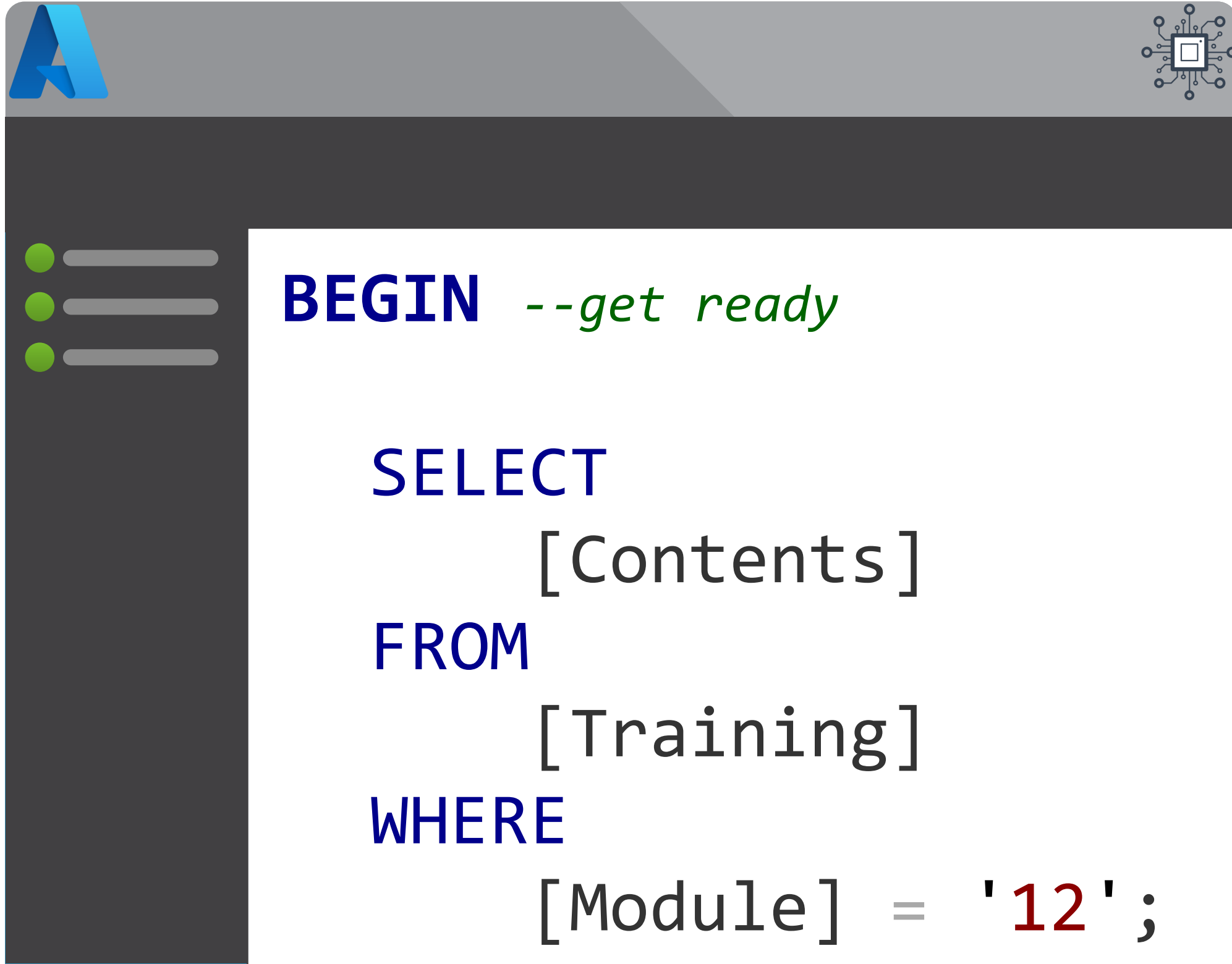


# Module 12

## Final Thoughts

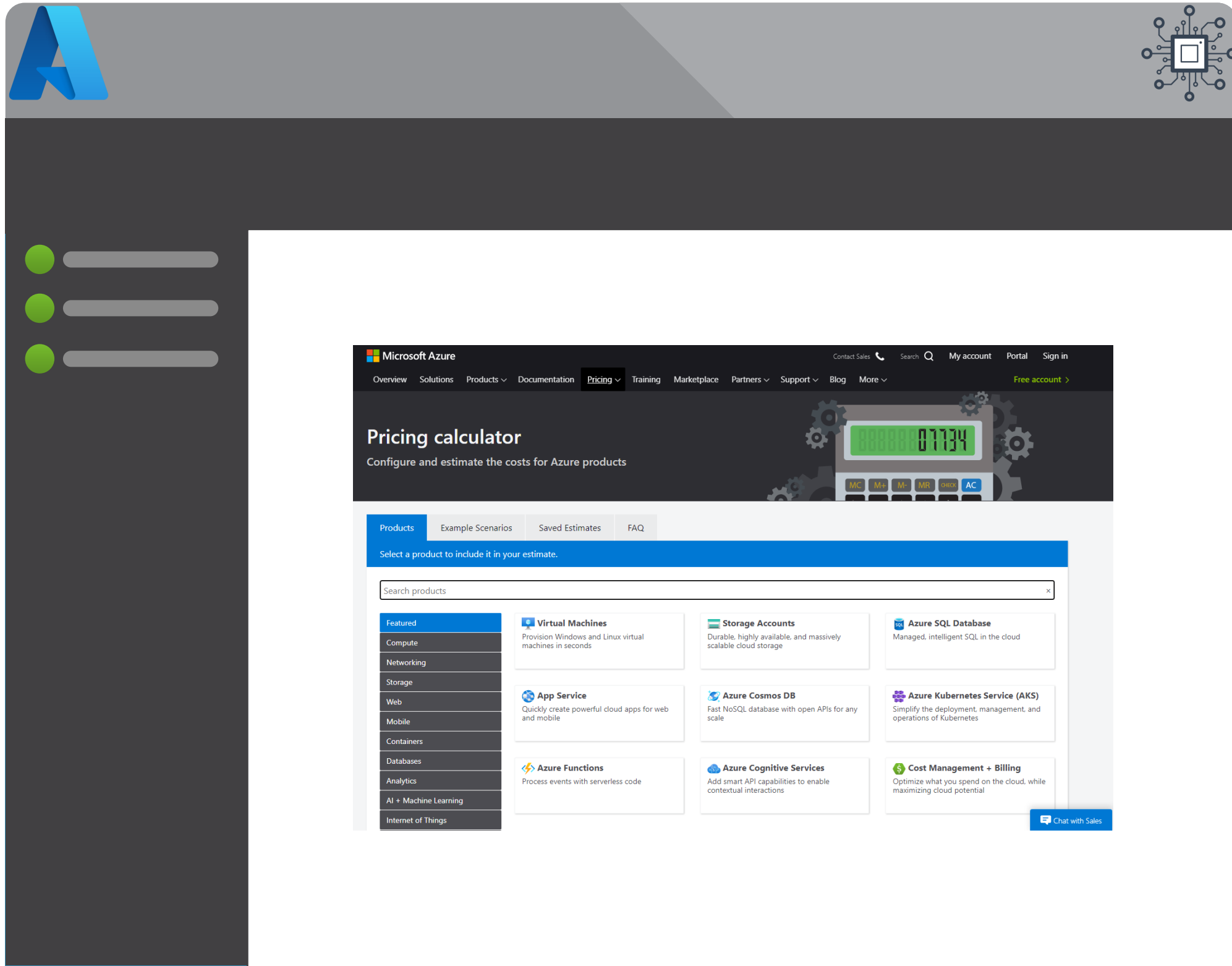


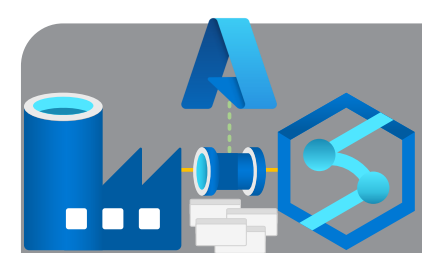
- Running Costs
- Best Practices
- Conclusions

# Module 12

## Final Thoughts

- Running Costs
- Best Practices
- Conclusions





# Azure Price Calculator – Data Factory



Microsoft Azure

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## Pricing calculator

Configure and estimate the costs for Azure products

Products Example Scenarios Saved Estimates FAQ

Select a product to include it in your estimate.

Featured

Compute

Networking

Storage

Web

Mobile

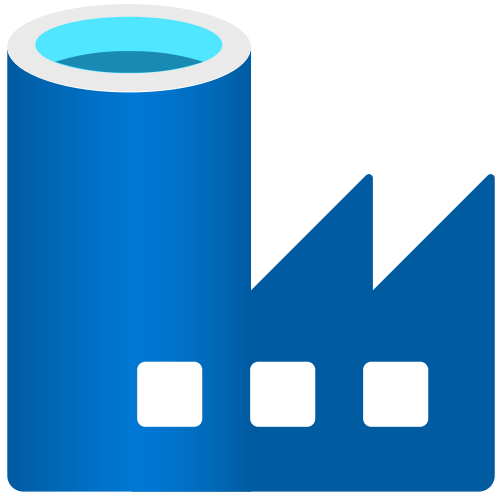
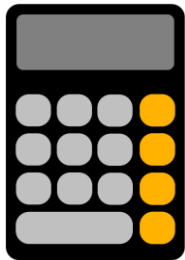
Containers

Databases

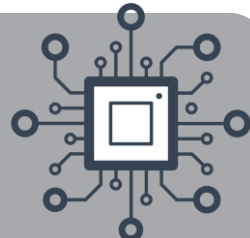
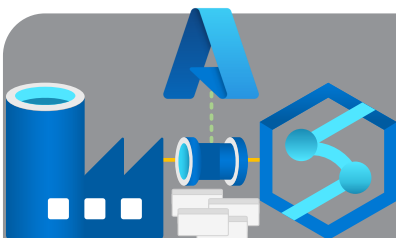
Analytics

AI + Machine Learning

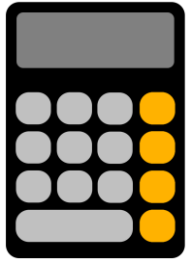


Internet of Things

