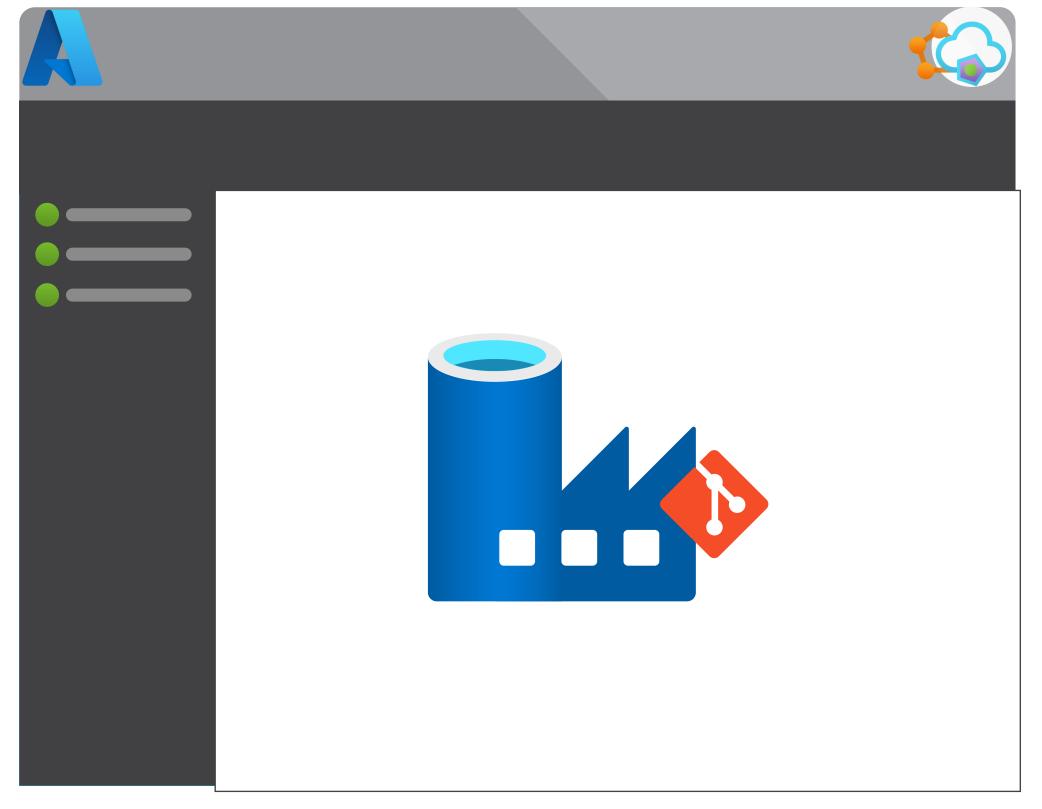


- Source Control vs Developer UI
- Basic ARM Template Deployments
- Advanced Deployment Patterns



- Source Control vs Developer UI
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#### Open Azure Data Factory Studio

Start authoring and monitoring your data pipelines and data flows.

