









Module 6: Factories in Production



- Monitoring
 - Security
 - Costing
 - DevOps
- 

Alerting & Monitoring

A large, solid blue triangle is positioned in the bottom right corner of the slide, pointing towards the top right.

 Dashboards  Pipeline Runs  Trigger Runs  Integration Runtimes  Alerts & Metrics













 Run  Cancel options  Refresh

 **Last 24 Hours** 06/05/2019 2:41 PM - 06/06/2019 2:41 PM 



 **Time Zone** (UTC+00:00) Dublin, Edinburgh, Li... 



 Hide All Rerun History

All Succeeded In Progress Queued Failed Cancelled

<input type="checkbox"/>	Pipeline Name 	Actions	Run Start 	Duration	Triggered By	Status	Parameter
	CopyPipeline_e7i	  	06/06/2019, 2:31:56 PM	00:00:11	Manual trigger	 Succeeded	
	CopyPipeline_e7i	 	06/06/2019, 2:26:03 PM	00:00:09	Manual trigger	 Succeeded	
	CopyPipeline_e7i	 	06/06/2019, 10:17:31 AM	00:00:09	Manual trigger	 Succeeded	

 Refresh

 **Last 24 Hours** 06/05/2019 2:41 PM - 06/06/2019 2:41 PM 

 **Time Zone** (UTC+00:00) Dublin, Edinburgh, Li... 

Pipeline



SUCCEEDED RUNS

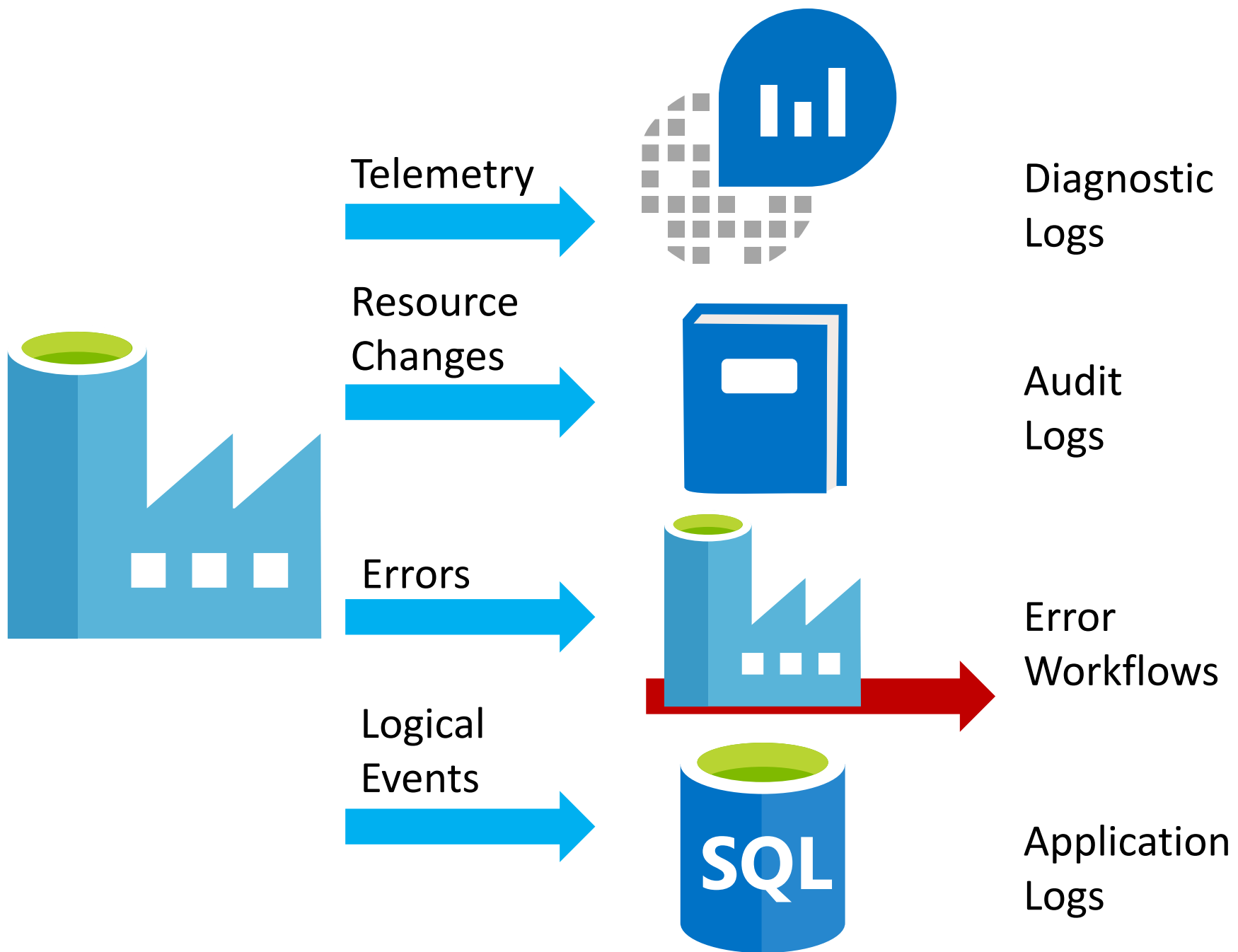
3

Activity



SUCCEEDED RUNS

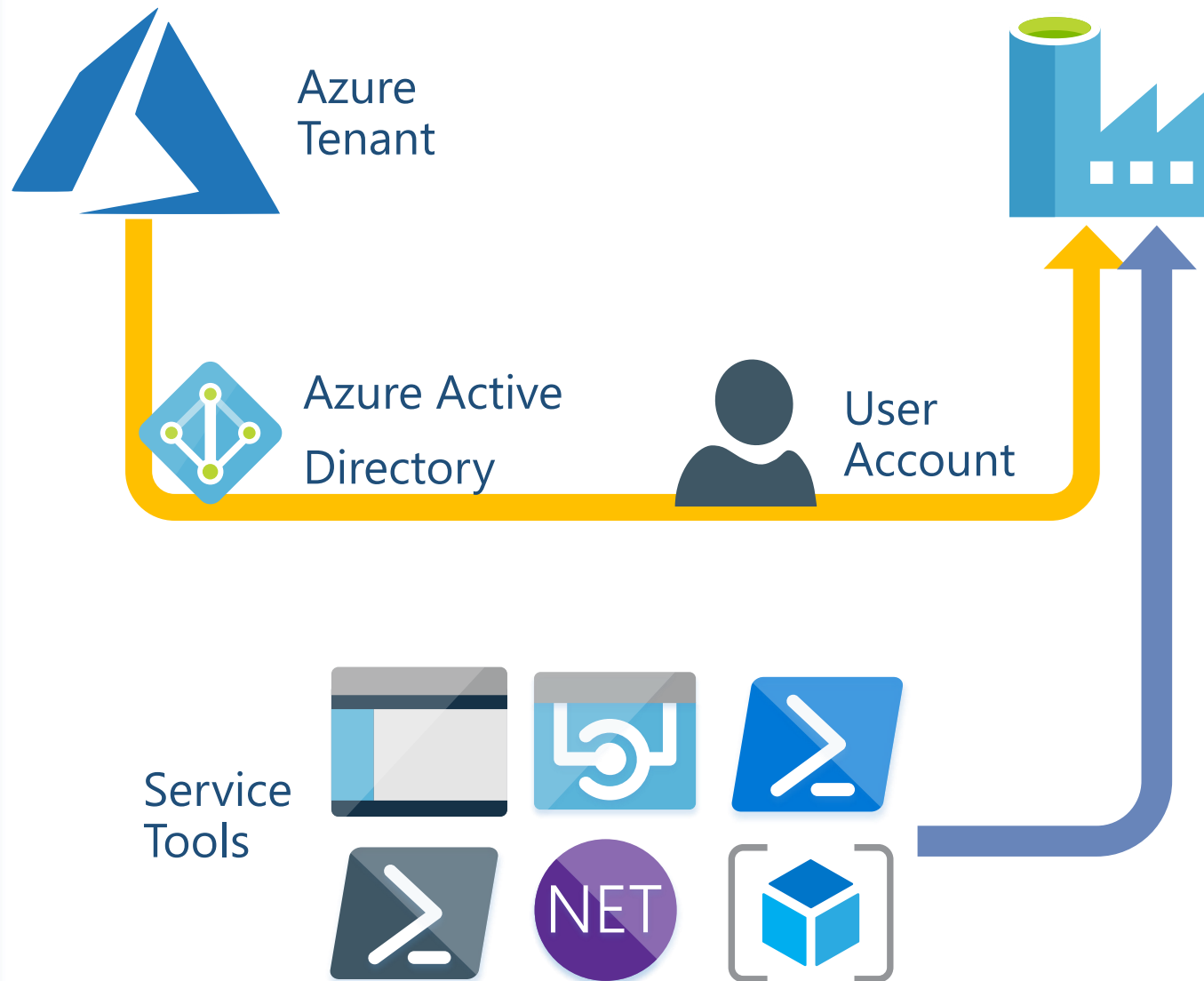
3



Security

