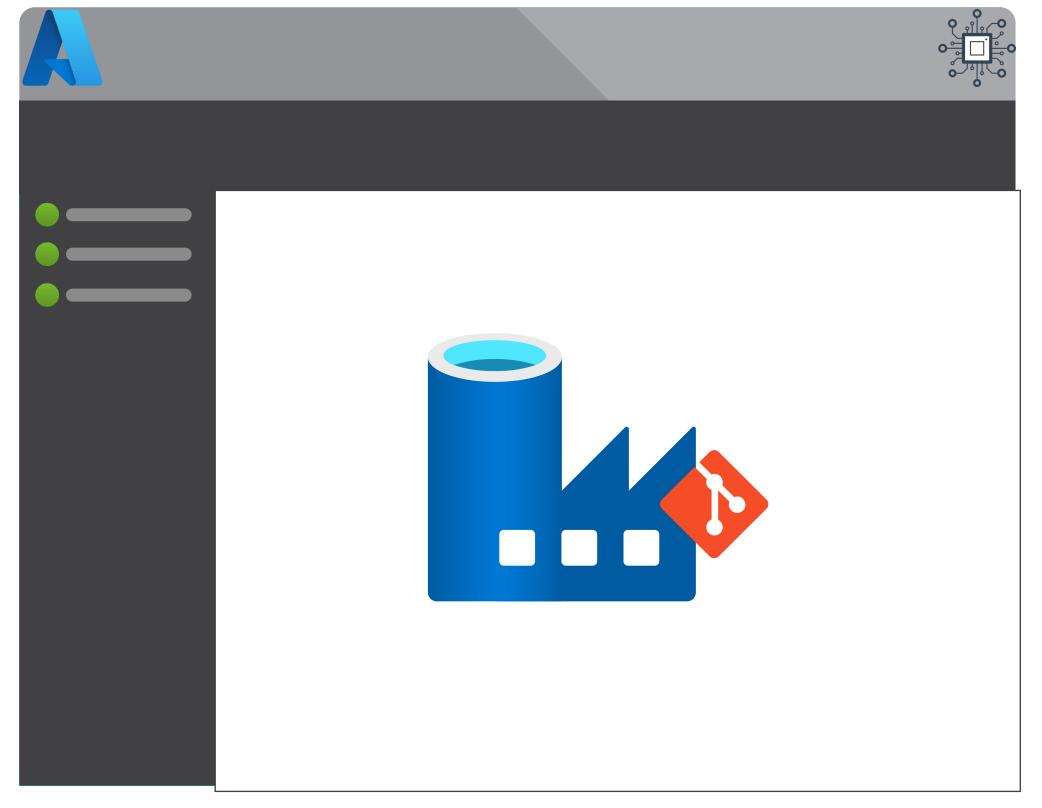
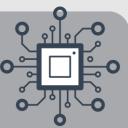


- Source Control vs Developer UI
- Basic ARM Template Deployments
- Advanced Deployment Patterns



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







Open Azure Data Factory Studio

Start authoring and monitoring your data pipelines and data flows.

