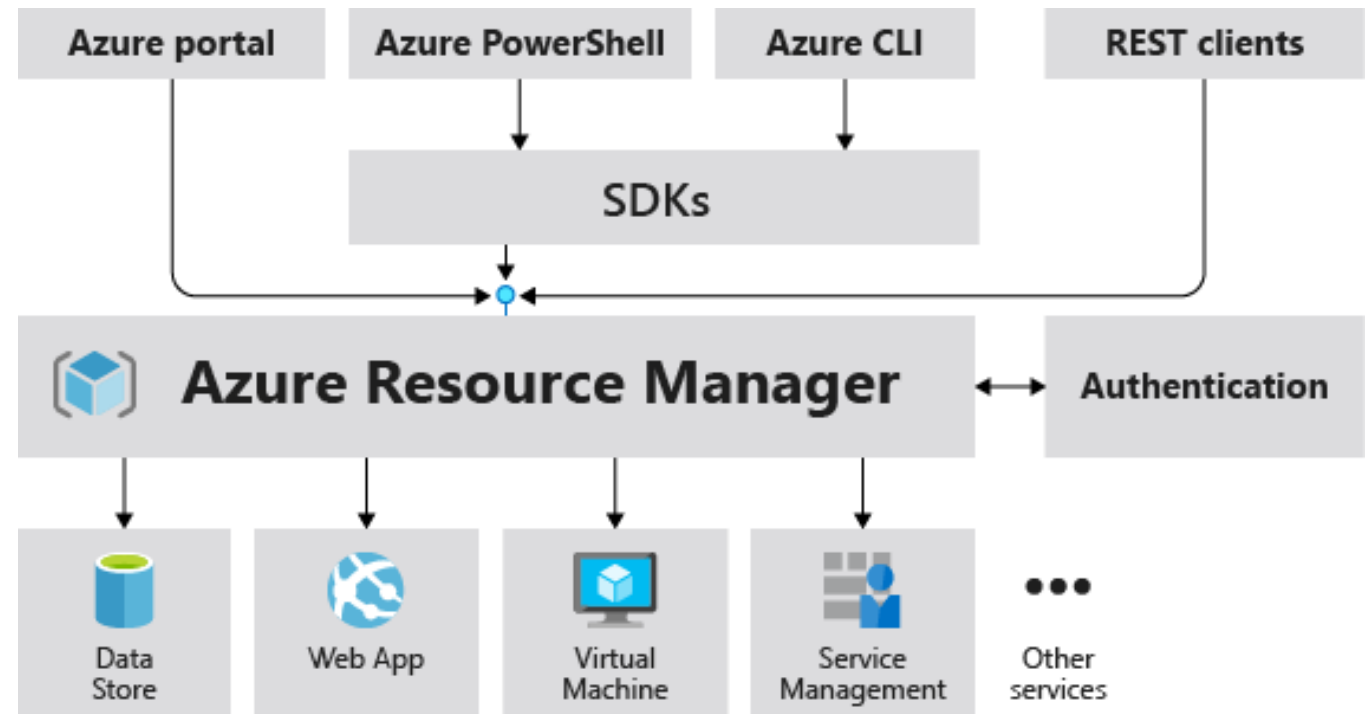


- 🧐 Can't say no for anything new
- 🗣️ Public speaker
- 😋 Gastronomic, craft beer and wine geek
- 🌍 Loves travelling and aviation
- 🚗 Waze map editor