A large, solid blue triangle is positioned in the bottom right corner of the slide, pointing towards the top right.

Accessing Data Factory

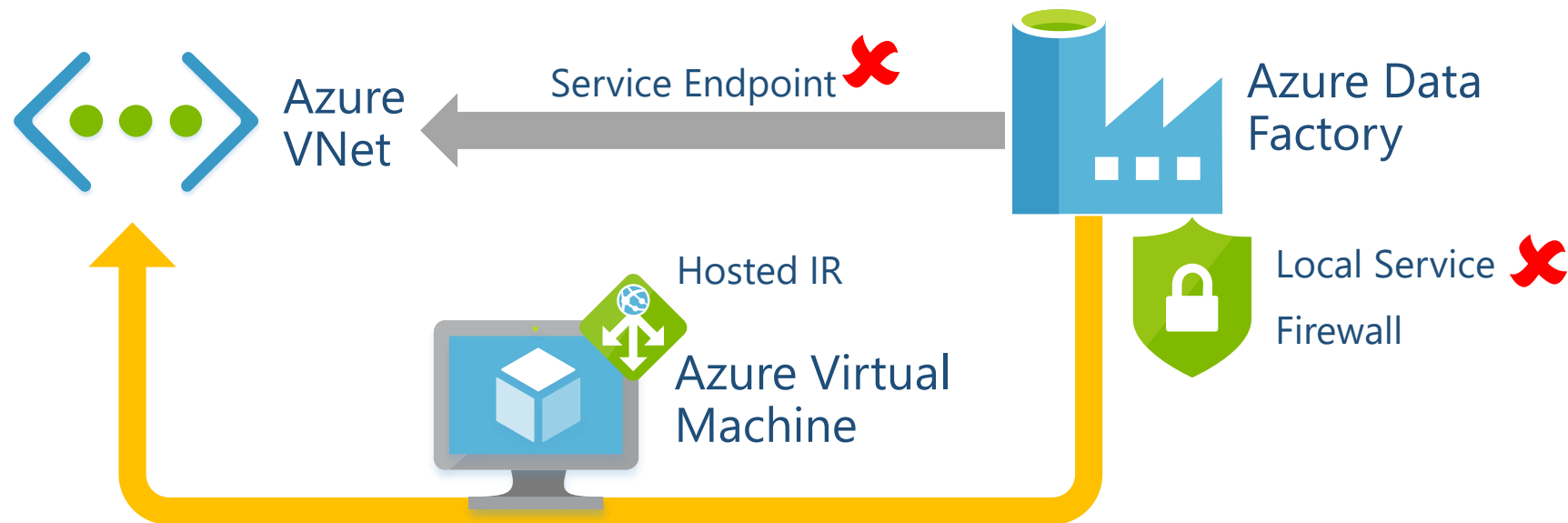


- Linked Service Administrator ✖
- Pipeline Executor ✖
- Dataset Contributor ✖

Azure Data Factory

- Owner ⓘ
- Contributor ⓘ
- Reader ⓘ
- Data Factory Contributor ⓘ
- Log Analytics Contributor ⓘ
- Log Analytics Reader ⓘ
- Managed Application Operator Role ⓘ
- Managed Applications Reader ⓘ
- Monitoring Contributor ⓘ
- Monitoring Metrics Publisher ⓘ
- Monitoring Reader ⓘ
- Resource Policy Contributor (Preview) ⓘ
- User Access Administrator ⓘ

Data Factory vs Physical Architecture



[https://adf.azure.com/home?factory=
/subscriptions/{SubscriptionId}
/resourcegroups/{ResourceGroupName}
/providers/Microsoft.DataFactory/factories/{FactoryName}](https://adf.azure.com/home?factory=/subscriptions/{SubscriptionId}/resourcegroups/{ResourceGroupName}/providers/Microsoft.DataFactory/factories/{FactoryName})

Select Data Factory

Microsoft Azure Data Factory is a cloud-based data integration service that automates data movement and transformation. More details can be found [here](#).

Azure Active Directory *

mrpaulandrew

Subscription

Microsoft Azure Sponsorship (7c00965d-fd25-404e-915c-c49e...)