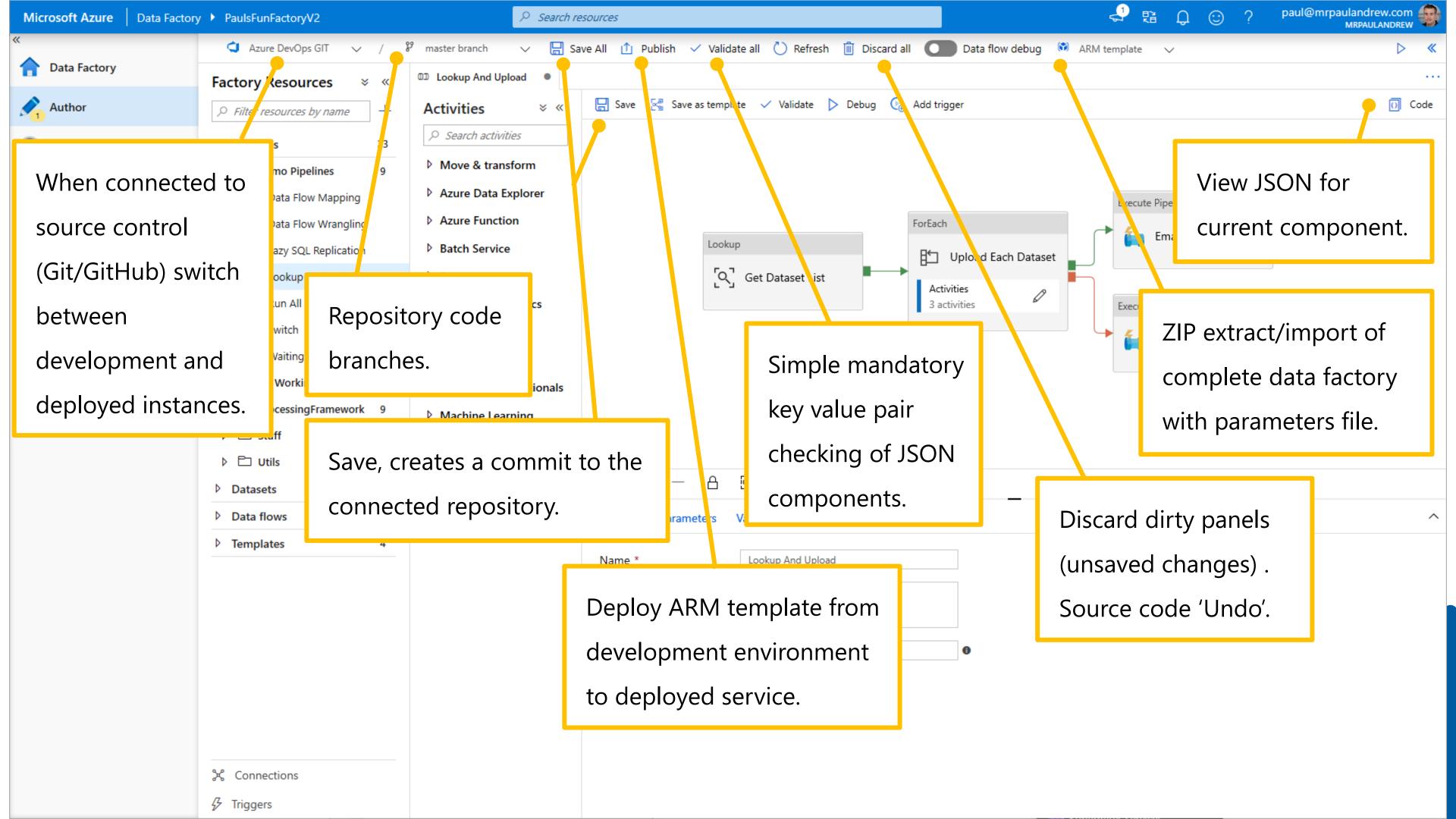
Open 🗹

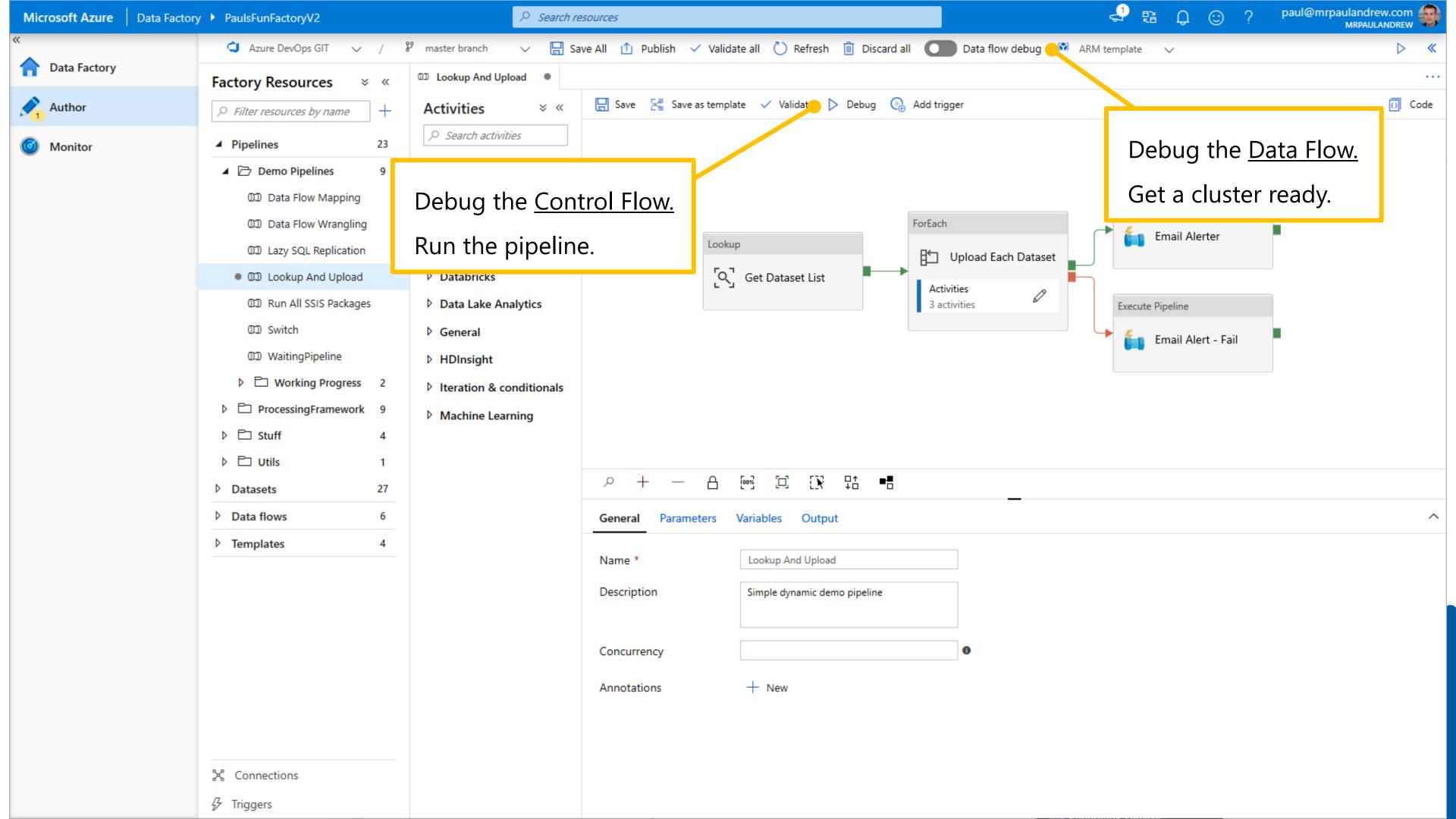


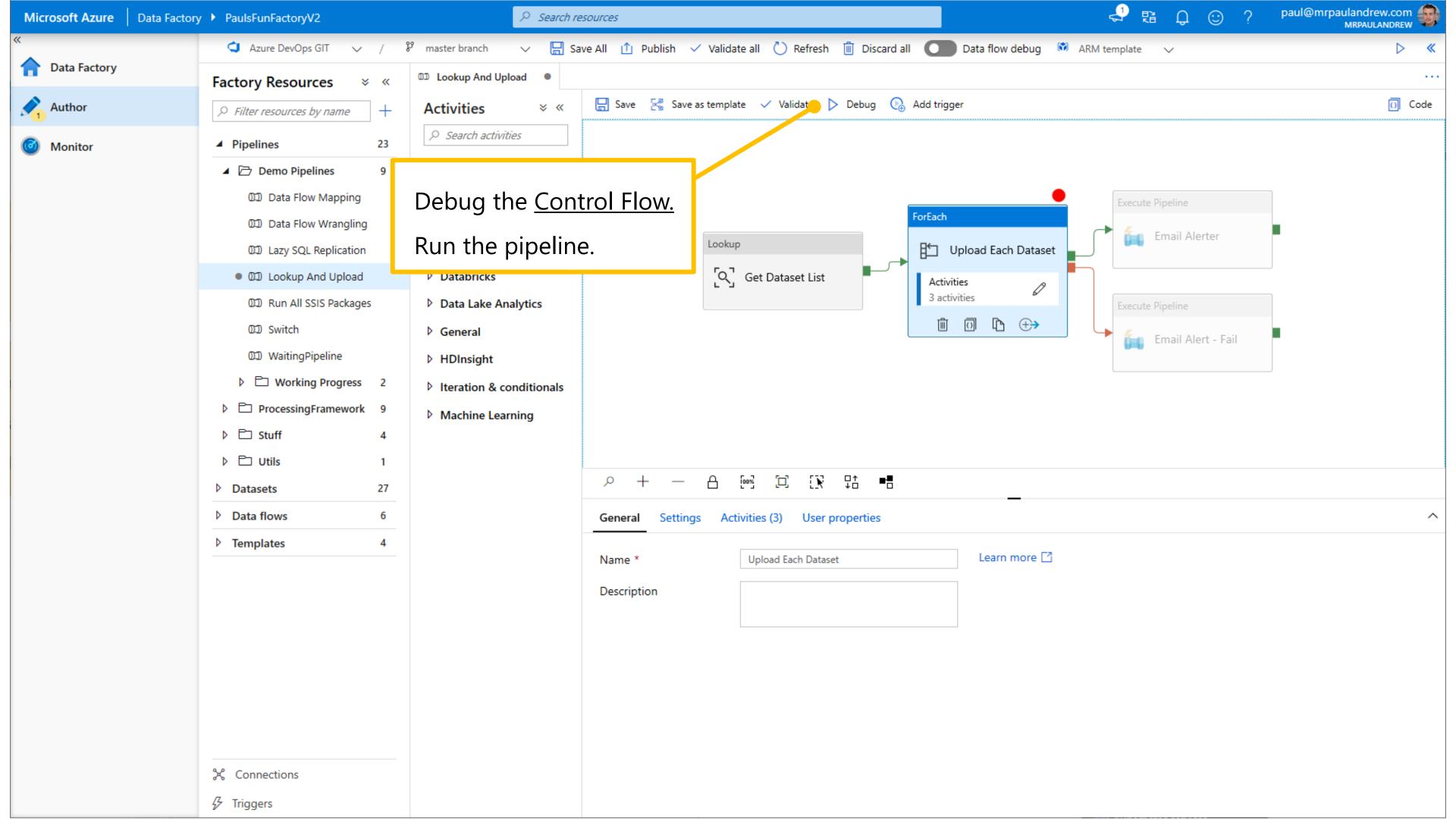
Read documentation

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

Learn more 🗹



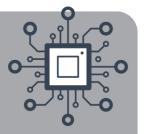