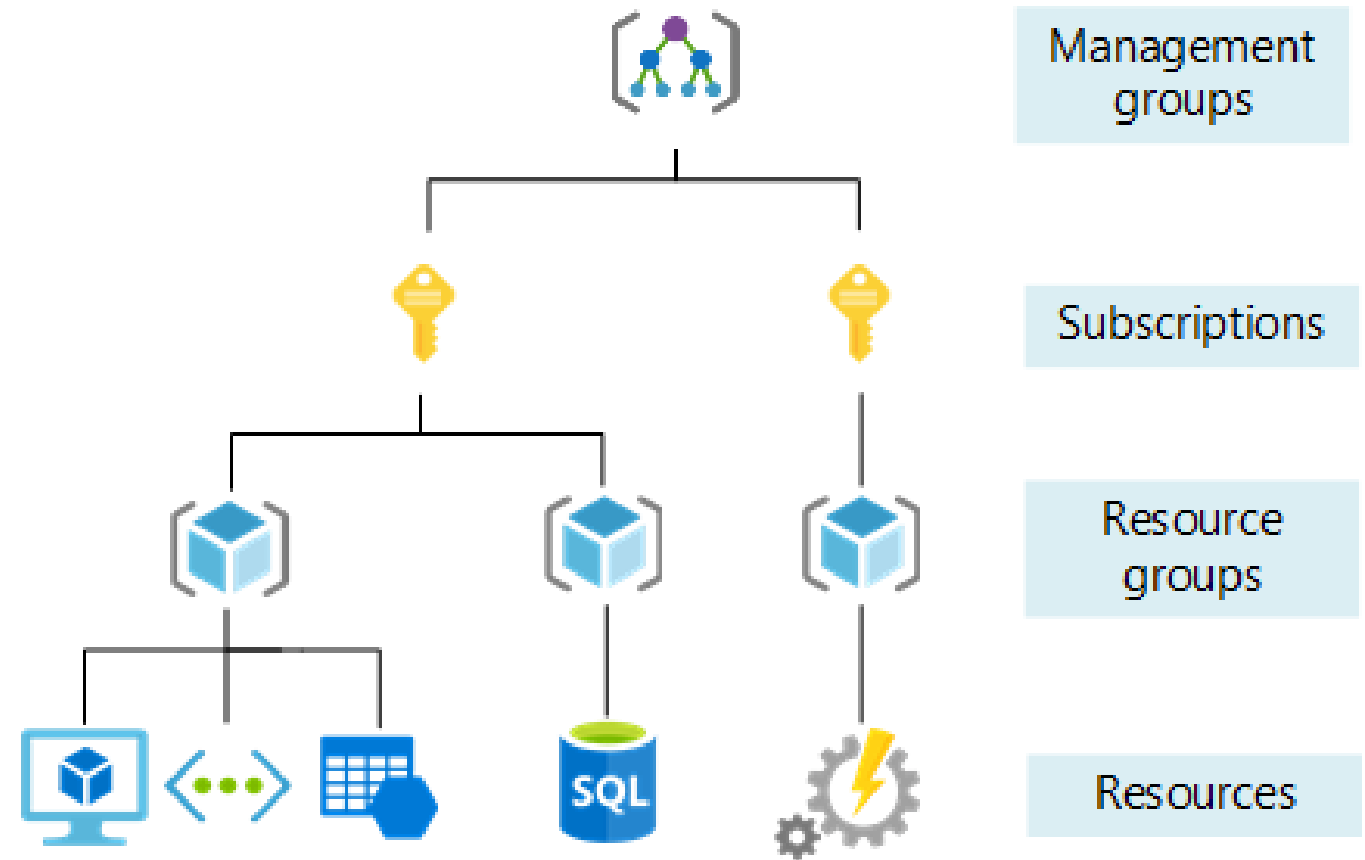
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@mmaraa