Data Factory Name *

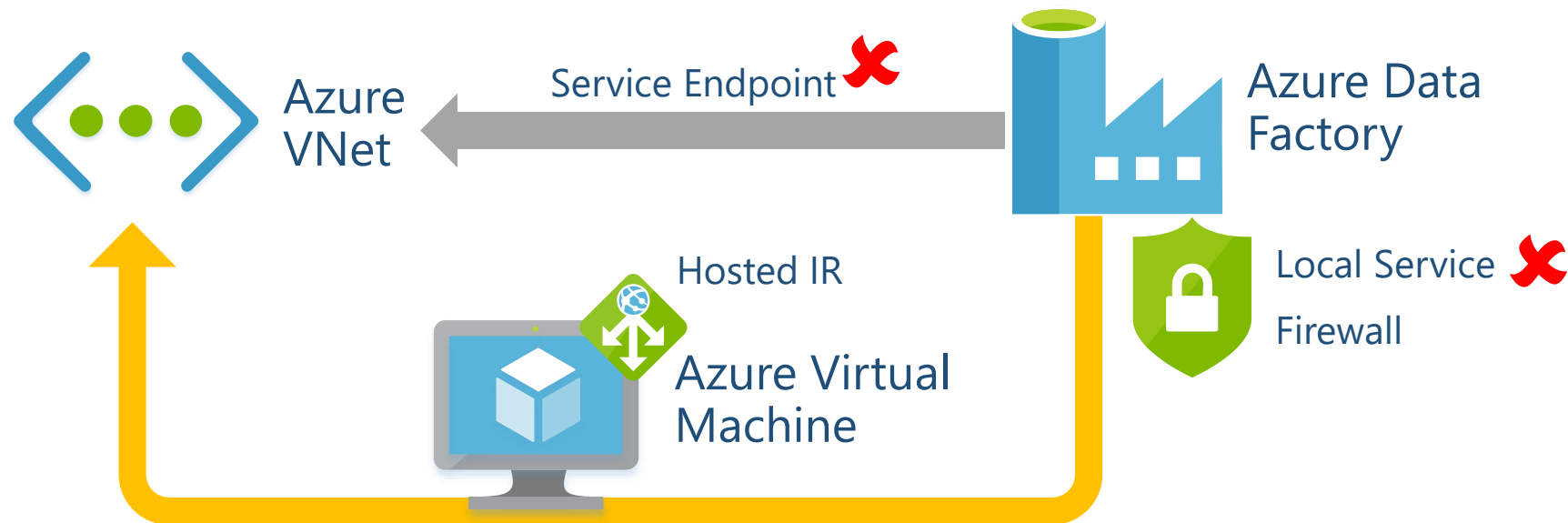
Continue



[https://adf.azure.com/home?factory=
/subscriptions/{SubscriptionId}
/resourcegroups/{ResourceGroupName}
/providers/Microsoft.DataFactory/factories/{FactoryName}](https://adf.azure.com/home?factory=/subscriptions/{SubscriptionId}/resourcegroups/{ResourceGroupName}/providers/Microsoft.DataFactory/factories/{FactoryName})

