



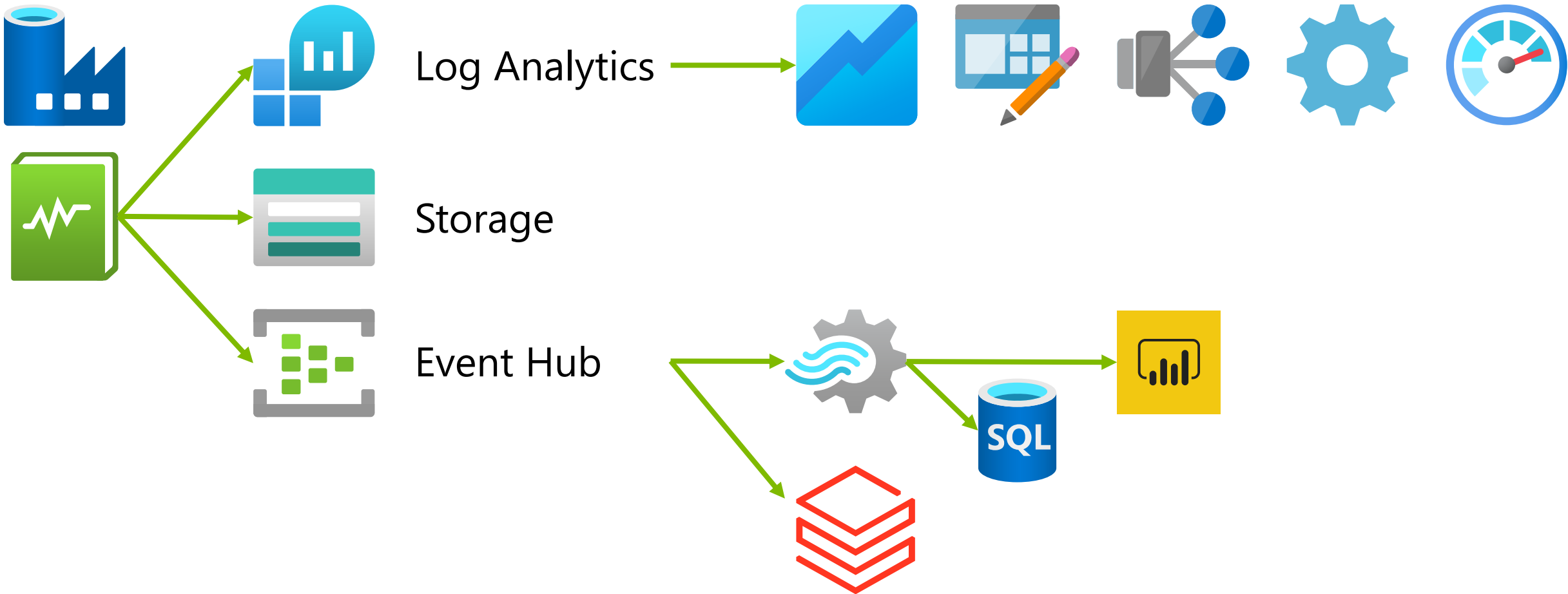
# Module 6: Monitoring Alerting Security

- Logging - Kusto Queries
- Alerting
- Using Azure Key Vault
- Access & Permissions