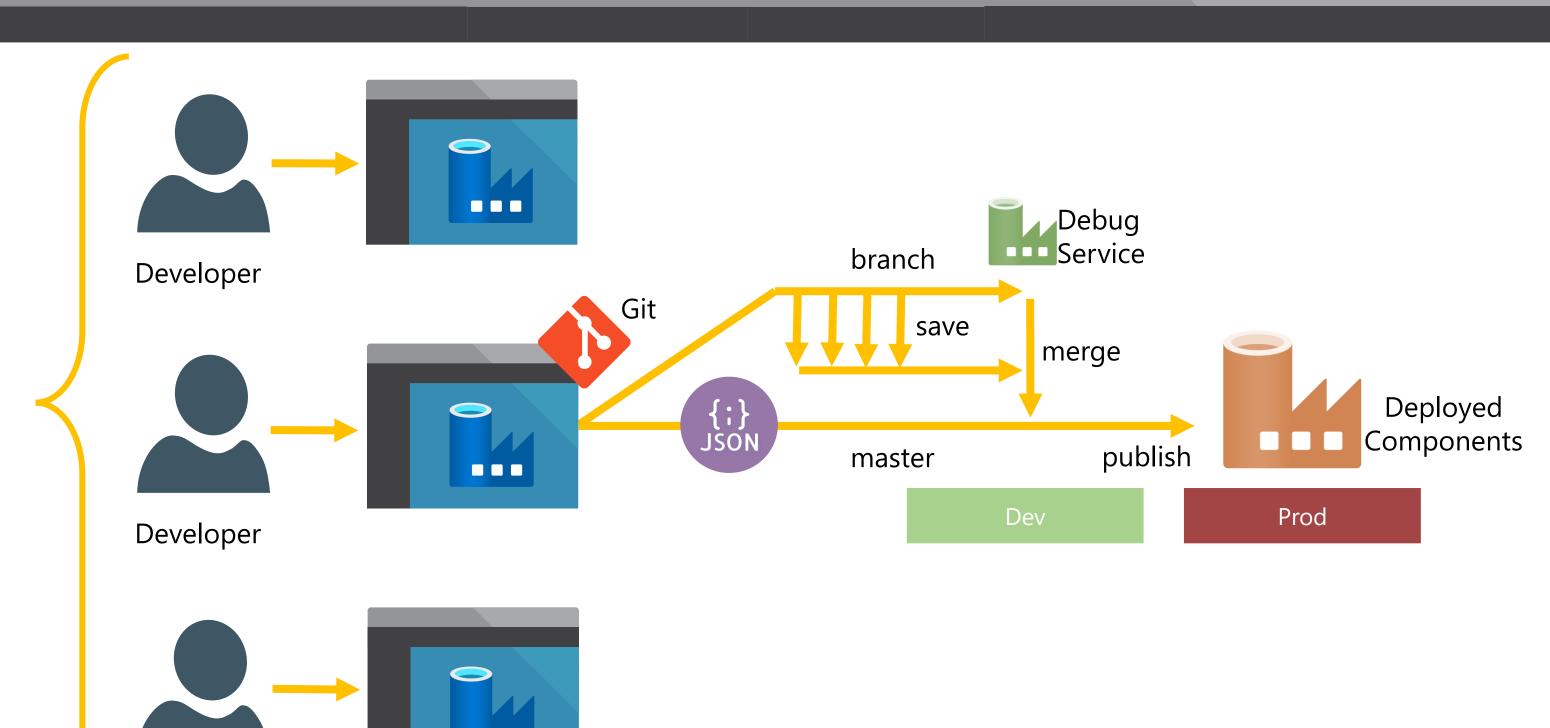




Developer

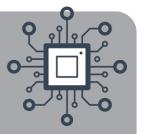
Data Factory Continuous Integration

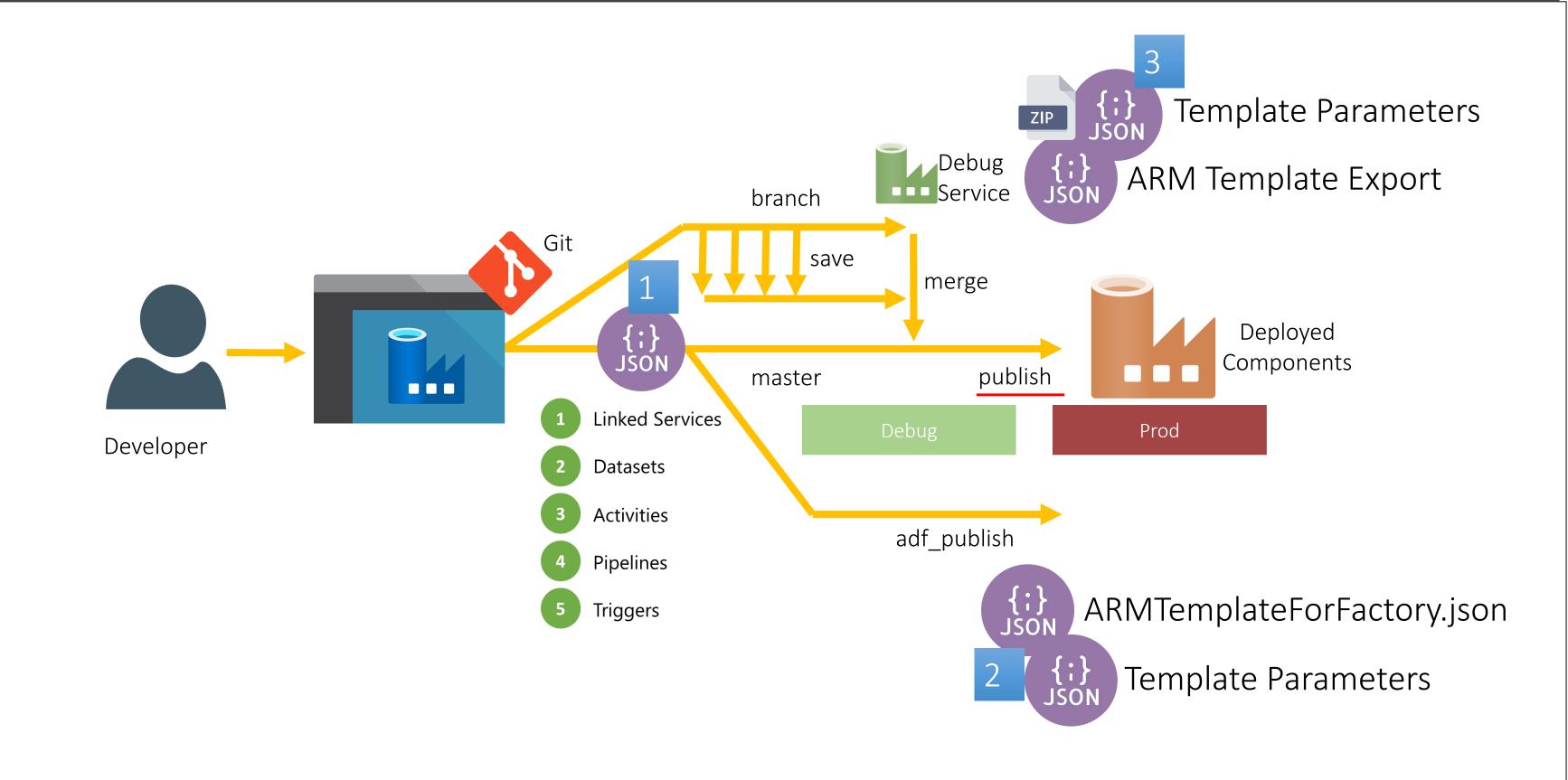


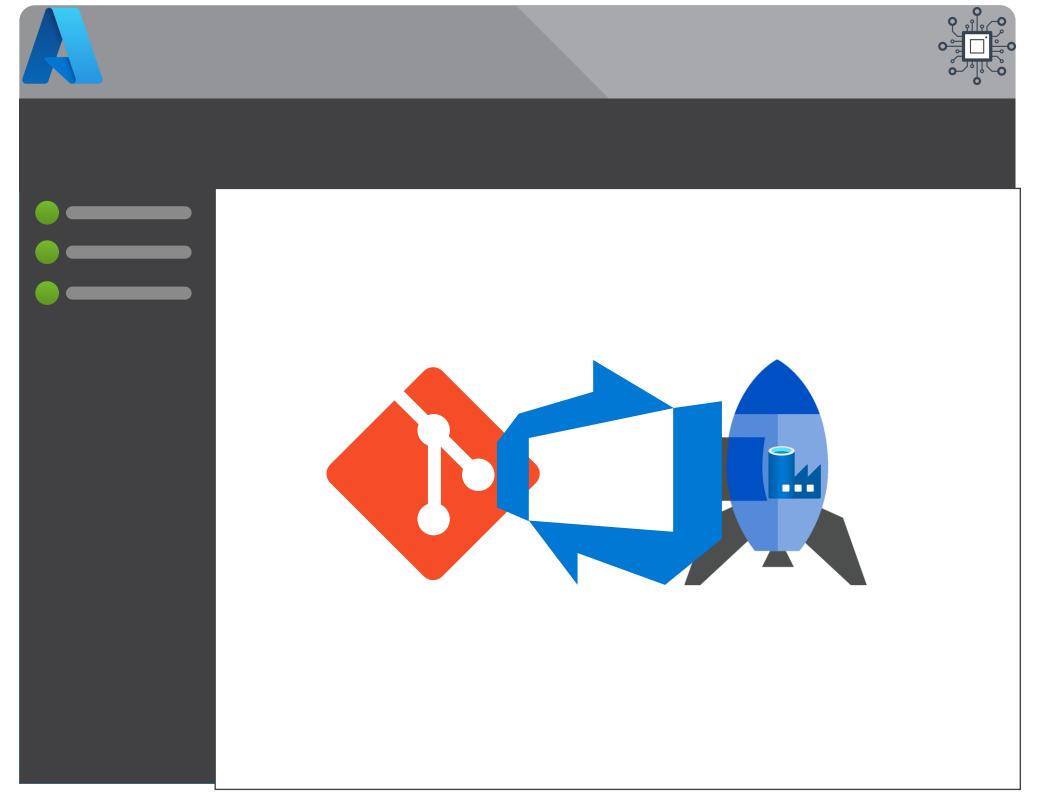