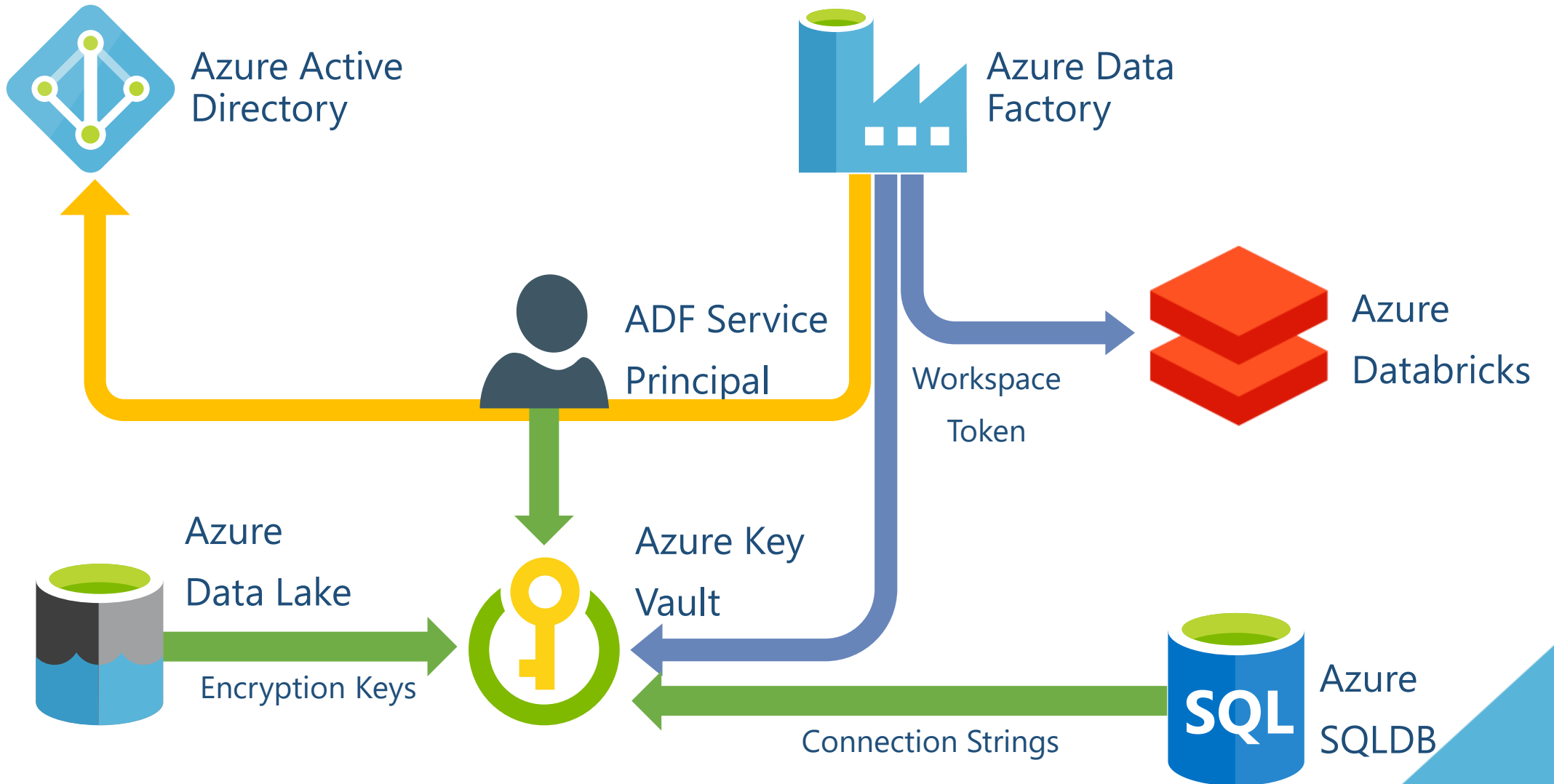


Data Factory vs Physical Architecture

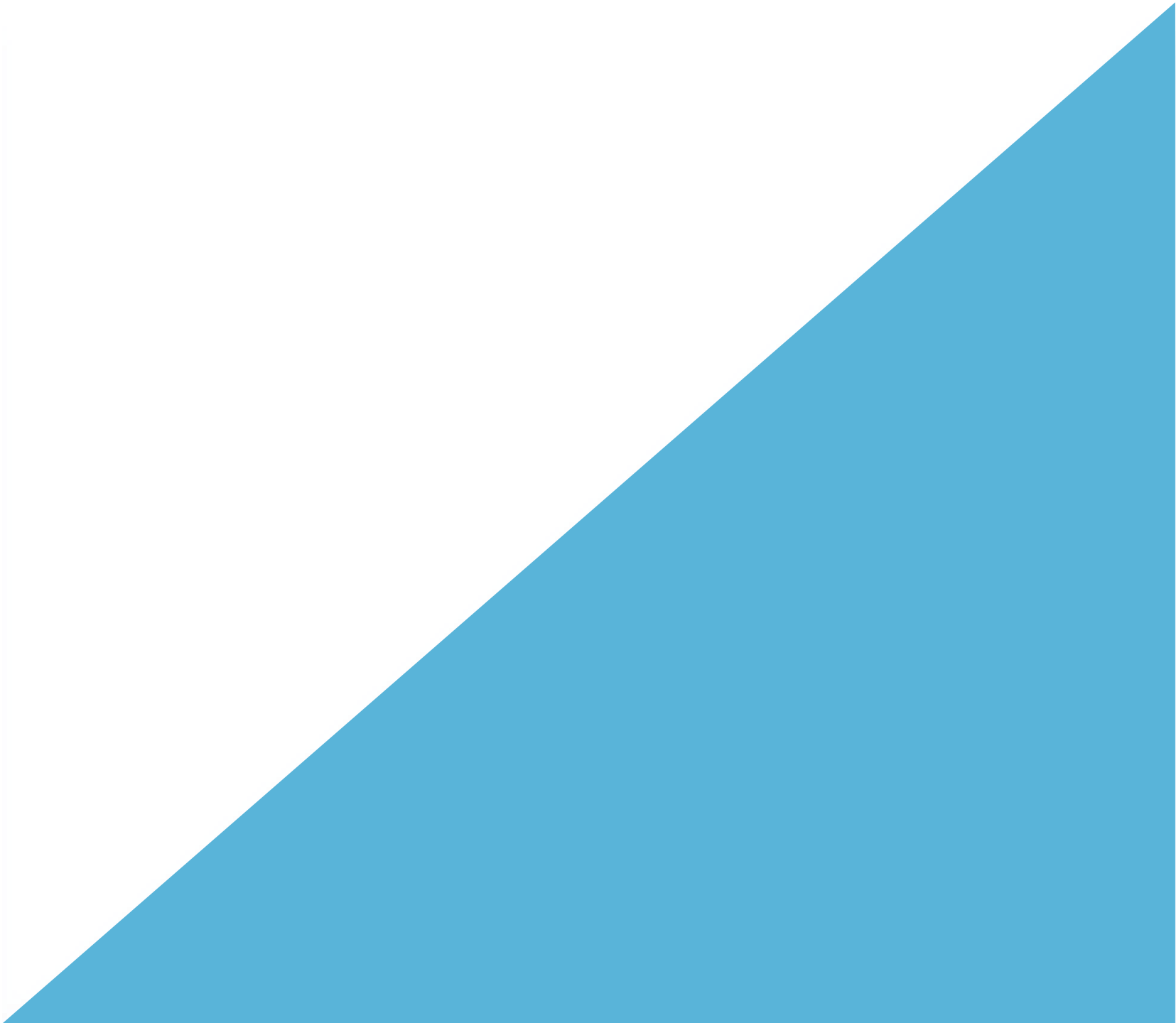


[https://adf.azure.com/home?factory=
/subscriptions/{SubscriptionId}
/resourcegroups/{ResourceGroupName}
/providers/Microsoft.DataFactory/factories/{FactoryName}](https://adf.azure.com/home?factory=/subscriptions/{SubscriptionId}/resourcegroups/{ResourceGroupName}/providers/Microsoft.DataFactory/factories/{FactoryName})

Key Vault Interaction

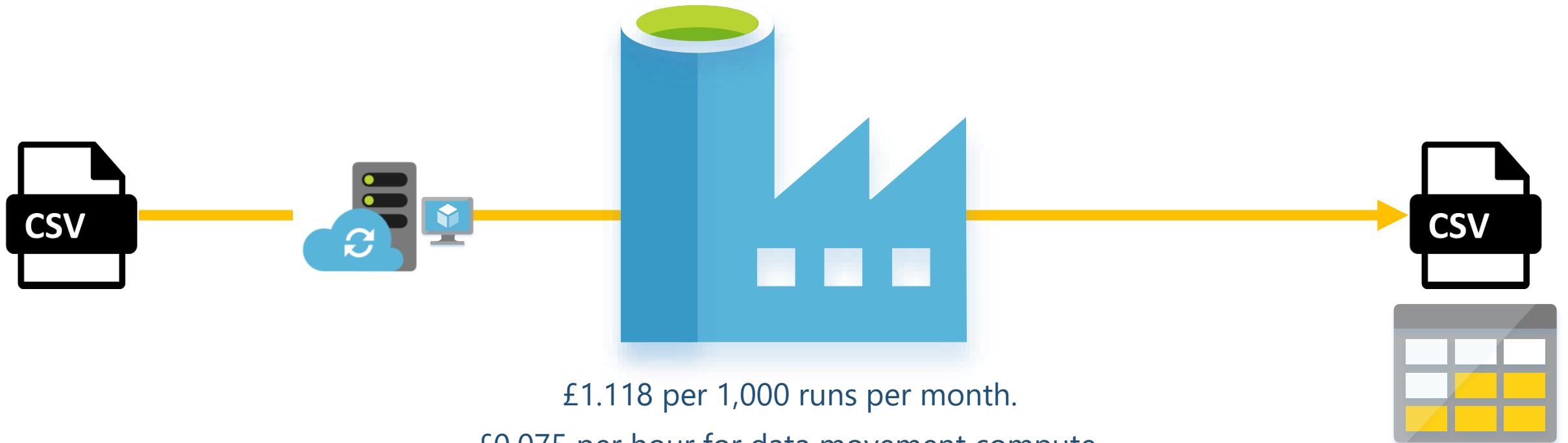


Costing



How Much Does Azure Data Factory Cost?

1x file copied every day to Azure from on premises for 1 year using a hosted IR taking an hour or less to copy.



£1.118 per 1,000 runs per month.