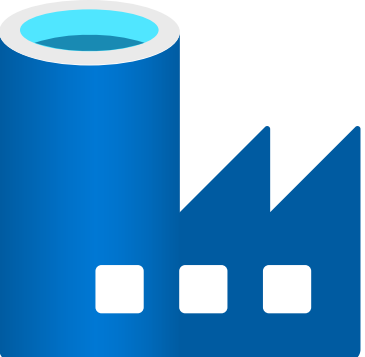

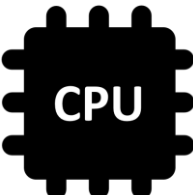


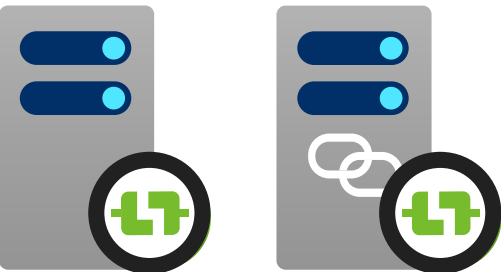
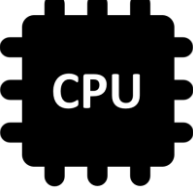


 X  = £ ???


Chat with Sales





Based on 1 Hour Running



	Activity Runs	Data Handling Compute per Hour	Pipeline Activity Execution Duration per Hour	
<div> Azure IR</div>	<div>x1000</div> <div>£0.75</div>	<div> CPU</div> <div>£0.19</div>	<div> Int.</div> <div>£0.004</div>	<div> Ext.</div> <div>£0.00019</div>
<div> Hosted IR</div>	<div>x1000</div> <div>£1.12</div>	<div> CPU</div> <div>£0.07</div>	<div> Int.</div> <div>£0.001</div>	<div> Ext.</div> <div>£0.0001</div>

 Copy A to B

 Delete File

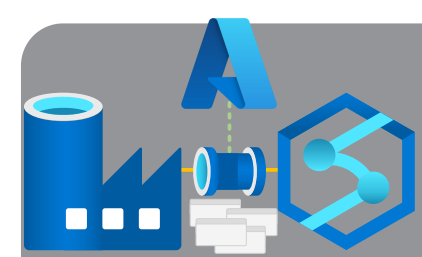
 Run Function

£2.13 per Month

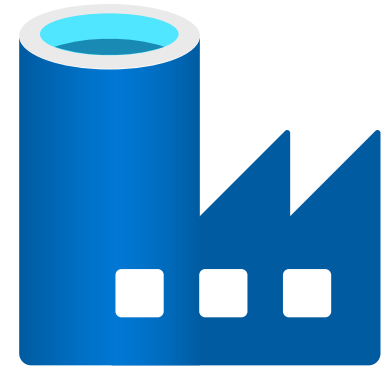
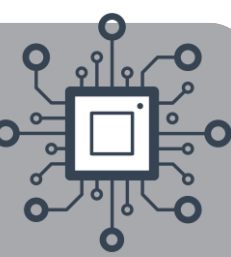
\* Prices quoted for UK South Azure Region charged in Pounds Sterling (£) captured on 26<sup>th</sup> Feb 2022.

