



Module 7: Pricing & Limitations

- Cost
 - Activities
 - Data Integration Units
 - Data Flow Compute
 - Wider Platform Orchestration
- Resource Limitations

Cost



Azure Price Calculator

Microsoft Azure

Overview Solutions Products Documentation **Pricing** Training Marketplace Partners Support Blog More

Contact Sales Search My account Portal Sign in

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.

Search products

- Featured**
- Compute
- Networking
- Storage
- Web
- Mobile
- Containers
- Databases
- Analytics
- AI + Machine Learning
- Internet of Things

Virtual Machines
Provision Windows and Linux virtual machines in seconds

Storage Accounts
Durable, highly available, and massively scalable cloud storage

Azure SQL Database
Managed, intelligent SQL in the cloud

App Service
Quickly create powerful cloud apps for web and mobile

Azure Cosmos DB
Fast NoSQL database with open APIs for any scale

Azure Kubernetes Service (AKS)
Simplify the deployment, management, and operations of Kubernetes

Azure Functions
Process events with serverless code

Azure Cognitive Services
Add smart API capabilities to enable contextual interactions

Cost Management + Billing
Optimize what you spend on the cloud, while maximizing cloud potential

Chat with Sales

Azure Price Calculator – Data Factory

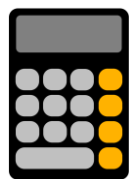
The screenshot shows the Microsoft Azure Pricing Calculator web application. At the top, the Microsoft Azure logo is on the left, and navigation links for 'Contact Sales', 'Search', 'My account', 'Portal', and 'Sign in' are on the right. Below this is a secondary navigation bar with links for 'Overview', 'Solutions', 'Products', 'Documentation', 'Pricing' (which is highlighted), 'Training', 'Marketplace', 'Partners', 'Support', 'Blog', and 'More'. A 'Free account' link is also present.

The main heading is 'Pricing calculator' with the subtitle 'Configure and estimate the costs for Azure products'. Below this is a tabbed interface with 'Products', 'Example Scenarios', 'Saved Estimates', and 'FAQ'. The 'Products' tab is active, showing a blue bar with the text 'Select a product to include it in your estimate.' and a search box labeled 'Search products'.

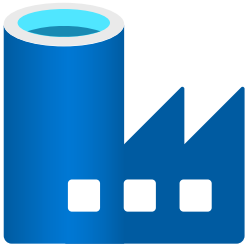
On the left side of the product selection area is a vertical list of categories: 'Featured' (highlighted), 'Compute', 'Networking', 'Storage', 'Web', 'Mobile', 'Containers', 'Databases', 'Analytics', 'AI + Machine Learning', and 'Internet of Things'.



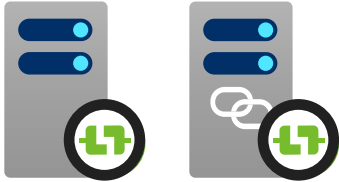
The main content area displays a visual equation: a blue icon of a factory (representing Data Factory) followed by a multiplication sign 'X', a calculator icon, an equals sign '=', and the text '£ ???'. This visualizes the calculation of the cost for the selected product.

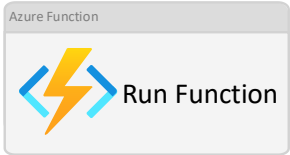
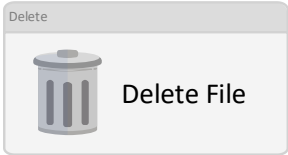
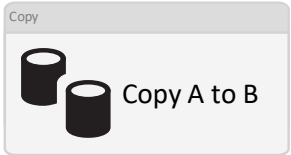
In the bottom right corner, there is a blue button labeled 'Chat with Sales'.



Data Factory Pricing – IR Type



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

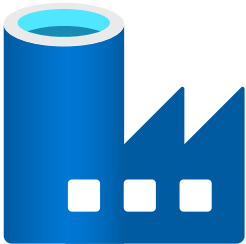

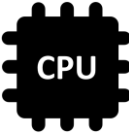
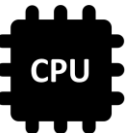




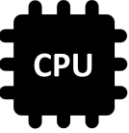
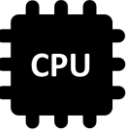






* Prices quoted for UK South Azure Region charged in Pounds Sterling (£) on 27th Sept 2020.