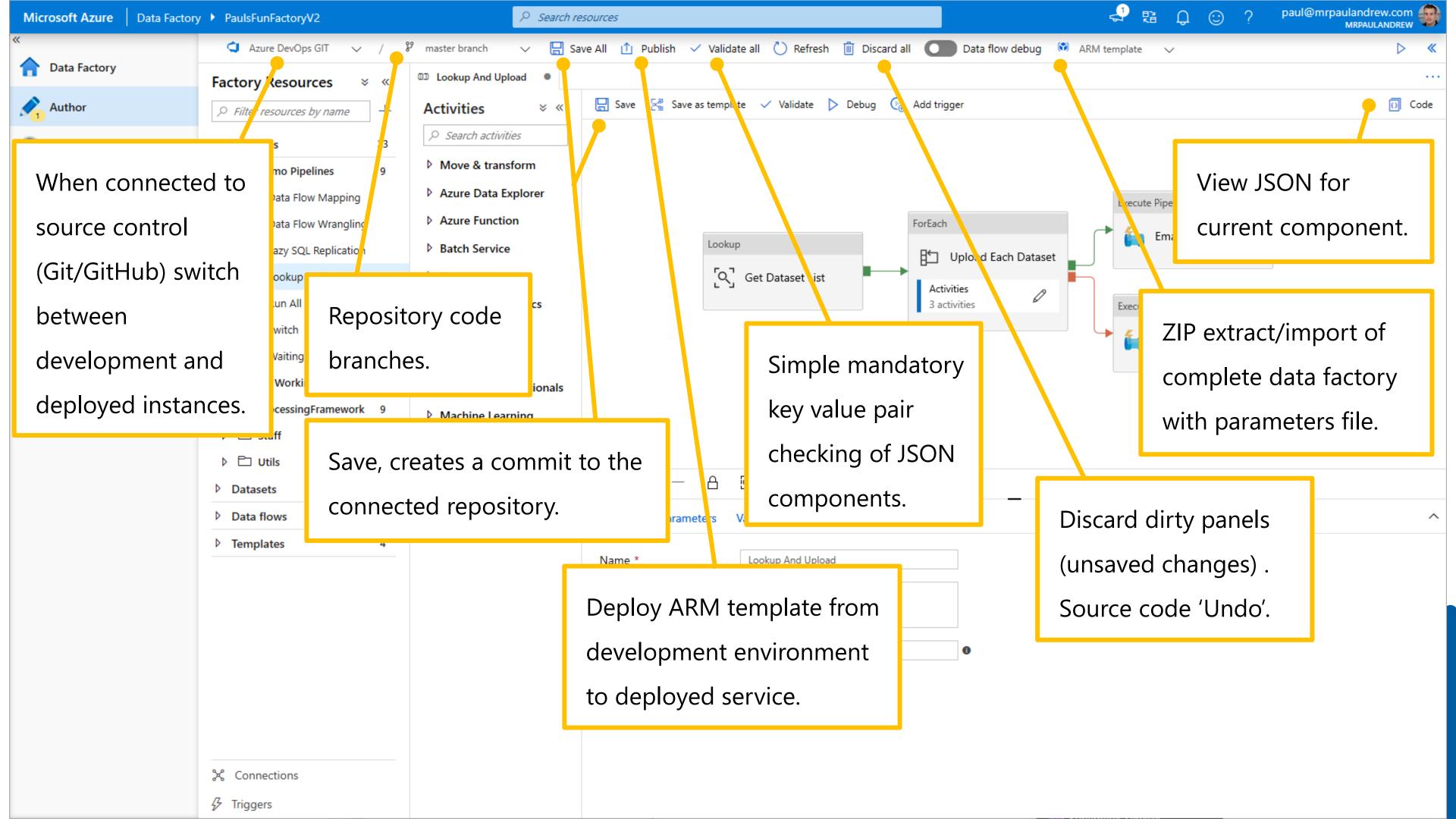
Open 🗹

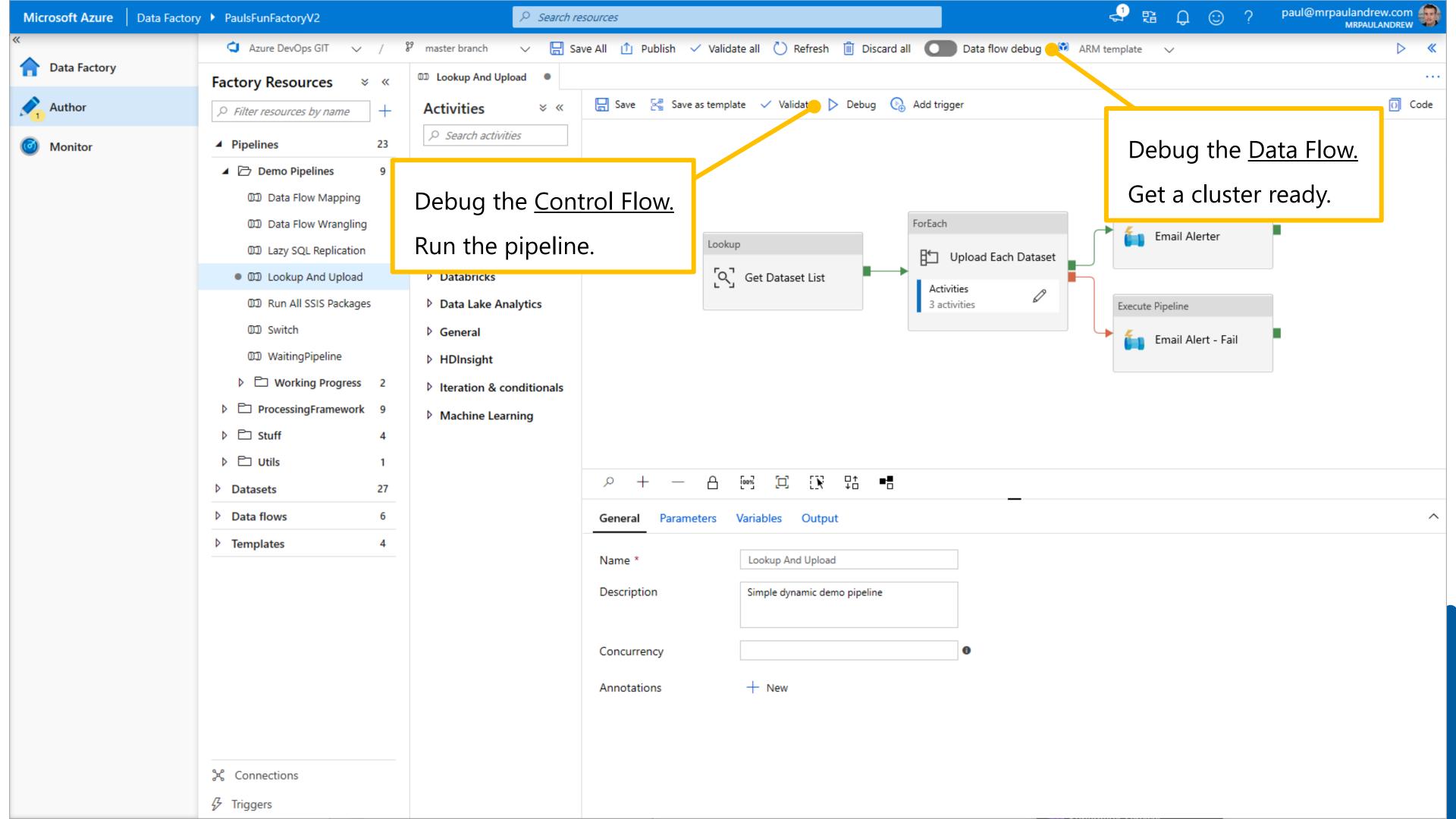


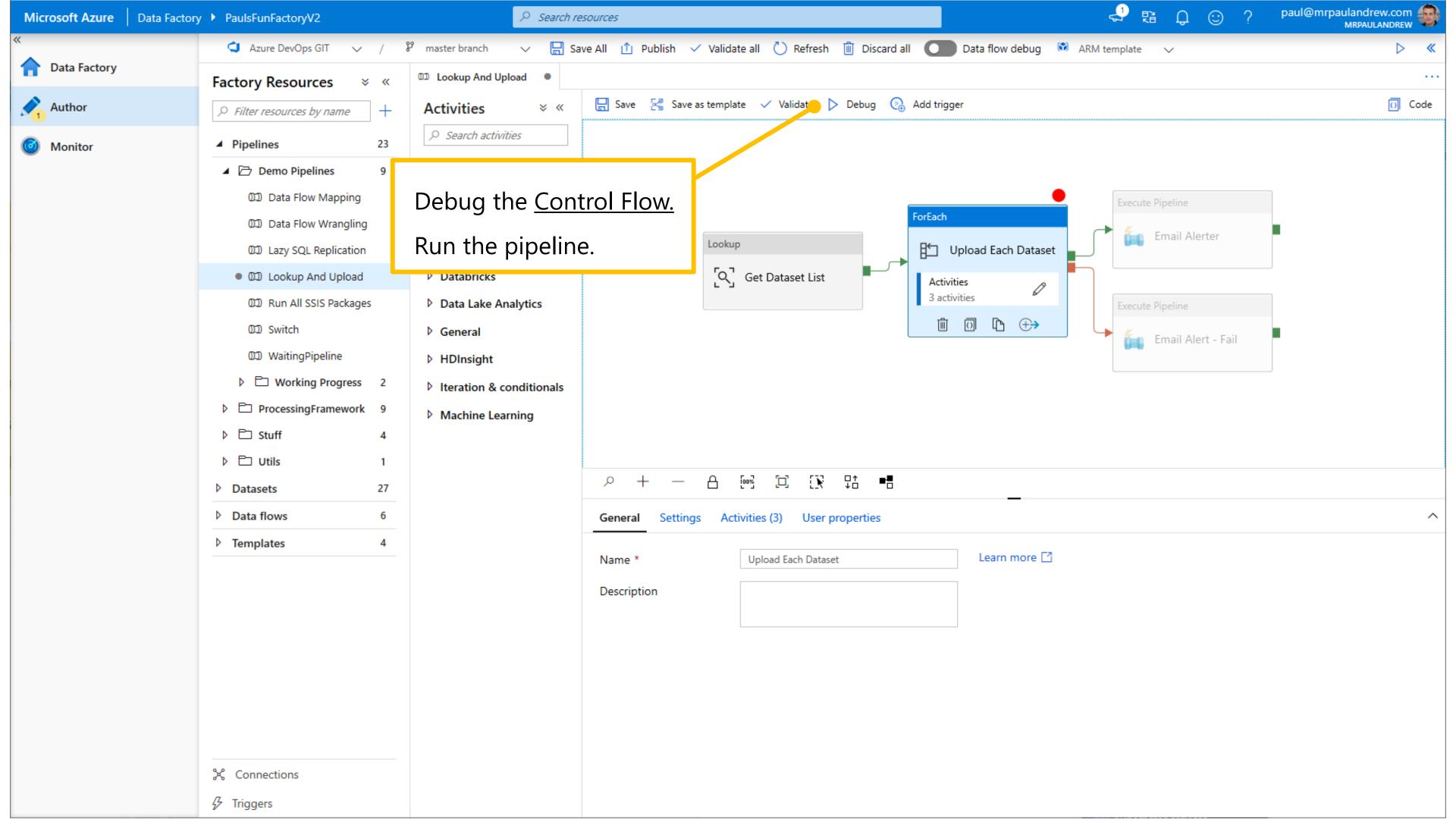
#### Read documentation

Learn how to be productive quickly.
Explore concepts, tutorials, and samples.