	Number of Compute Cores	Number of VM Instances	VM Uptime Per Hour	SQL Server Licence Type	
Data Flows				N/A	<div> <div> 8x Cores General Purpose 8 Hours a day £426.30 per Month </div> </div>
SSIS IR				<ul style="list-style-type: none"> <li>Standard</li> <li>Enterprise</li> </ul>	<div> <div> 8x Cores Standard 8 Hours a day £443.97 per Month </div> </div>

\* Prices quoted for UK South Azure Region charged in Pounds Sterling (£) captured on 26<sup>th</sup> Feb 2022.

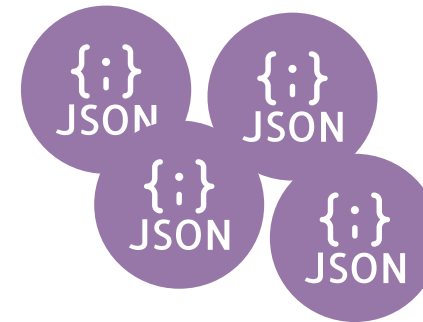


# Data Factory Pricing – Operations



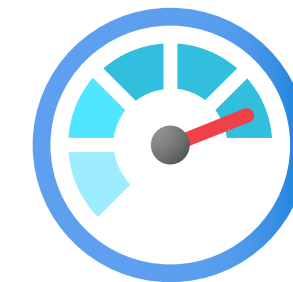
Operations

Entity  
Read/Write

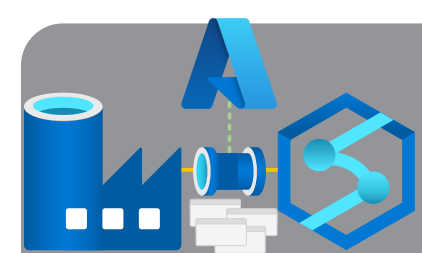


Per 50,000 = £0.37

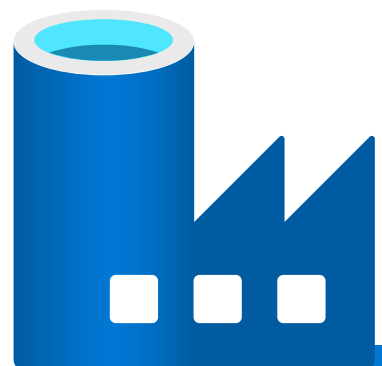
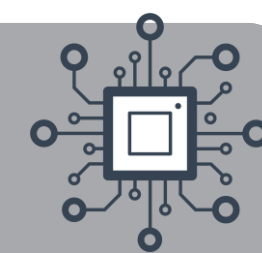
Monitoring



Per 50,000 = £0.19



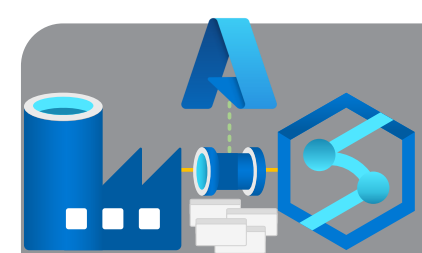
# How Much Does My Pipeline Cost?



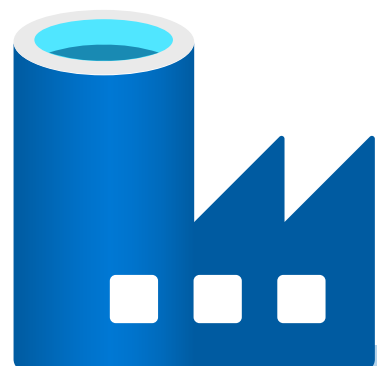
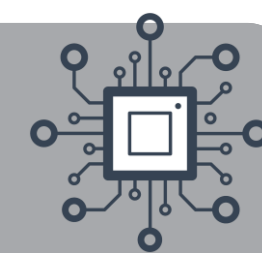
## Consumption

Microsoft Azure   Data Factory   FrameworkFactory						
<div>&gt;&gt;</div> <div>Dashboards</div> <div>Runs</div> <div>Pipeline runs</div> <div>Trigger runs</div> <div>Runtimes &amp; sessions</div> <div>Integration runtimes</div> <div>Data flow debug</div> <div>Notifications</div> <div>Alerts &amp; metrics</div>	Pipeline runs					
	Triggered Debug Rerun Cancel Refresh Edit columns List Gantt					
	Search by run ID or name Local time : Last 24 hours Status : All Runs : Latest runs Add filter					
	Showing 1 - 19 items					
	<input type="checkbox"/>	Pipeline name	Run start ↑↓	Run end	Duration	Triggered by Status Parameters
	<input type="checkbox"/>	03-Child	9/26/20, 8:31:00 PM	9/26/20, 8:31:04 PM	00:00:04	2647c753-3099-4442-b7 ✓ Succeeded [📎]
	<input type="checkbox"/>	Wait 8	9/26/20, 8:29:53 PM	9/26/20, 8:30:03 PM	00:00:09	Manual trigger ✓ Succeeded [📎]
	<input type="checkbox"/>	04-Infant	9/26/20, 8:29:46 PM	9/26/20, 8:30:50 PM	00:01:04	c283b771-c589-4667-8e ✓ Succeeded [📎]
	<input type="checkbox"/>	03-Child	9/26/20, 8:29:41 PM	9/26/20, 8:30:52 PM	00:01:10	69615837-3077-4f05-8b ✓ Succeeded [📎]
	<input type="checkbox"/>	Wait 7	9/26/20, 8:28:40 PM	9/26/20, 8:28:44 PM	00:00:04	Manual trigger ✓ Succeeded [📎]
	<input type="checkbox"/>	Wait 4	9/26/20, 8:28:38 PM	9/26/20, 8:28:40 PM	00:00:01	Manual trigger ✓ Succeeded [📎]
	<input type="checkbox"/>	04-Infant	9/26/20, 8:28:32 PM	9/26/20, 8:29:09 PM	00:00:36	e4d9a228-ad1b-4ac6-b8 ✓ Succeeded [📎]
	<input type="checkbox"/>	04-Infant	9/26/20, 8:28:32 PM	9/26/20, 8:29:31 PM	00:00:58	89dacd6c-9e08-473e-a0 ✓ Succeeded [📎]
	<input type="checkbox"/>	03-Child	9/26/20, 8:28:19 PM	9/26/20, 8:29:33 PM	00:01:14	6d8ad6c6-d97e-4a85-93 ✓ Succeeded [📎]
	<input type="checkbox"/>	Wait 1	9/26/20, 8:27:02 PM	9/26/20, 8:27:05 PM	00:00:02	Manual trigger ✓ Succeeded [📎]





# How Much Does My Pipeline Cost?



Microsoft Azure | Data Factory | FrameworkFactory

**Pipeline runs**

Triggered Debug Rerun Cancel Refresh Edit columns List Gantt

Search by run ID or name Local time: Last 24 hours Status: All Runs: Latest runs Add filter