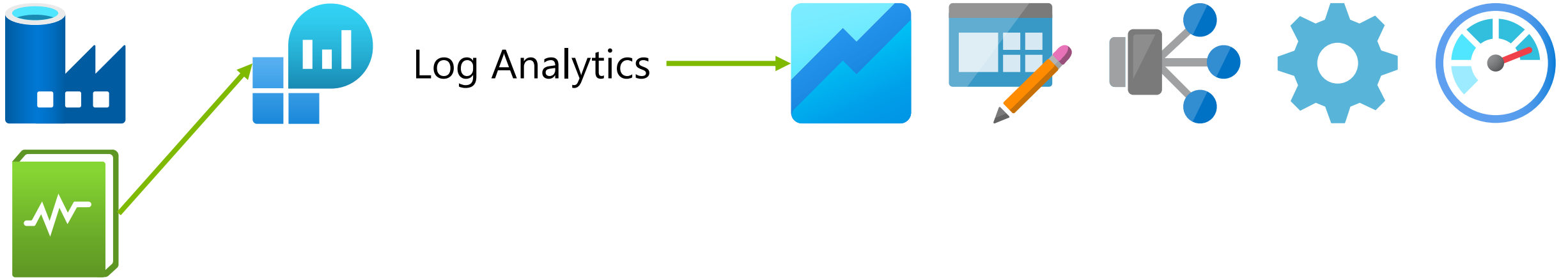
Logging



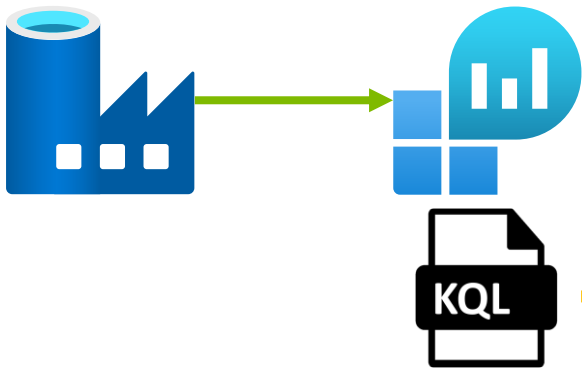
# Diagnostic Settings



# Diagnostic Settings



# Using Log Analytics



ADFPipelineRunDurations

| project

TimeGenerated,

Start,

End,

['DataFactory'] = substring(ResourceId, 121, 100),

Status,

PipelineName,

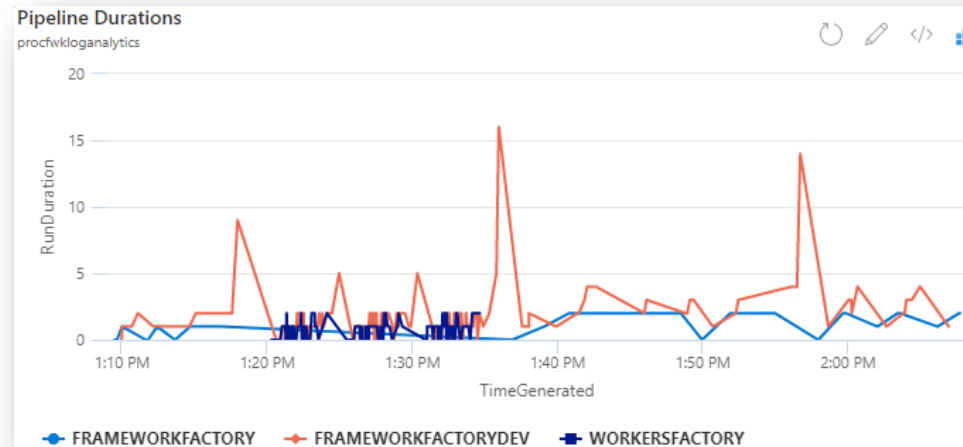
Parameters,

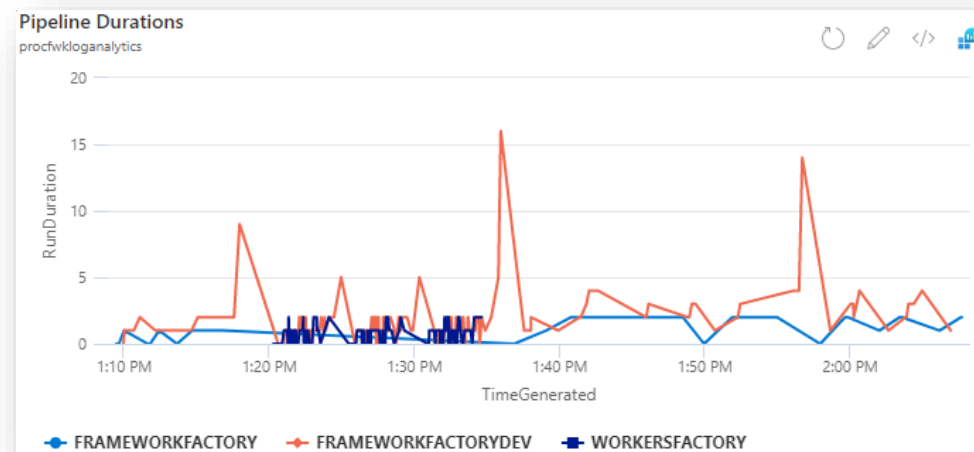
["RunDuration"] = datetime\_diff('Minute', End, Start)

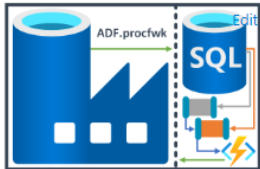
| where

TimeGenerated > ago(1h)

and Status !in ('InProgress', 'Queued', 'Cancelling')







#### Resources and Content

[Edit](#)

	<b>Blogs</b>	<a href="https://mrpaulandrew.com/ADF.procfwk">mrpaulandrew.com/ADF.procfwk</a>
	<b>GitHub</b>	<a href="https://github.com/mrpaulandrew/ADF.procfwk">github.com/mrpaulandrew/ADF.procfwk</a>
	<b>Twitter</b>	<a href="https://twitter.com/ADFprocfwk">#ADFprocfwk</a>

