Module 9
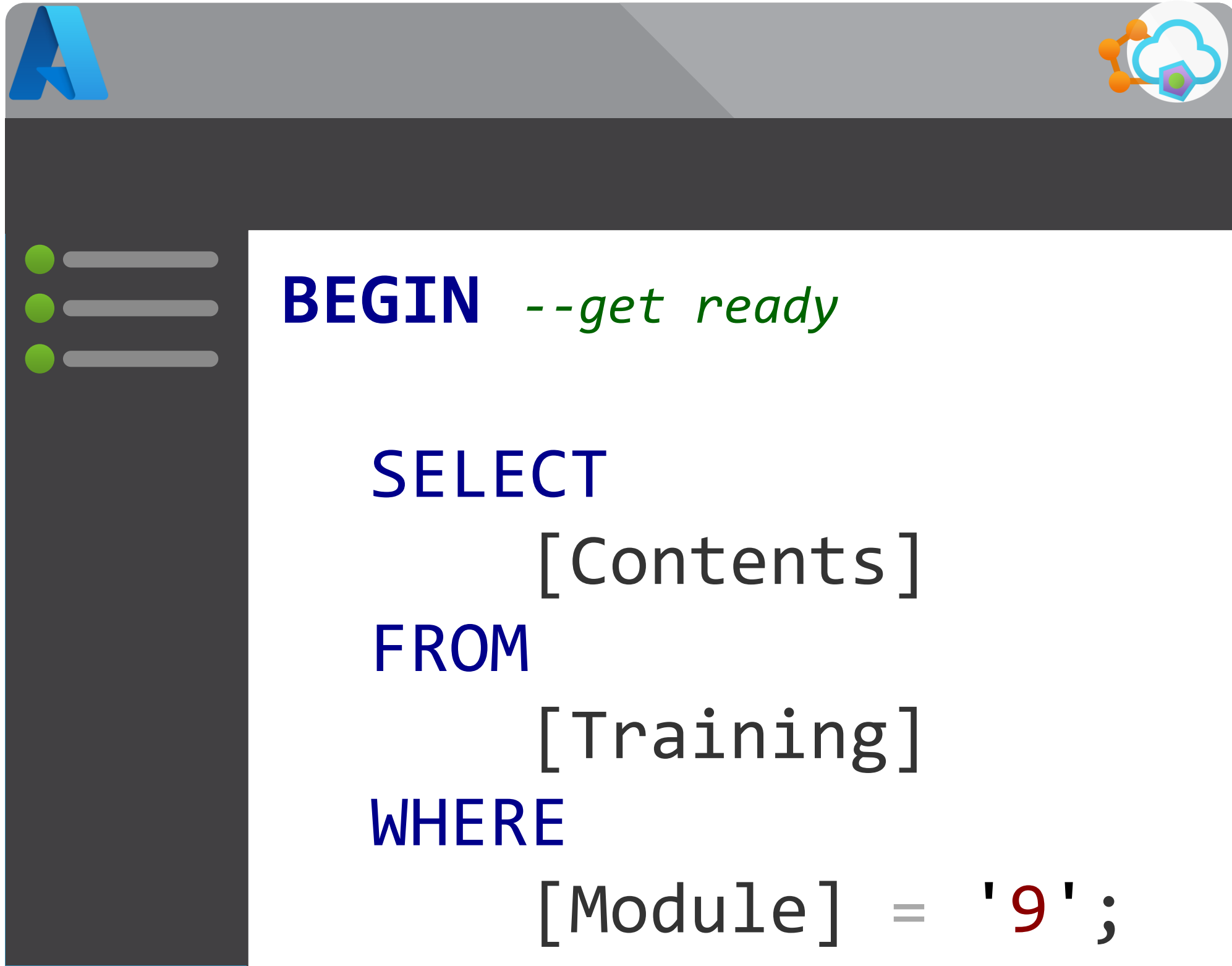
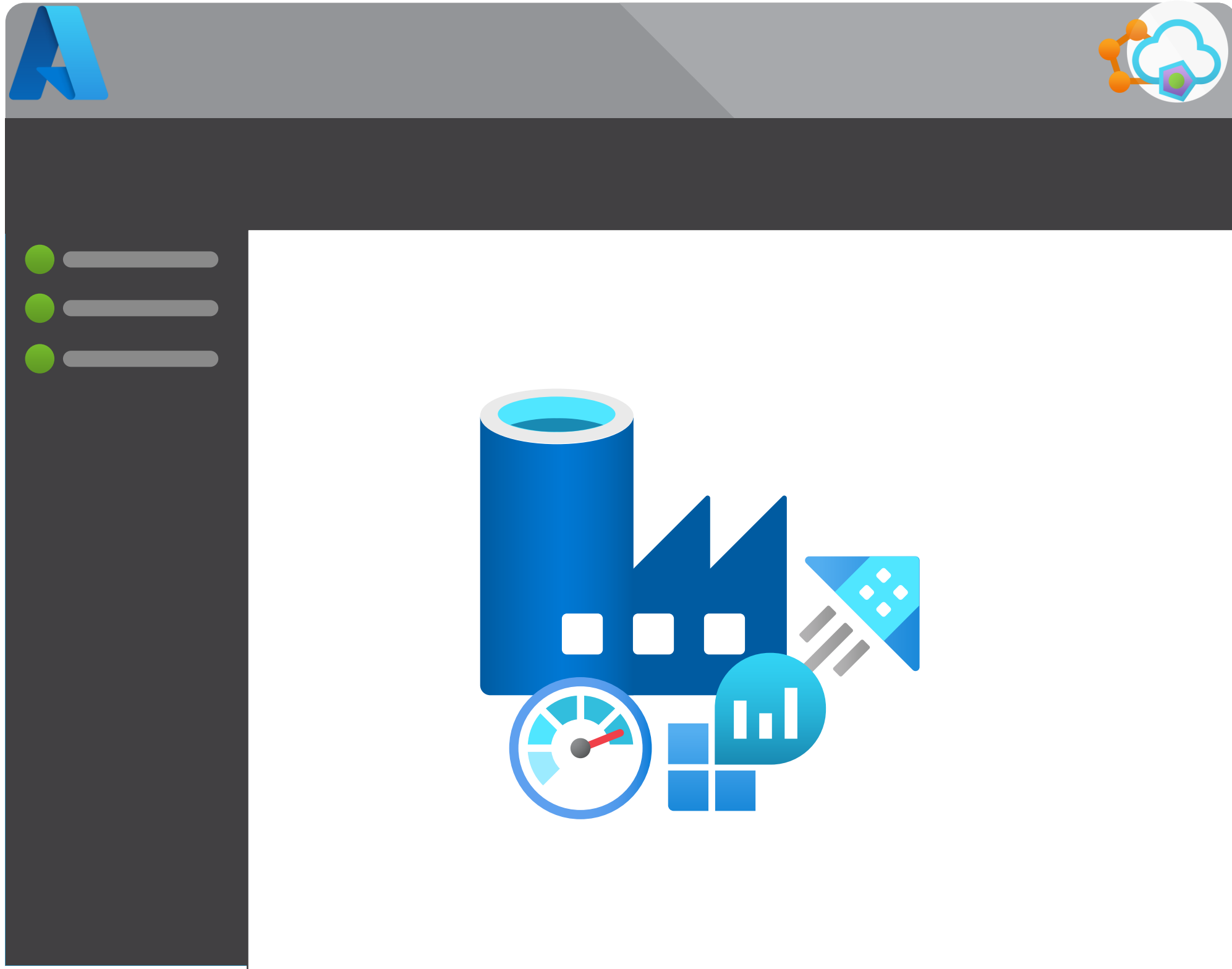## Monitoring & Alerting

