Using Azure DevOps

for Azure Data Factory



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https://github.com/mrpaulandrew

CommunityEvents

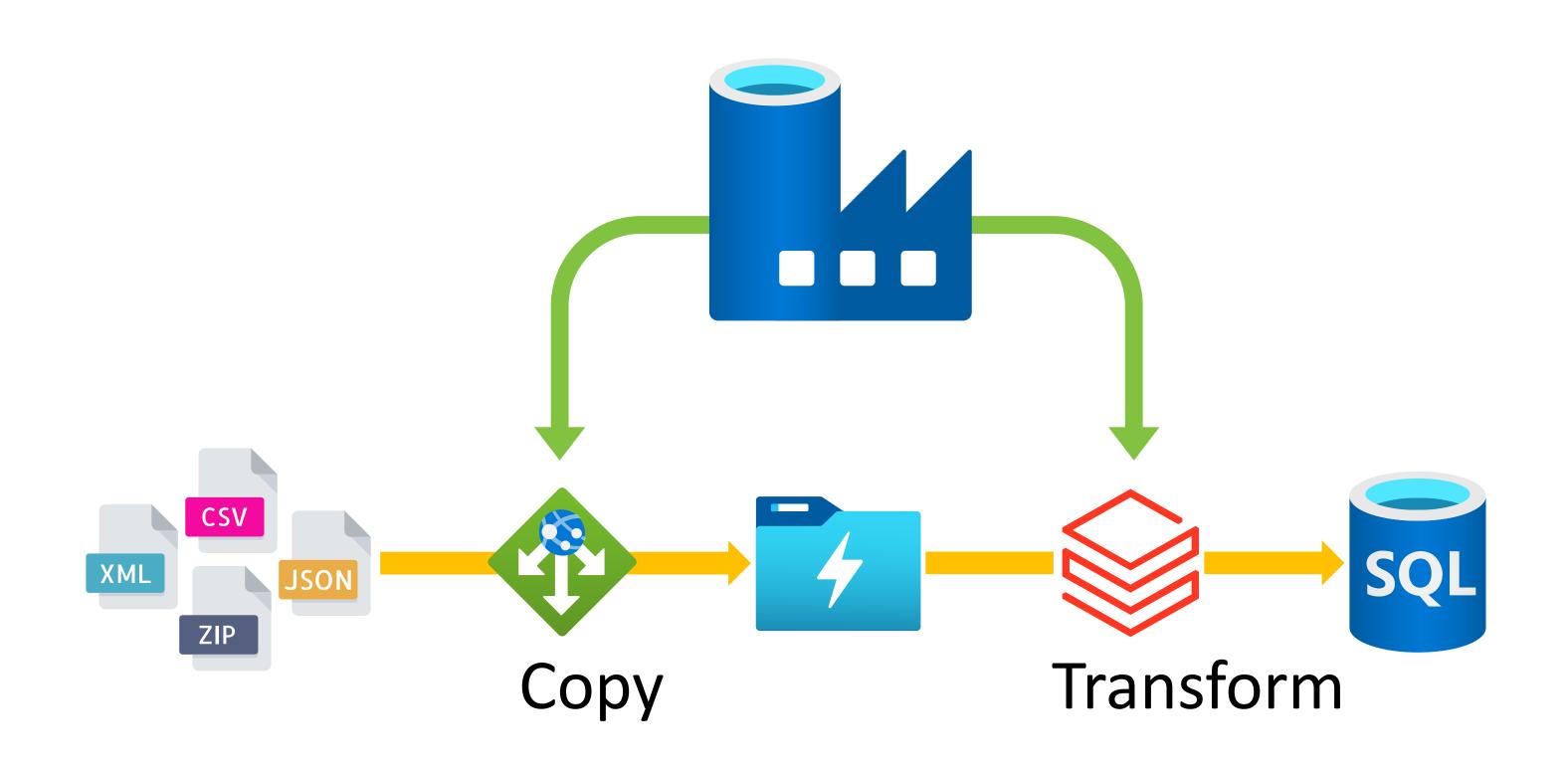
Demo code, content and slides from various community events.