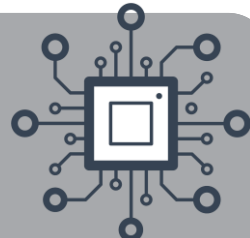
Showing 1 - 19 items

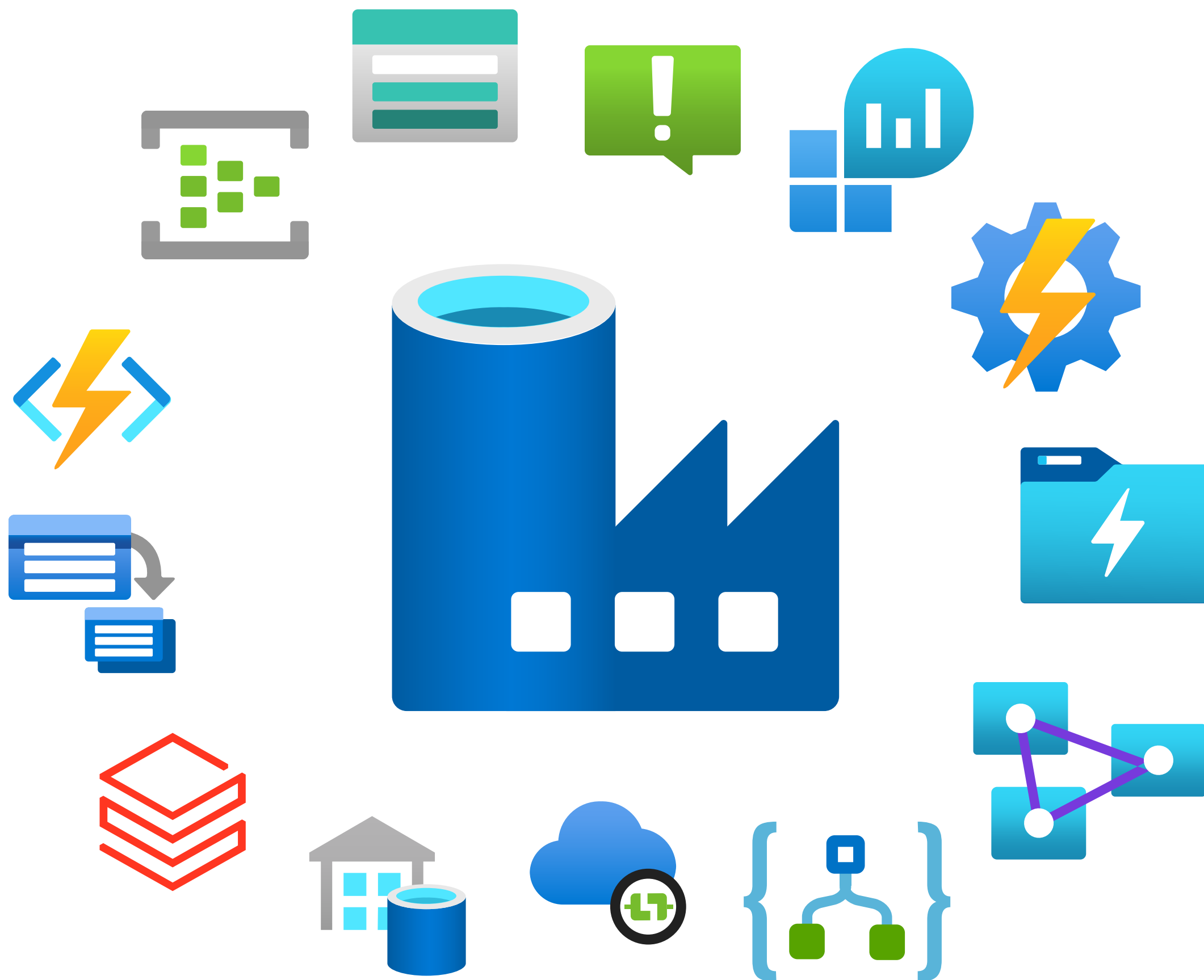
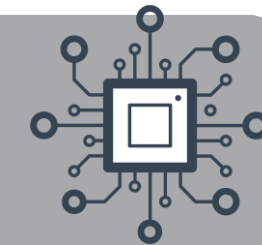
<input type="checkbox"/> Pipeline name	Run status	Run start	Run end	Run duration	Run cost	Run status	Parameters
<input type="checkbox"/> 03-Child		9/26/20					
<input type="checkbox"/> Wait 8		9/26/20					
<input type="checkbox"/> 04-Infant		9/26/20					
<input type="checkbox"/> 03-Child		9/26/20					
<input type="checkbox"/> Wait 7		9/26/20					
<input type="checkbox"/> Wait 4		9/26/20					
<input type="checkbox"/> 04-Infant		9/26/20					
<input type="checkbox"/> 04-Infant		9/26/20					
<input type="checkbox"/> 03-Child		9/26/20, 8:28:19 PM	9/26/20, 8:29:33 PM	00:01:14	6d8ad6c6-d97e-4a85-93	✓ Succeeded	@
<input type="checkbox"/> Wait 1		9/26/20, 8:27:02 PM	9/26/20, 8:27:05 PM	00:00:02		✓ Succeeded	@

**Pipeline run consumption**

	Quantity	Unit
<b>Pipeline orchestration</b>		
Activity Runs	24	Activity runs
<b>Pipeline execution</b>		
<b>Azure integration runtime</b>		
Data movement activities	0.0000	DIU-hour
Pipeline activities	0.0833	Execution hours
External activities	0.1000	Execution hours