£0.075 per hour for data movement compute.

$$(\text{£}1.118 \times 12) + (\text{£}0.075 \times 365)$$

$$\text{£}13.42 + \text{£}27.38 = \underline{\text{£}40.80}$$

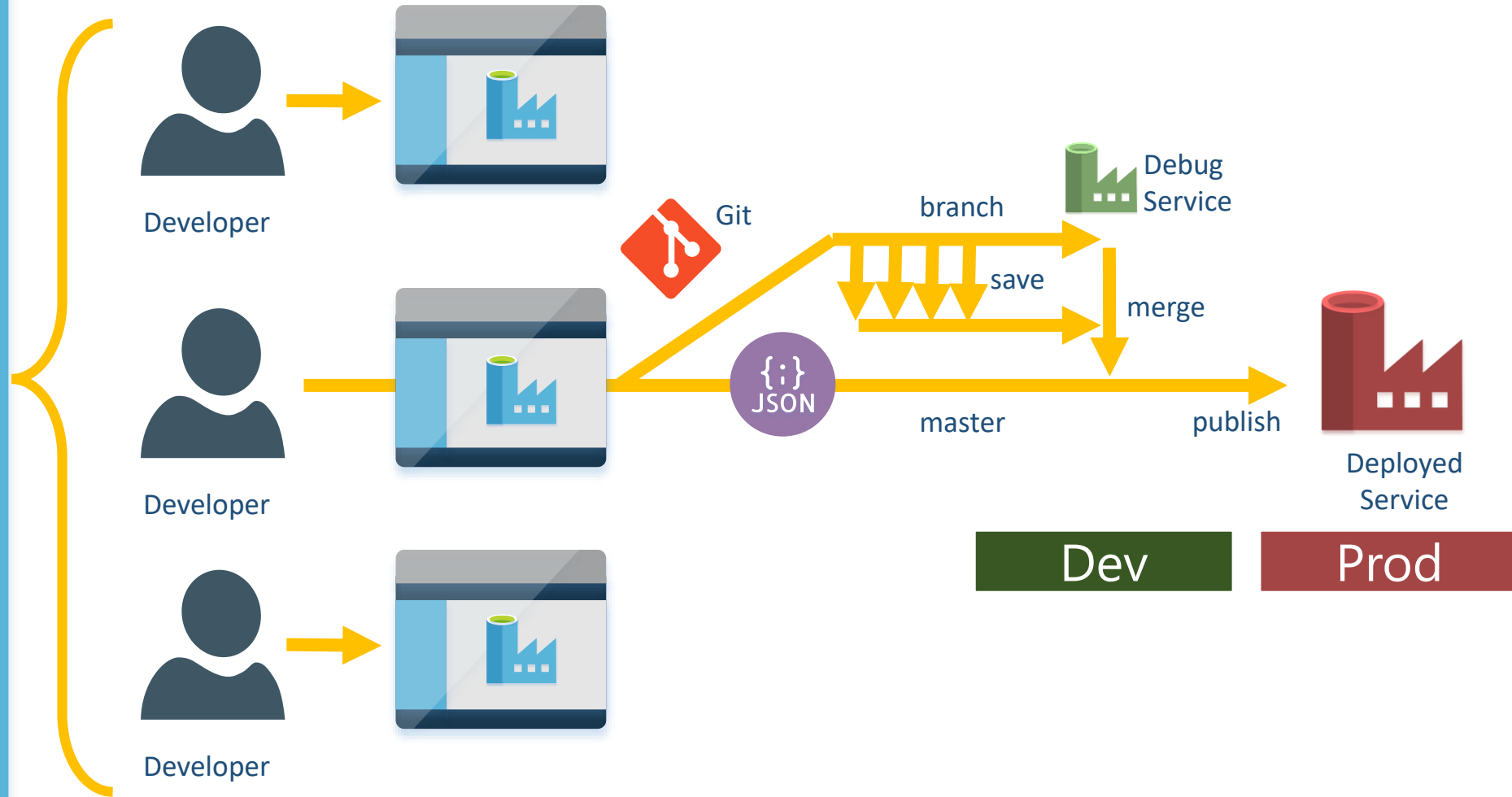
How Much Does The Solution Cost?



