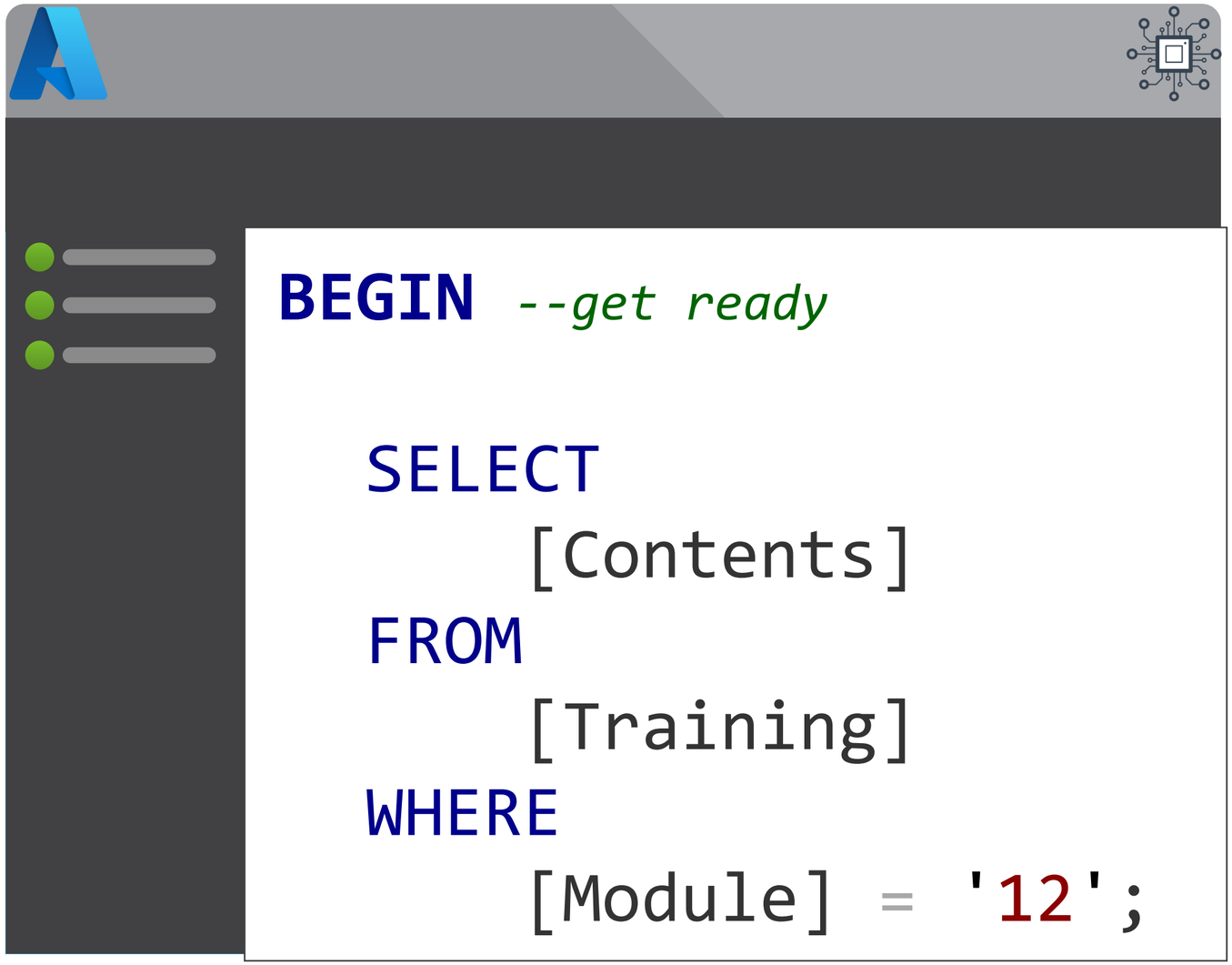
Module 12

Final Thoughts



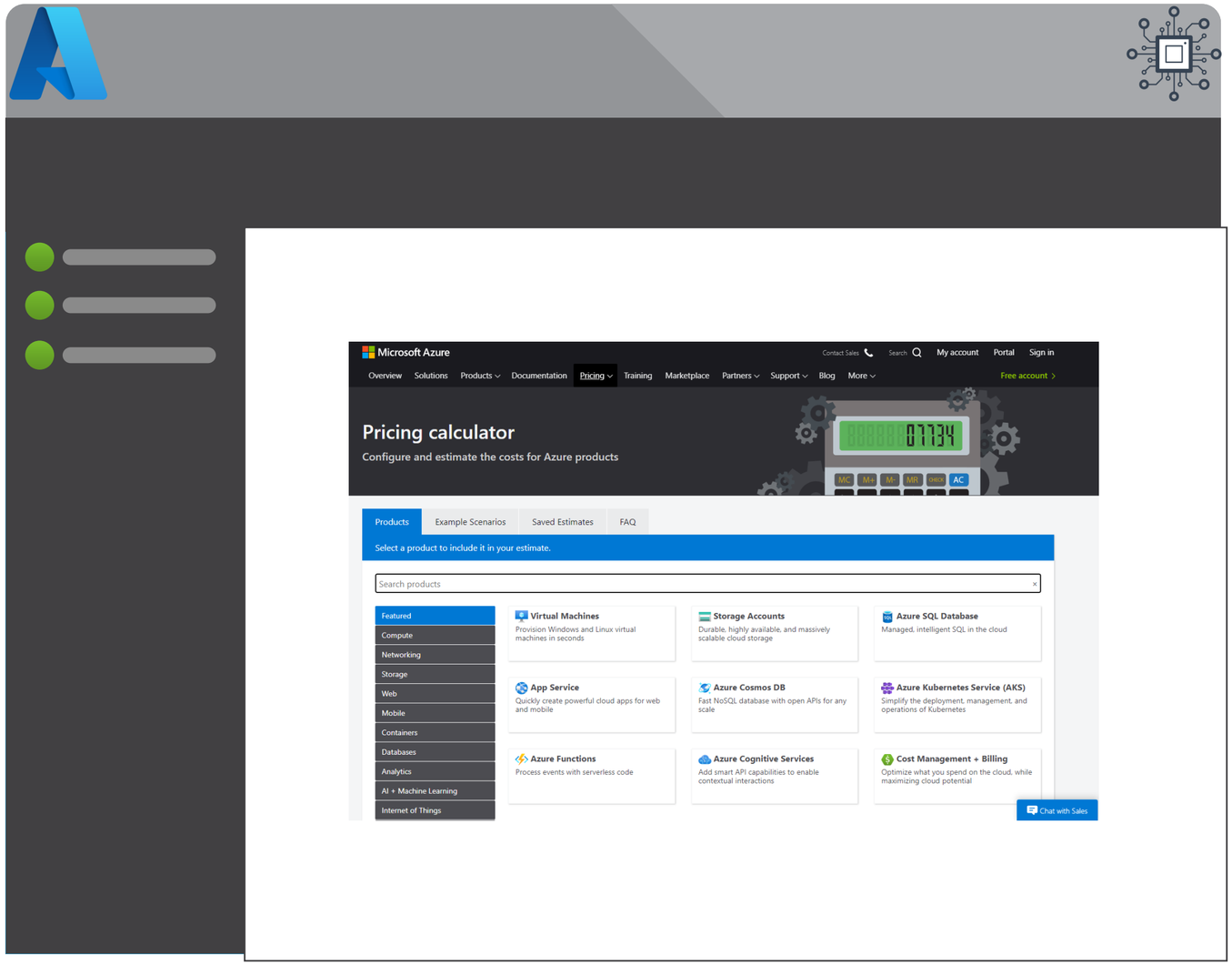
```
BEGIN --get ready

   SELECT
        [Contents]
   FROM
        [Training]
   WHERE
        [Module] = '12';
```

- Running Costs