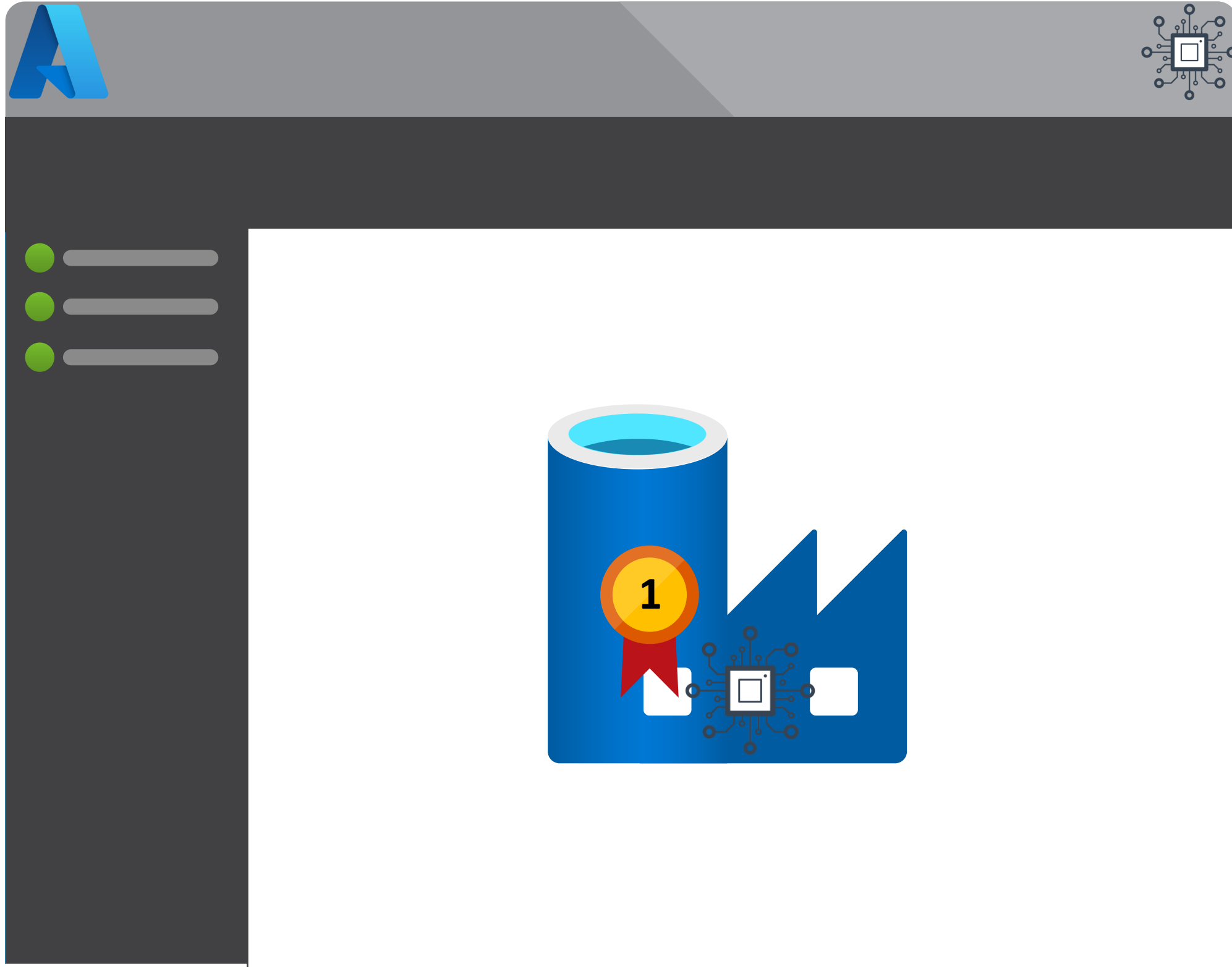
[Learn more](#) [Pricing calculator](#)