- Studio Monitoring
- Log Analytics & Kusto Queries
- Operational Dashboards
- Advanced Alerting

```sql
BEGIN --get ready

    SELECT
        [Contents]
    FROM
        [Training]
    WHERE
        [Module] = '9';
```

Module 9

Monitoring & Alerting

- Studio Monitoring
- Log Analytics & Kusto Queries
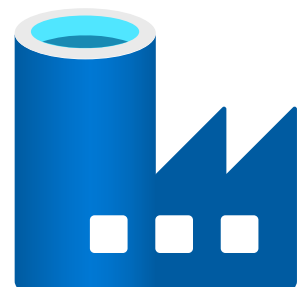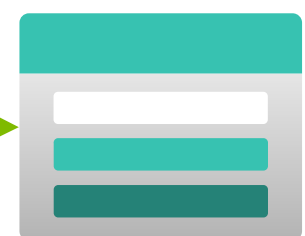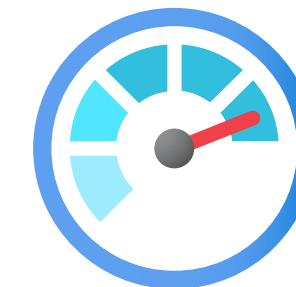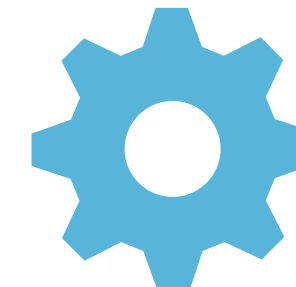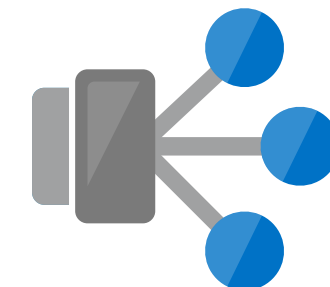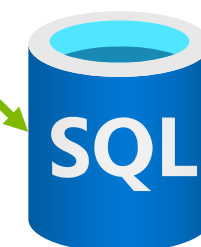- Operational Dashboards
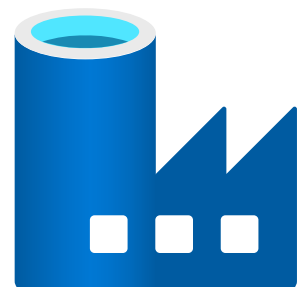- Advanced Alerting
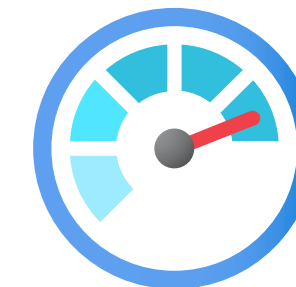
Diagnostic Settings

Log Analytics

Storage

Event Hub

Diagnostic Settings

Log Analytics

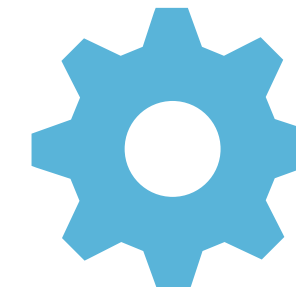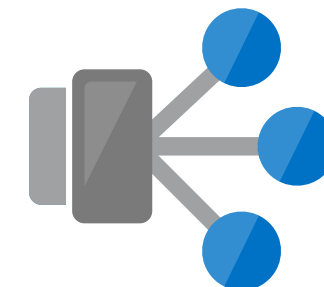# Using Log Analytics
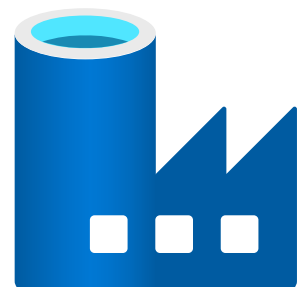
```kql
ADFPipelineRunDurations
 | project
        TimeGenerated,
        Start,
        End,
        ['DataFactory'] = substring(ResourceId, 121, 100),
        Status,
        PipelineName,
        Parameters,
        ["RunDuration"] = datetime_diff('Minute', End, Start)
 | where

        TimeGenerated > ago(1h)
        and Status !in ('InProgress','Queued','Cancelling')
```