Learn more 🗹





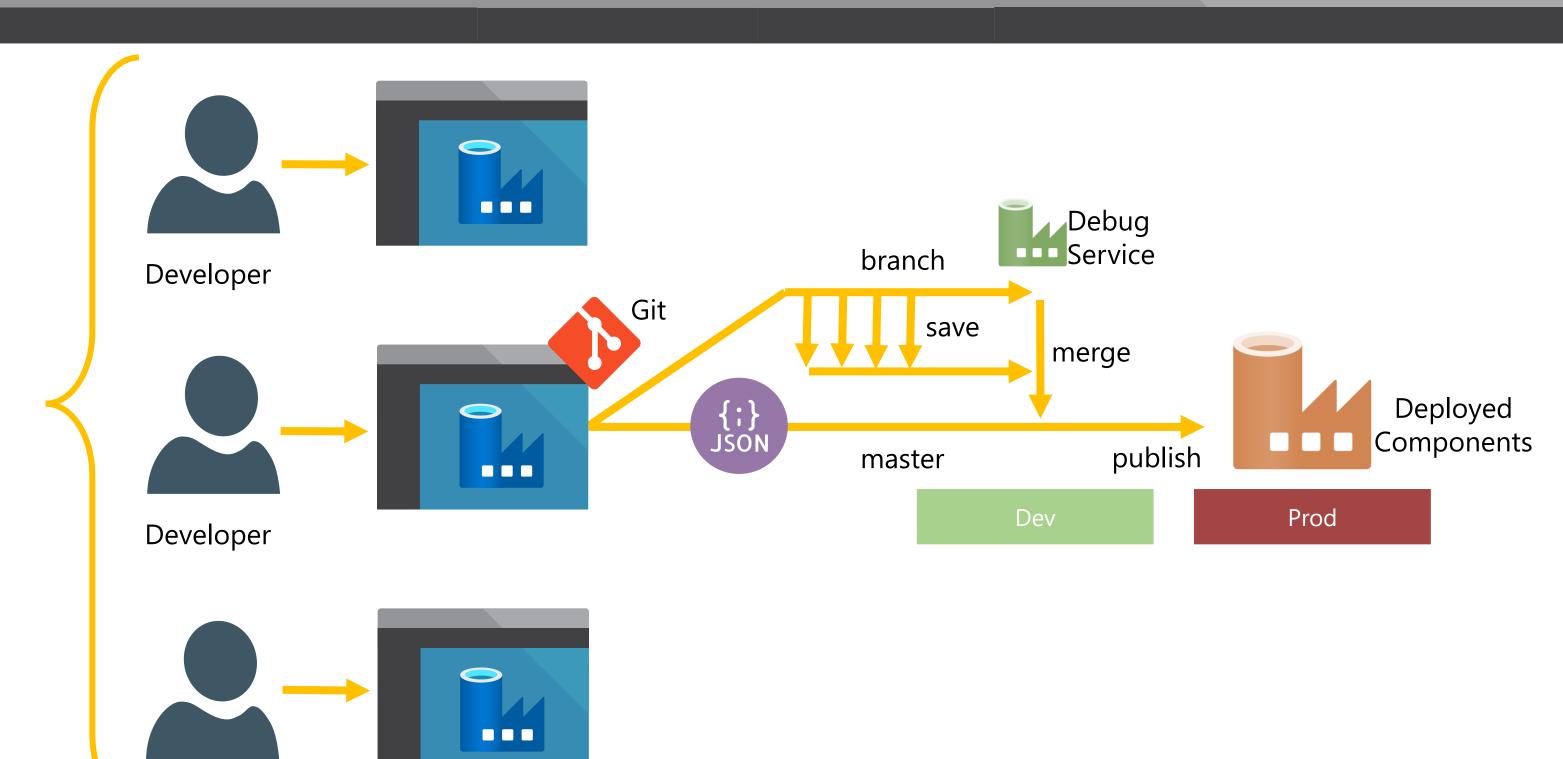




Developer

# Data Factory Continuous Integration

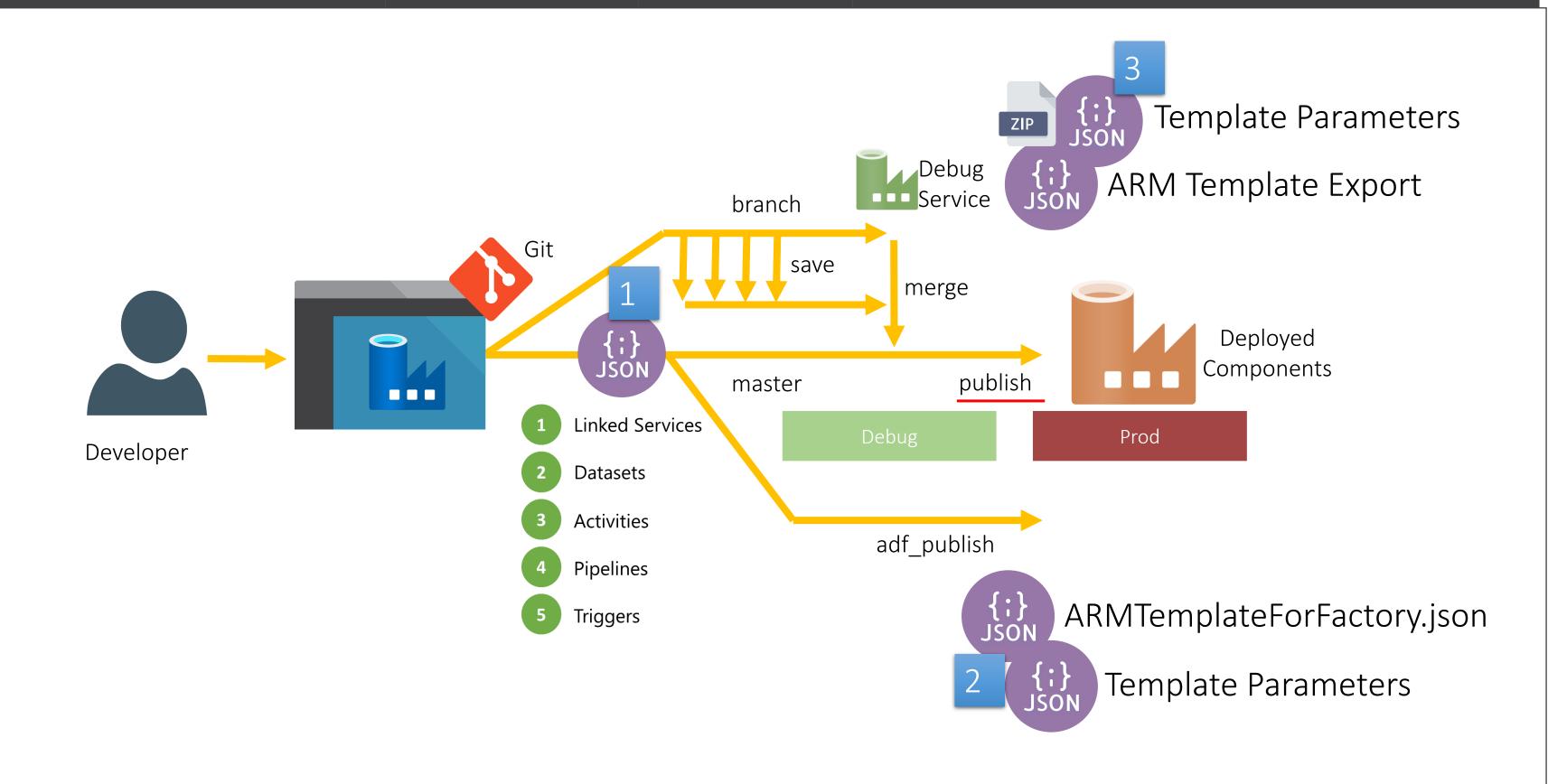


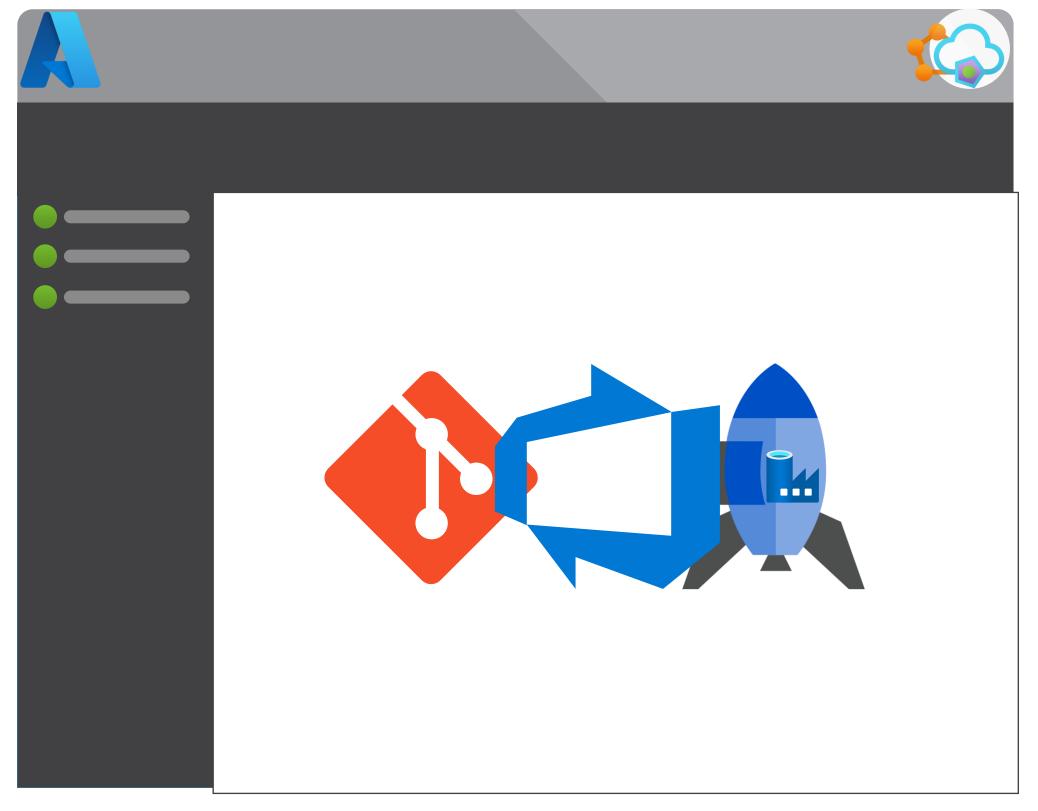




## Getting Our ADF Source Code



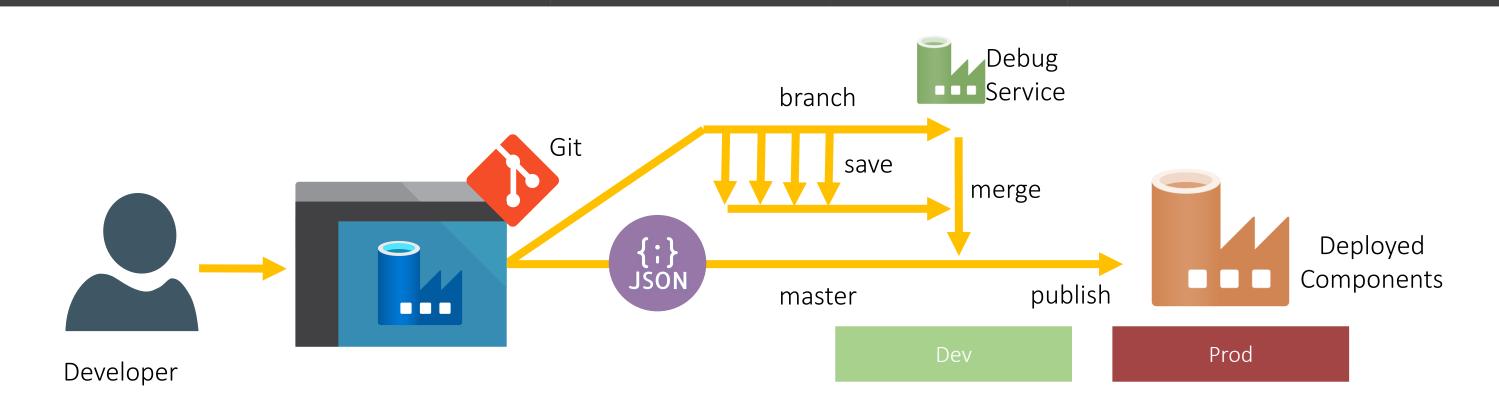




- Source Control vs Developer Ul
- Basic ARM Template Deployments
- Advanced Deployment Patterns