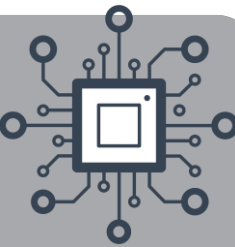


# Module 12

## Final Thoughts



- Running Costs
- Best Practices
- Conclusions



Environment Setup & Developer Debugging

Deployments

Automated Testing

Naming Conventions

Pipeline Hierarchies

Pipeline & Activity Descriptions

Factory Component Folders

Linked Service Security via Azure Key Vault

Dynamic Linked Services

Generic Datasets

Metadata Driven Processing

Parallel Execution

Hosted Integration Runtimes

Azure Integration Runtimes

Wider Platform Orchestration

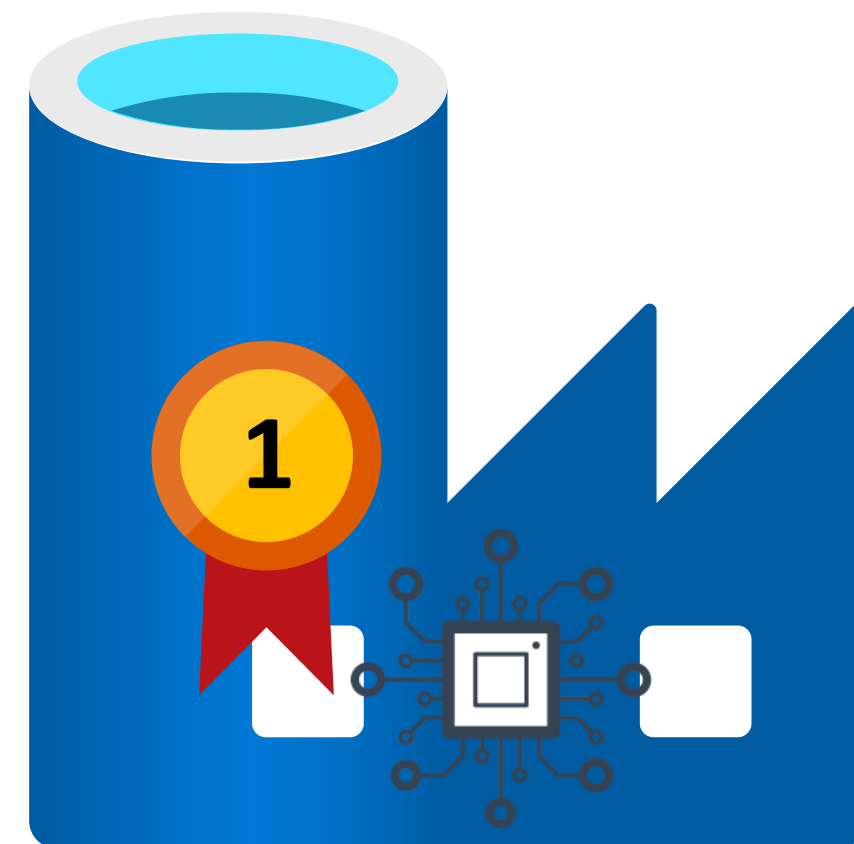
Custom Error Handler Paths

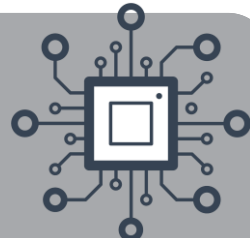
Monitoring via Log Analytics

Service Limitations

Using Pipeline Templates

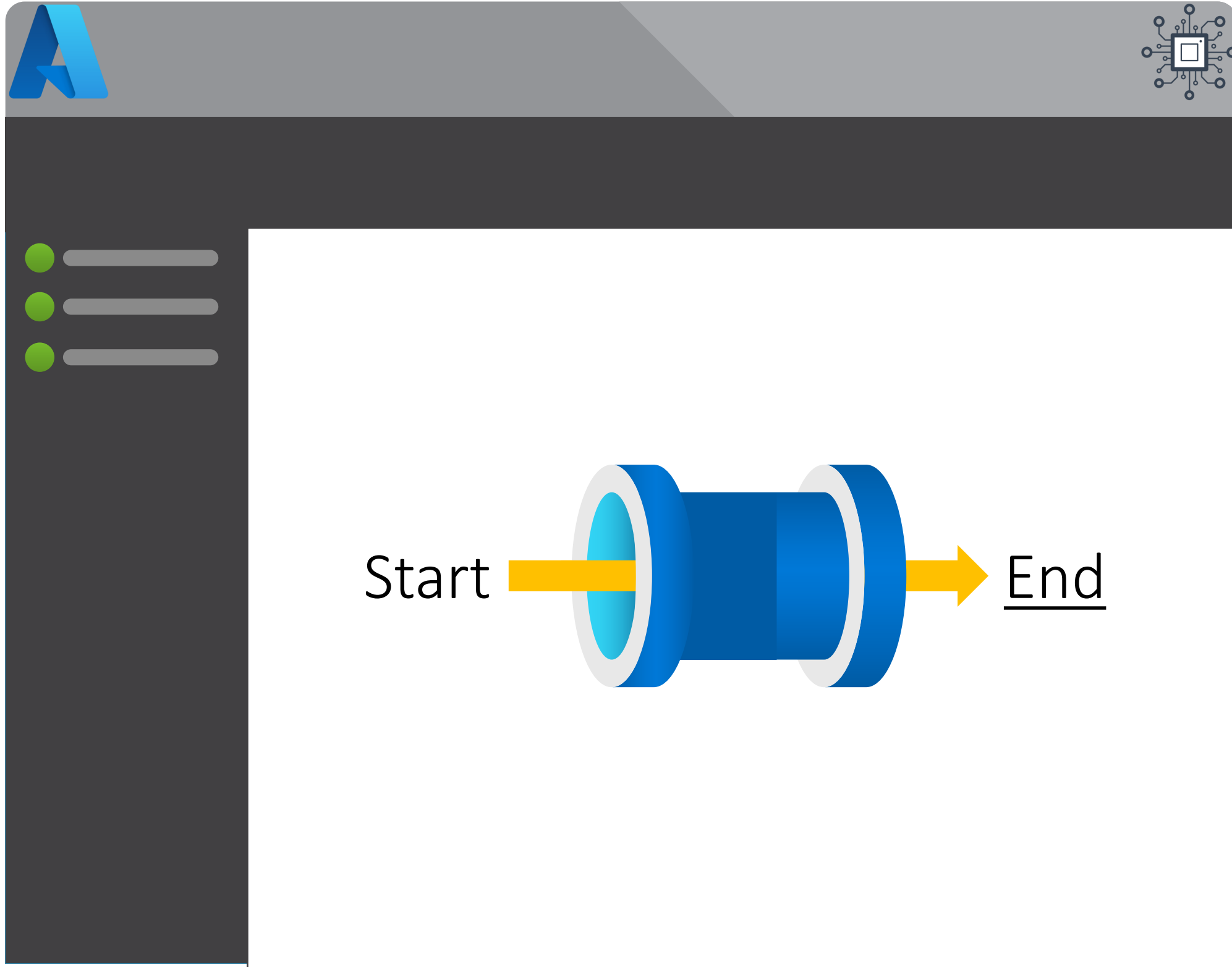
Documentation



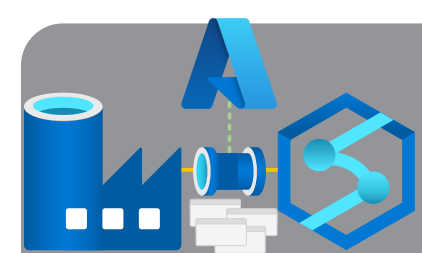


# Module 12

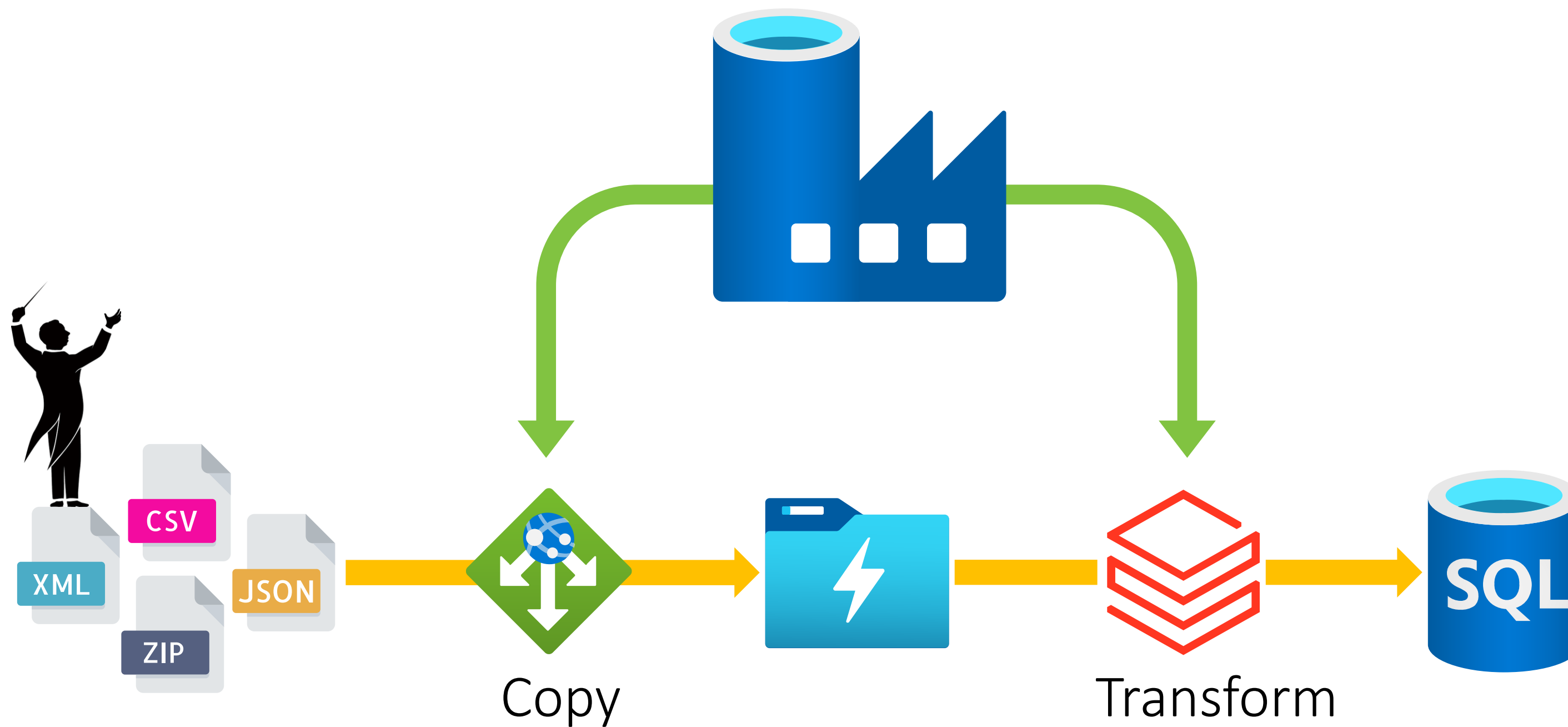
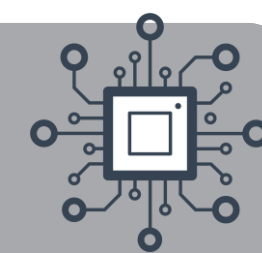
## Final Thoughts