Pipeline Durations
procfwkloganalytics

RunDuration

20

15

10

5

0

1:10 PM   1:20 PM   1:30 PM   1:40 PM   1:50 PM   2:00 PM

TimeGenerated

— FRAMEWORKFACTORY   — FRAMEWORKFACTORYDEV   — WORKERSFACTORY

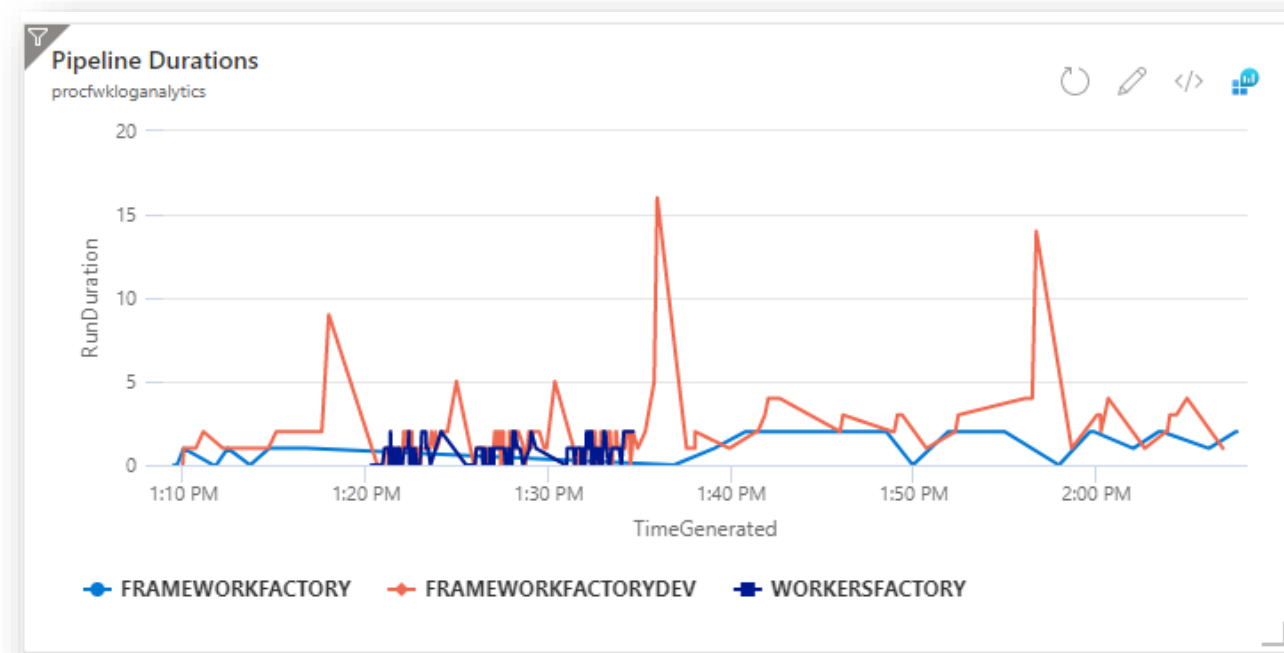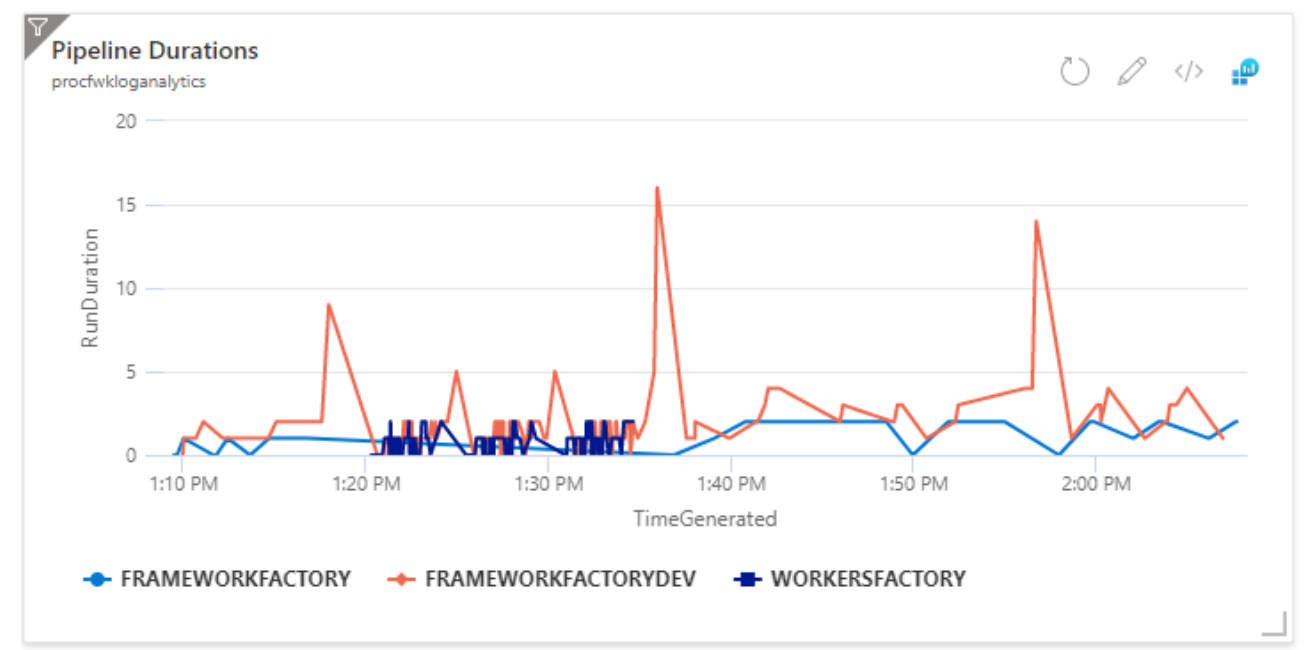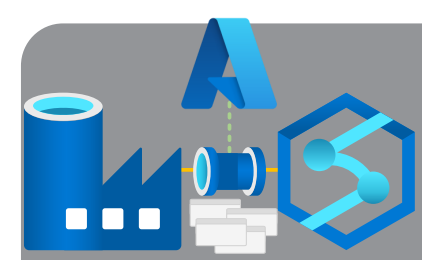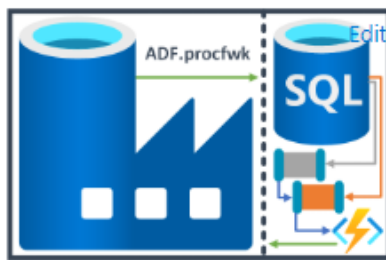# Monitoring Dashboard 1