#### FrameworkSupportF...

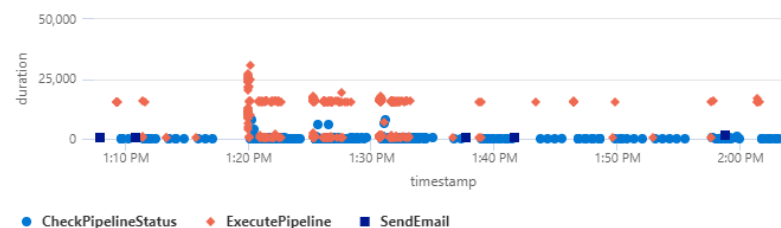
Function App

Running



#### Function Call Durations

ProcFwkAppInsights



#### ProcFwkAppInsights

Application Insights

#### procfwkloganalytics

Workspace



FrameworkFactory  
Data factory



FrameworkFactory  
Data factory



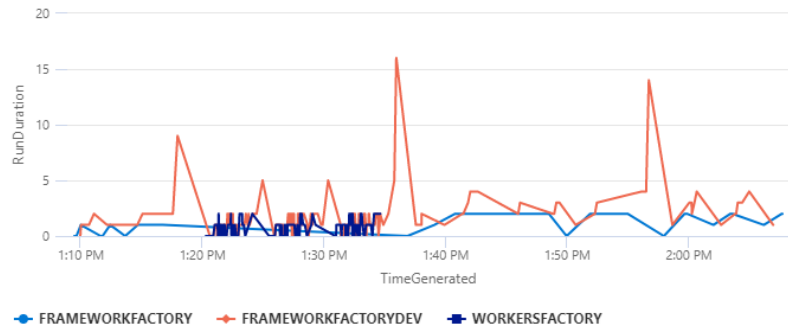
FrameworkFactory  
Data factory



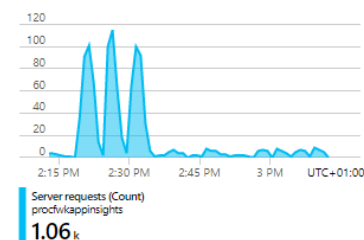
WorkersFactory  
Data factory

#### Pipeline Durations

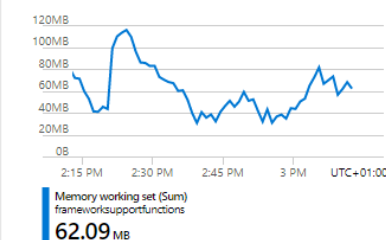
procfwkloganalytics



#### Server requests



#### Memory working set



#### Resources

ADF.procfwk

ProcFwkLogAnalytics

FrameworkFactory

FrameworkFactoryDev

FrameworkKeys

platformsupport01

FrameworkMetadataDev (pl...

frameworksupportstore

frameworkstorage01

FrameworkSupportFunctions

FrameworkFactoryTest

WorkersFactory

frameworkconsynapse

UKSouthPlan

FrameworkMetadataTest (pl...

ProcFwkAppInsights

9a4fe00e-39d9-4ec8-8f88-5...