C++

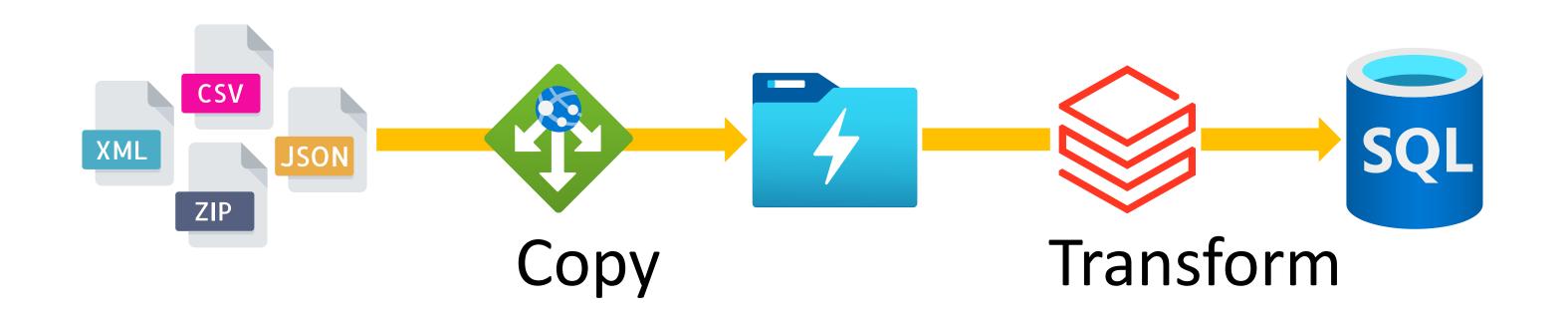
{Event/Location}-{Month}-{Year}

Azure Data Factory A Quick Overview

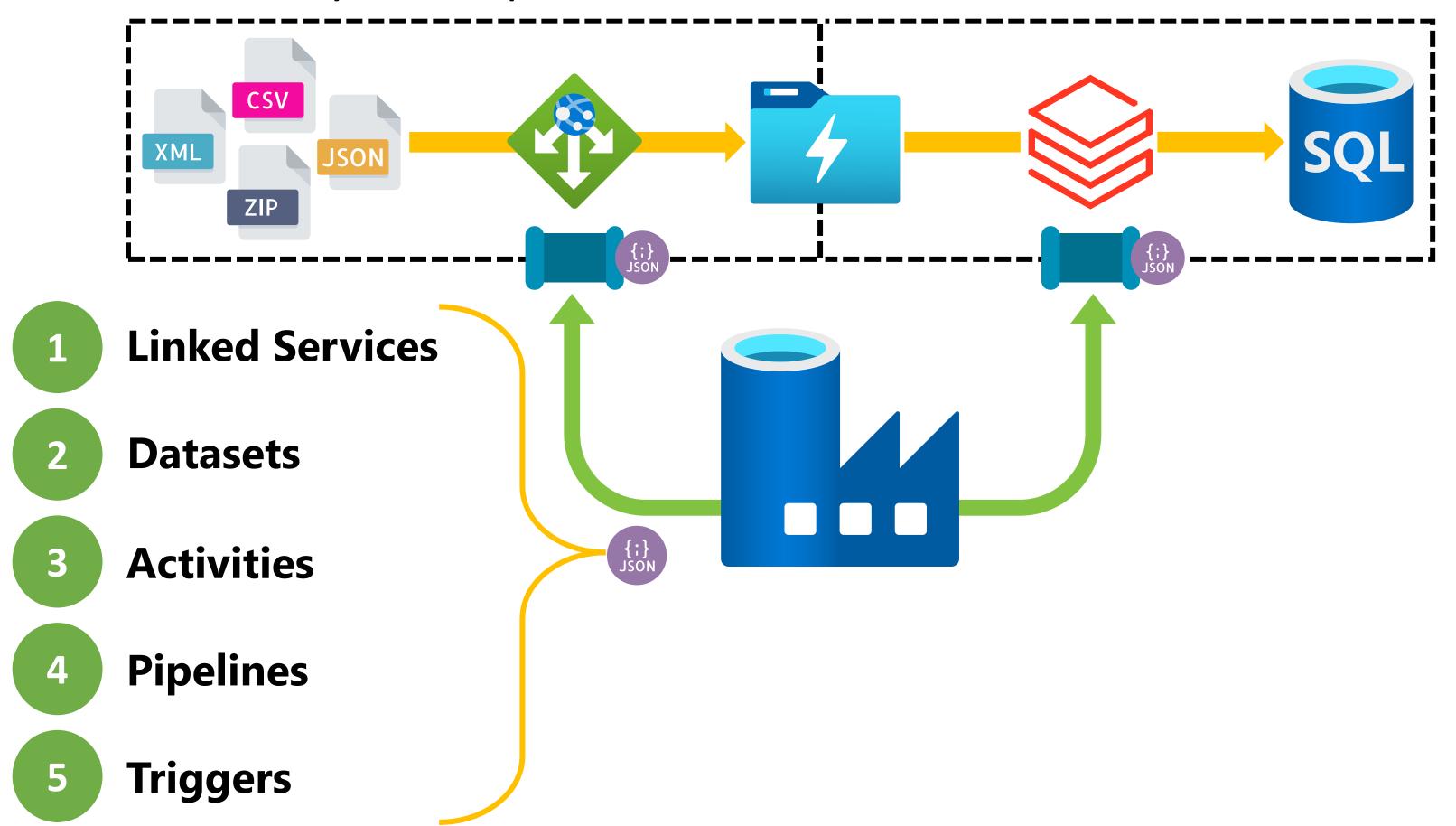
What is Azure Data Factory (ADF)?