£2.13 per Month

Data Factory Pricing – Data Flow & SSIS Compute

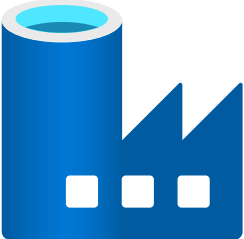

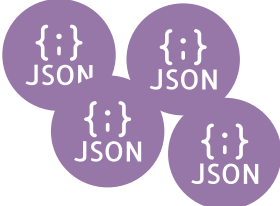



		Number of Compute Cores	Number of VM Instances	VM Uptime Per Hour	SQL Server Licence Type	
	Data Flows	 	 		N/A	8x Cores General Purpose 8 Hours a day £823.54 per Month
	SSIS IR	 	 		 <ul style="list-style-type: none">• Standard• Enterprise	8x Cores Standard 8 Hours a day £693.32 per Month

* Prices quoted for UK South Azure Region charged in Pounds Sterling (£) on 27th Sept 2020.

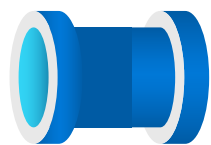
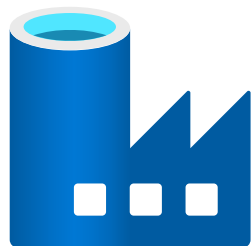
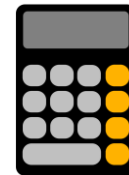
Data Factory Pricing – Operations



		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 (£) on 27th Sept 2020.

Data Factory Pricing – Inactive Pipelines

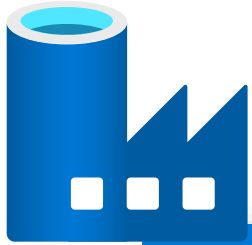


Inactive Pipelines

"A pipeline is considered inactive if it has no associated trigger or any runs within the month.
An inactive pipeline is charged at £0.597 per month."

<https://azure.microsoft.com/en-gb/pricing/details/data-factory/data-pipeline/>

How Much Does My Pipeline Cost?



Consumption

Microsoft Azure | Data Factory | FrameworkFactory

Pipeline runs

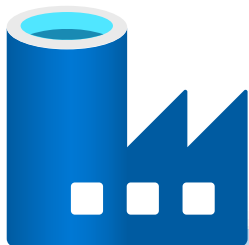
Triggered Debug Rerun Cancel Refresh Edit columns List Gantt

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 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

»