Resources and Content
Edit

	Blogs	mrpaulandrew.com/ADF.procfwk
	GitHub	github.com/mrpaulandrew/ADF.procfwk
	Twitter	#ADFprocfwk
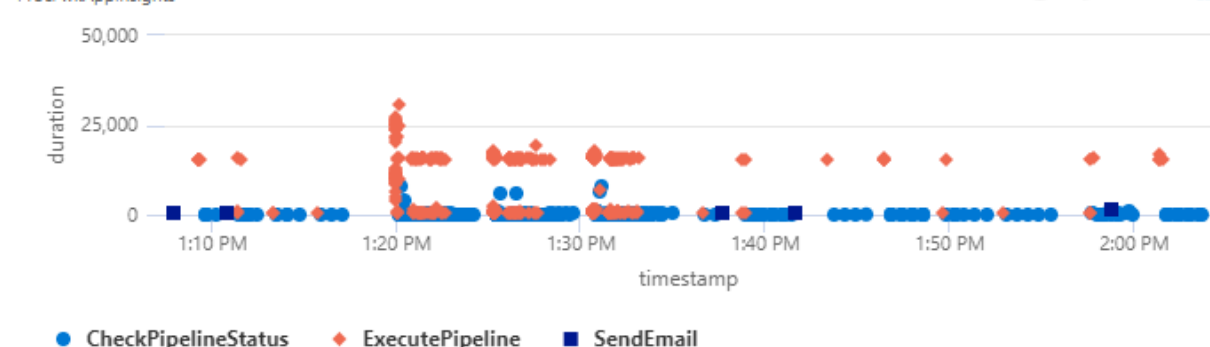
FrameworkSupportF...
Function App