- Best Practices
- Conclusions

Module 12

Final Thoughts



- Running Costs
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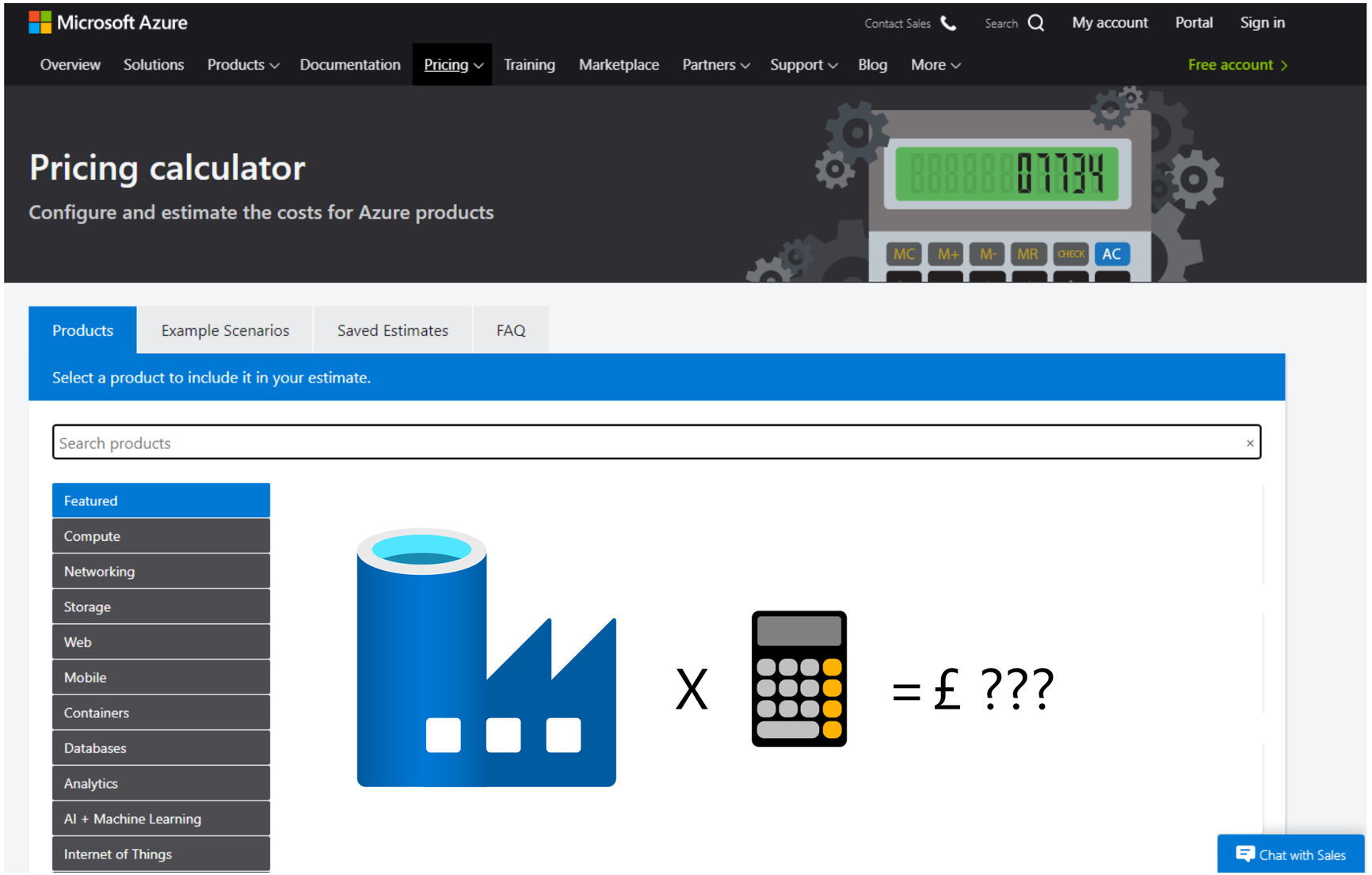
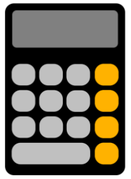
Azure Price Calculator – Data Factory