Dashboards

Home

Runs

Pencil

Pipeline runs

Lightning bolt

Trigger runs

Gears

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 sta

☐

03-Child

9/26/20

☐

Wait 8

9/26/20

☐

04-Infant

9/26/20

☐

03-Child

9/26/20

☐

Wait 7

9/26/20

☐

Wait 4

9/26/20

☐

04-Infant

9/26/20

☐

04-Infant

9/26/20

☐

03-Child

9/26/20, 8:28:19 PM

☐

Wait 1

9/26/20, 8:27:02 PM

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

99-4442-b7

✓ Succeeded

@

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✓ Succeeded

@

89-4667-8e

✓ Succeeded

@

77-4f05-8b

✓ Succeeded

@

er

✓ Succeeded

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✓ Succeeded

@

1b-4ac6-b8

✓ Succeeded

@

08-473e-a0

✓ Succeeded

@

6d8ad6c6-d97e-4a85-93

✓ Succeeded

@

00:01:14

6d8ad6c6-d97e-4a85-93

✓ Succeeded

@

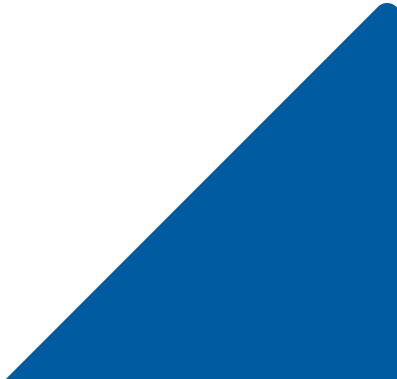
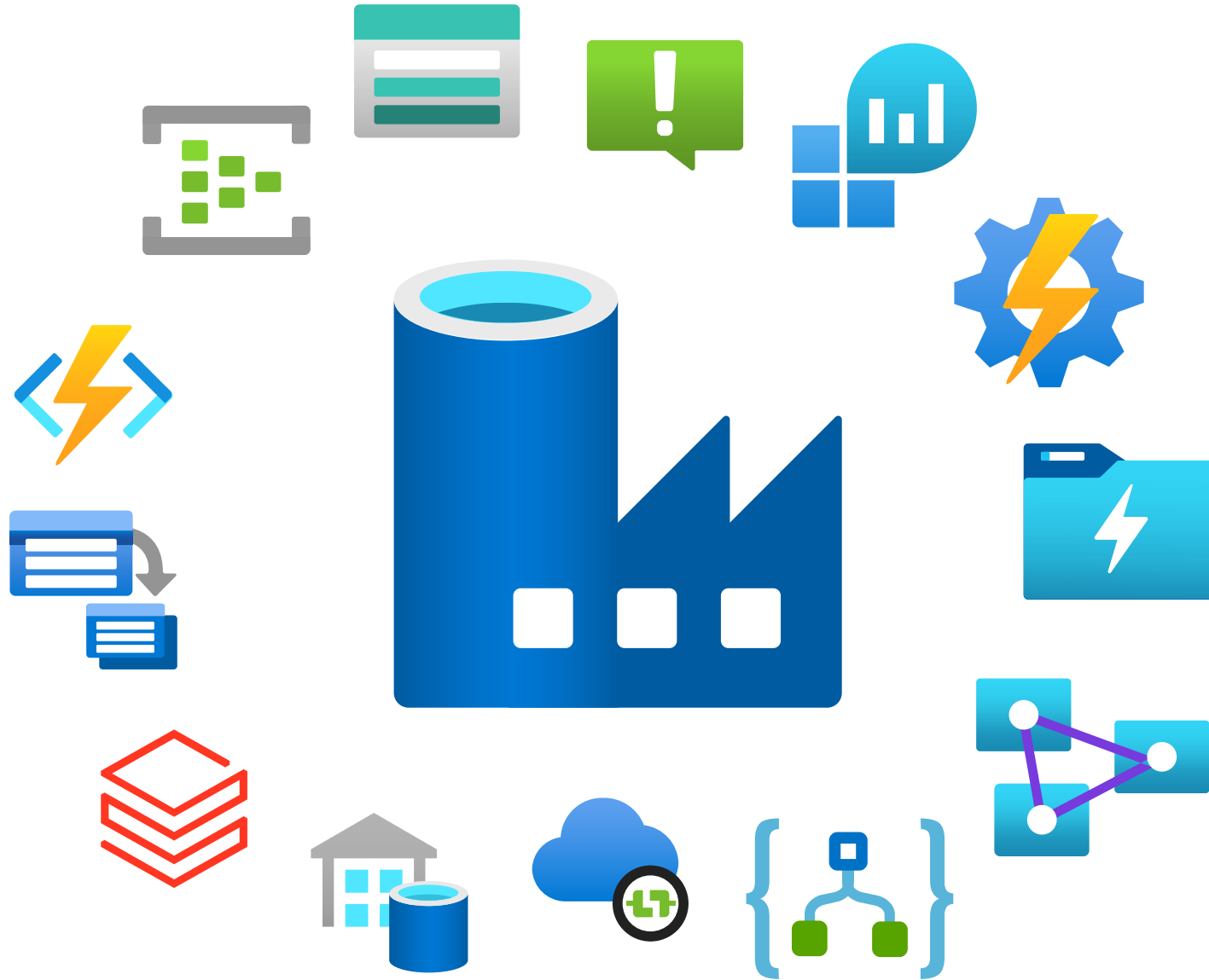
00:00:02

Manual trigger


✓ Succeeded

@

How Much Does My Data Platform Solution Cost?



Resource Limitations

A large, solid blue shape that starts as a diagonal line from the bottom left and extends towards the top right, forming a triangular area that fills the right side of the slide.

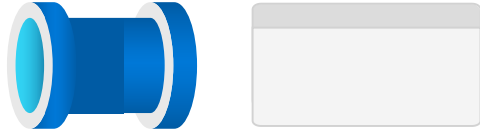
Data Factory Limitations

SELECT

CEILING()



50 Data Factory Instances per Subscription



40 Activities per Data Factory Pipeline



3 Active Data Flow Debug Sessions per Data Factory



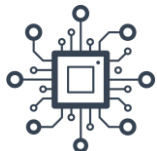
5,000 Rows of Data Returned per Lookup (No Error if More)



Minimum Tumbling Window Trigger – 15mins



4min Client Response Timeout Using Azure Functions Activity



mrpaulandrew.com/2020/01/29/azure-data-factory-resource-limitations/

Module 7: Pricing & Limitations

Cost



- Data Integration Units

- Data Flow Compute

- Wider Platform Orchestration

Resource Limitations