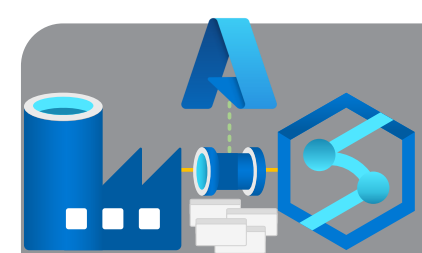
- Running Costs
- Best Practices
- Conclusions



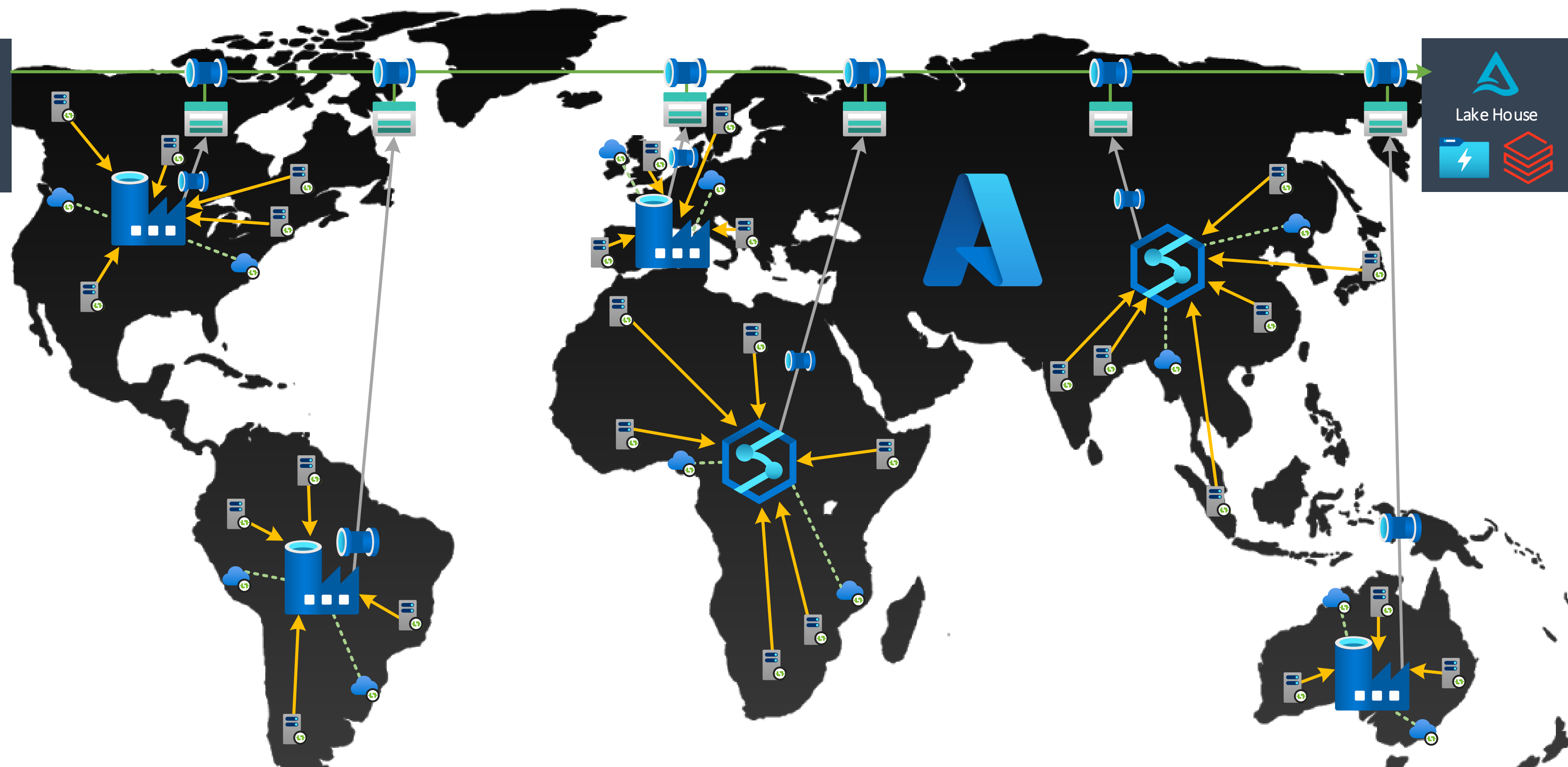
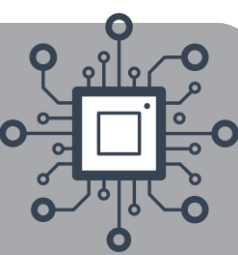
# What is Azure Data Factory (ADF)?