Azure Resource Manager

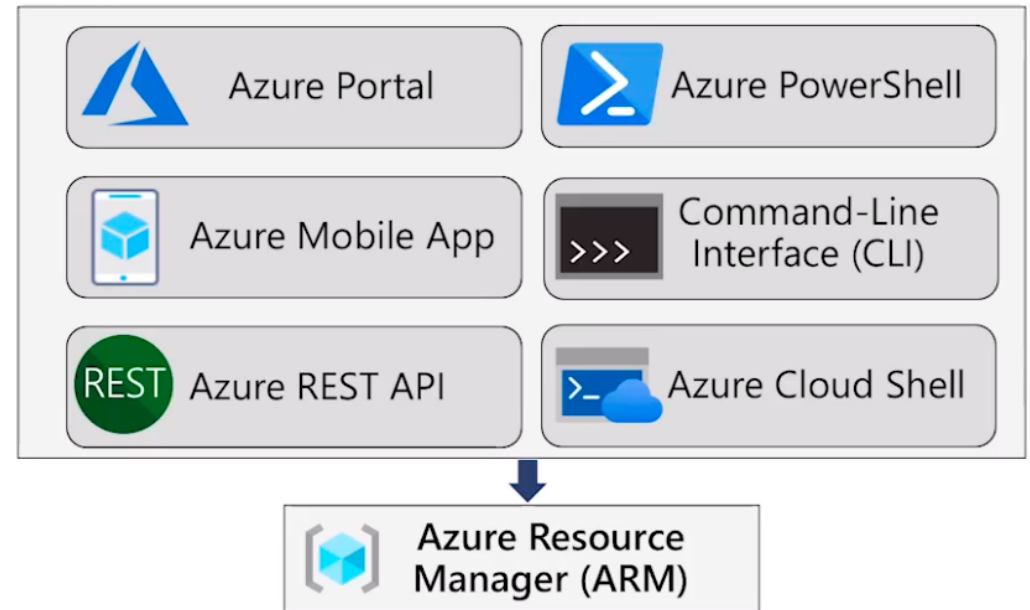


Azure resource hierarchy



Azure Management Tools

Azure management tools



Infrastructure as code

- Bicep 💪
- Terraform
- ARM templates
- SDK's



Identities and Role Management

- EntraID (previously AzureAD) is **not** Azure
- Assign Azure roles (RBAC) to identities from EntraID
- Identity can be user, group, service principal, or managed identity
- **Remember:** Least privileged access