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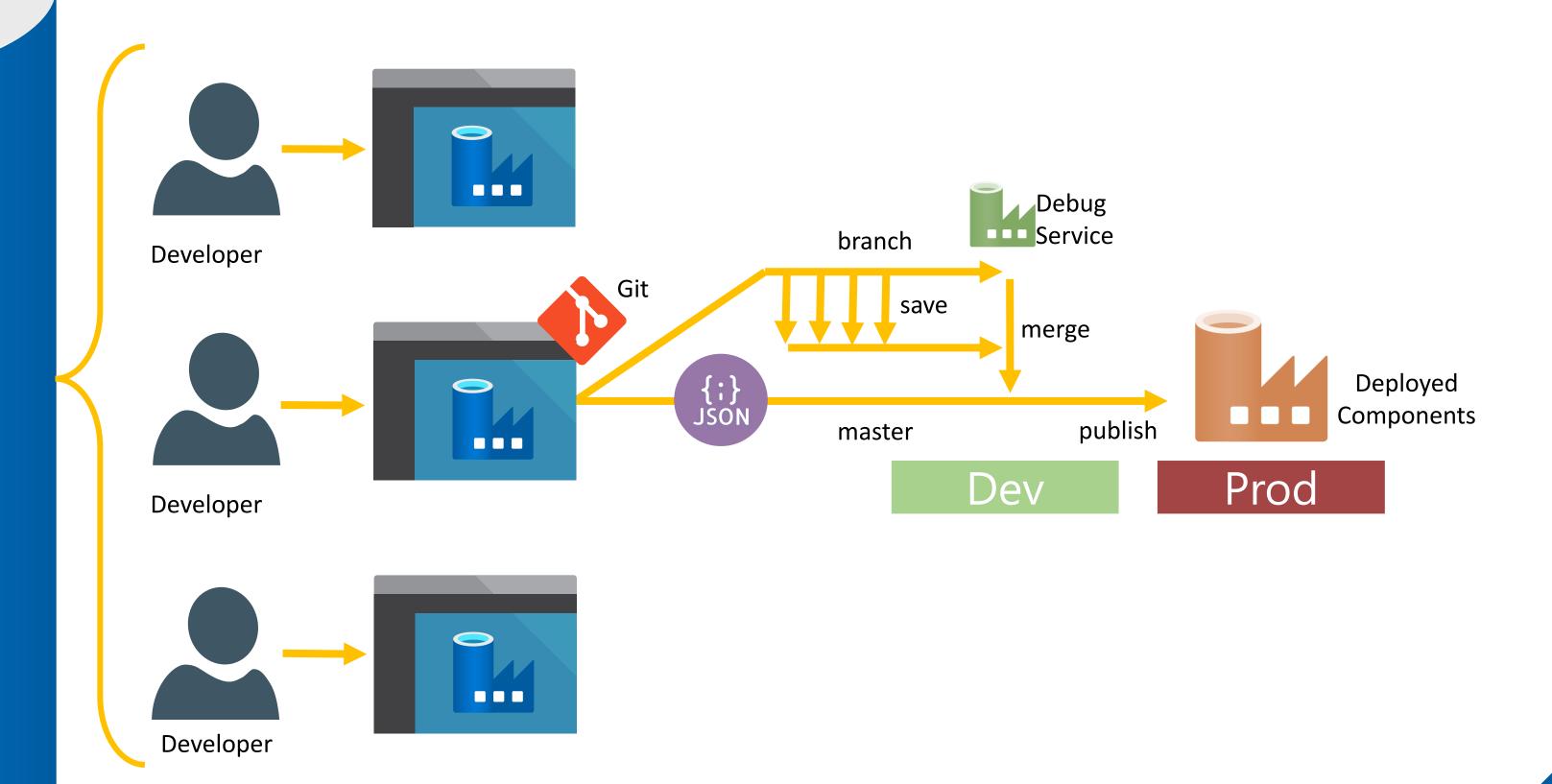