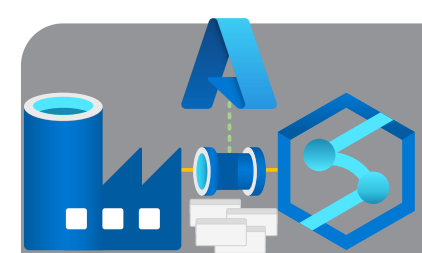




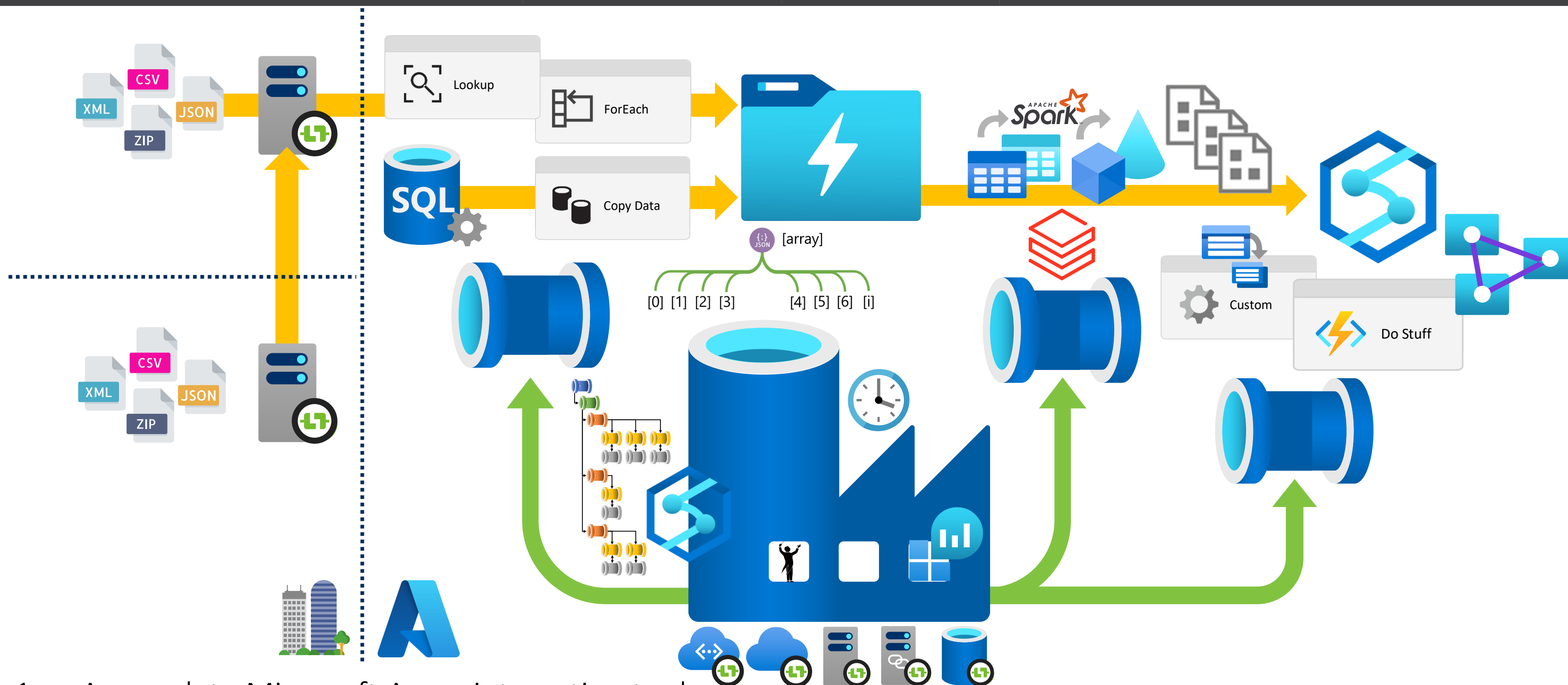


# Exploring Data Factory at Enterprise Scale





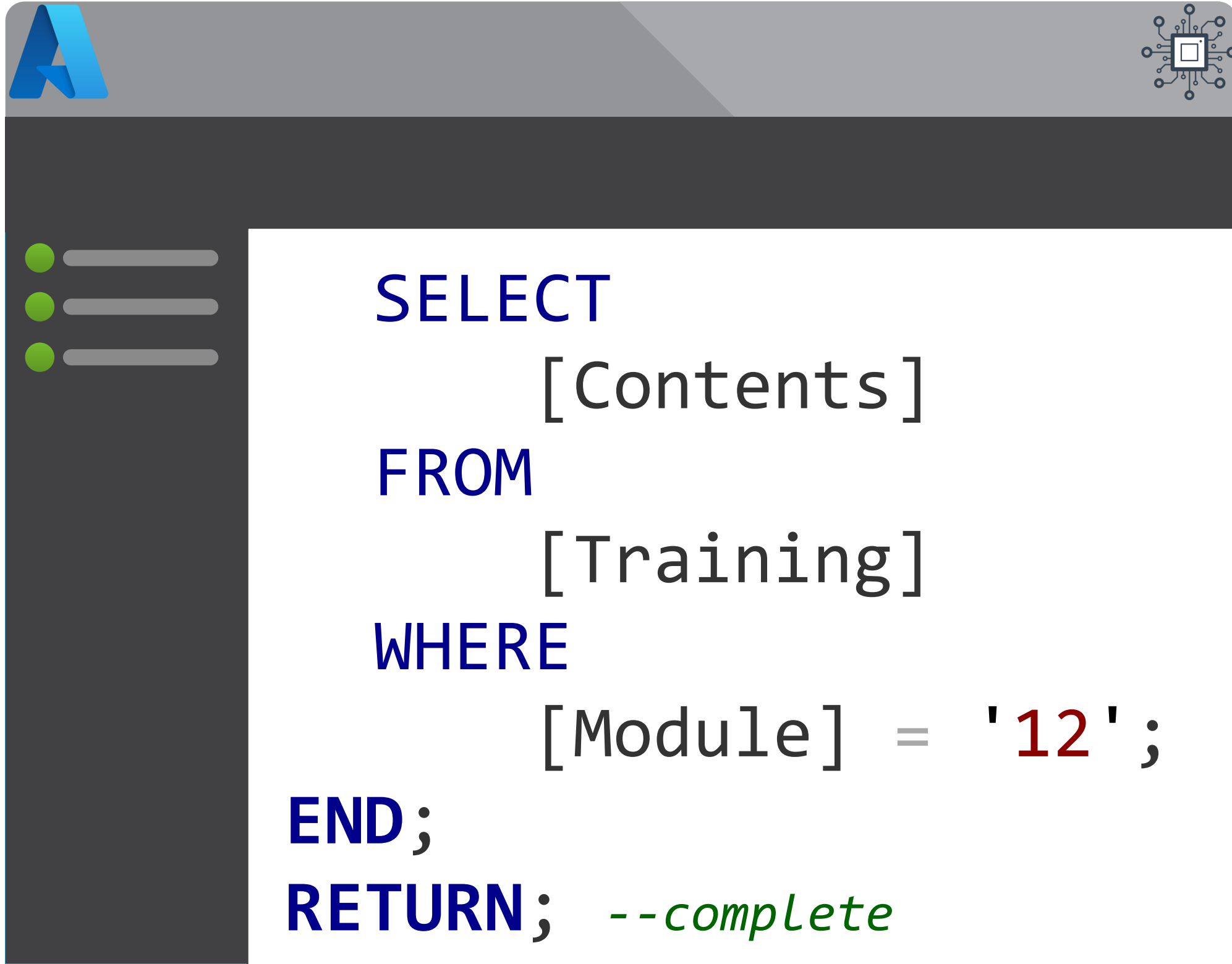
# What are Azure Data Factory Integration Pipelines?



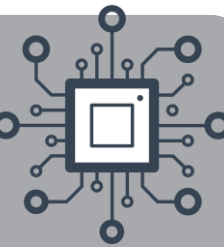
1. A complete Microsoft Azure integration tool.
2. Orchestrator of our Control Flow operations – with scale out Activities.
3. Orchestrator of our Data Flow transformations – using cloud native services.
4. The scheduler of solutions – using a variety of Pipeline Triggers and dynamic frameworks.

# Module 12

## Final Thoughts



- Running Costs
- Best Practices
- Conclusions



# Thank you for listening...

Paul Andrew



Mr Paul Andrew  
Consulting Ltd

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Twitter: [@mrpaulandrew](https://twitter.com/mrpaulandrew)  
LinkedIn: [In/mrpaulandrew](https://www.linkedin.com/company/mrpaulandrew)

GitHub: [github.com/mrpaulandrew](https://github.com/mrpaulandrew)