Running

Function Call Durations
ProcFwkAppInsights

- CheckPipelineStatus
- ExecutePipeline
- SendEmail

ProcFwkAppInsights
Application Insights

procfwkloganalytics
Workspace

FrameworkFactor...
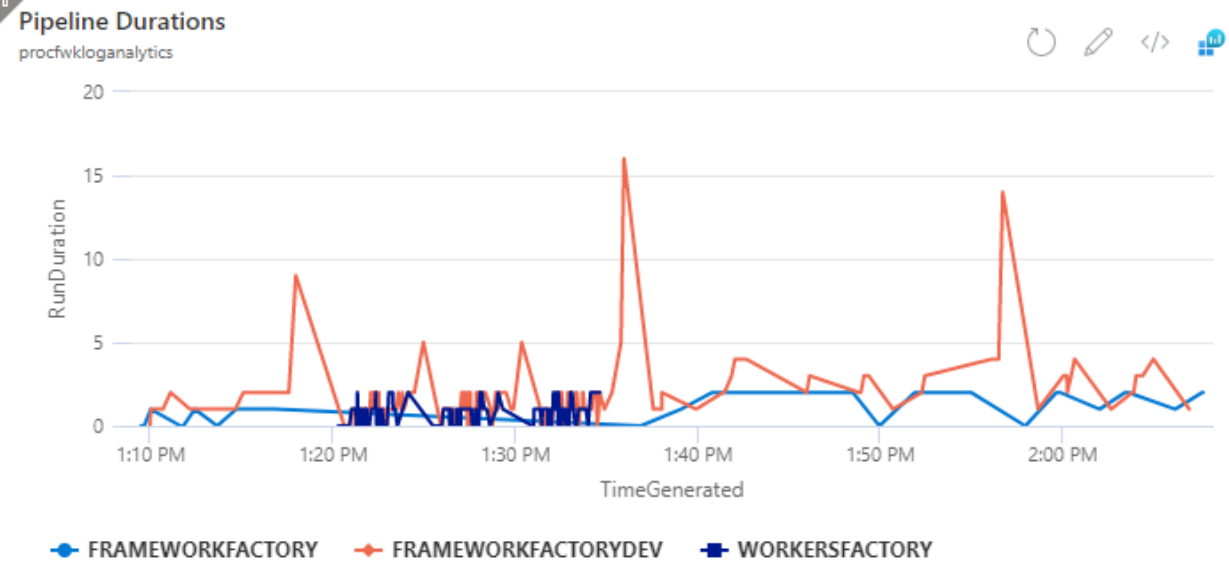Data factory

FrameworkFactor...
Data factory

FrameworkFactor...
Data factory
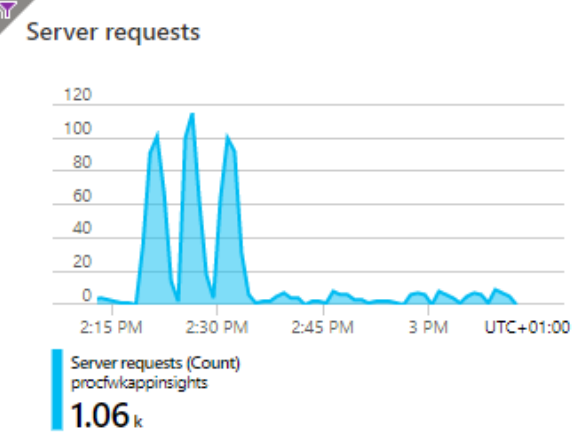
WorkersFactory
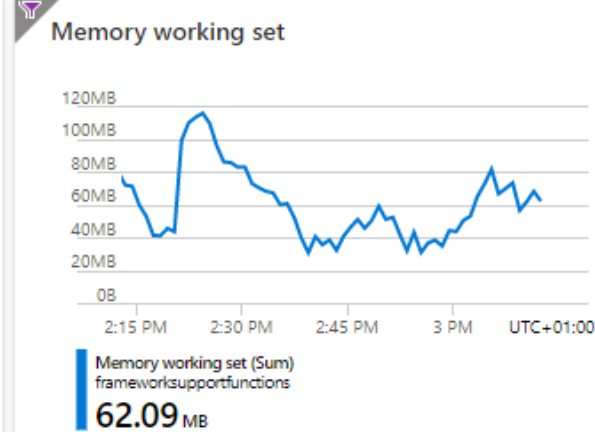Data factory

Pipeline Durations
procfwkloganalytics

- FRAMEWORKFACTORY
- FRAMEWORKFACTORYDEV
- WORKERSFACTORY

Server requests
ADF.procfwk

Server requests (Count)
procfwkappinsights
1.06 k

Memory working set

Memory working set (Sum)
frameworksupportfunctions
62.09 MB

Resources
ADF.procfwk

- ProcFwkLogAnalytics
- FrameworkFactory
- FrameworkFactoryDev
- FrameworkKeys
- platformsupport01
- FrameworkMetadataDev (pl-...
- frameworksupportstore
- frameworkstorage01
- FrameworkSupportFunctions
- FrameworkFactoryTest
- WorkersFactory
- frameworkonsynapse
- UKSouthPlan
- FrameworkMetadataTest (pl-...
- ProcFwkAppInsights
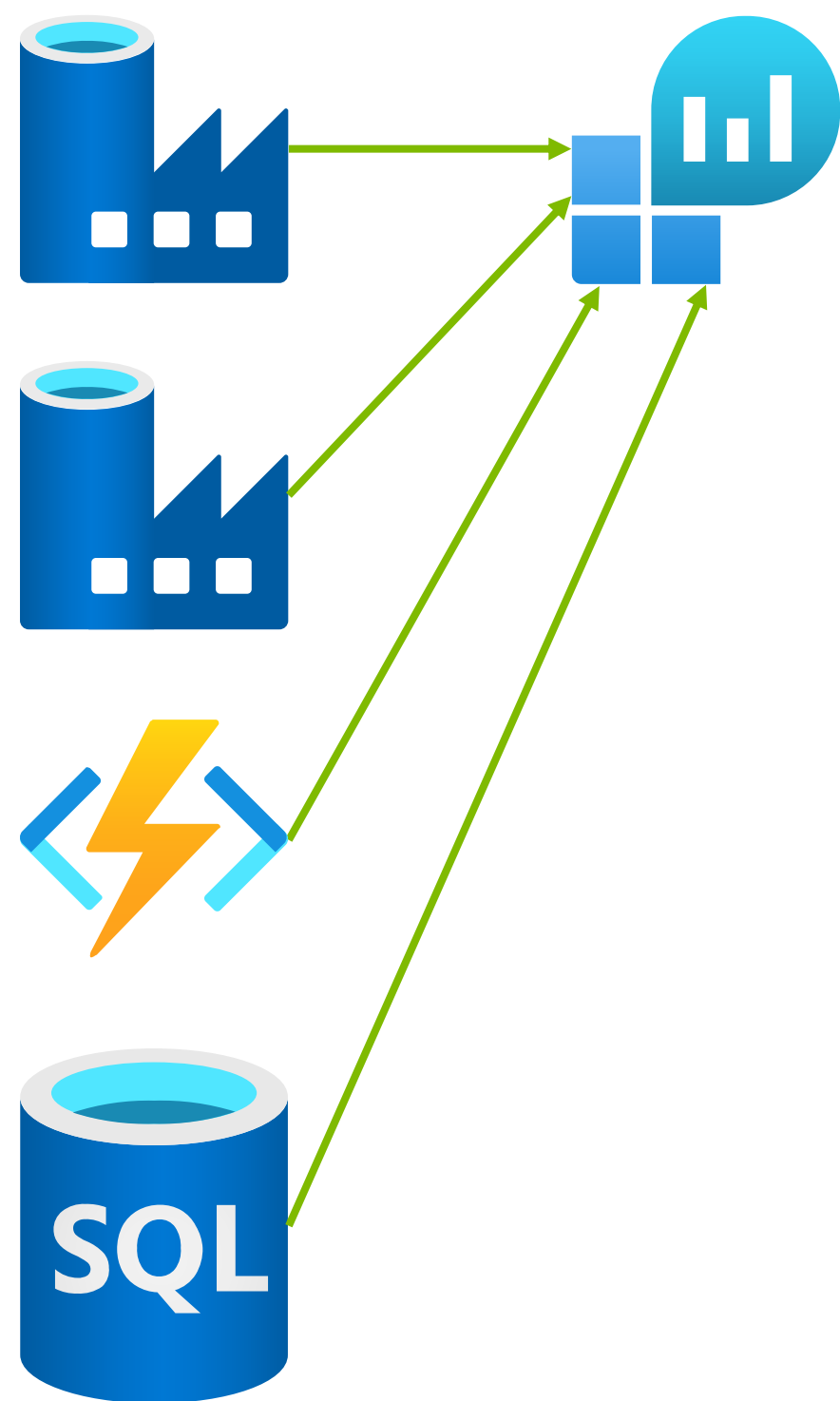- 9a4fe00e-39d9-4ec8-8f88-5-...
- frameworkdatalake01
- sqlvaexht4i7t63enw