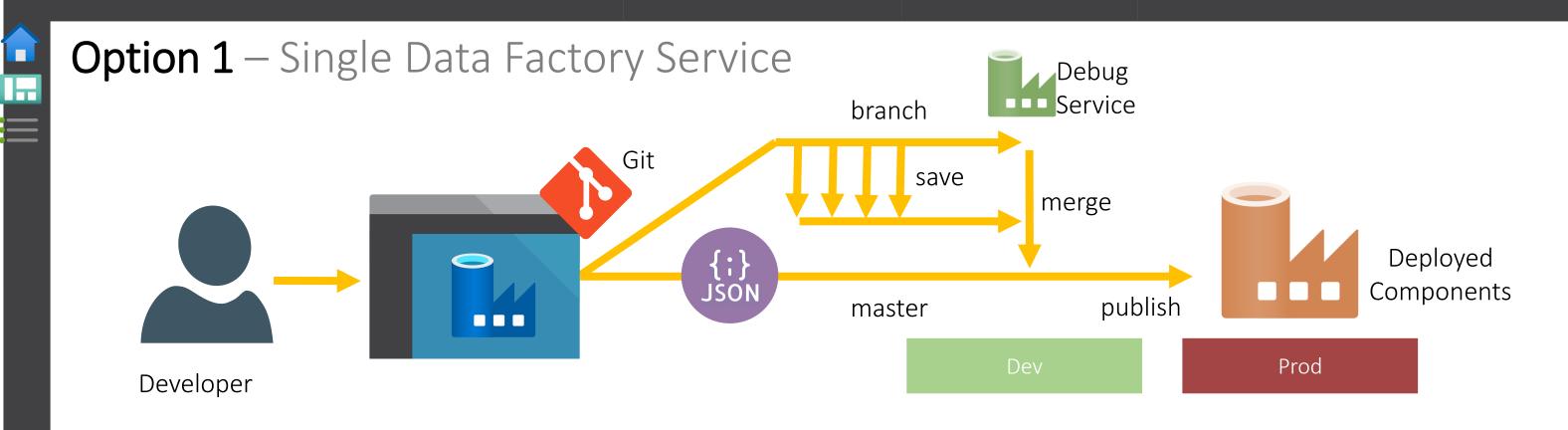




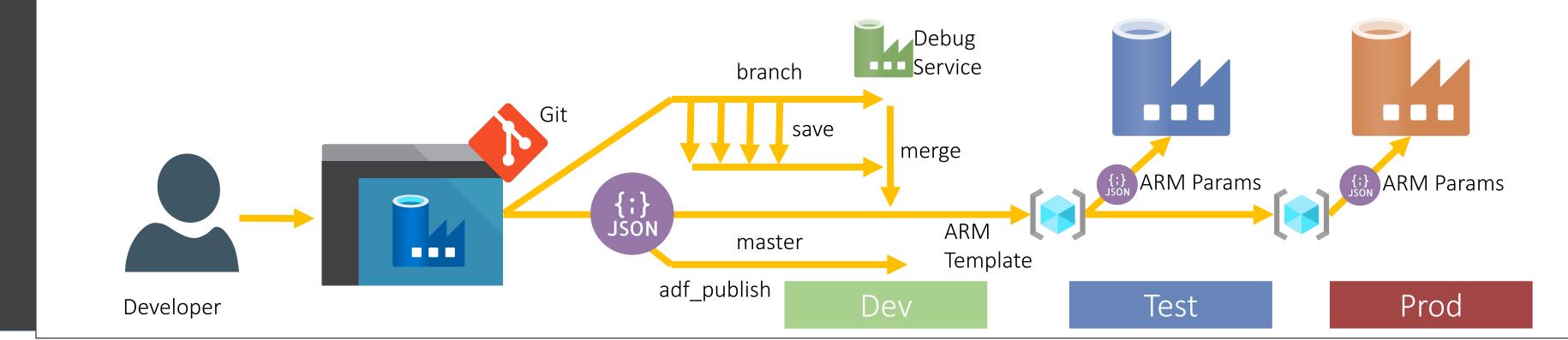


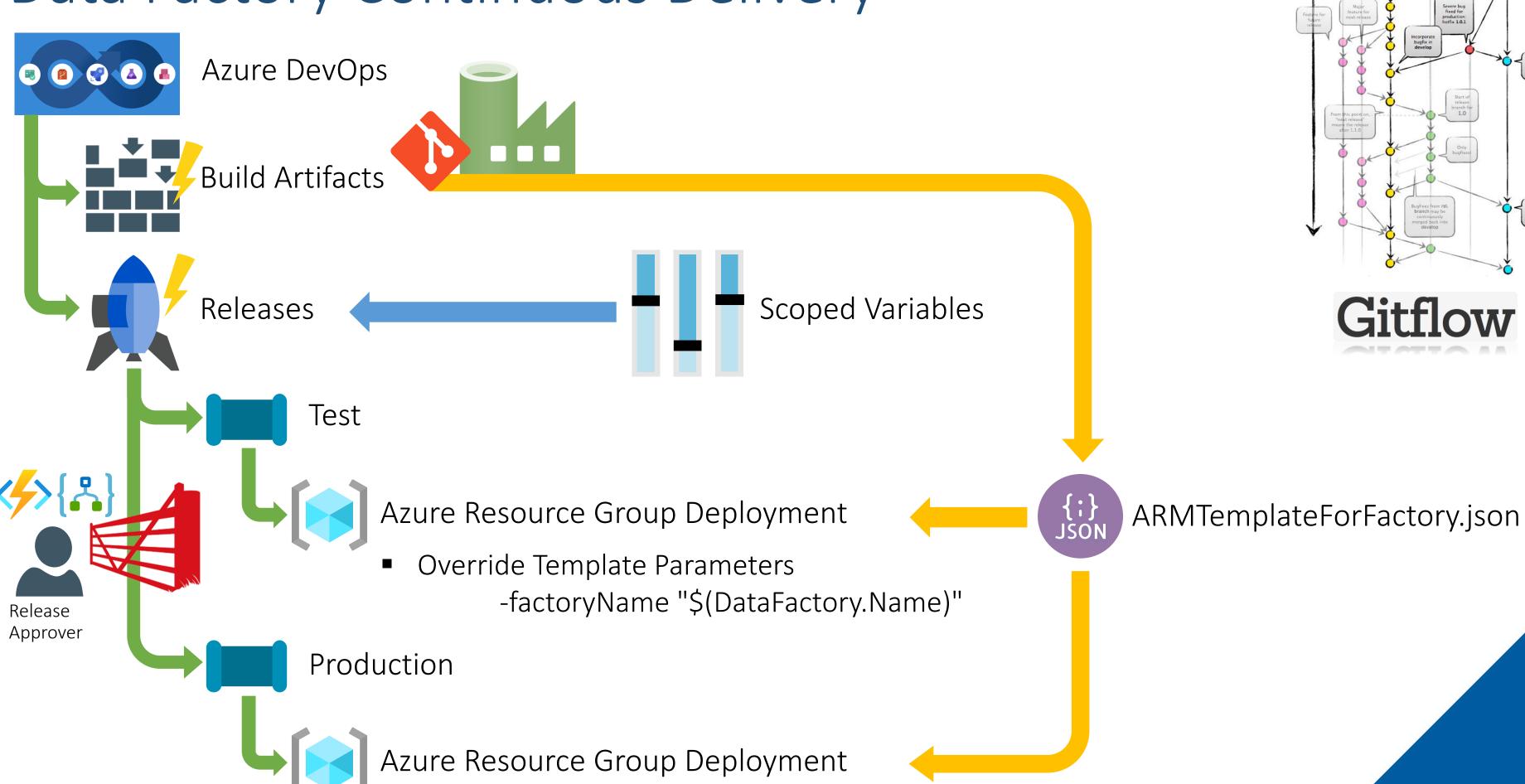


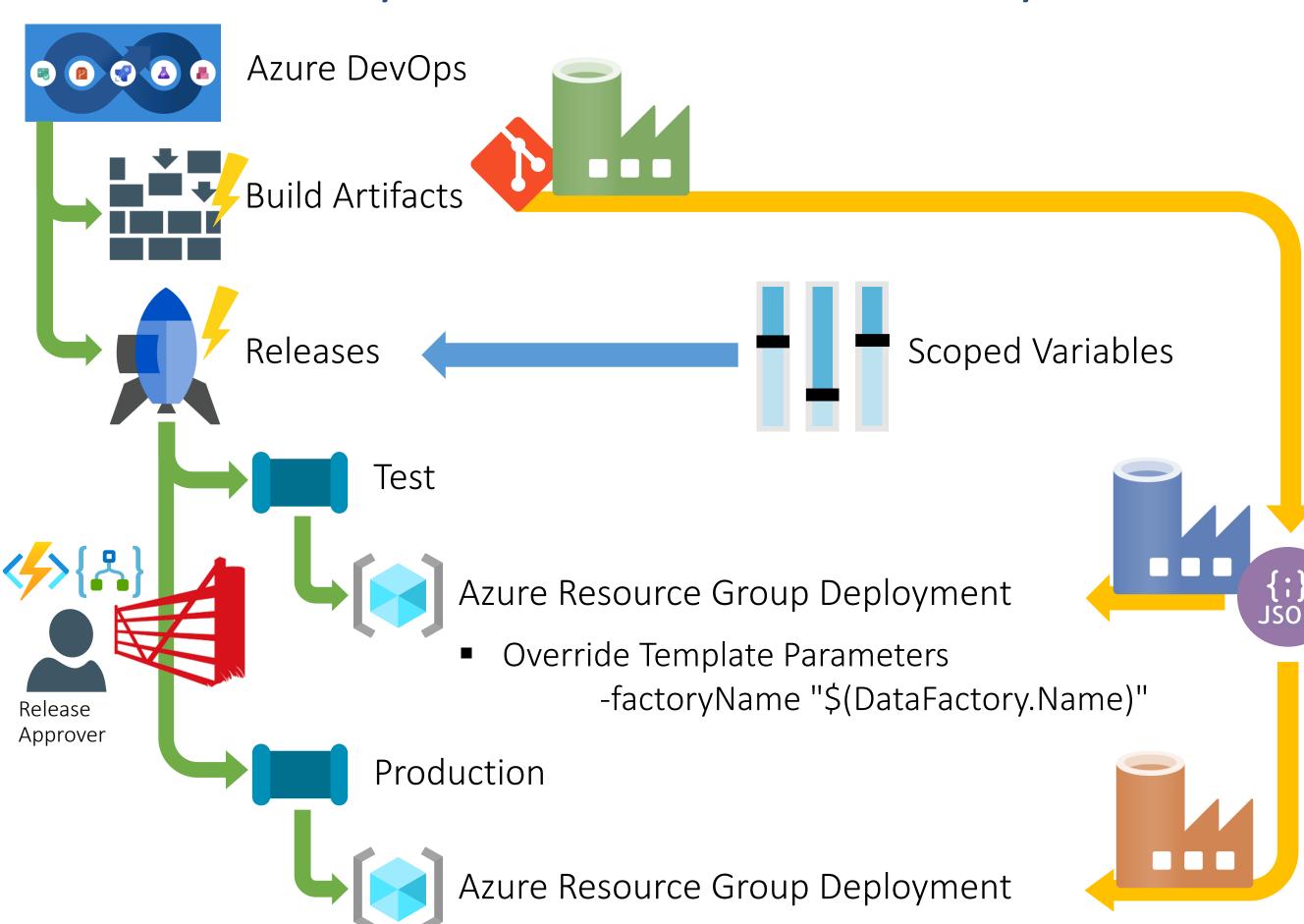




#### Option 2 – ARM Templates for Multiple Data Factory Services

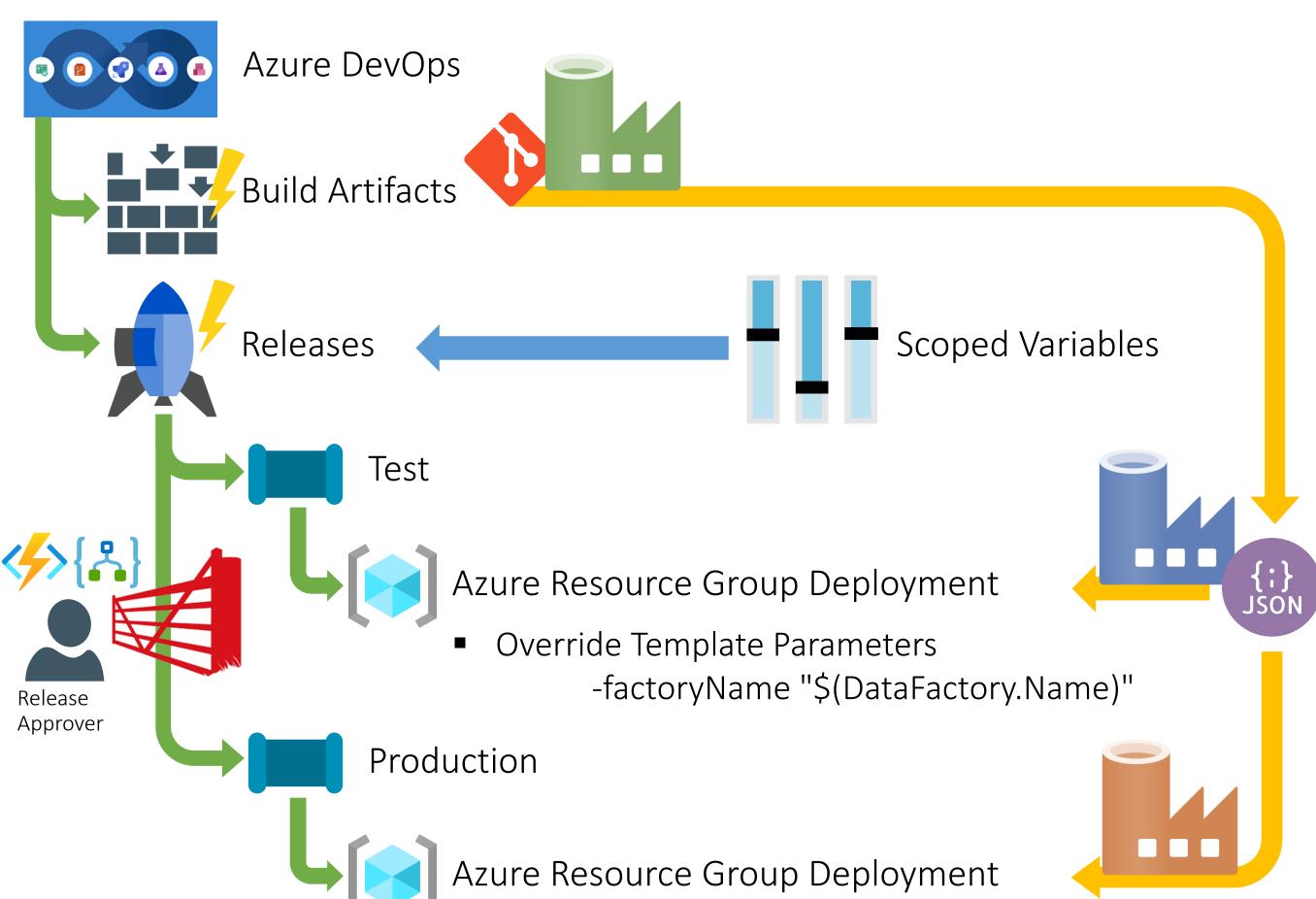






- 1 Linked Services
- 2 Datasets
- 3 Activities
- 4 Pipelines