Getting Our ADF Source Code

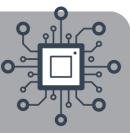


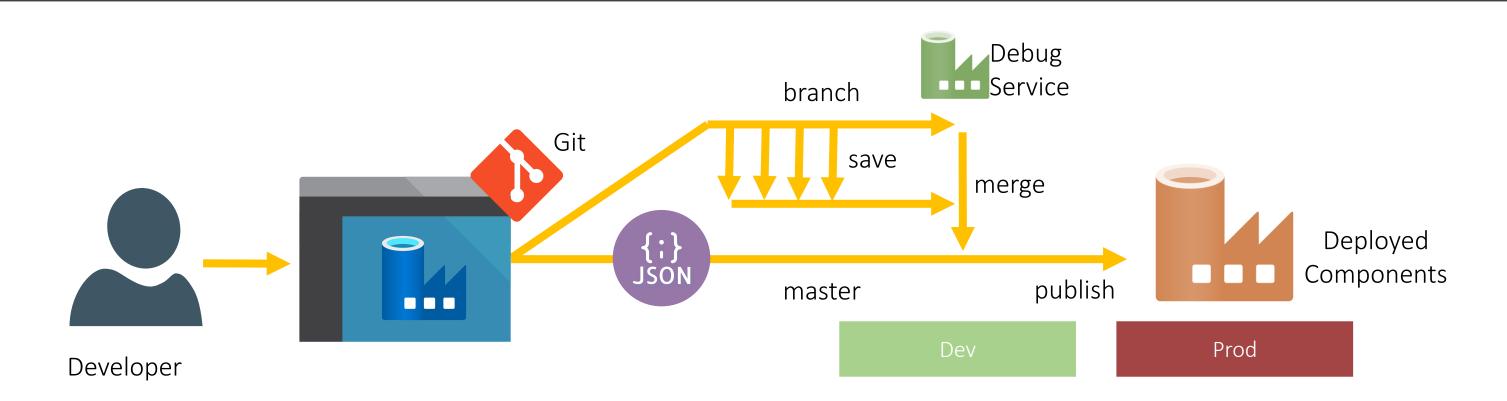




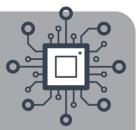
- Source Control vs Developer Ul
- Basic ARM Template Deployments
- Advanced Deployment Patterns