FrameworkKeys
Key vault

Average latency

auxiliary
frameworkkeys
45.45 ms

secret
frameworkkeys
33.57 ms

FrameworkMetadat...
SQL database
Online

Compute utilization

DTU percentage (Max)
platformsupport01/frameworkmetadatadev
13 %

Using Data Explorer

Data Explorer

Operational Data Warehouse

Write KQL queries in Azure Data Studio Notebooks
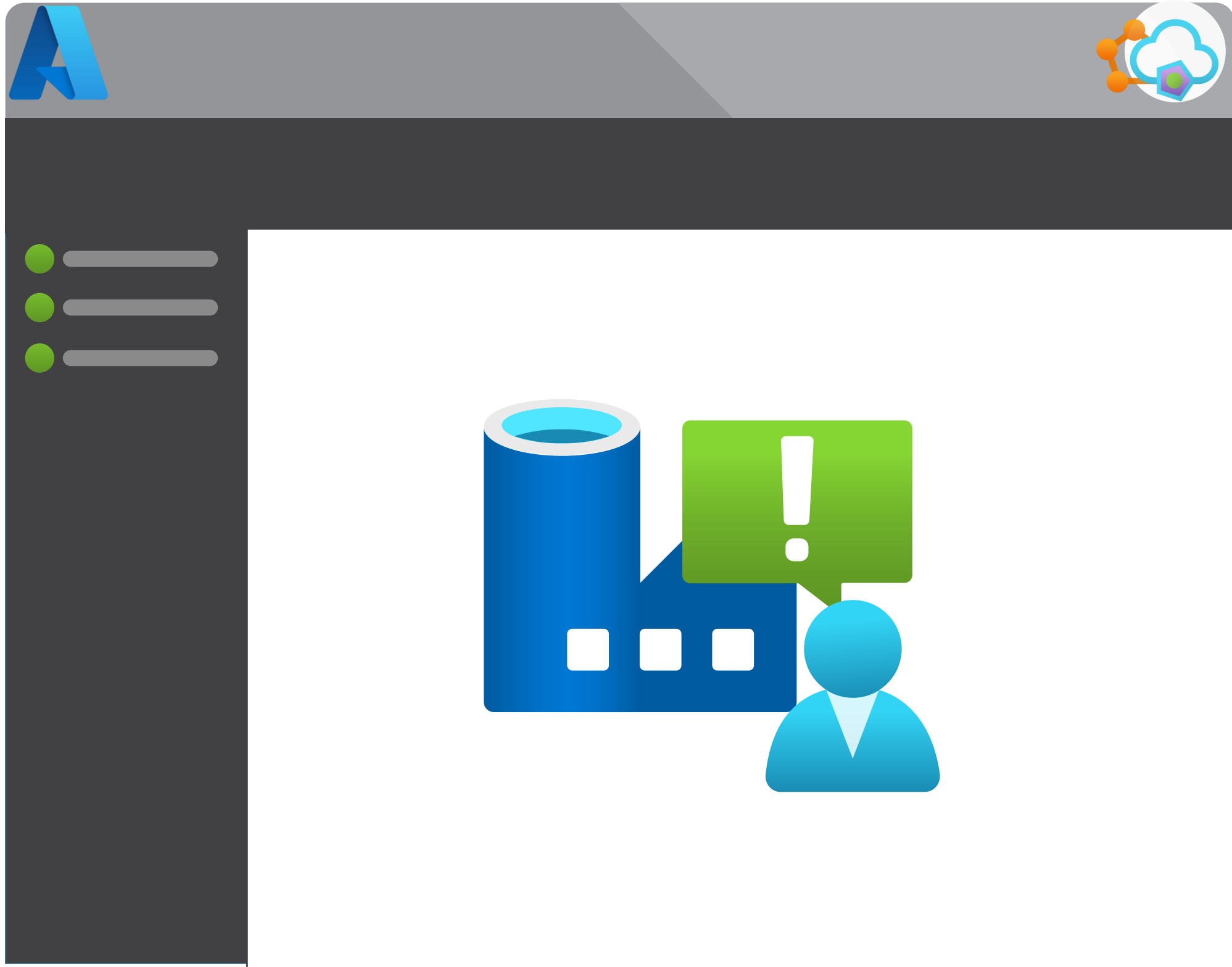
KQL