- 5 Triggers

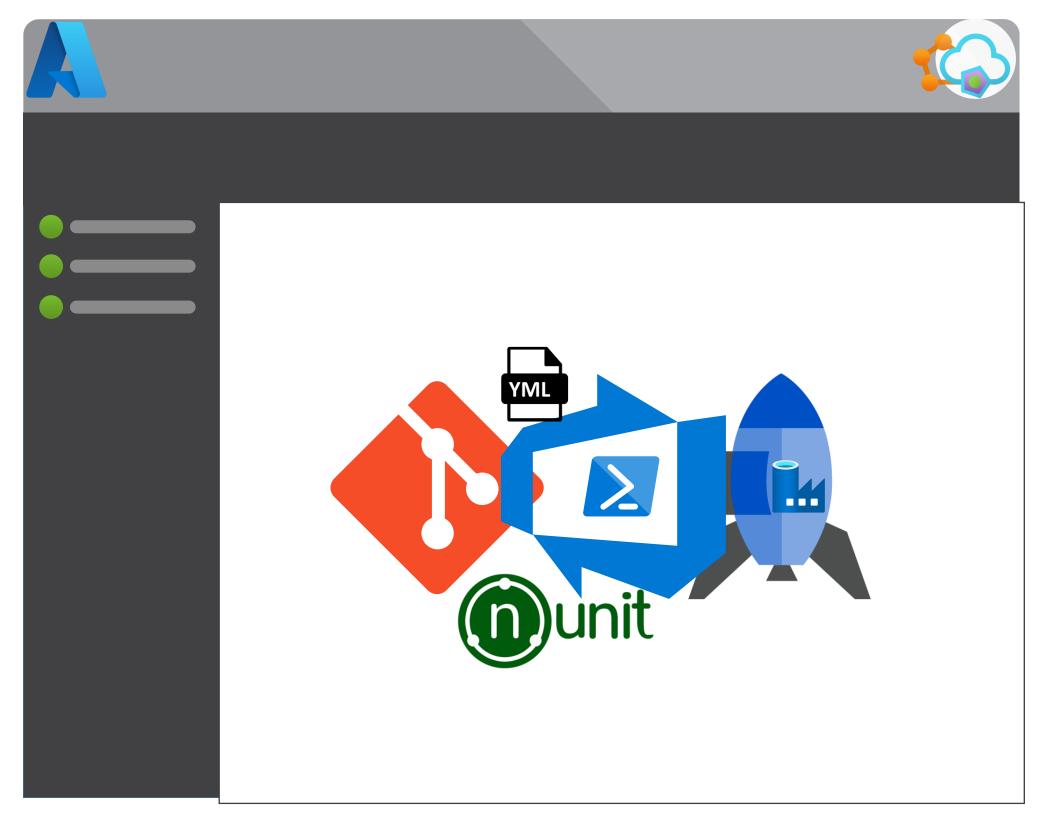
ARMTemplateForFactory.json





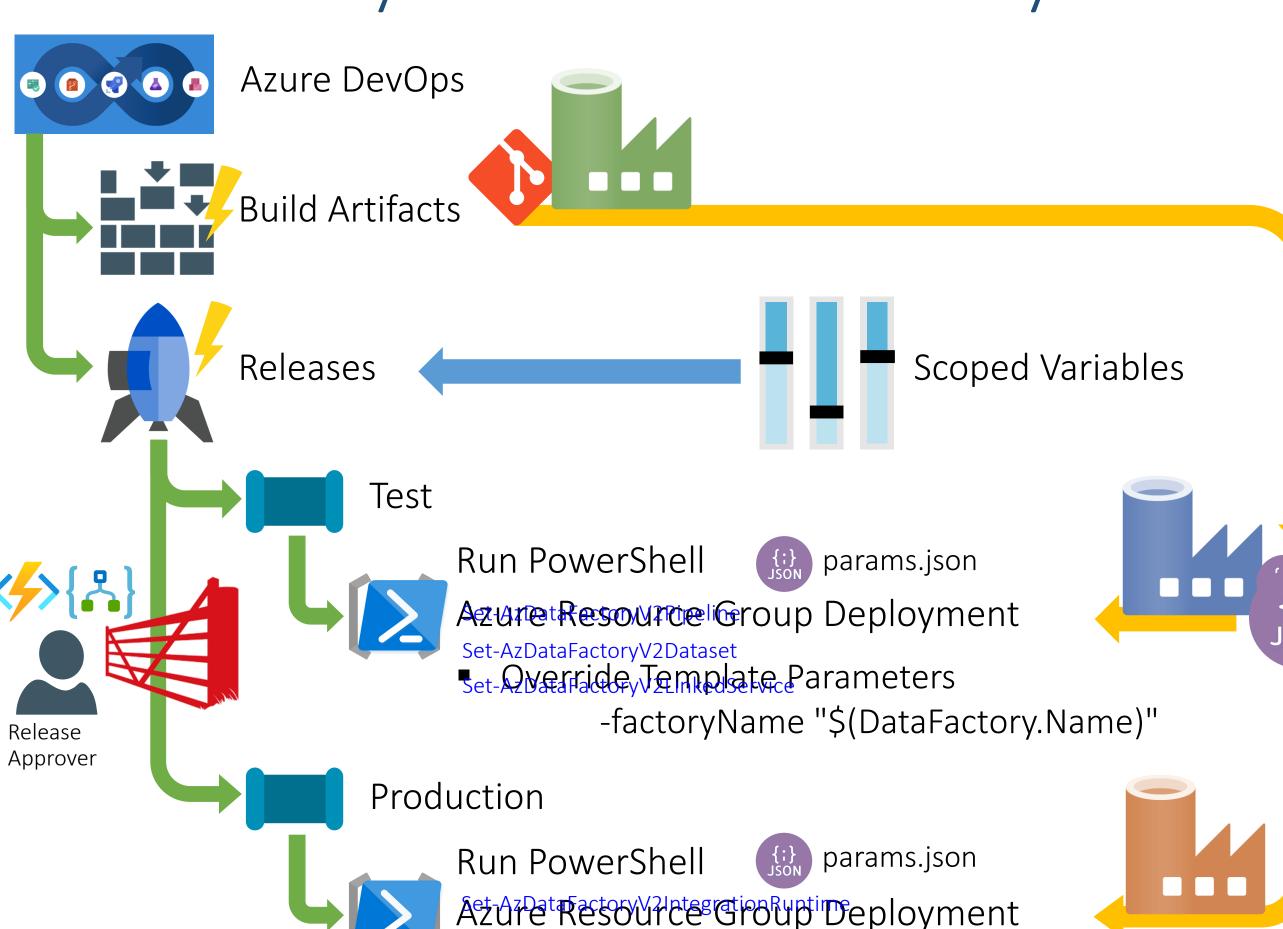


ARMTemplateForFactory.json



- Source Control vs Developer Ul
- Basic ARM Template Deployments
- Advanced Deployment Patterns

- Option 3



Set-AzDataFactoryV2Trigger

- 1 Linked Services
- 2 Datasets
- 3 Activities
- 4 Pipelines
- 5 Triggers

linkedservices.json
pipelines & activites.json
ARIVITEMPlateForFactory.json
datasets.json
triggers.json
andfstæublish

- Option 3



**Datasets** 

**Activities** 

**Pipelines** 

**Triggers** 

linkedservices.json pipelines & activites.json datasets.json

triggers.json

1) Handle own dependencies.

2) Handle own removals.