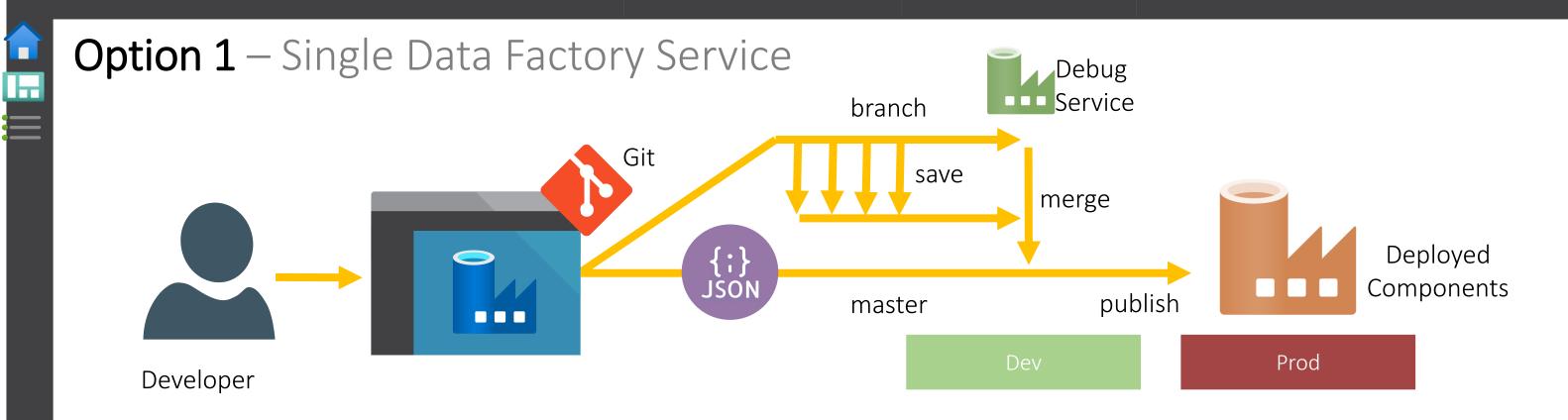




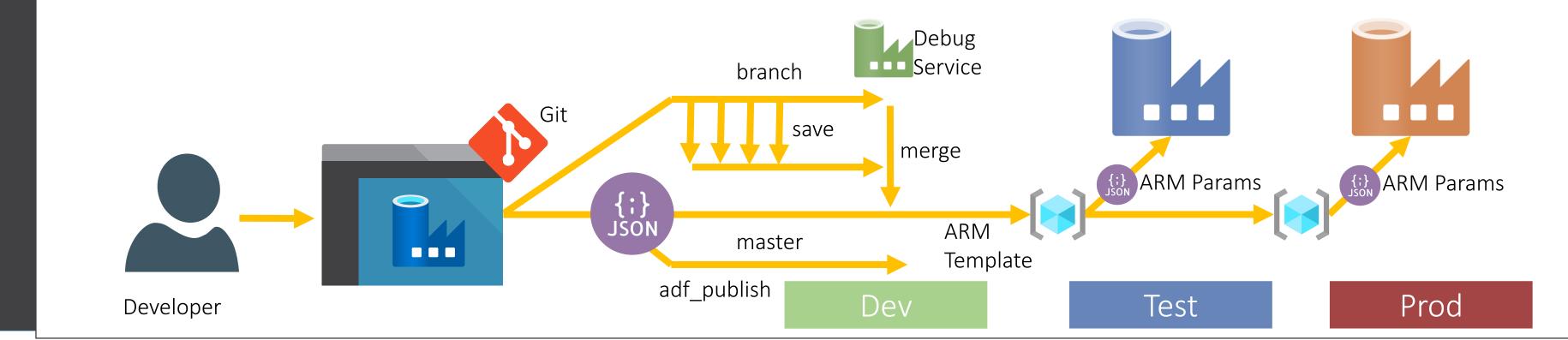


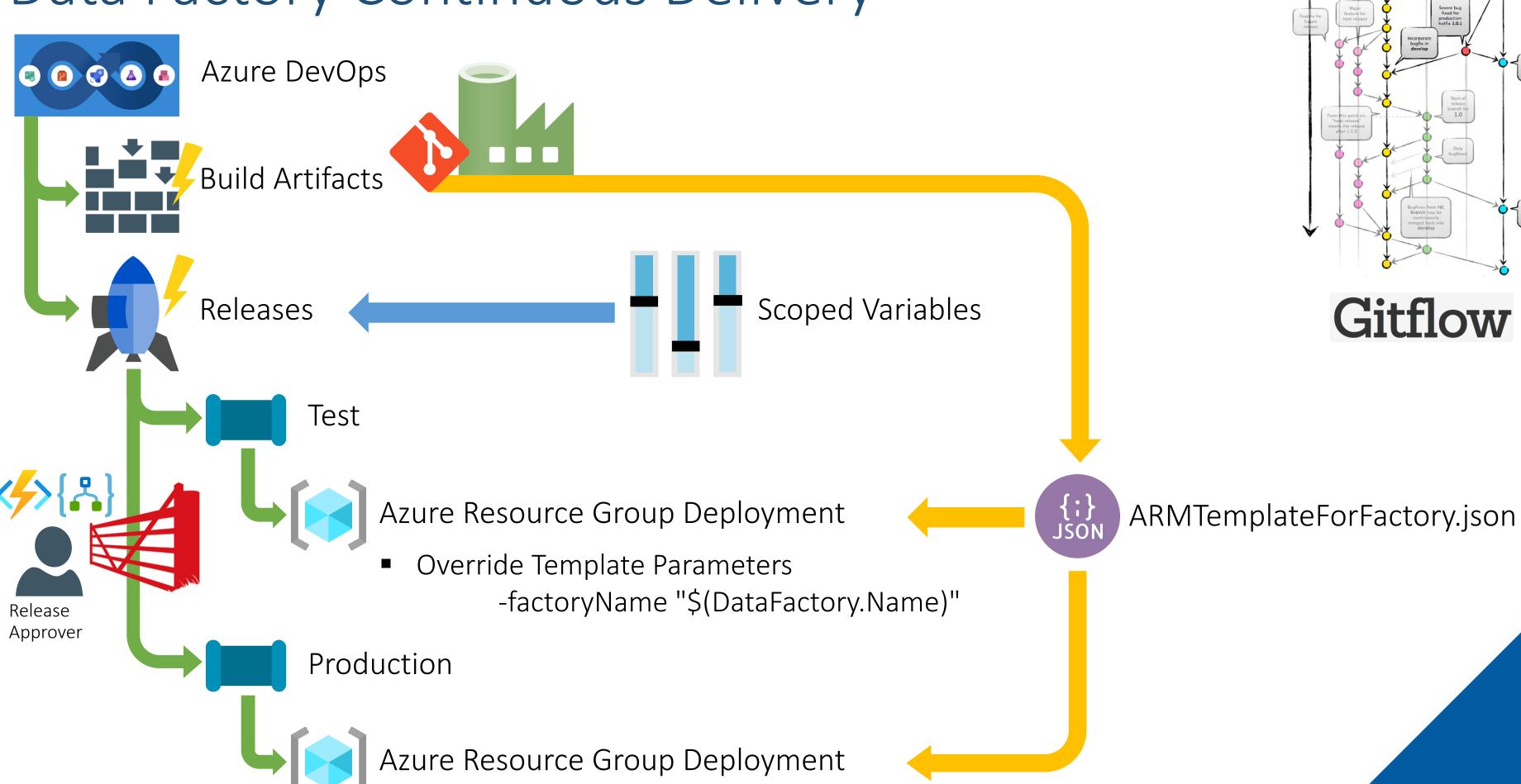


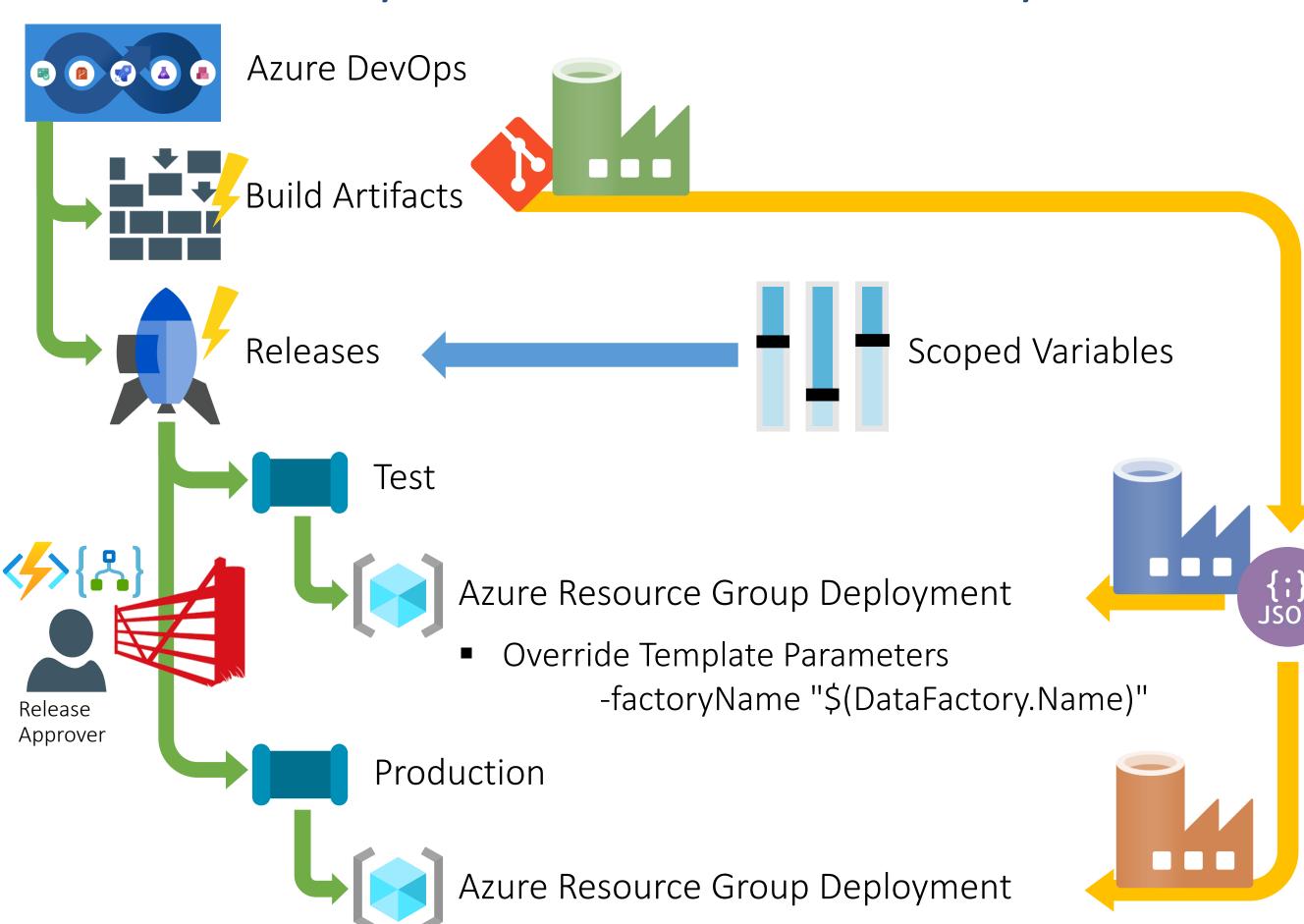




Option 2 – ARM Templates for Multiple Data Factory Services

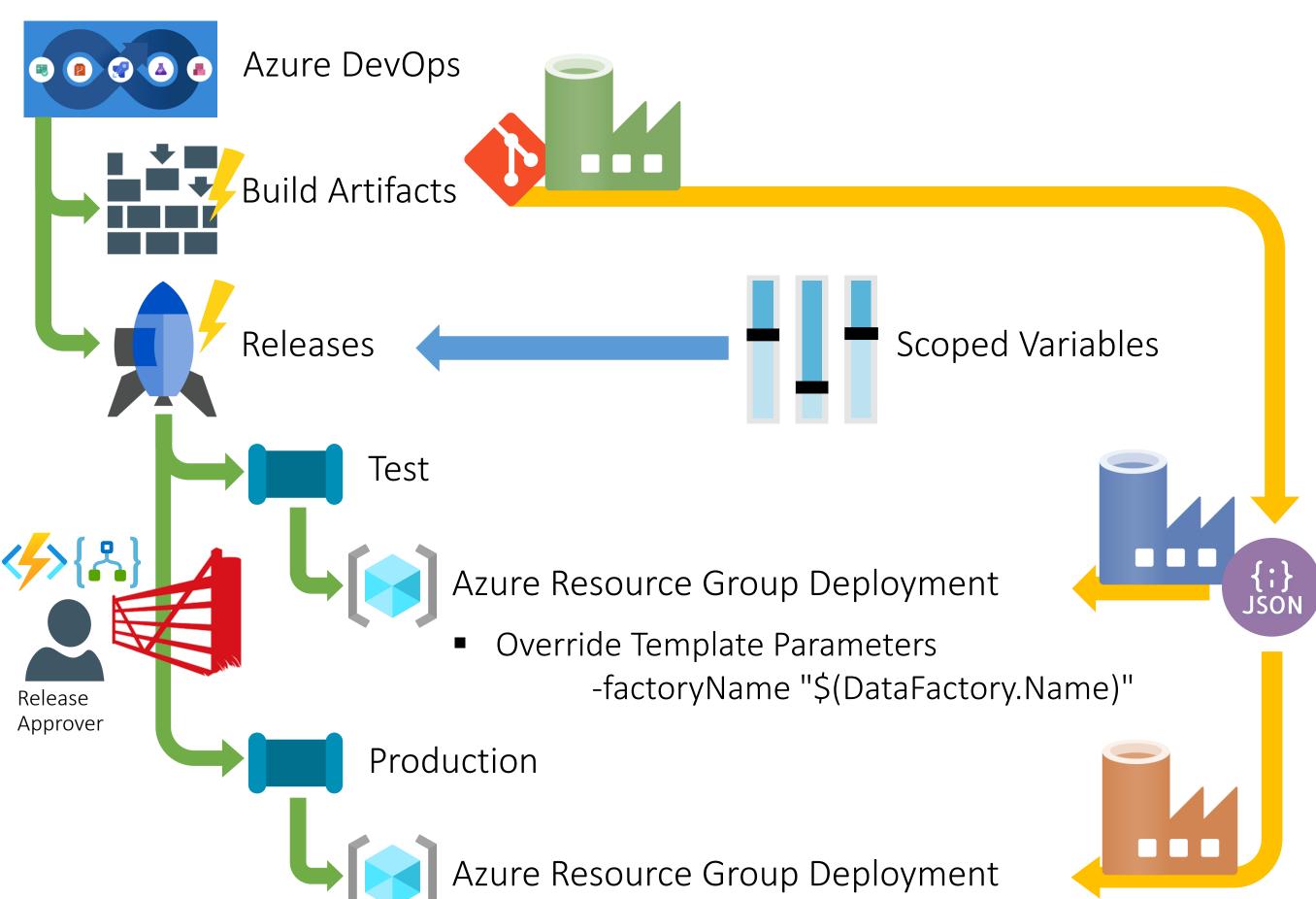






- 1 Linked Services
- 2 Datasets
- 3 Activities
- 4 Pipelines
- 5 Triggers

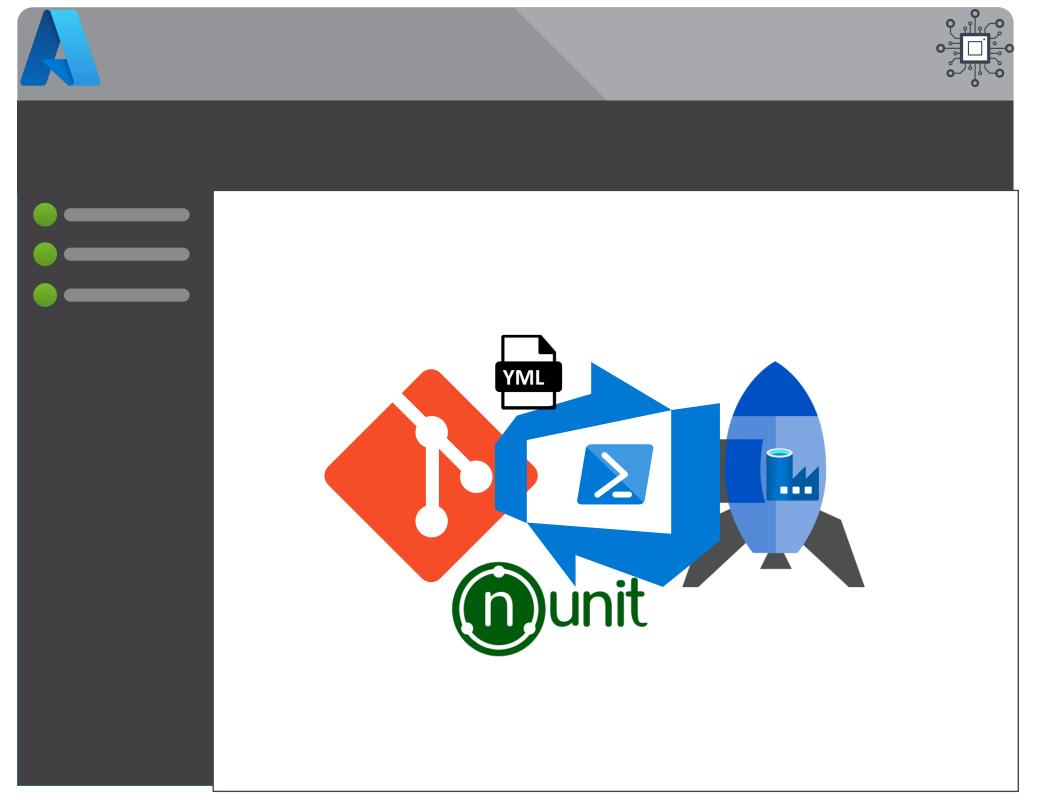
ARMTemplateForFactory.json





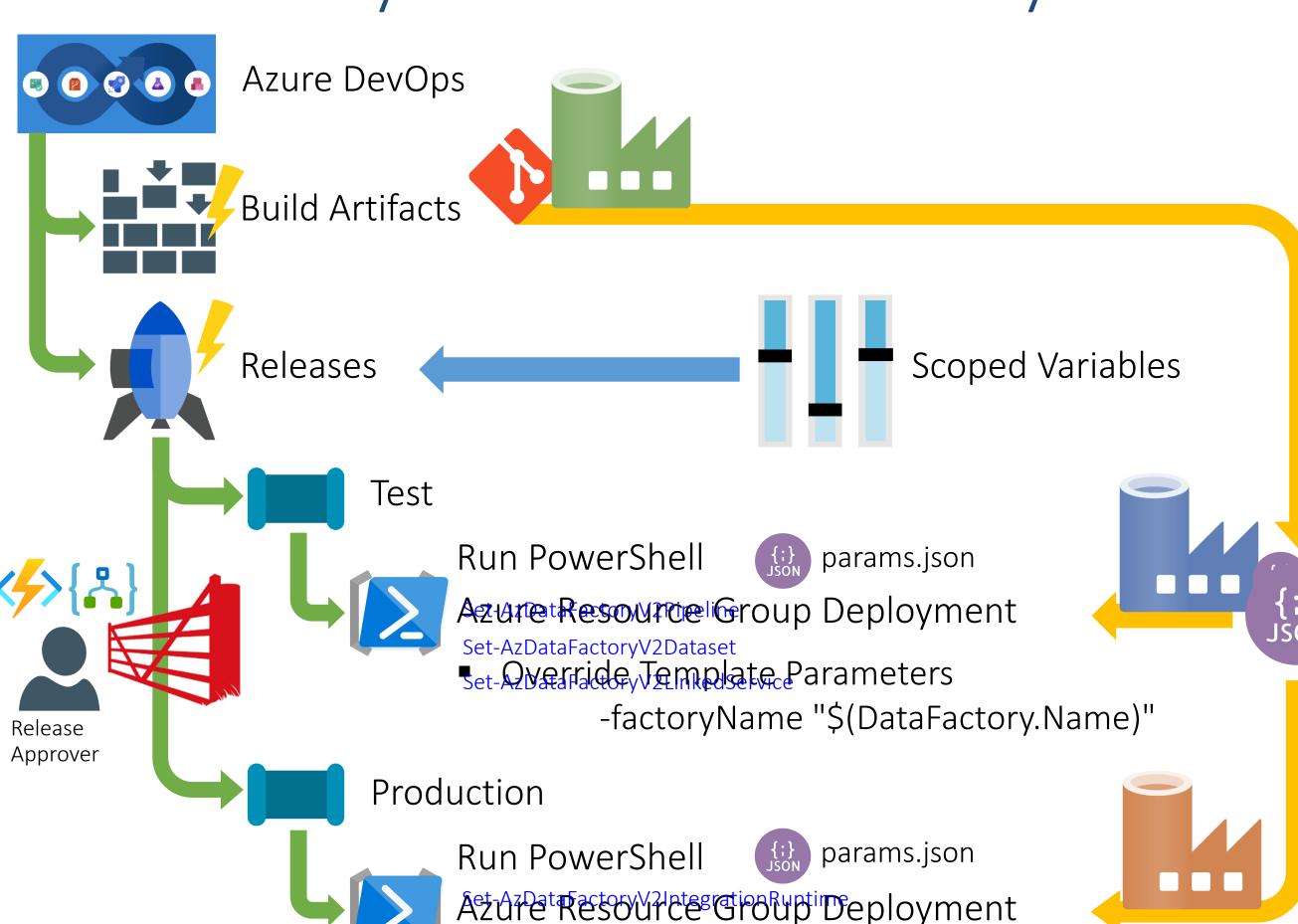


ARMTemplateForFactory.json



- 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
ARIVITEMPIATEFORFactory.json
datasets.json
triggers.json
andfstæublish

- Option 3



2 Datasets

3 Activities

4 Pipelines