Small/Medium
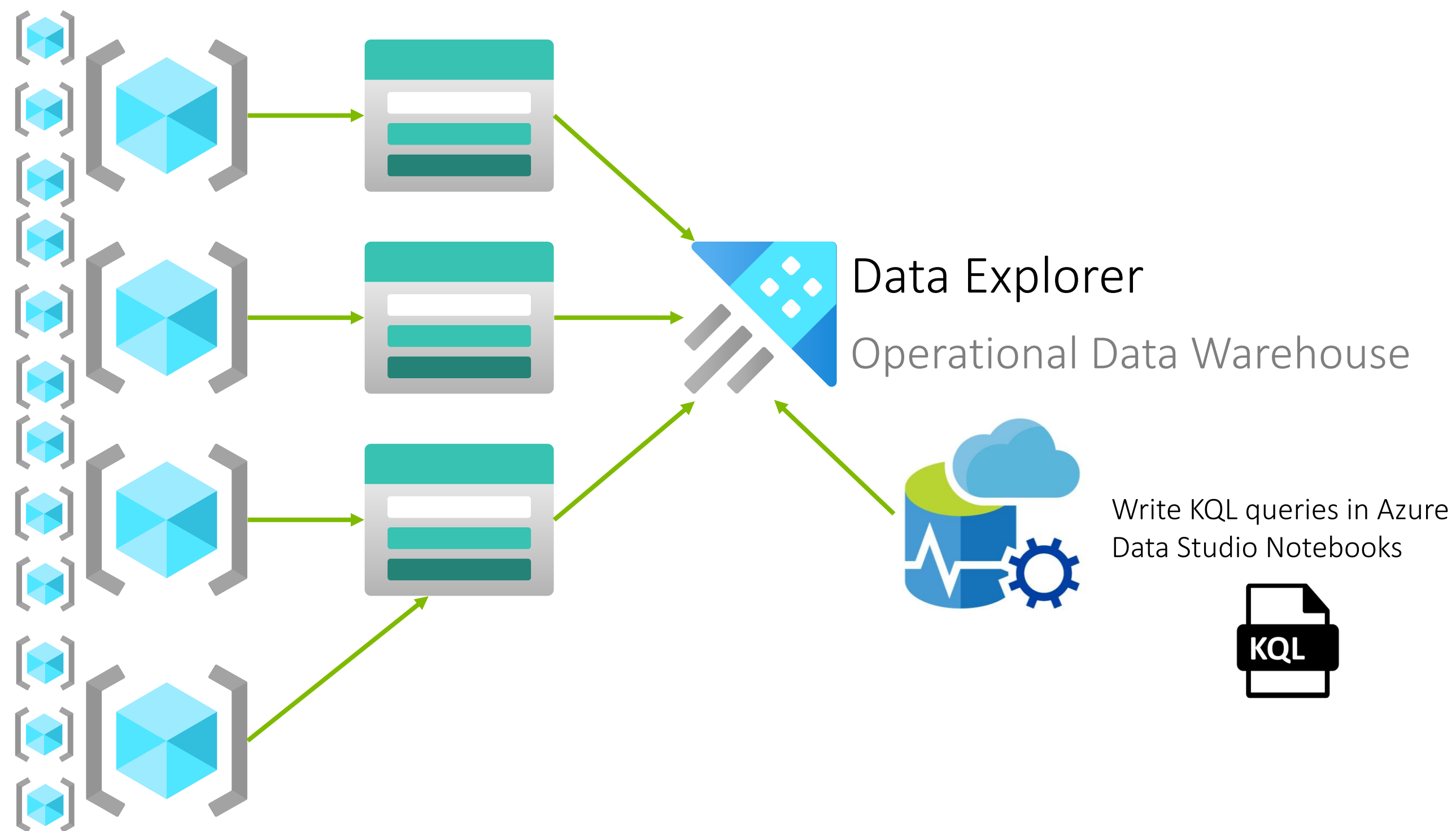
Large/Enterprise
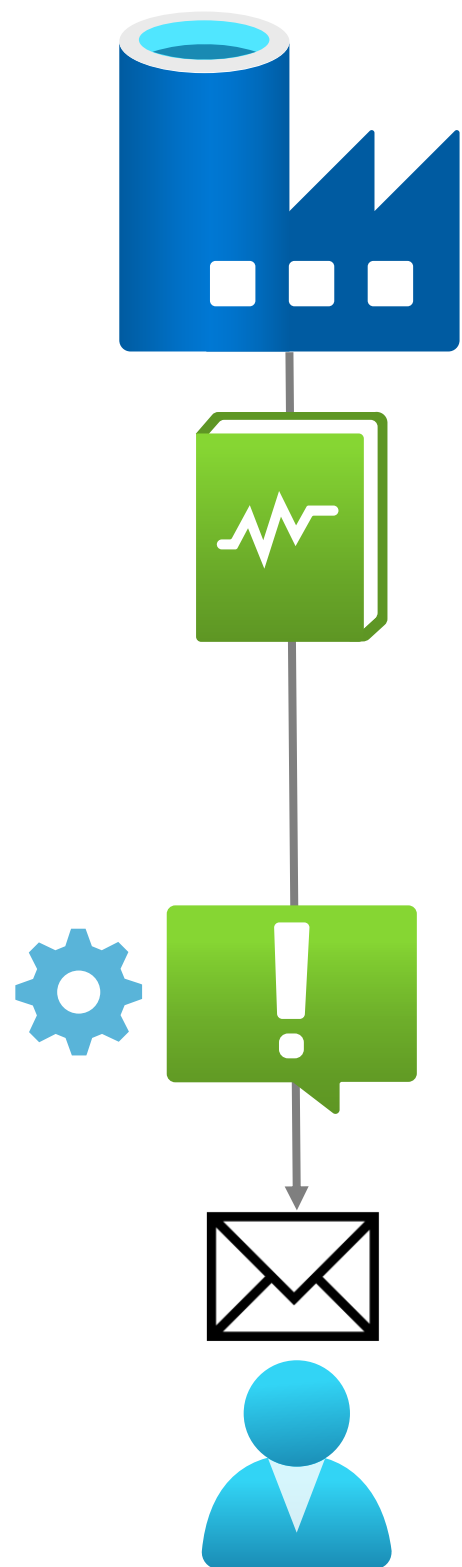
Module 9