Scoped Variables



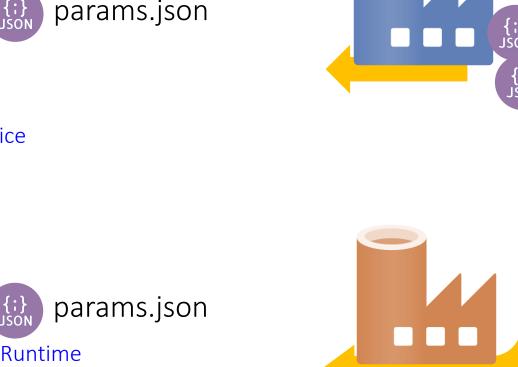


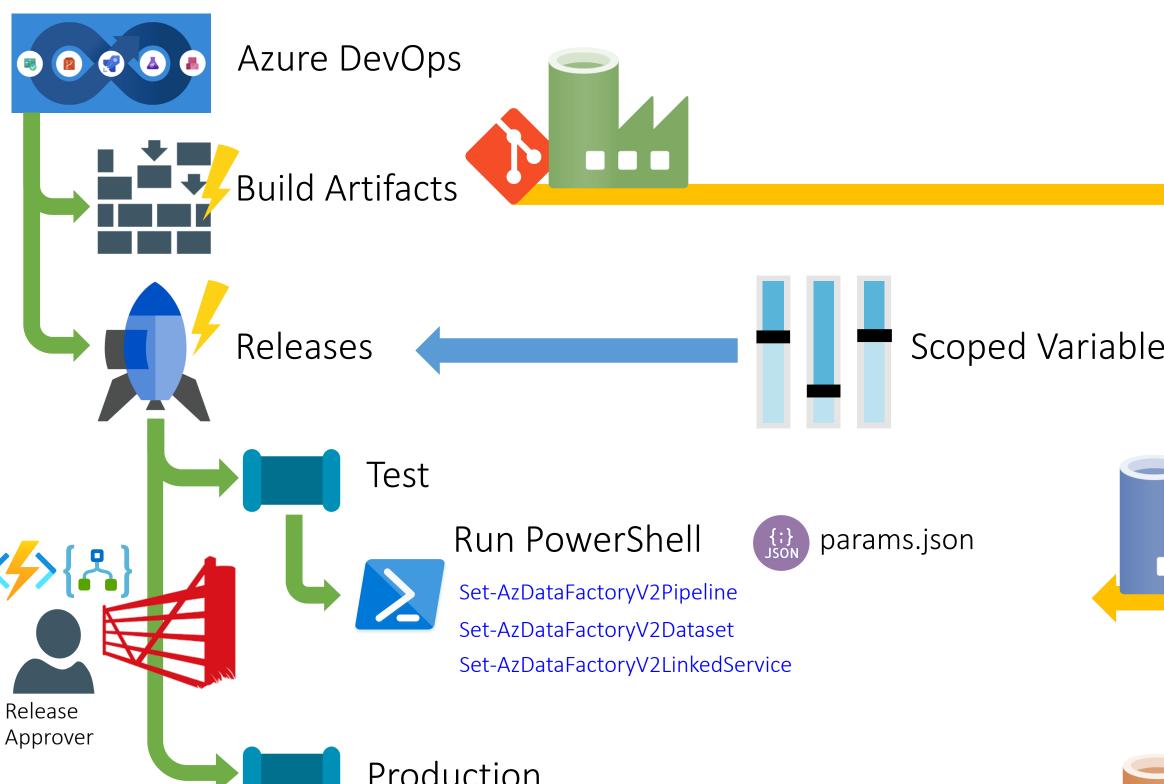
Run PowerShell



Set-AzDataFactoryV2IntegrationRuntime

Set-AzDataFactoryV2Trigger



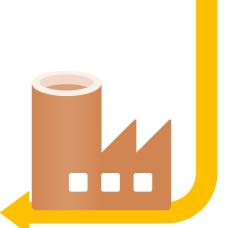


#### Data Factory Continuous Delivery - Option 4 Azure DevOps **Build Artifacts** Releases Scoped Variables Test Run PowerShell Import-Module -Name "azure.datafactory.tools" Publish-AdfV2FromJson -RootFolder \$AdfPath -ResourceGroupName \$resourceGroupName -DataFactoryName \$dataFactoryName -Location \$region Release -Stage \$configFilePath Approver Production

Publish Azure Data Factory

- **Linked Services Datasets Activities Pipelines**
- **Triggers**

linkedservices.json pipelines & activites.json datasets.json triggers.json





## Deployment Options Summary





Option 1 – Use a single Data Factory service.

Option 2 – ARM Templates for multiple Data Factory services (environments).

Option 3 – Use PowerShell cmdlets for each ADF artifact.

Option 4 – Use a PowerShell module or custom Azure DevOps task.



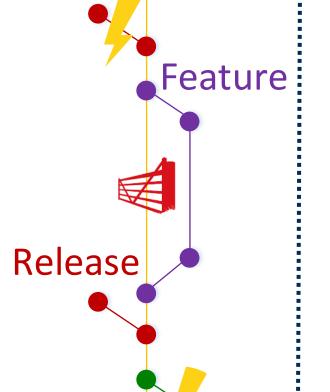
## Data Factory DevOps Story Summary





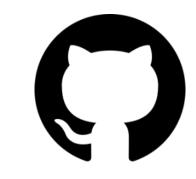
Feature

Master



Which source control tool to use?





How many environments do we want?









What deployment method do we want to use?



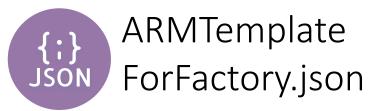


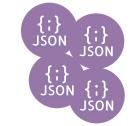


What artifacts are we going to use?...

OR

How much control do you want?