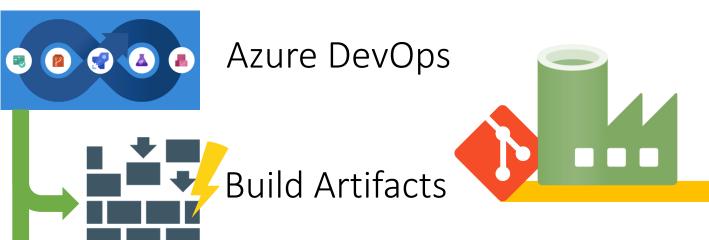
5 Triggers

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

Caveats

1) Handle own dependencies.

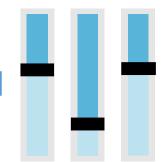
2) Handle own removals.





Release

Approver



Scoped Variables



Test

Run PowerShell



params.json

Set-AzDataFactoryV2Pipeline

Set-AzDataFactoryV2Dataset

Set-AzDataFactoryV2LinkedService

Production



Run PowerShell

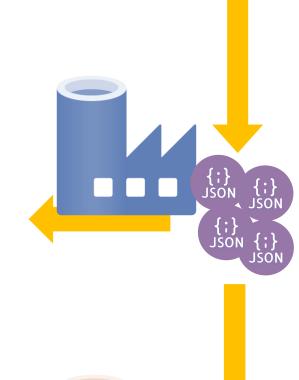


params.json

Set-AzData Factory V2 Integration Runtime

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

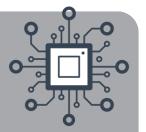
Publish Azure Data Factory

- 1 Linked Services2 Datasets3 Activities
- 4 Pipelines
- 5 Triggers

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



Deployment Options Summary





Option 1 – Use a single Data Factory service.

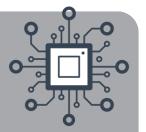
Option 2 – ARM Templates for multiple Data Factory services (environments).

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



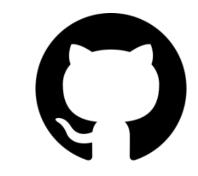




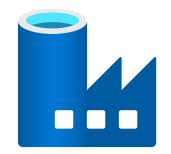
Master

Which source control tool to use?





How many environments do we want?









What deployment method do we want to use?



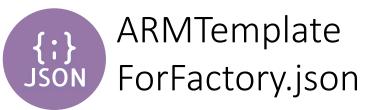




What artifacts are we going to use?...

OR

How much control do you want?