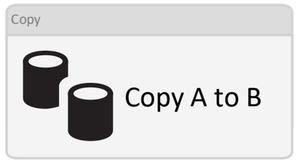
https://azure.microsoft.com/en-us/pricing/calculator/

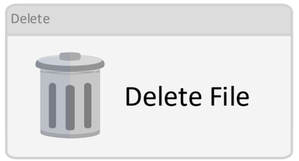


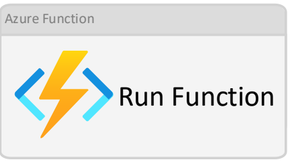
Data Factory Pricing – IR Type

Based on 1 Hour Running

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







£2.13 per Month

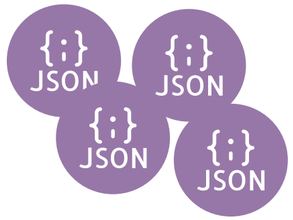
* Prices quoted for UK South Azure Region charged in Pounds Sterling (£) captured on 26th Feb 2022.

Data Factory Pricing – Data Flow & SSIS Compute

	Number of Compute Cores	Number of VM Instances	VM Uptime Per Hour	SQL Server Licence Type	
Data Flows	CPU CPU			N/A	8x Cores General Purpose 8 Hours a day £426.30 per Month
SSIS IR	CPU CPU	SQL SQL		• Standard • Enterprise	8x Cores Standard 8 Hours a day £443.97 per Month

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

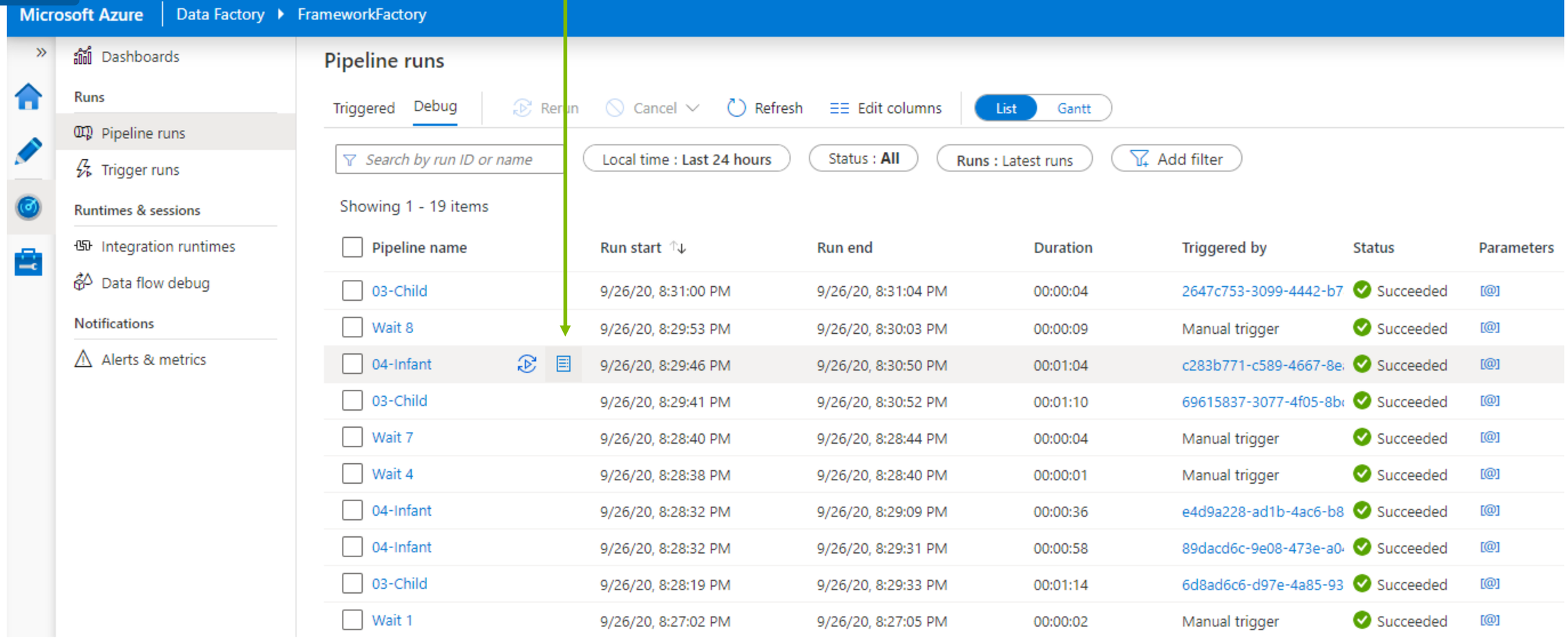
Data Factory Pricing – Operations

	Entity Read/Write	Monitoring
Operations		
	Per 50,000 = £0.37	Per 50,000 = £0.19

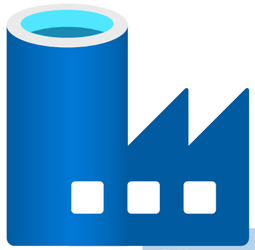
* Prices quoted for UK South Azure Region charged in Pounds Sterling (£) captured on 26th Feb 2022.

How Much Does My Pipeline Cost?

Consumption



How Much Does My Pipeline Cost?