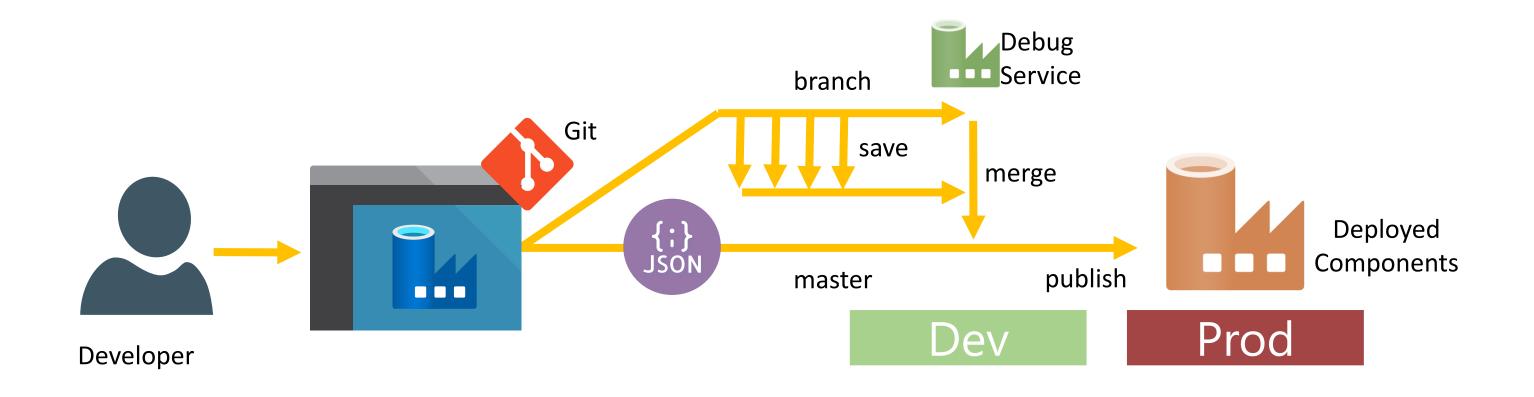
Data Factory Components



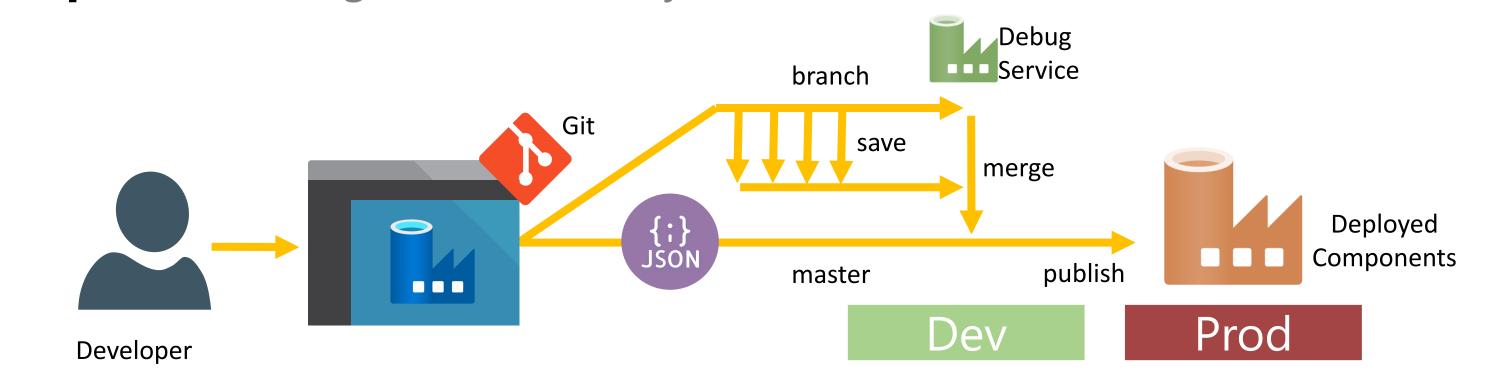
Data Factory DevOps