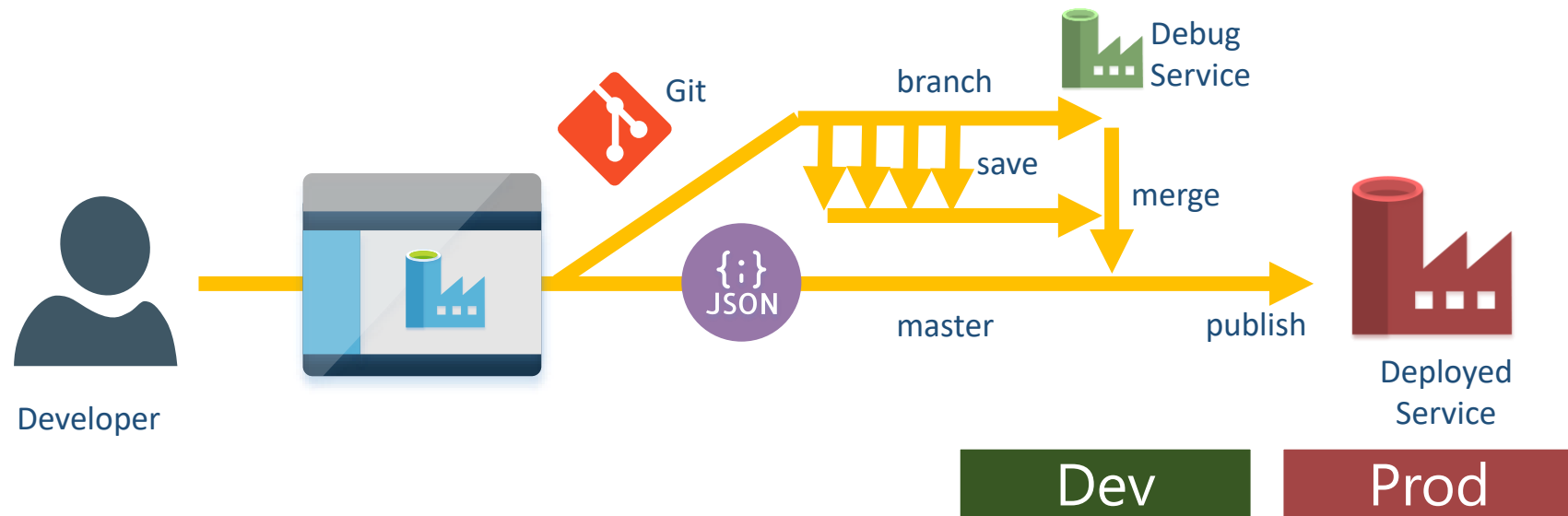
DevOps



Data Factory Continuous Integration

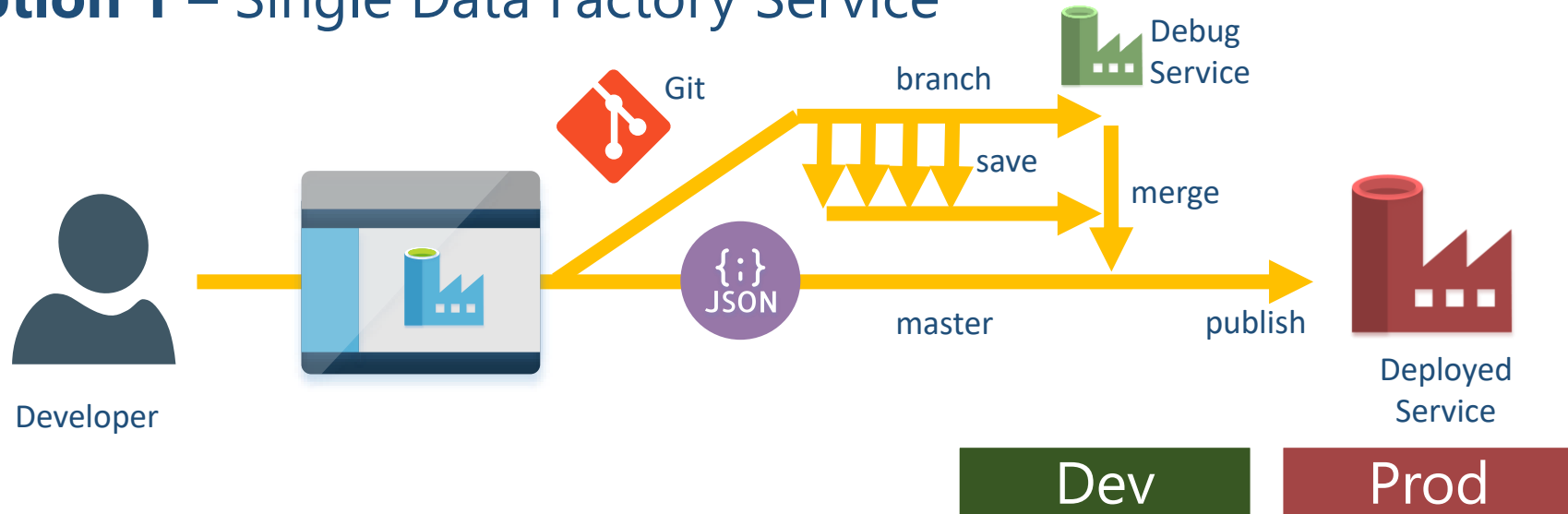


Data Factory Continuous Delivery

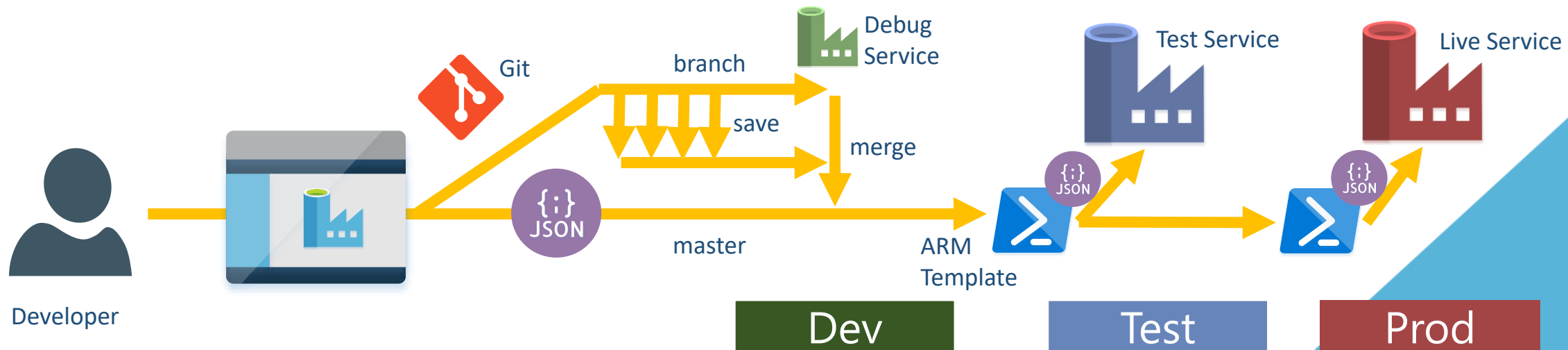