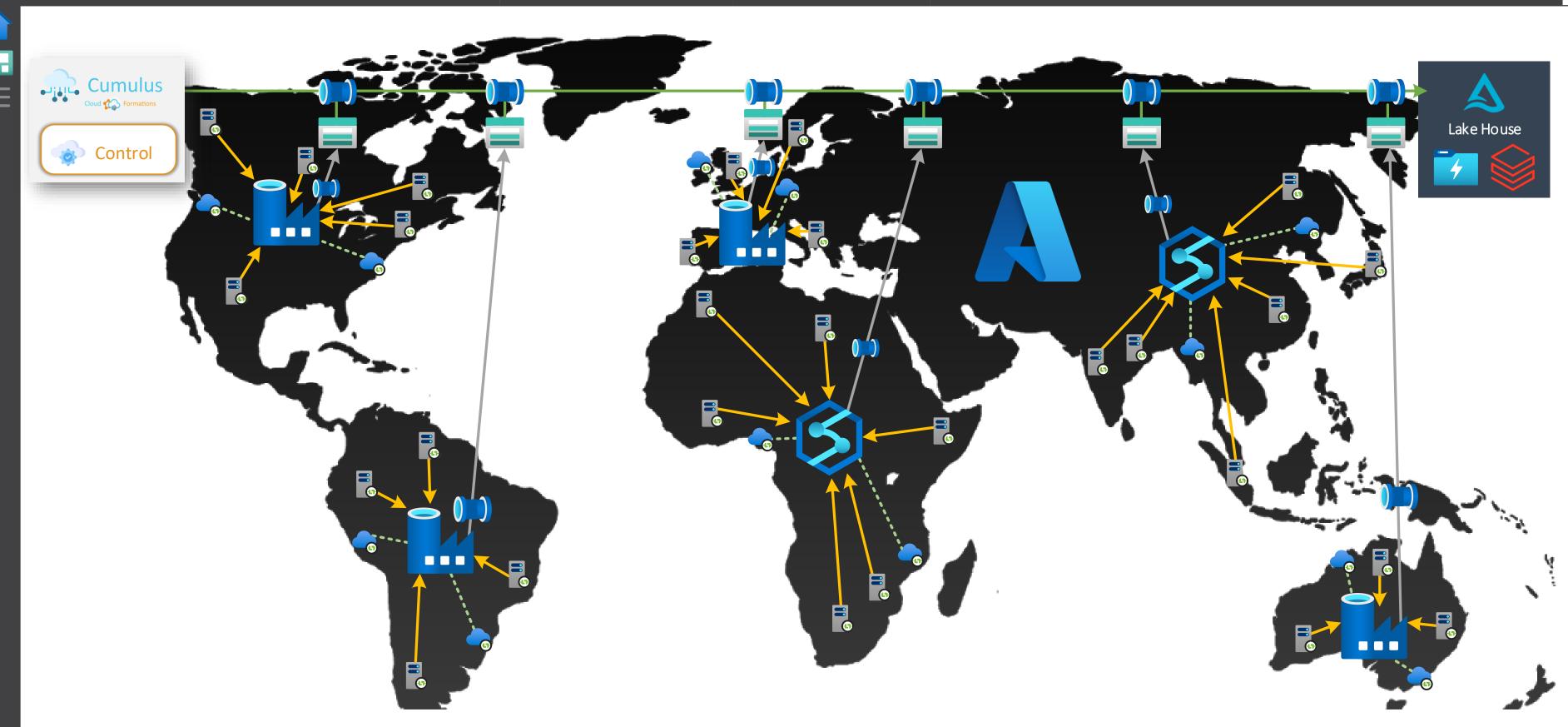


linkedservices.json
pipelines &
activites.json
datasets.json
triggers.json



# Hub & Spoke Integration Architecture

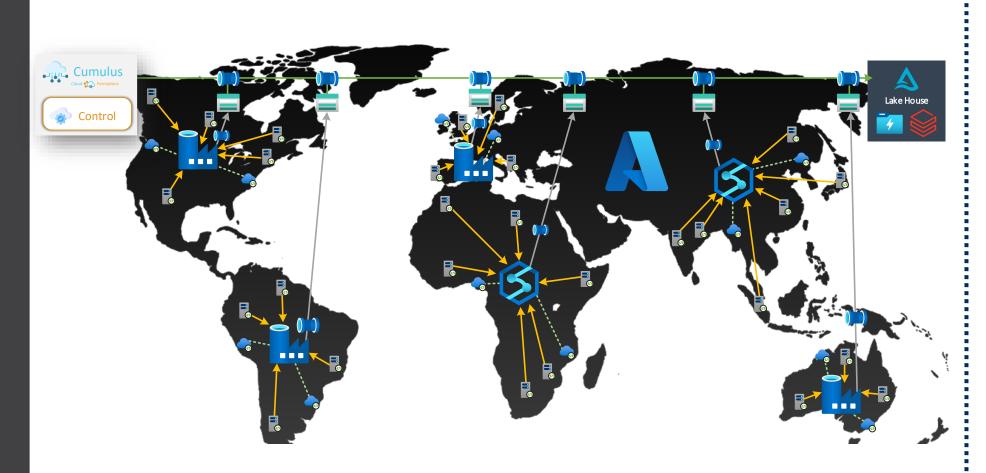


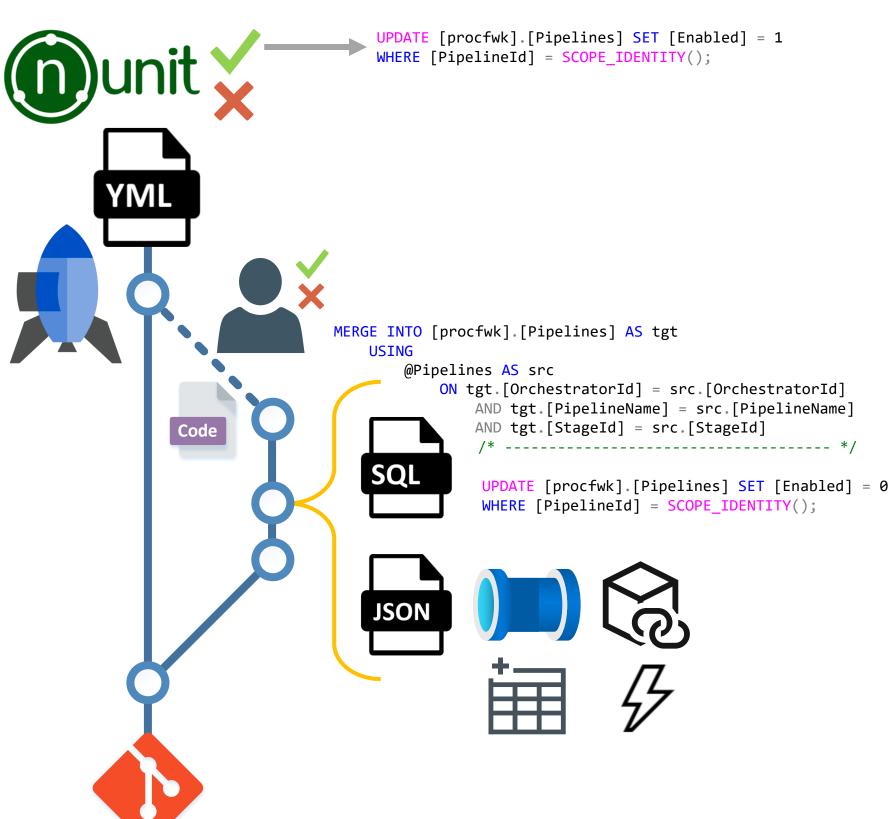




## How Small Can Deployments Be?



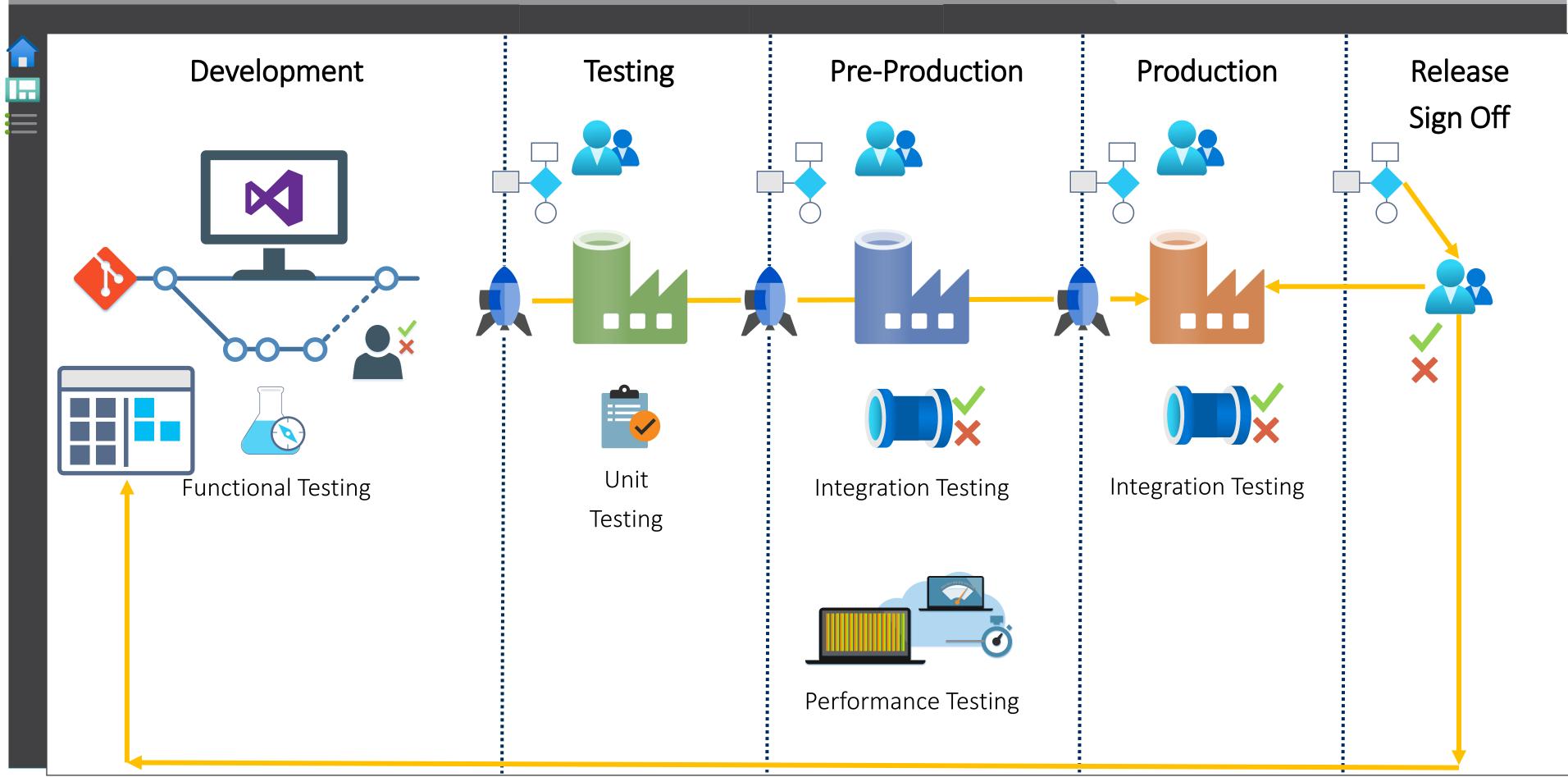






## Deployment Life Cycle & Gateway





```
SELECT
    [Contents]
FROM
    [Training]
WHERE
    [Module] = '11';
   --module, fetch next
```

- Source Control vs Developer UI
- Basic ARM Template Deployments
- Advanced Deployment Patterns