frameworkdatalake01

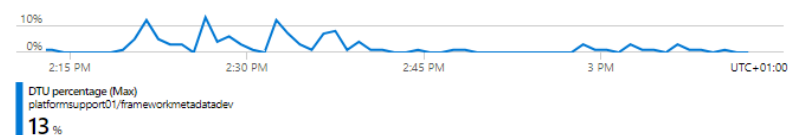
sqlvaexht4i7t63enw

#### FrameworkMetadat...

SQL database  
Online



#### Compute utilization

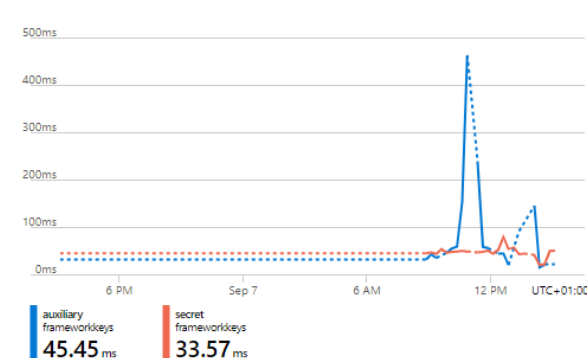


#### FrameworkKeys

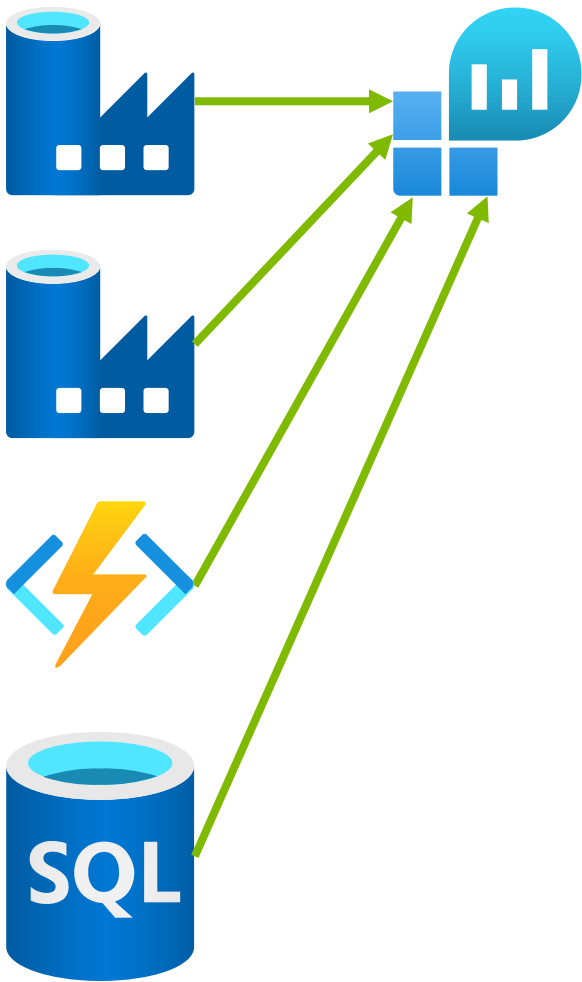
Key vault



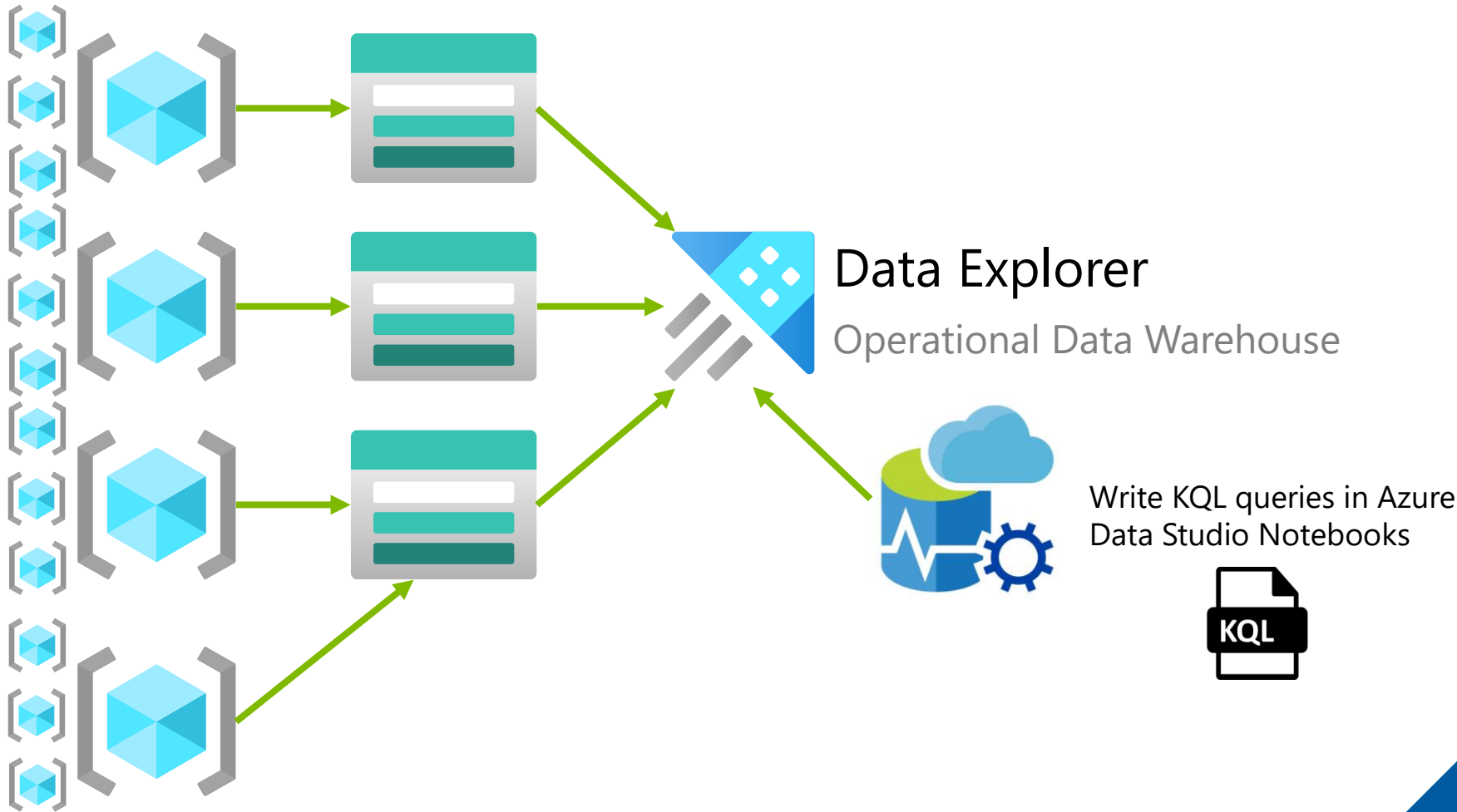
#### Average latency



# Using Data Explorer



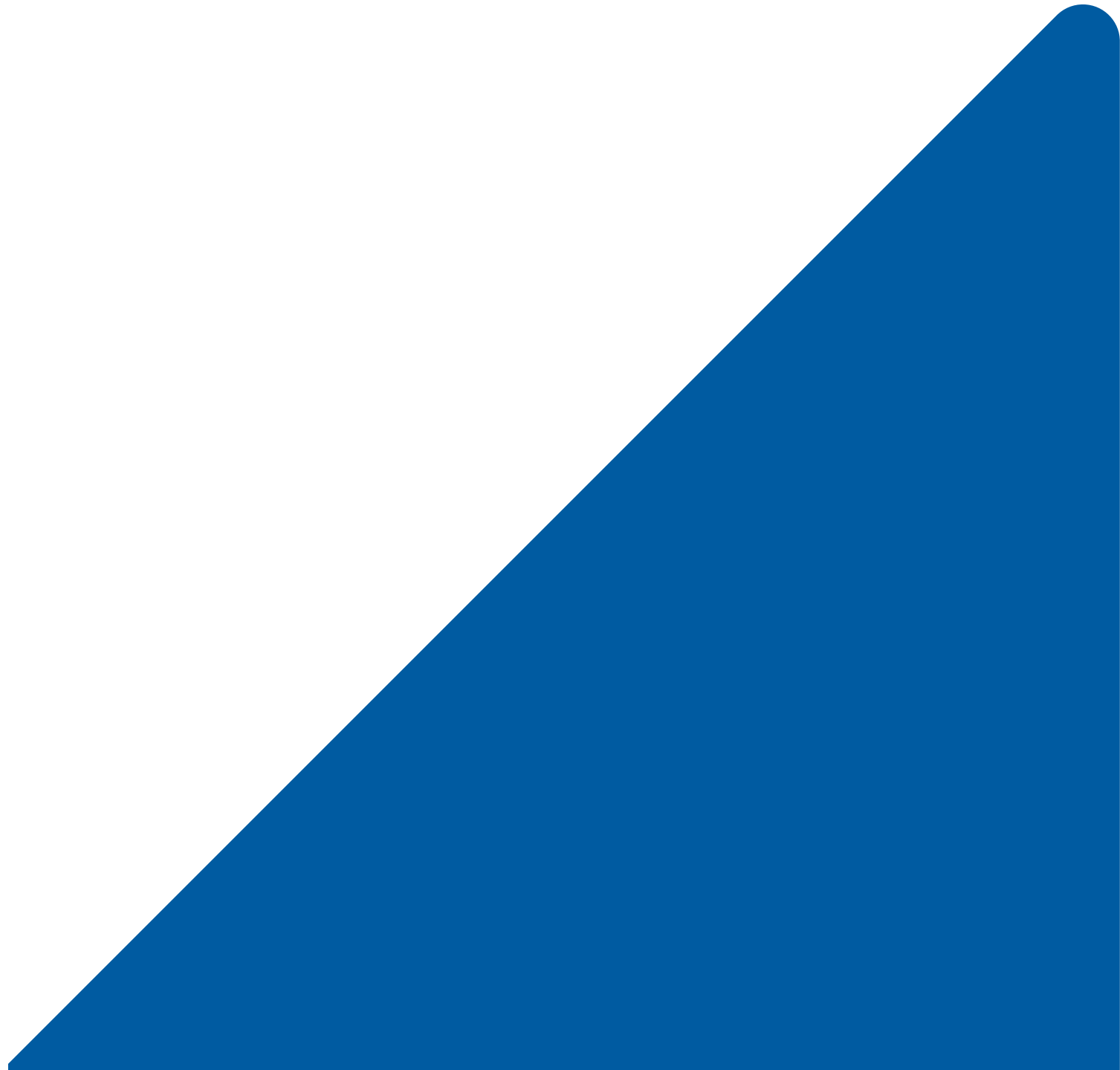
Small/Medium



Large/Enterprise

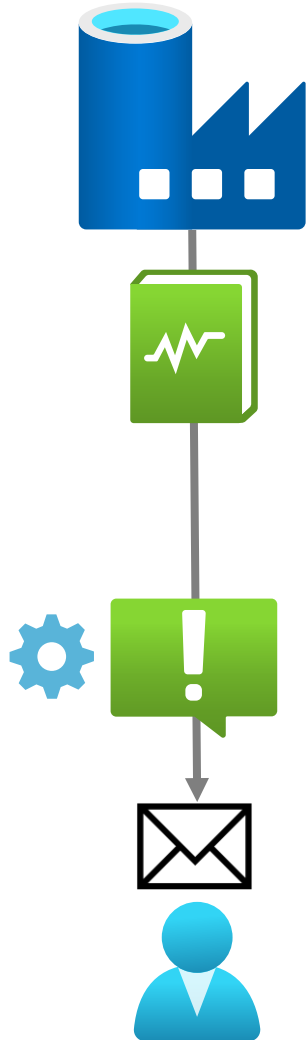