Data Factory Continuous Delivery

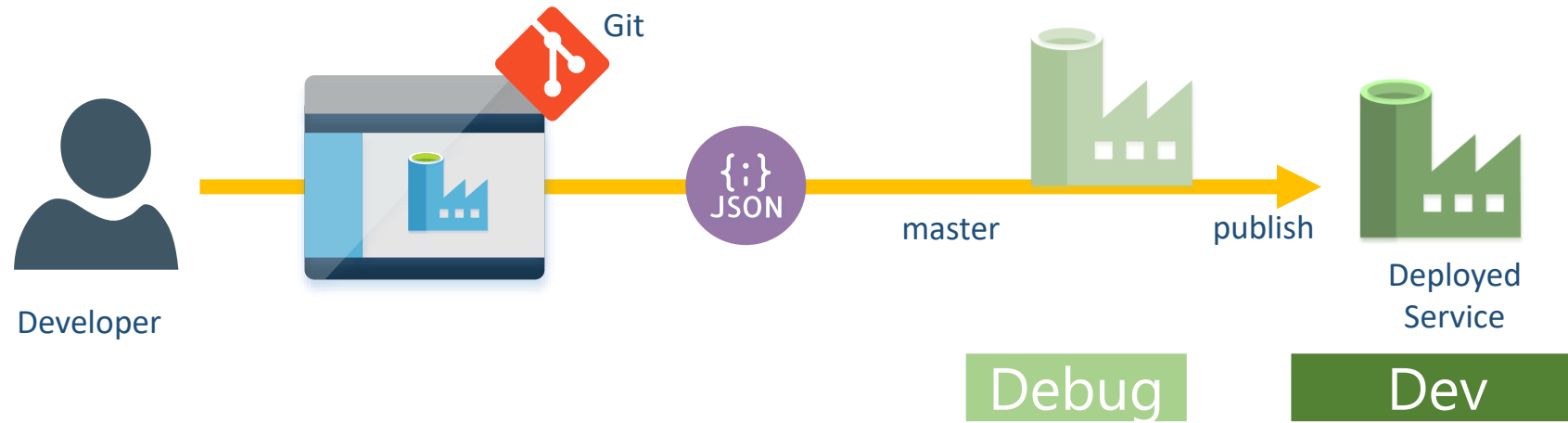
Option 1 – Single Data Factory Service



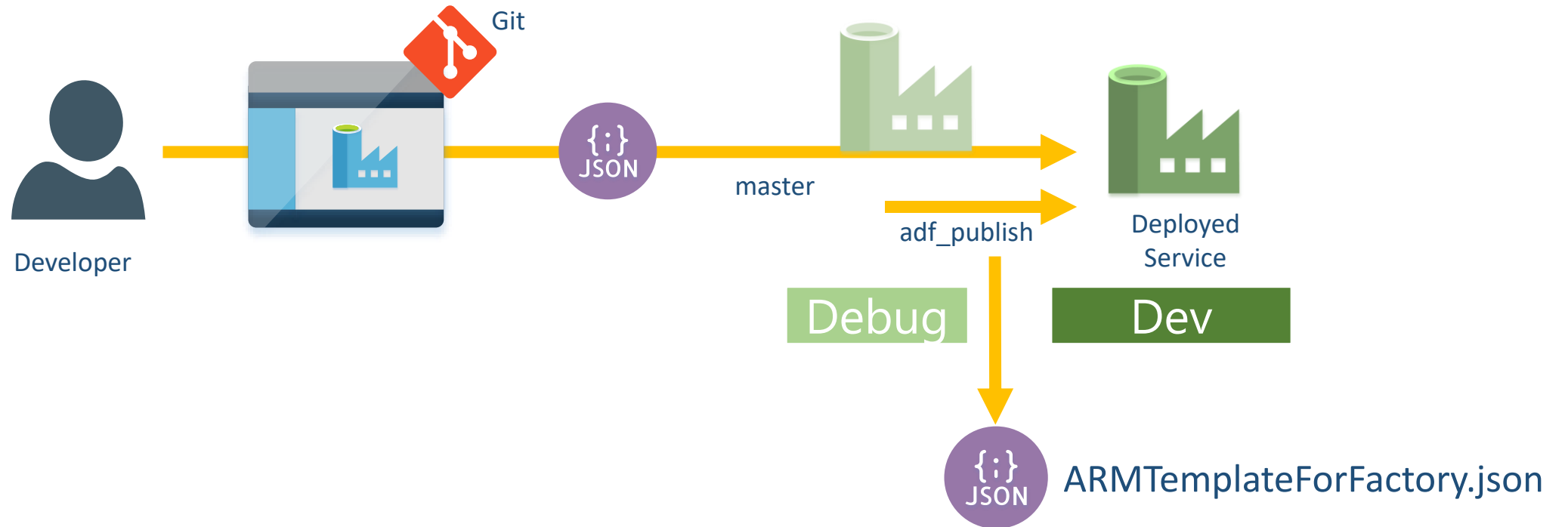
Option 2 – ARM Templates for Multiple Data Factory Services