Microsoft Azure | Data Factory ▸ FrameworkFactory

- Dashboards
- Runs
  - Pipeline runs
  - Trigger runs
- Runtimes & sessions
  - Integration runtimes
  - Data flow debug
- Notifications
  - Alerts & metrics

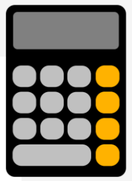
Pipeline runs

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

Pipeline name	Run start	Run end	Duration	Run ID	Status	Parameters
03-Child	9/26/20			99-4442-b7	Succeeded	[@]
Wait 8	9/26/20			er	Succeeded	[@]
04-Infant	9/26/20			89-4667-8e	Succeeded	[@]
03-Child	9/26/20			77-4f05-8b	Succeeded	[@]
Wait 7	9/26/20			er	Succeeded	[@]
Wait 4	9/26/20			er	Succeeded	[@]
04-Infant	9/26/20			1b-4ac6-b8	Succeeded	[@]
04-Infant	9/26/20			08-473e-a0	Succeeded	[@]
03-Child	9/26/20, 8:28:19 PM	9/26/20, 8:29:33 PM	00:01:14	6d8ad6c6-d97e-4a85-93	Succeeded	[@]
Wait 1	9/26/20, 8:27:02 PM	9/26/20, 8:27:05 PM	00:00:02	Manual trigger	Succeeded	[@]