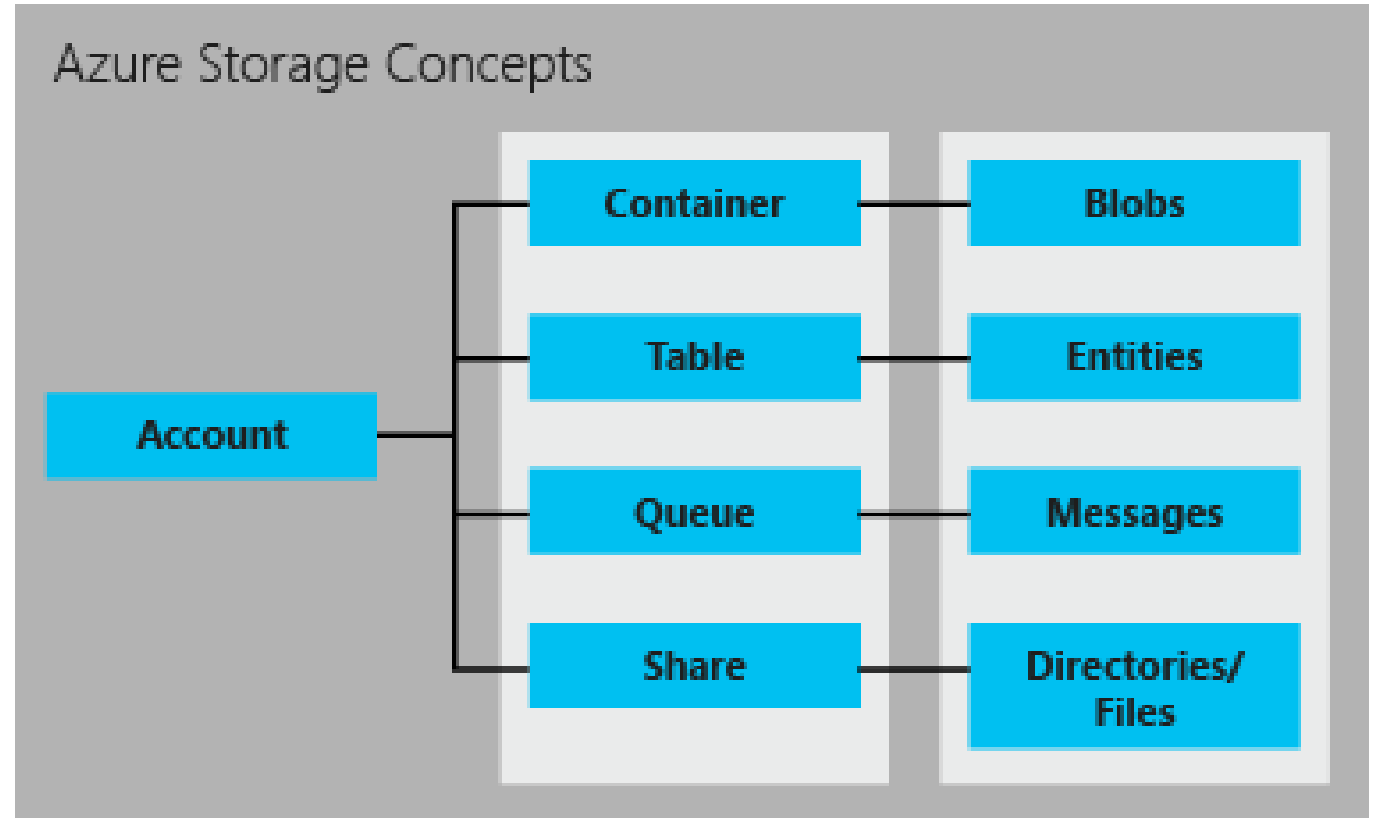
Managed identity

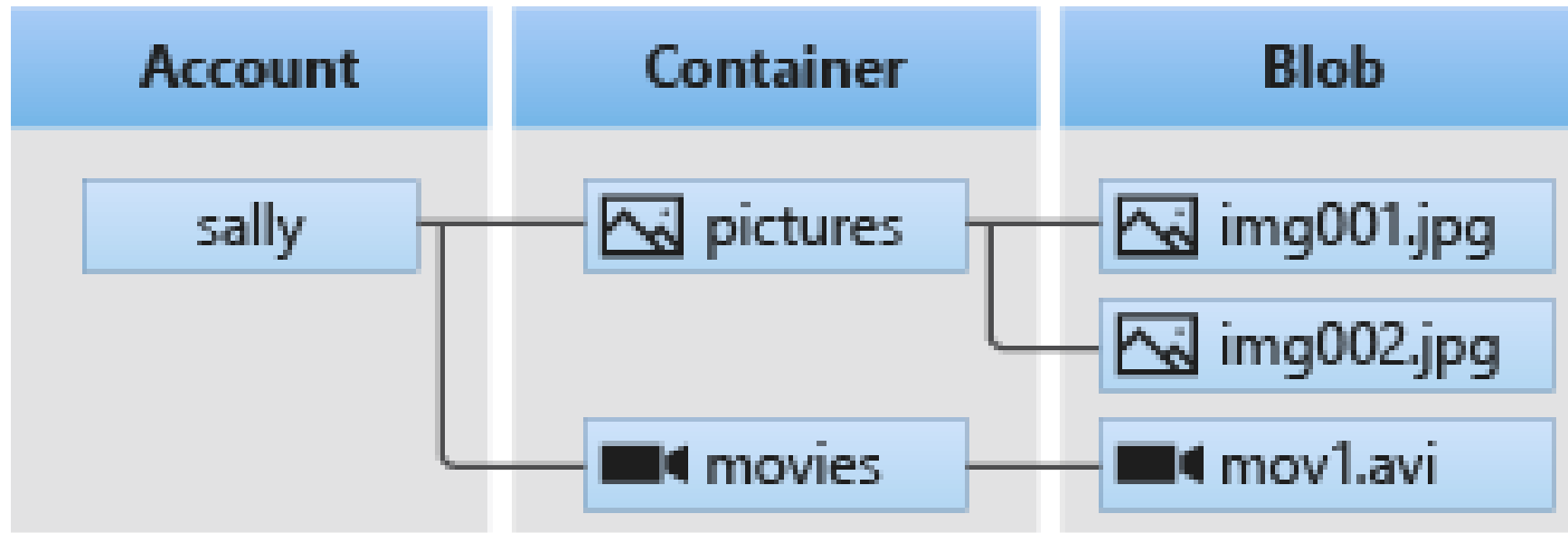
- Do not need to manage secret
- System-assigned managed identity
 - Shares the lifecycle of resource
- User-assigned managed identity
 - Separate resource
 - Can be shared between resources