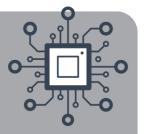


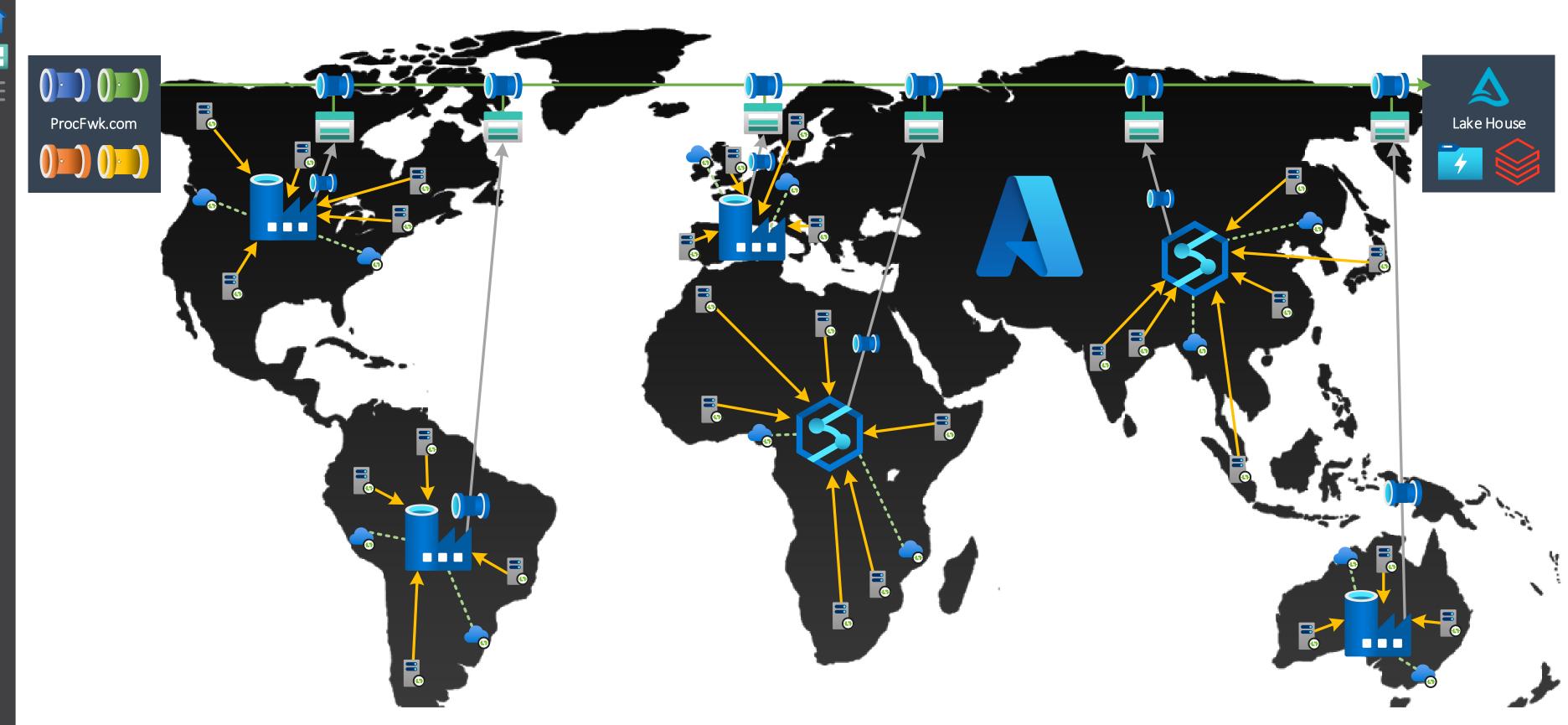


linkedservices.json
pipelines &
activites.json
datasets.json
triggers.json



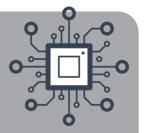
Hub & Spoke Integration Architecture



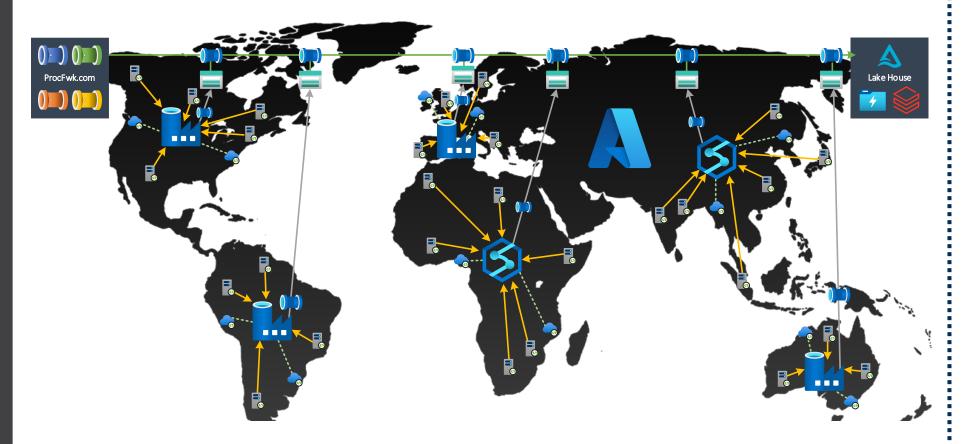


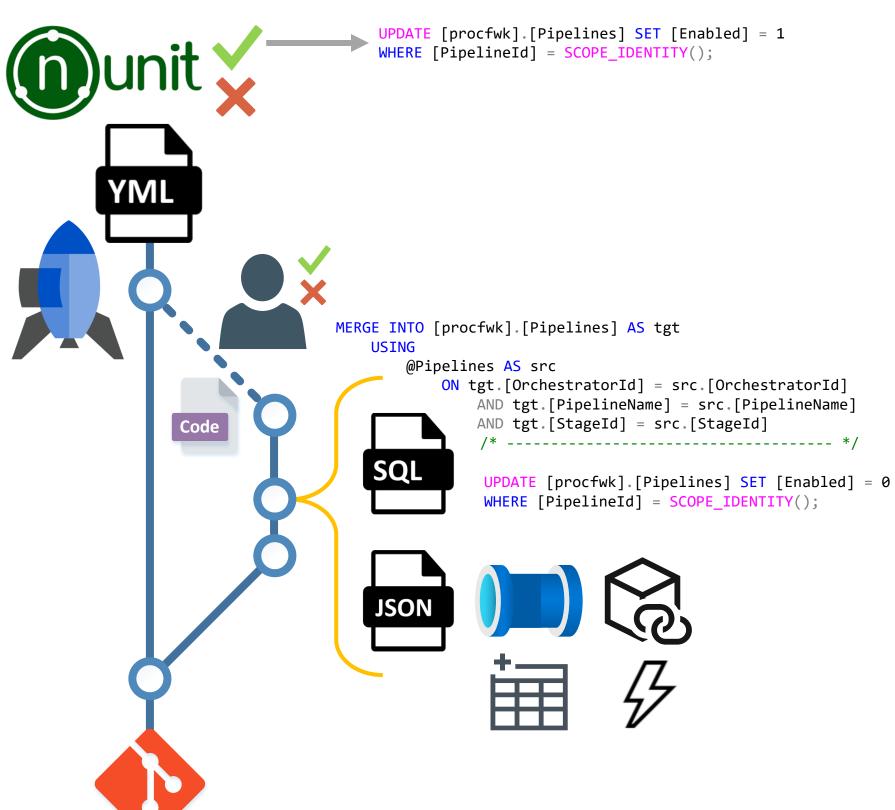


How Small Can Deployments Be?



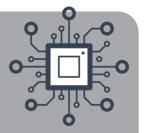


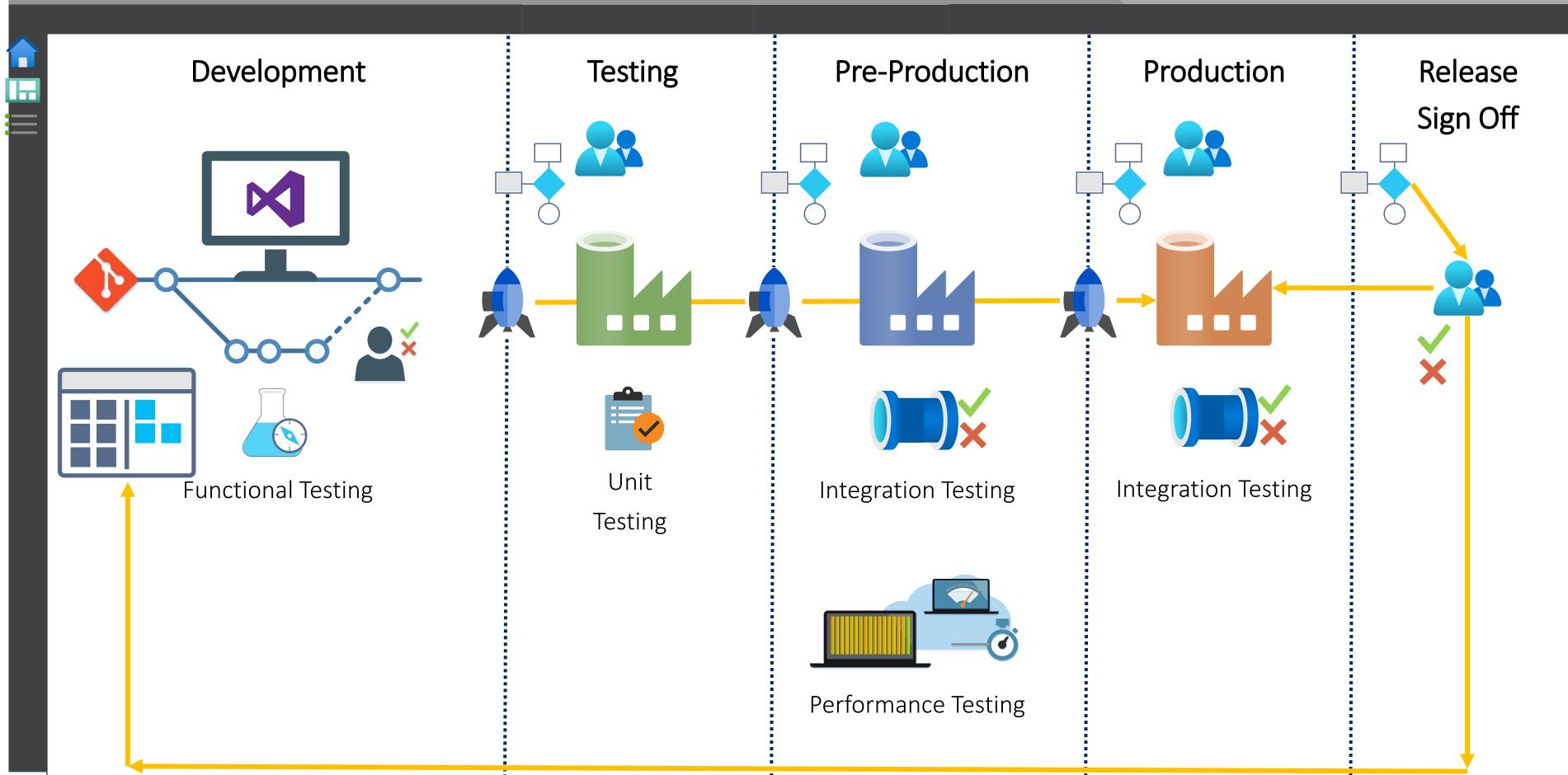






Deployment Life Cycle & Gateway





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

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