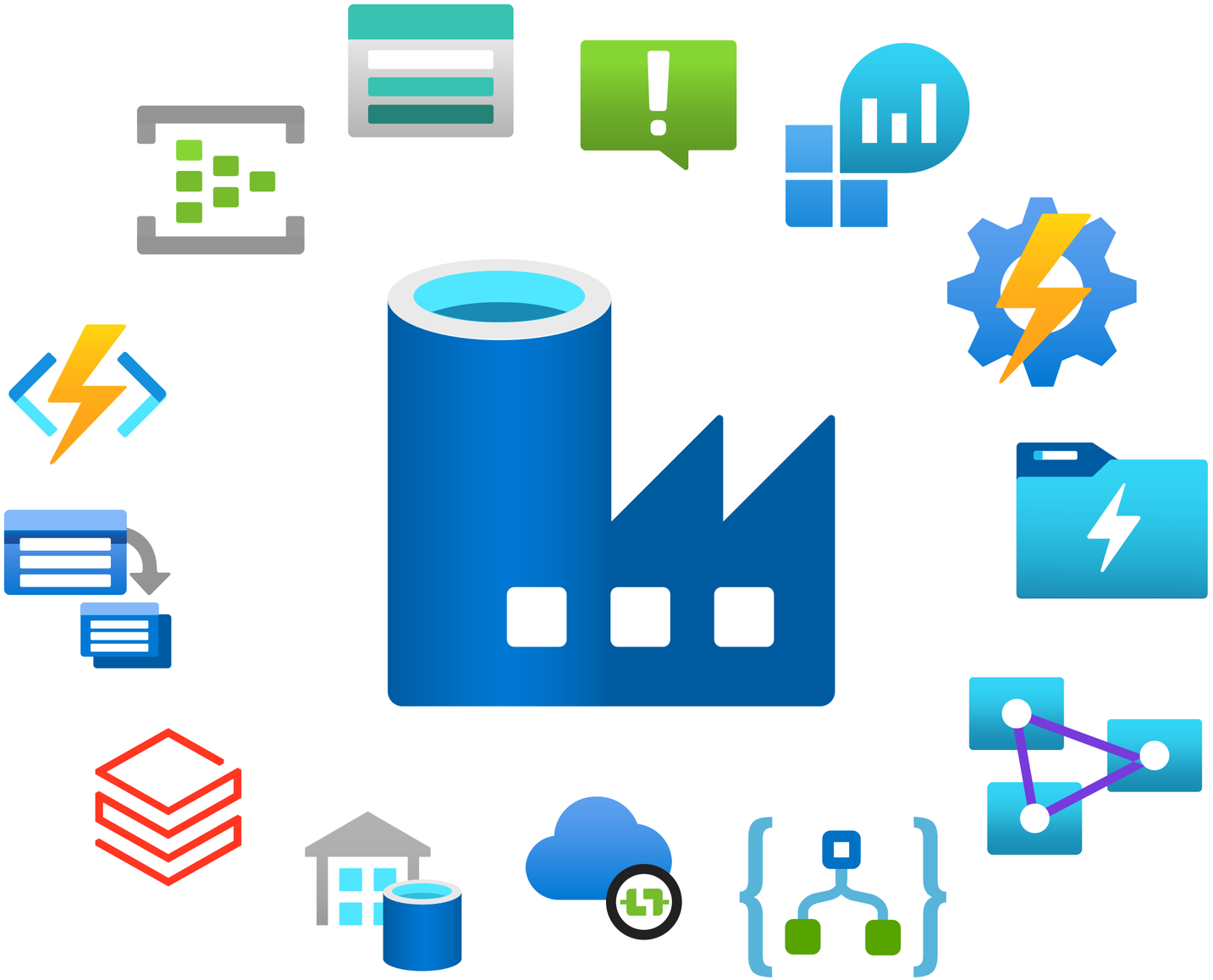
Pipeline run consumption

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

Learn more

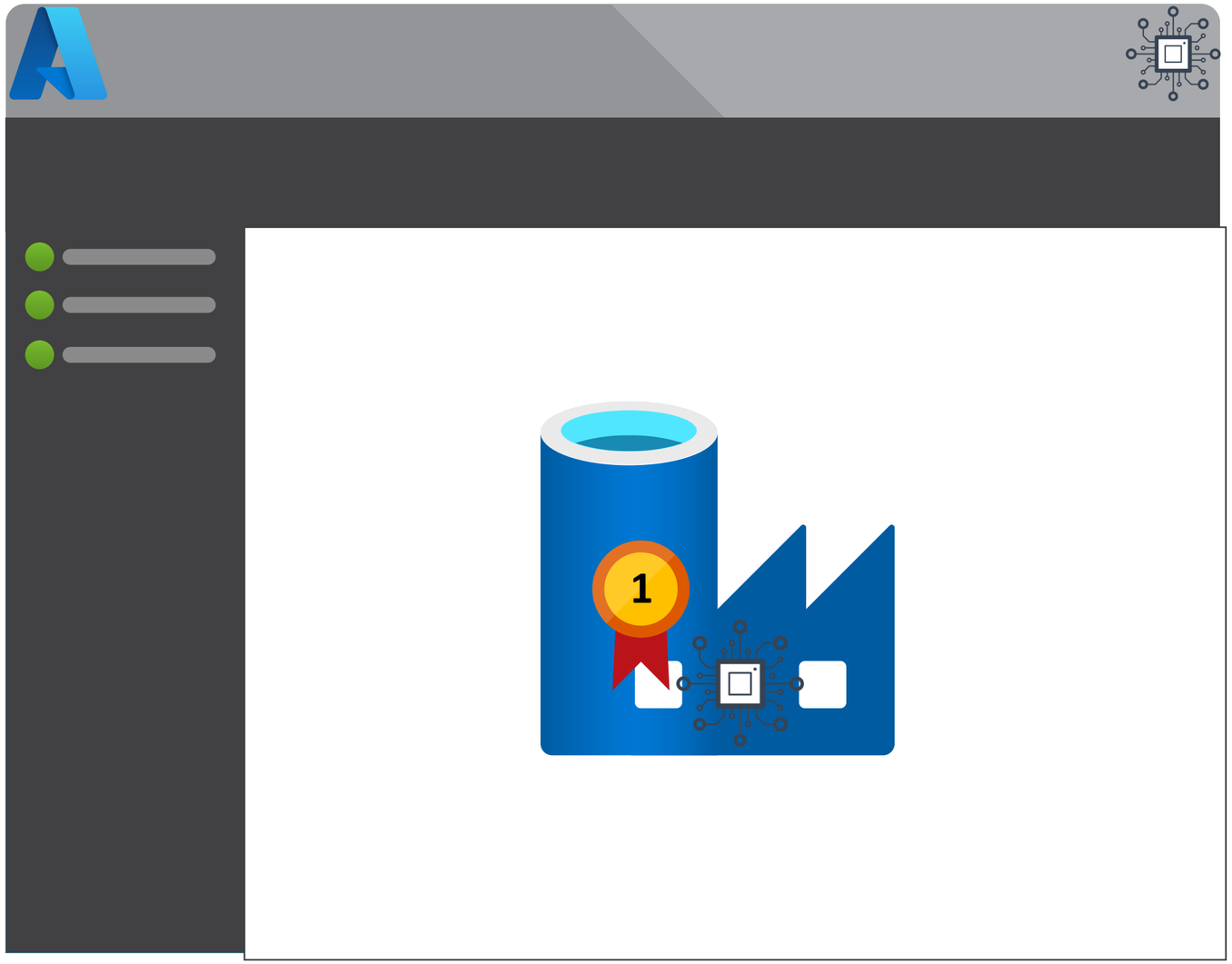
Pricing calculator

How Much Does My Data Platform Solution Cost?



Module 12

Final Thoughts



- Running Costs
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Key Points

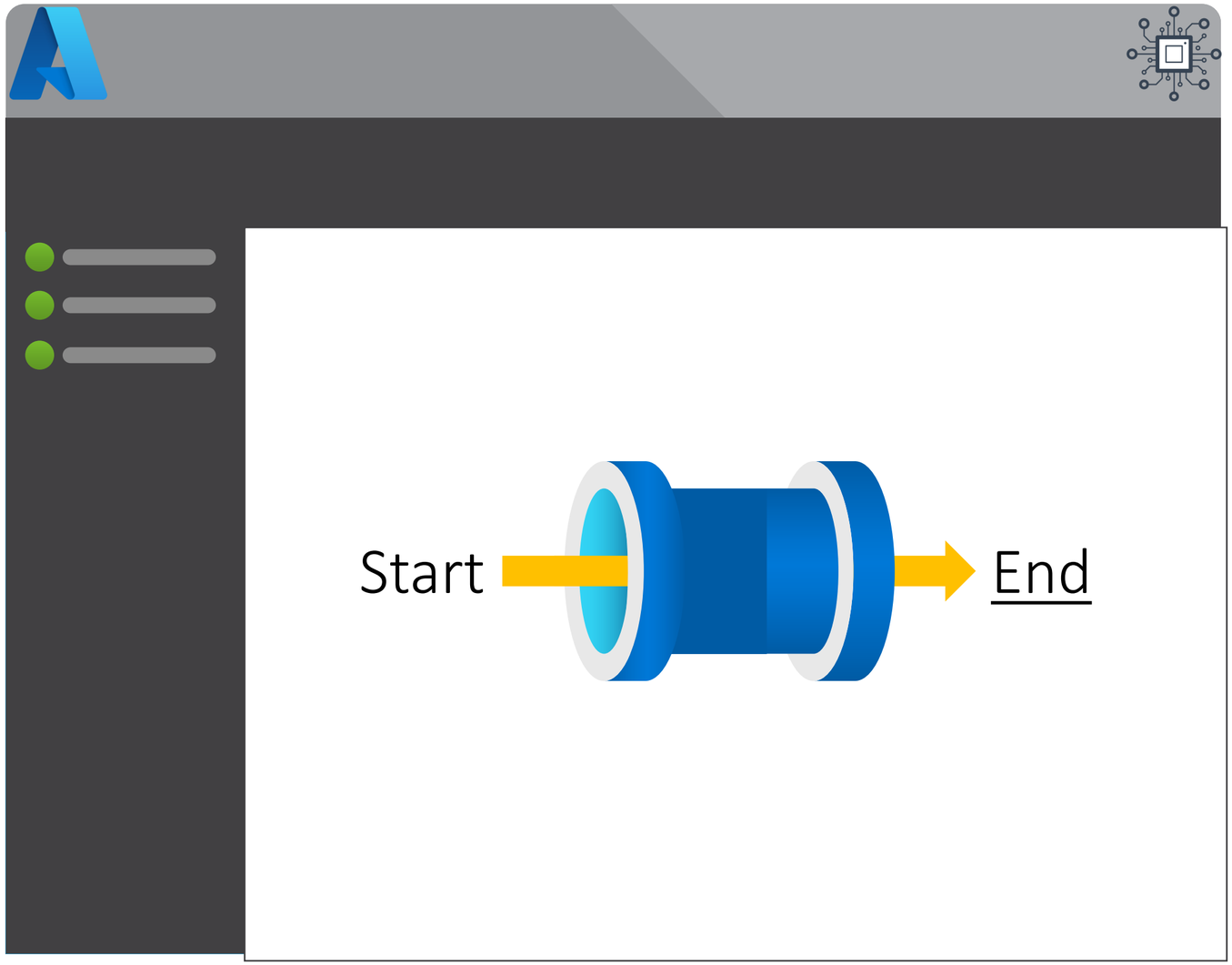
- Environment Setup & Developer Debugging
- Deployments
- Automated Testing
- Naming Conventions
- Pipeline Hierarchies
- Pipeline & Activity Descriptions
- Factory Component Folders
- Linked Service Security via Azure Key Vault
- Dynamic Linked Services
- Generic Datasets
- Metadata Driven Processing
- 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