Storage account

- Cloud managed storage solution
- Blob storage
- File storage
- Table storage
- Queue storage





- Object storage for static files
- Access through HTTPS or NFSv3 endpoint
- Most used storage type

Blob storage

Databases

- Relational Databases
 - Azure SQL Database
 - Azure SQL Managed Instance
 - Azure Database for PostgreSQL
 - Azure Database for MySQL
 - Oracle Database@Azure
- NoSQL databases
 - Azure Cosmos DB for NoSQL
 - Azure Cosmos DB for MongoDB
 - Azure Managed Instance for Apache Cassandra
 - MongoDB Atlas on Azure
- Caching
 - Azure Cache for Redis



Azure Virtual machines



Over 700 different virtual machine sizes available



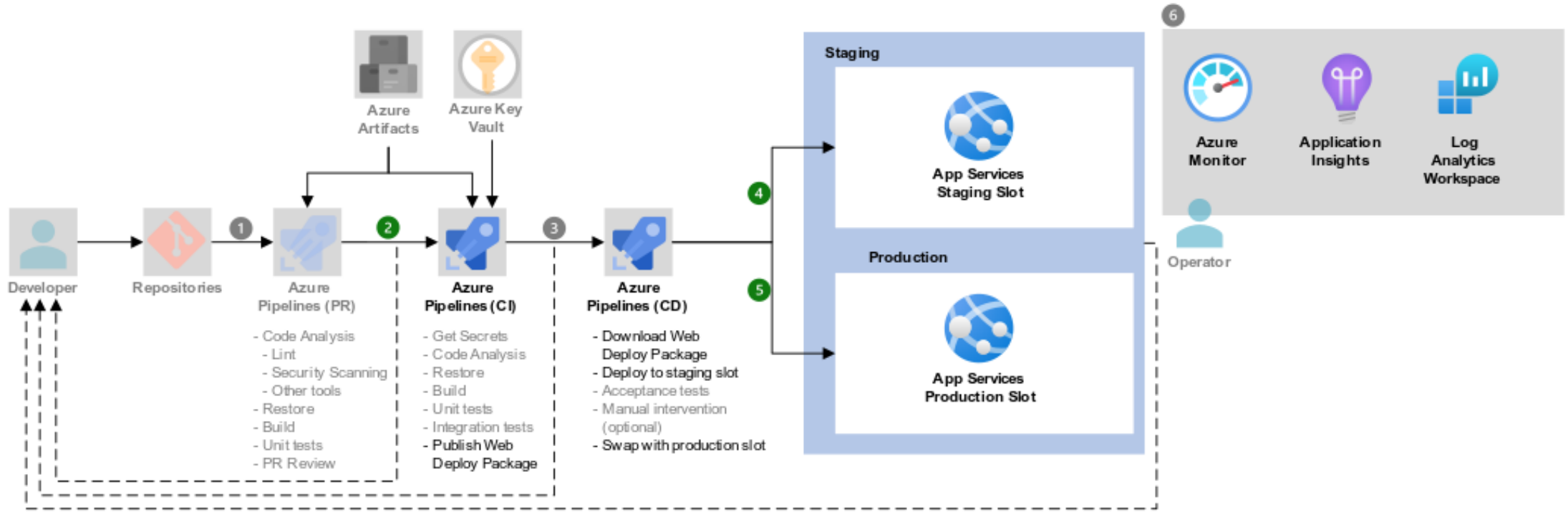
Most flexible Azure compute solution



You manage everything starting from OS-layer

App Service

- CI/CD
- Slots
- Application insights



Azure Functions

- Run serverless applications in cloud
- Supported languages
 - C#
 - JavaScript
 - Python
 - Java
 - PowerShell
 - TypeScript
 - Go/Rust/other