Alerting



# Alerting Options

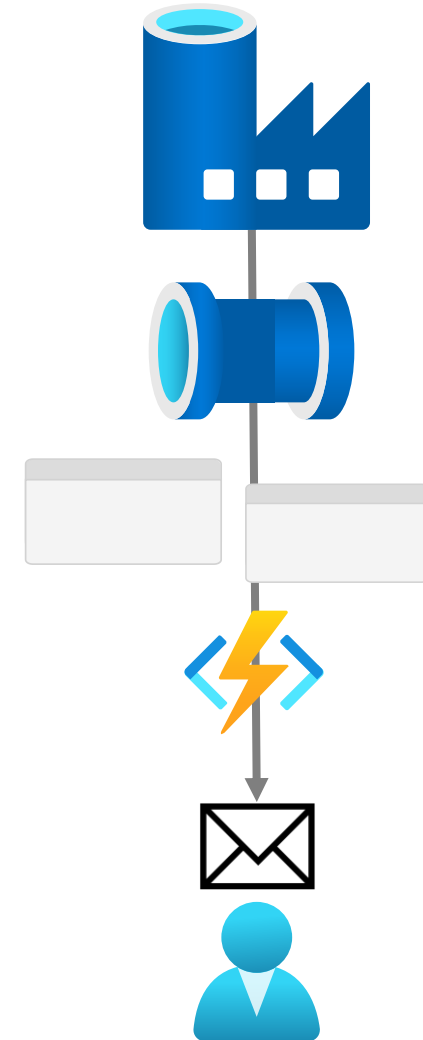
## Data Factory Defaults



## Custom Queries



## Custom Built Into Pipelines

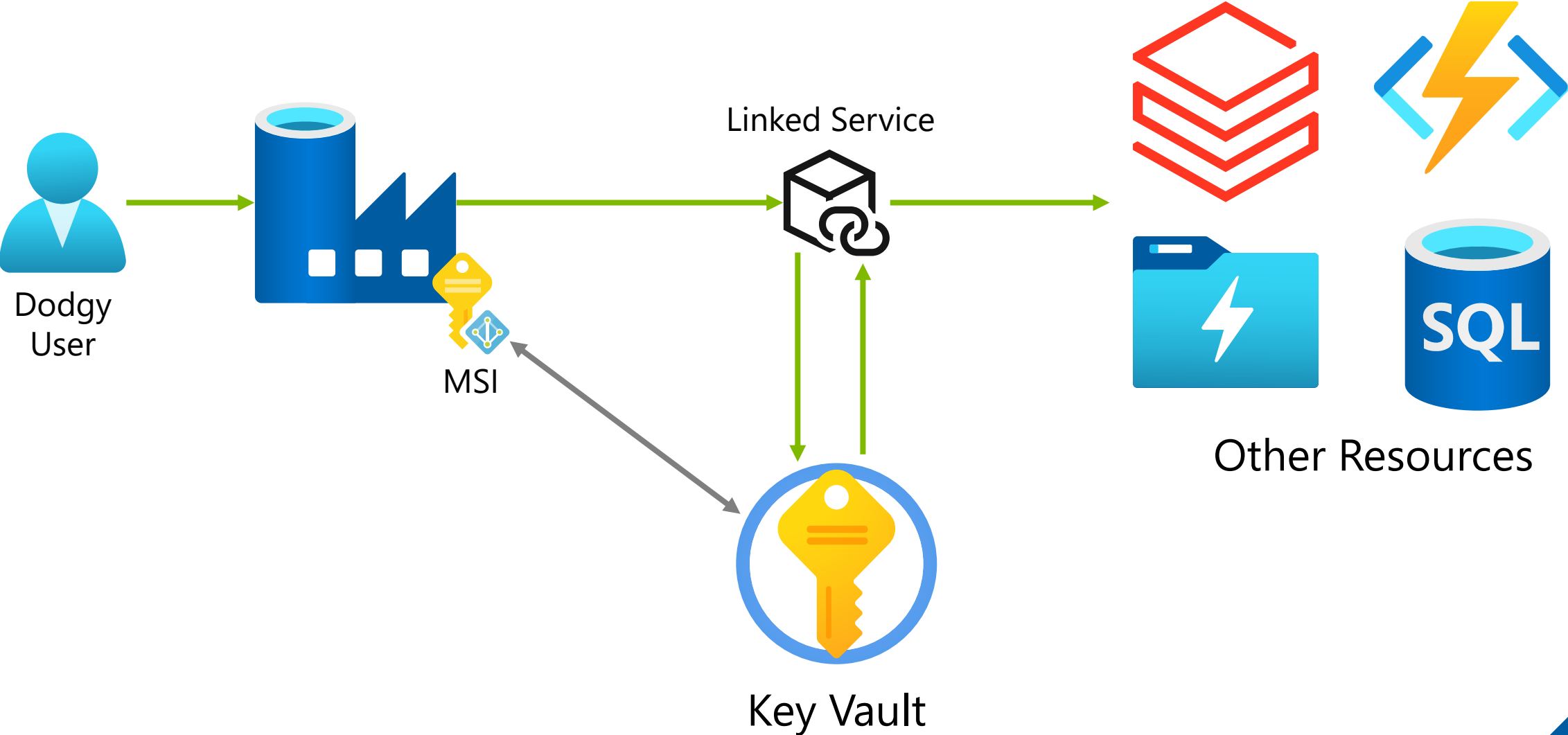




# Using *Azure* Key Vault

A large, solid blue shape that starts as a diagonal line from the bottom left and curves upwards to the right, filling the right side of the slide.

# Key Vault Interaction



# Access & Permissions

A solid blue diagonal shape that starts from the bottom-left and extends towards the top-right corner of the slide, creating a triangular area on the right side.



<https://portal.azure.com>



# PaulsFunFactory



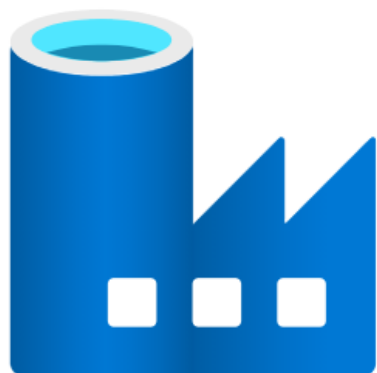
Documentation



Author & Monitor



<https://adf.azure.com>



## Select Data Factory

Microsoft Azure Data Factory is a cloud-based data integration service that automates data movement and transformation. [Learn more](#)