Monitoring & Alerting

- Portal Monitoring
- Log Analytics & Kusto Queries
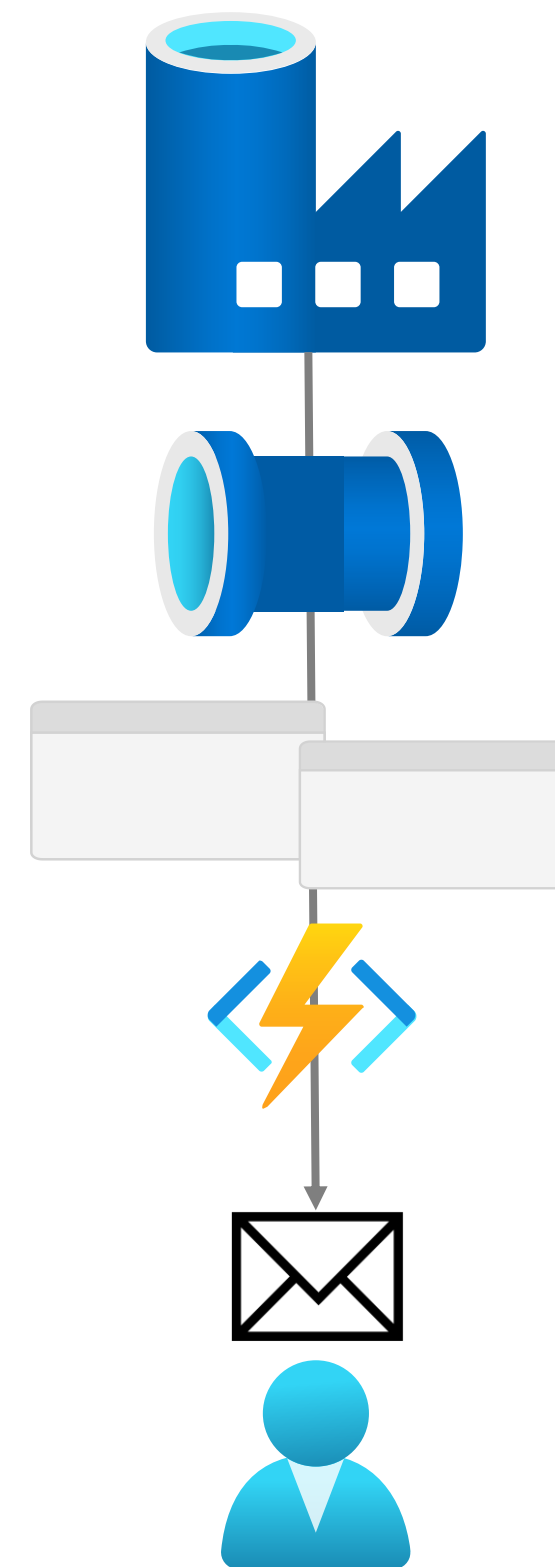- Operational Dashboards
- Advanced Alerting
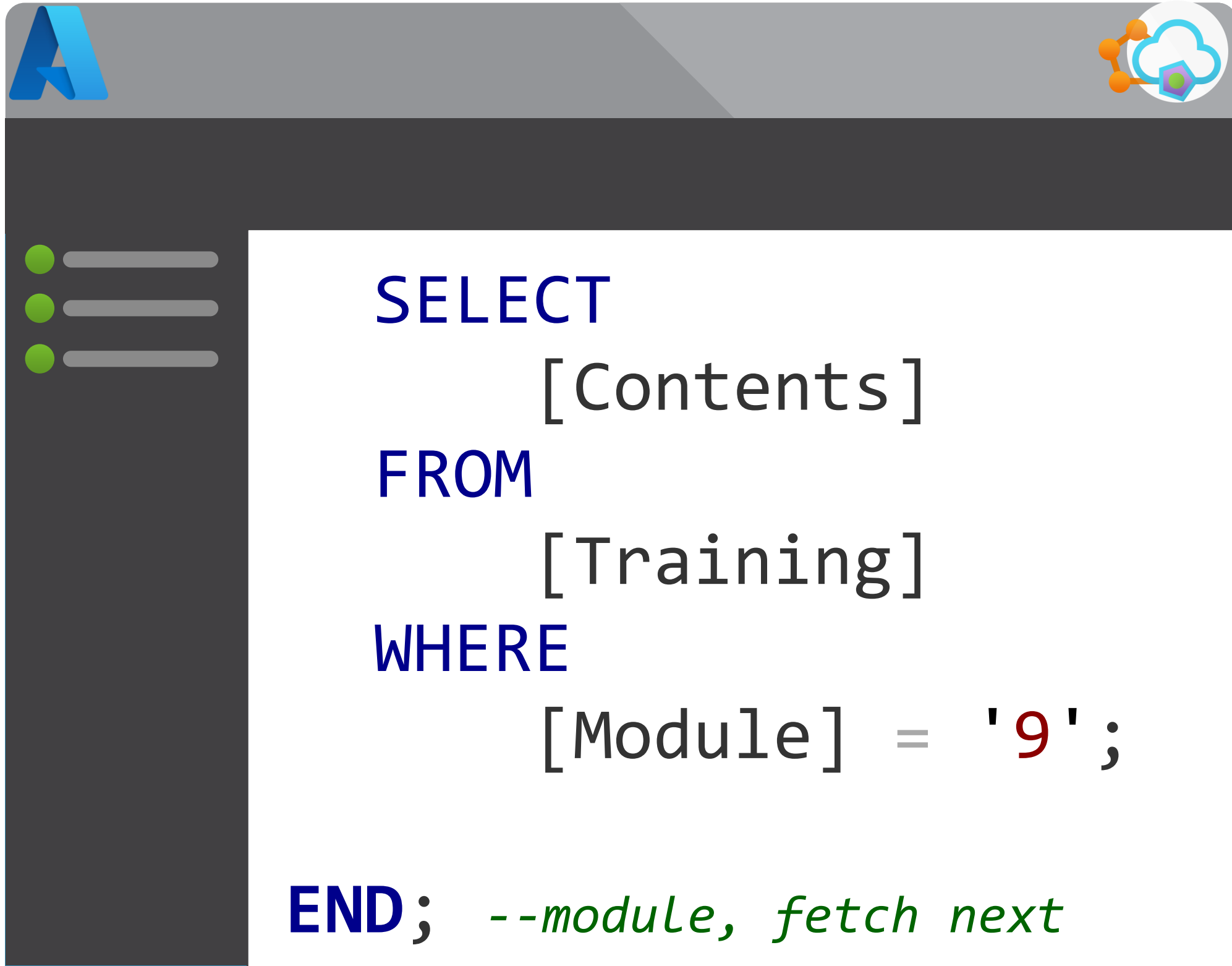
Alerting Options

| Data Factory Defaults | Custom Queries | Custom Built Into Pipelines |

Module 9

Monitoring & Alerting

```sql
SELECT
    [Contents]
FROM
    [Training]
WHERE
    [Module] = '9';

END; --module, fetch next
```

- Portal Monitoring
- Log Analytics & Kusto Queries
- Operational Dashboards
- Advanced Alerting