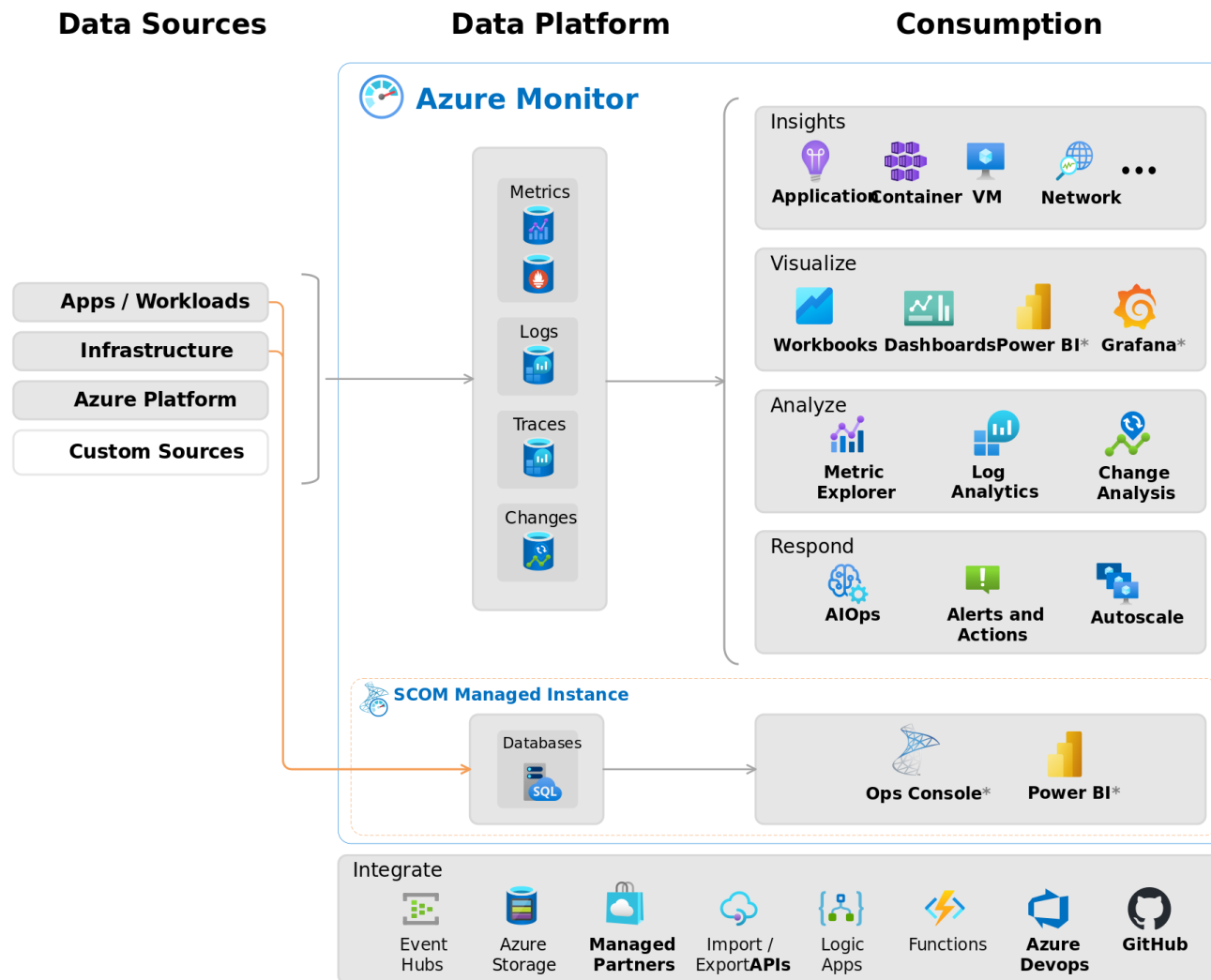


Secure Application Delivery

- Do not publish production or test applications publicly without Application Gateway or Front Door
- Both provides WAF-technologies in front of the application



Azure Monitor



Key takeaways

- EntraID is **not** Azure
- Divide resources to resource groups according to the **lifecycle** of resources
- Use Front Door or Application gateway in front of your application
- Prefer IaC when creating test or production workloads



Q & A