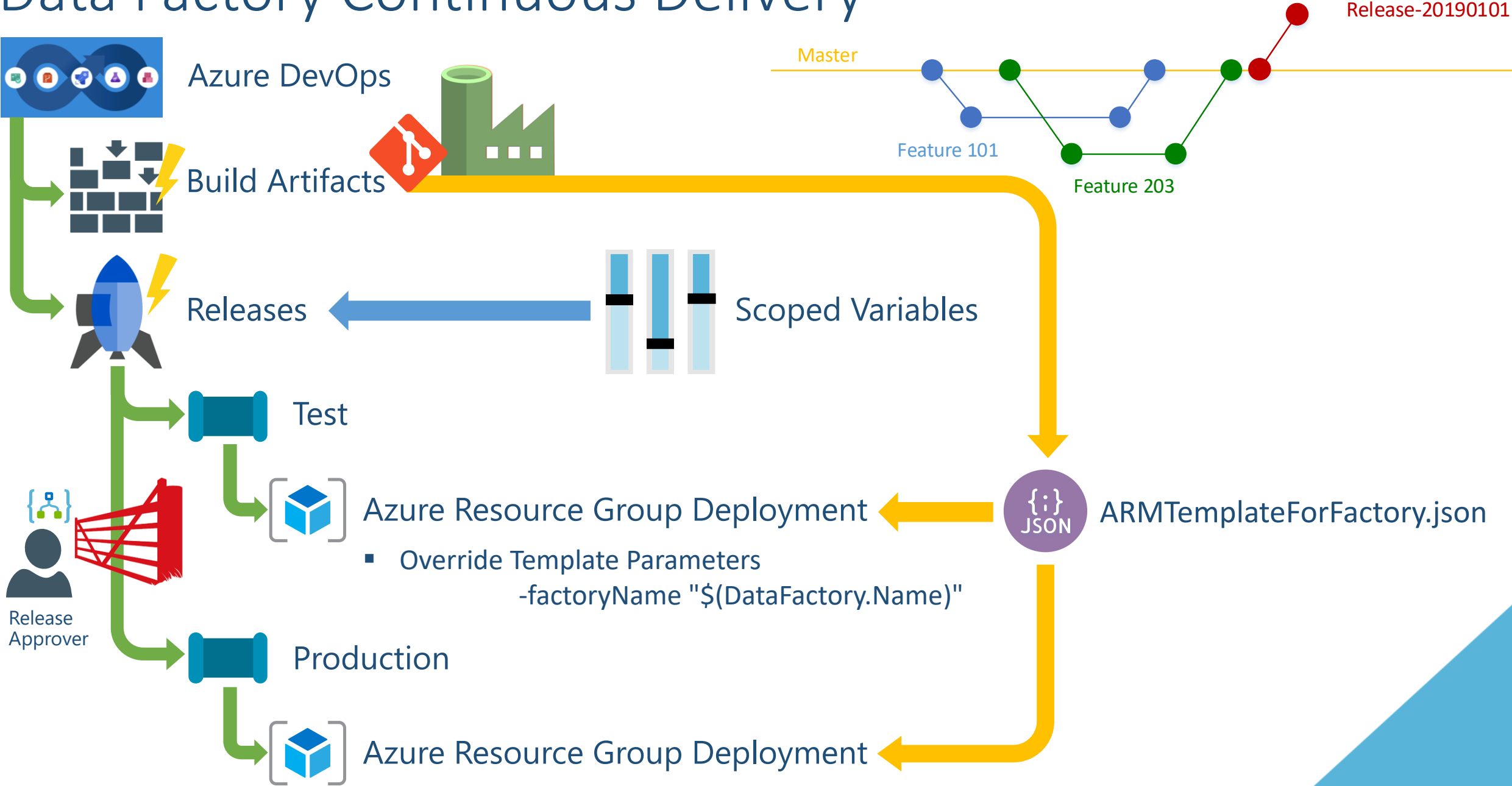
Data Factory Publish



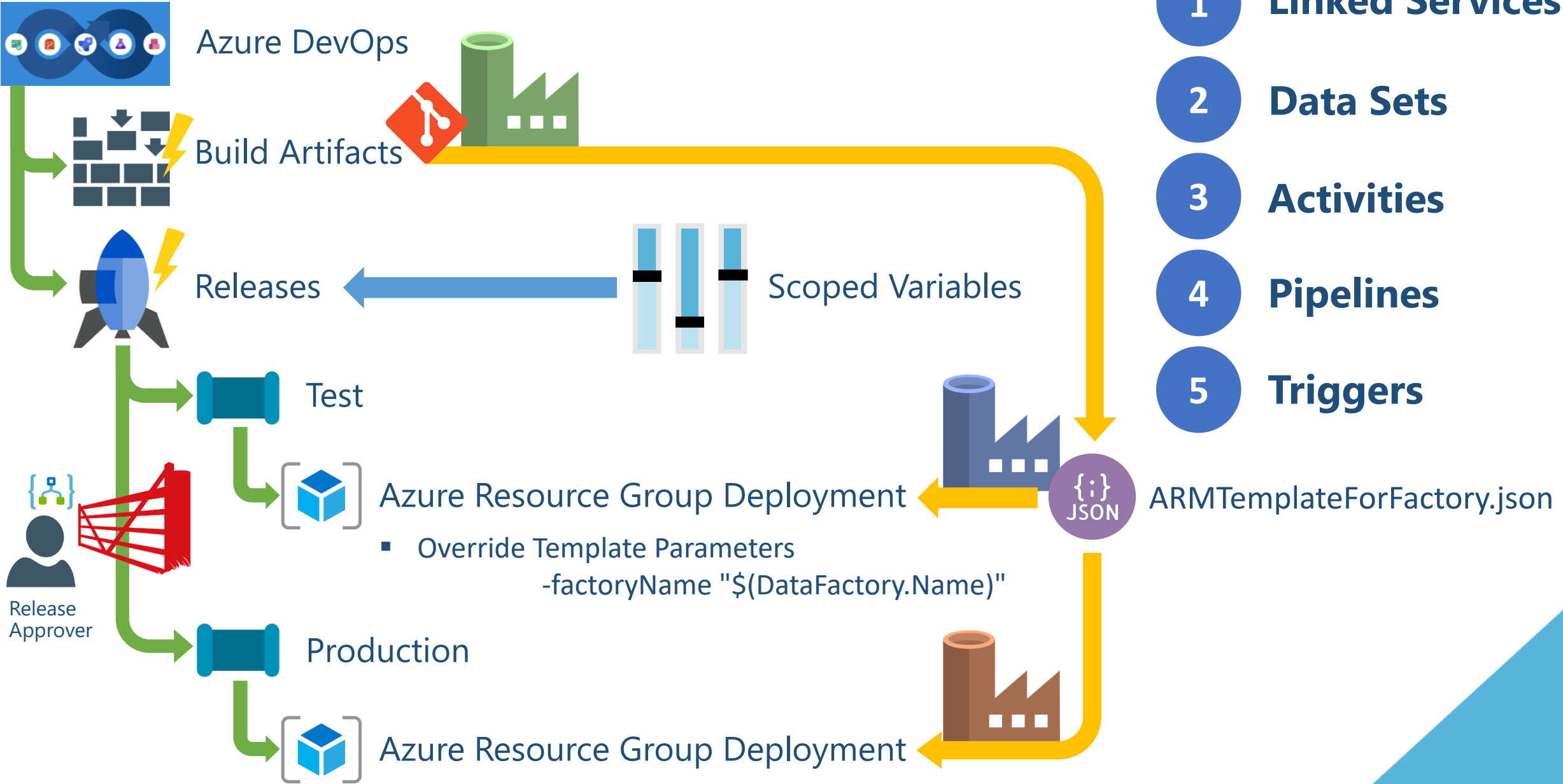
Data Factory Publish



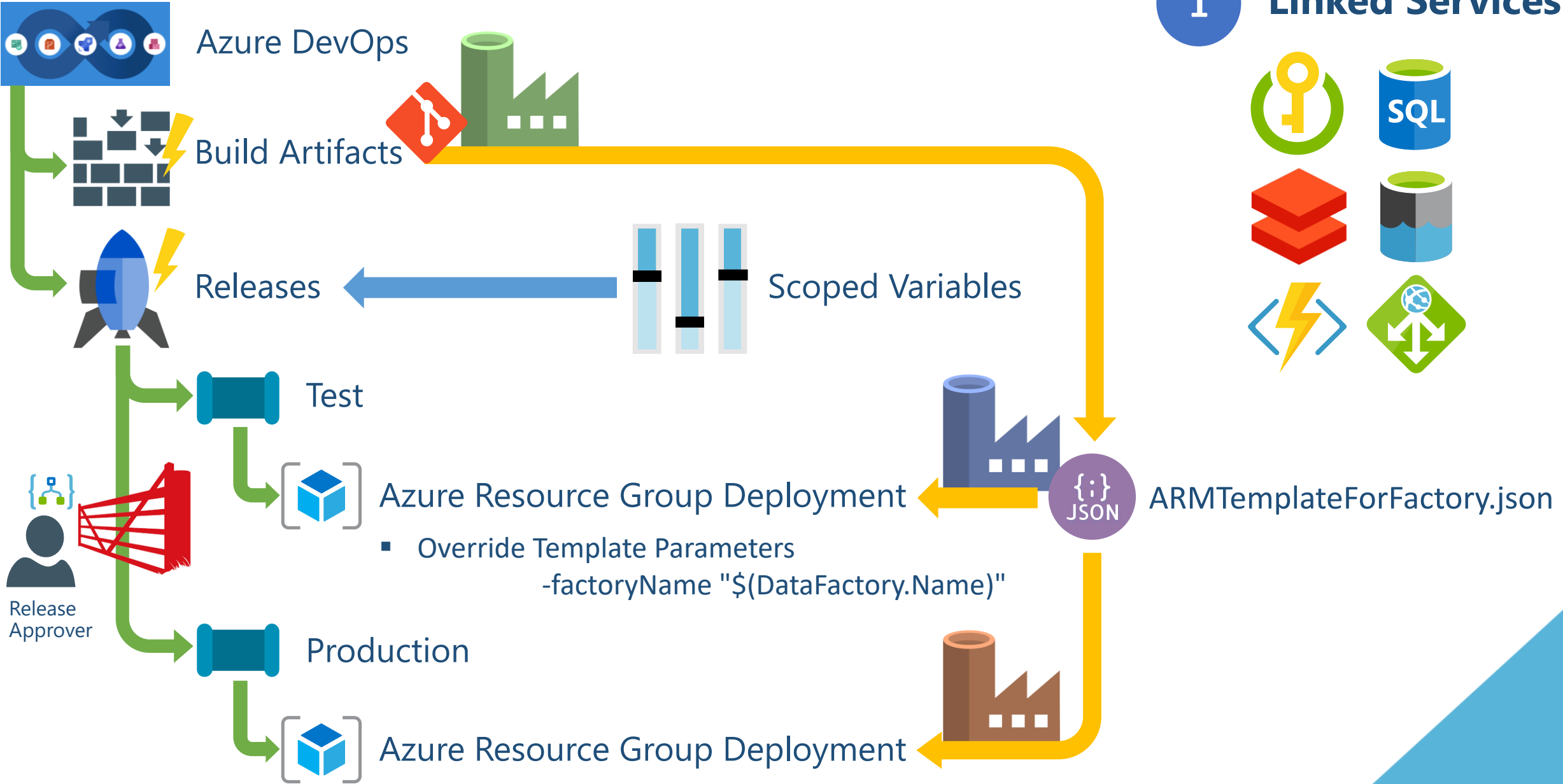
Data Factory Continuous Delivery



Data Factory Continuous Delivery



Data Factory Continuous Delivery



Module 6: Data Factory in Production

- Monitoring
 - Diagnostic logs
 - Audit logs
 - Error handling
 - Application logs
- Security
 - Accessing the service
 - Physical architecture
 - Key Vault interaction
- Costing
- DevOps