Azure Active Directory \*



mrpaulandrew



Subscription

Microsoft Azure Sponsorship



Data Factory name \*

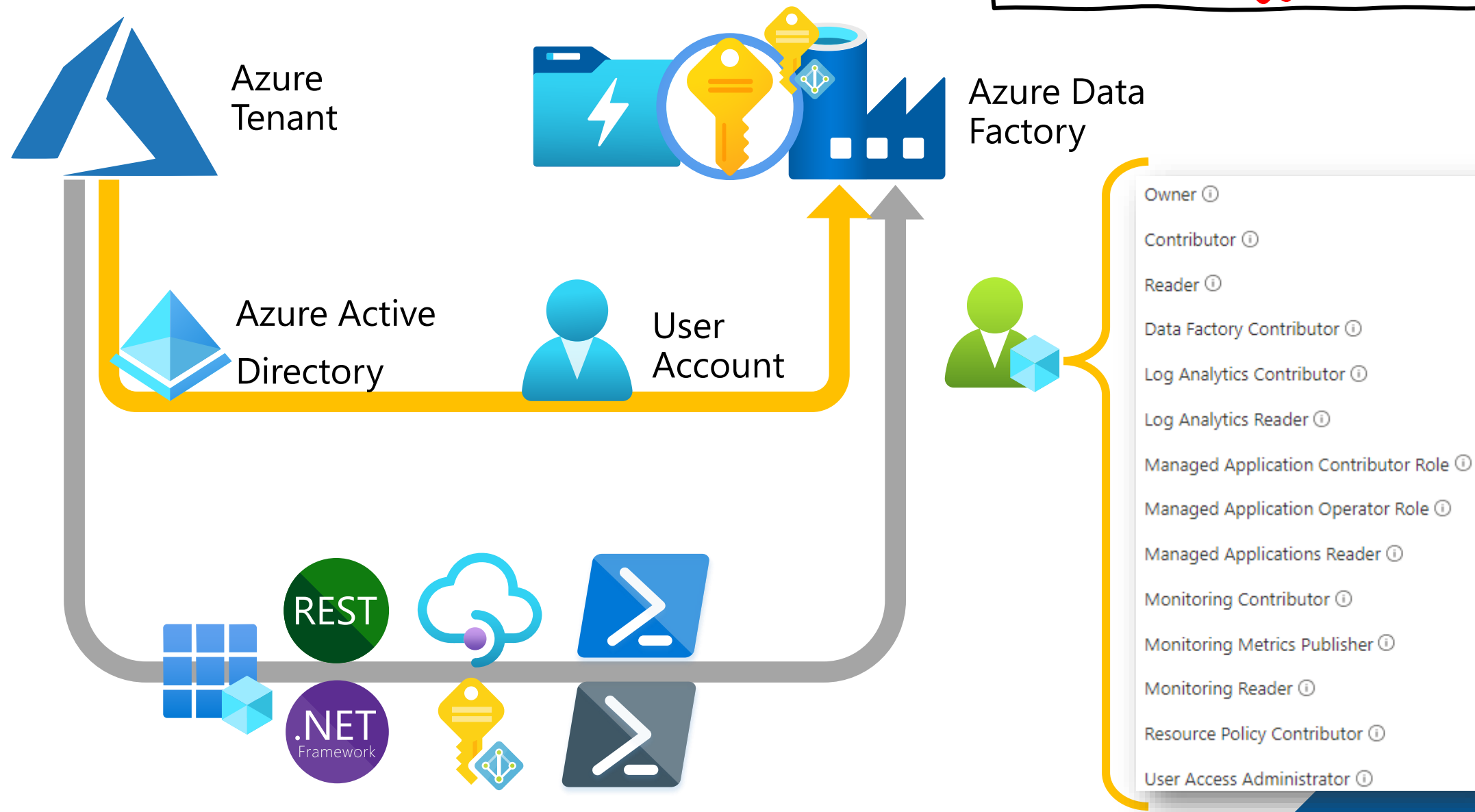


Continue

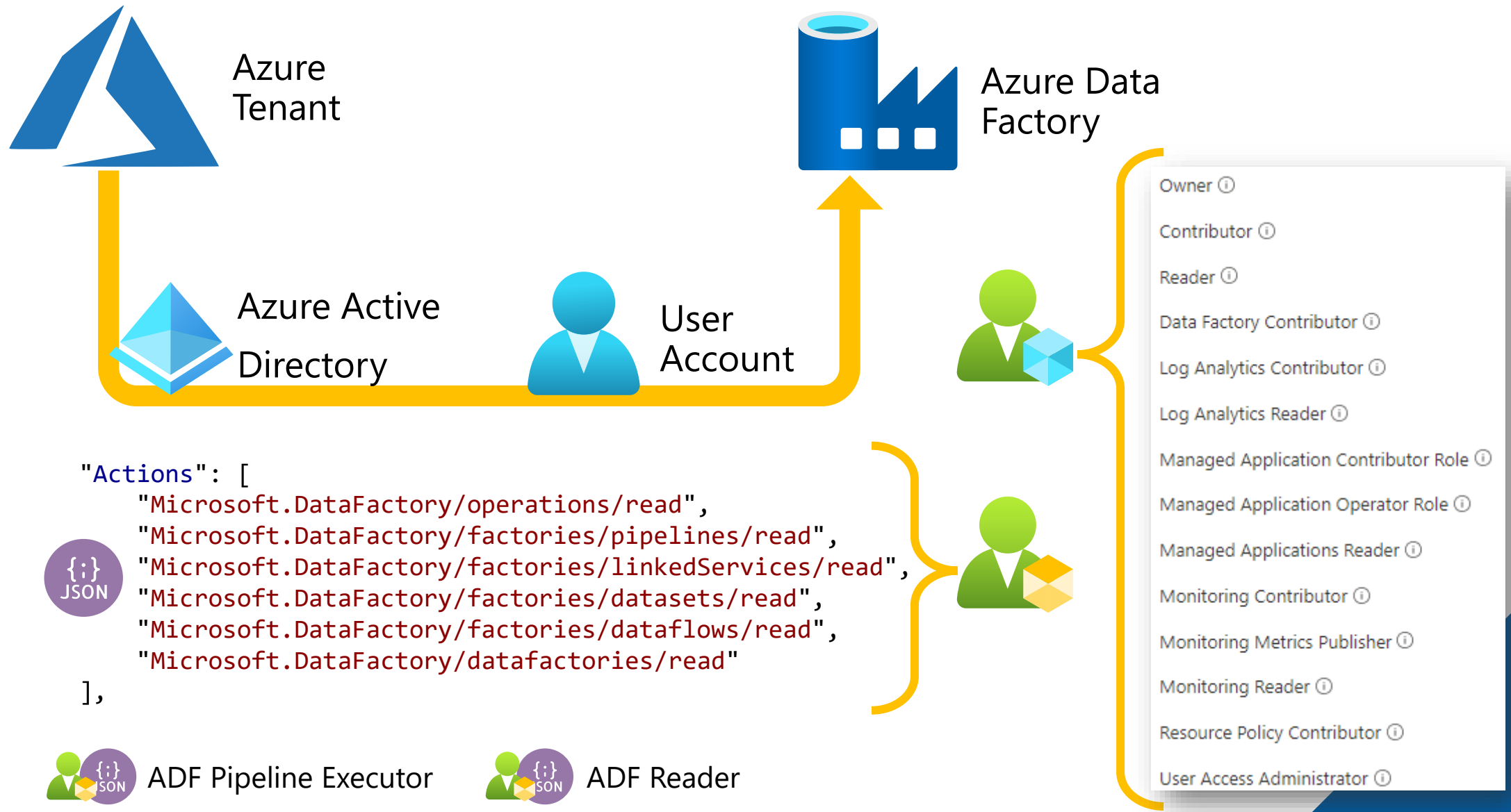


# Accessing Data Factory

Linked Service Administrator ✖  
Pipeline Executor ✖  
Dataset Reader ✖

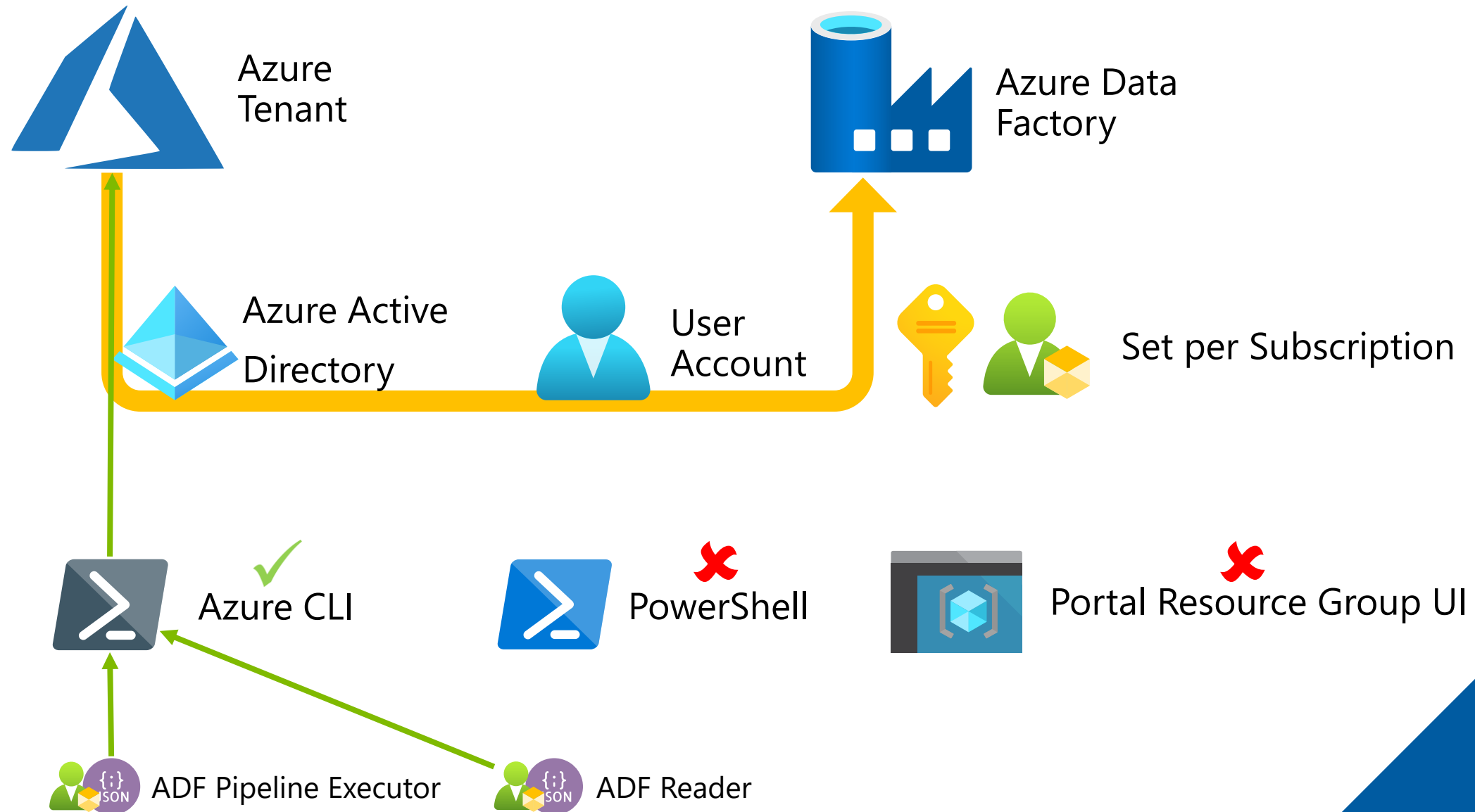


# Accessing Data Factory – Custom Roles



# Accessing Data Factory – Custom Roles

<https://docs.microsoft.com/en-us/azure/role-based-access-control/custom-roles-cli>



# Module 6:

## Monitoring Alerting Security

🔊 Logging - Kusto Queries



🔊 Alerting



🔊 Using Azure Key Vault



🔊 Access & Permissions