mrpaulandrew.com/2019/12/18/best-practices-for-implementing-azure-data-factory/

Demo

Module 12

Final Thoughts



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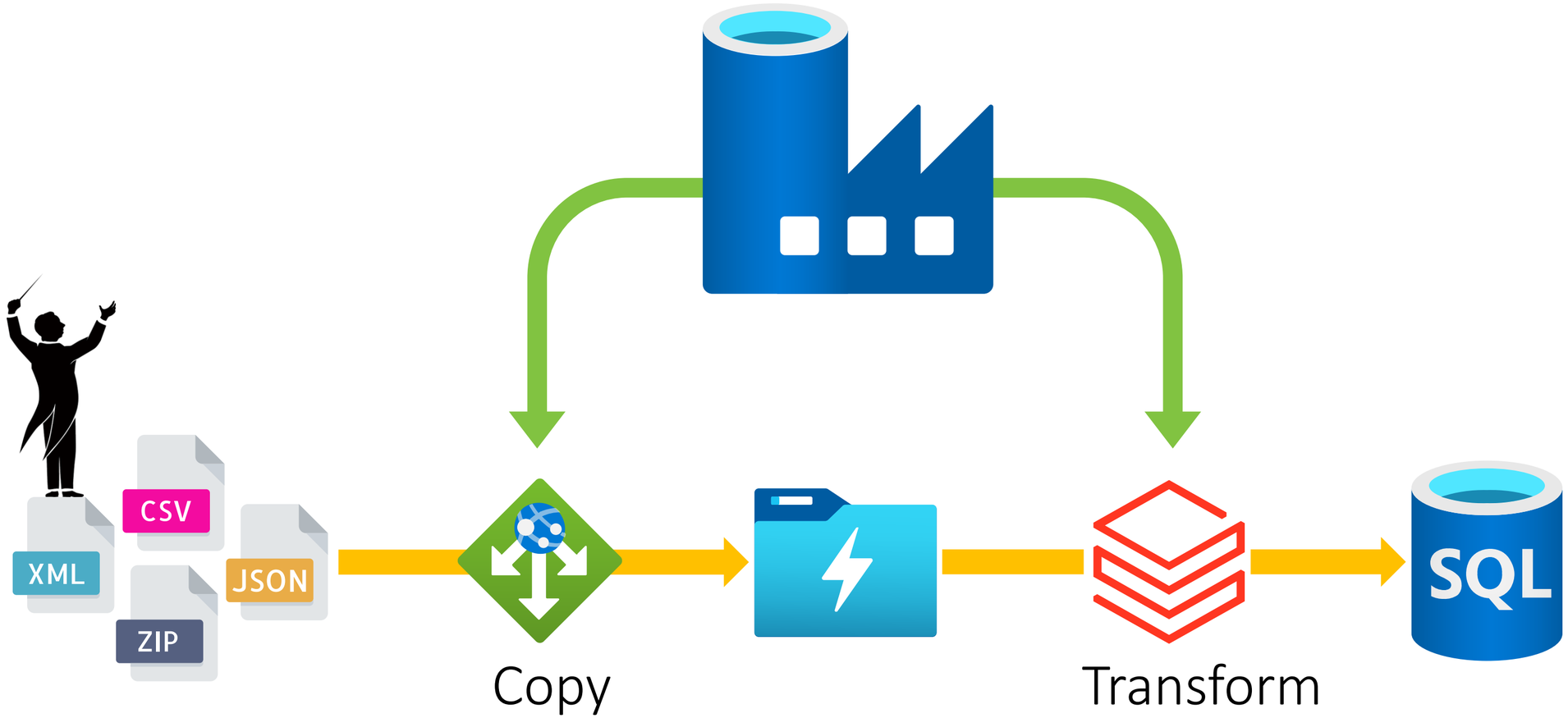
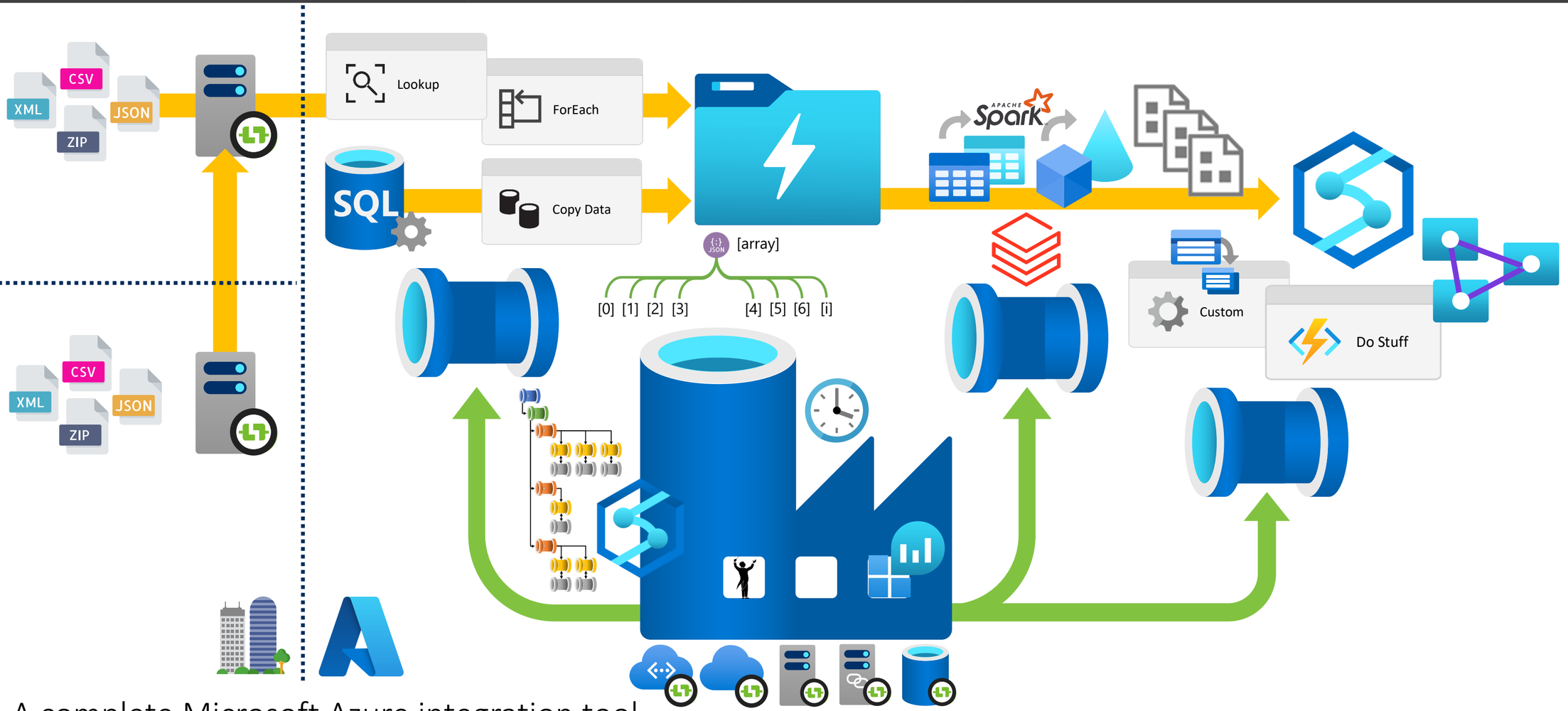
What is Azure Data Factory (ADF)?

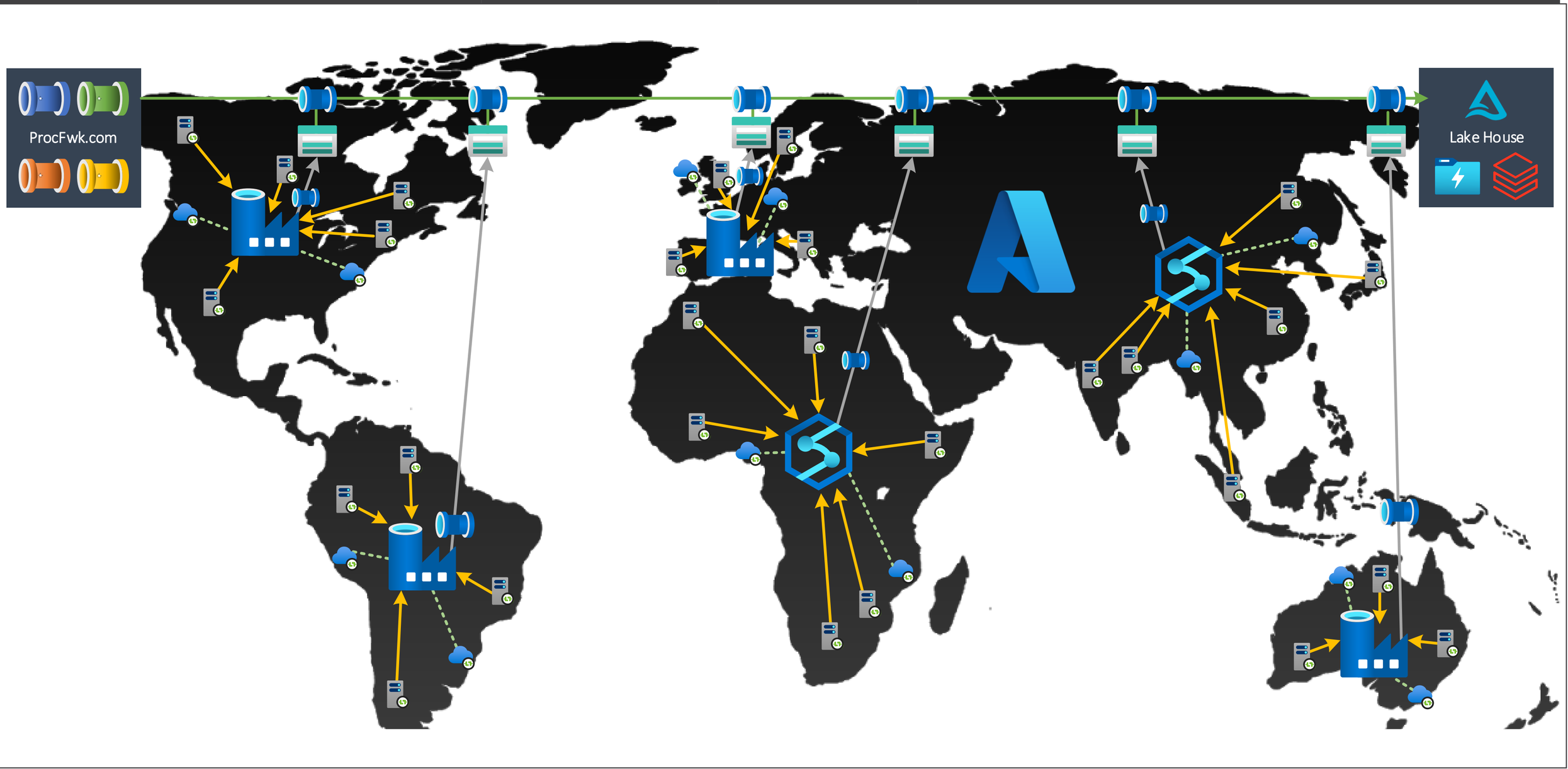


What are Azure ~~Data Factory~~ Integration Pipelines?



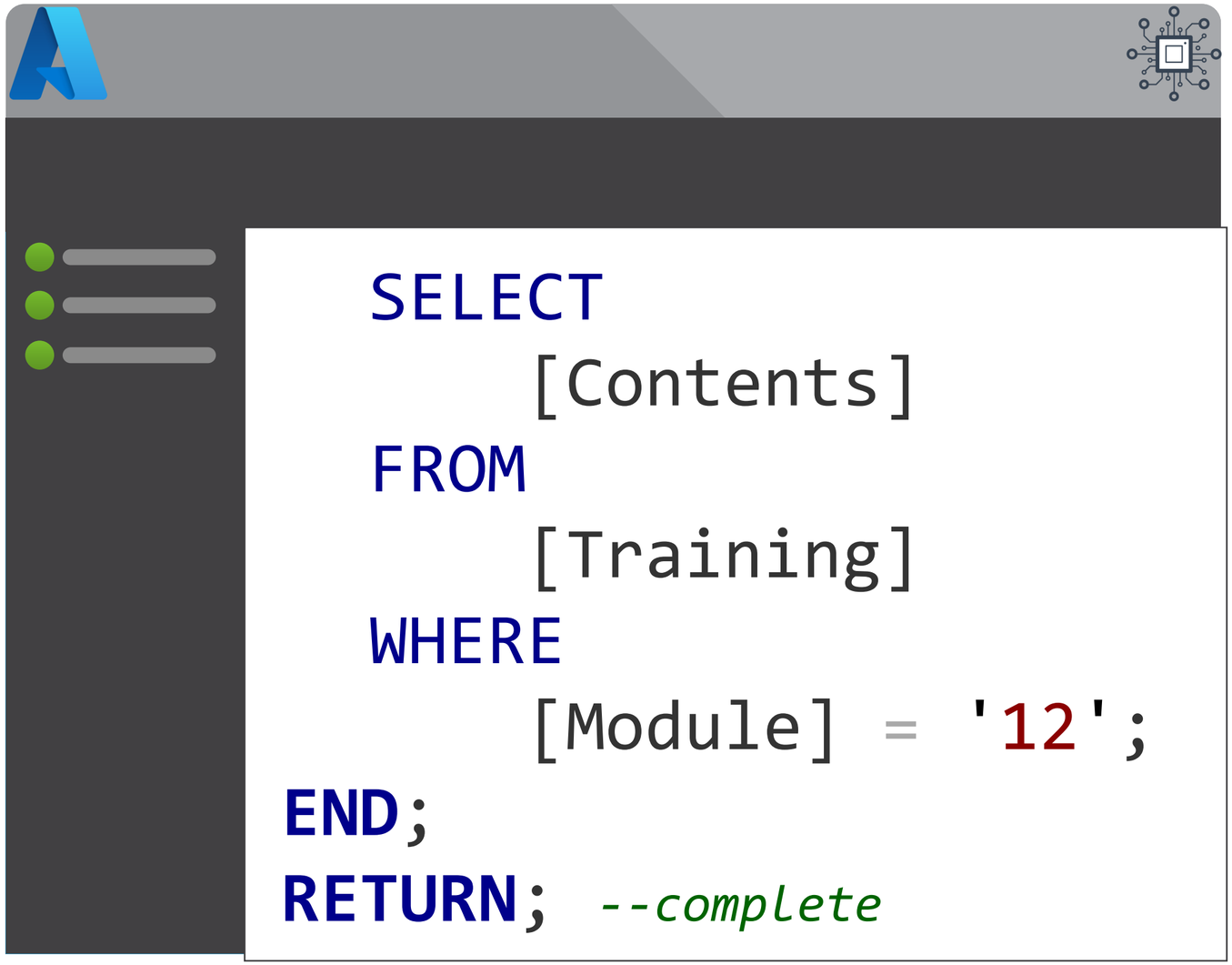
1. A complete Microsoft Azure integration tool.
2. Orchestrator of our Control Flow operations – with scale out Activities.
3. Orchestrator of our Data Flow transformations – using cloud native services.
4. The scheduler of solutions – using a variety of Pipeline Triggers and dynamic frameworks.

Exploring Data Factory at Enterprise Scale



Module 12

Final Thoughts



```
    SELECT
        [Contents]
    FROM
        [Training]
    WHERE
        [Module] = '12';
END;
RETURN; --complete
```

- Running Costs
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Thank you for listening…

Paul Andrew

Microsoft® Most Valuable Professional

avanade

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