Data Factory Continuous Integration

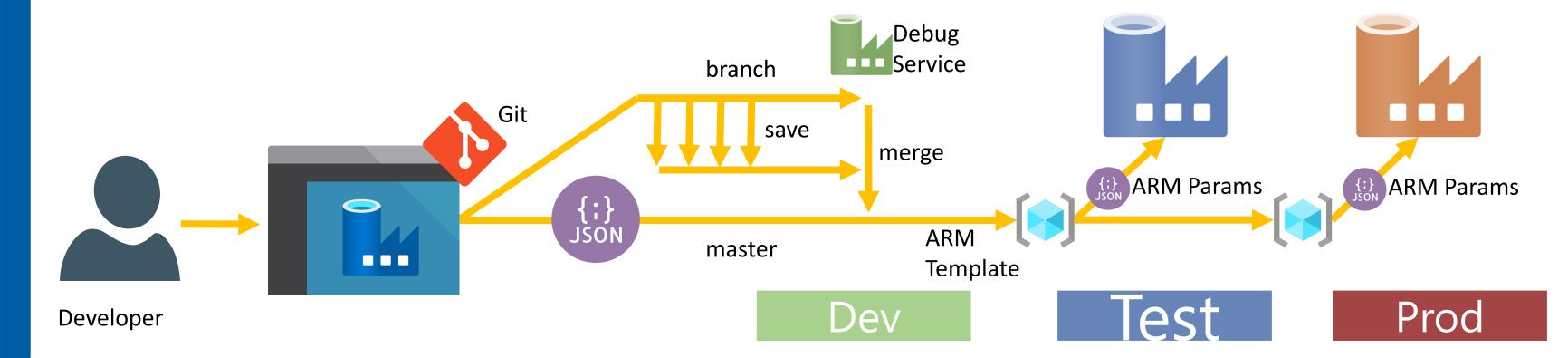


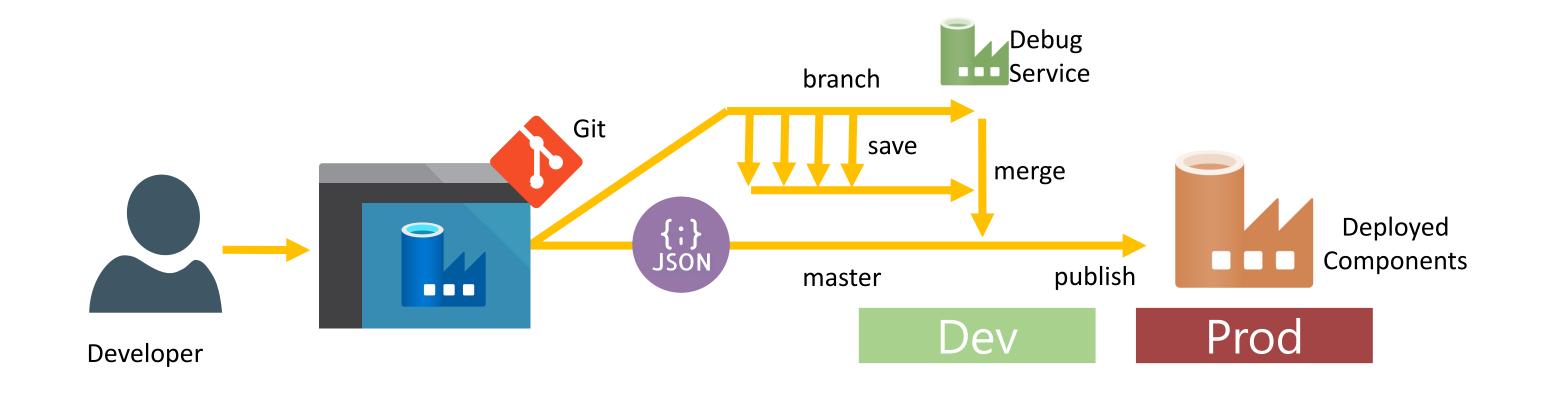


Option 1 – Single Data Factory Service

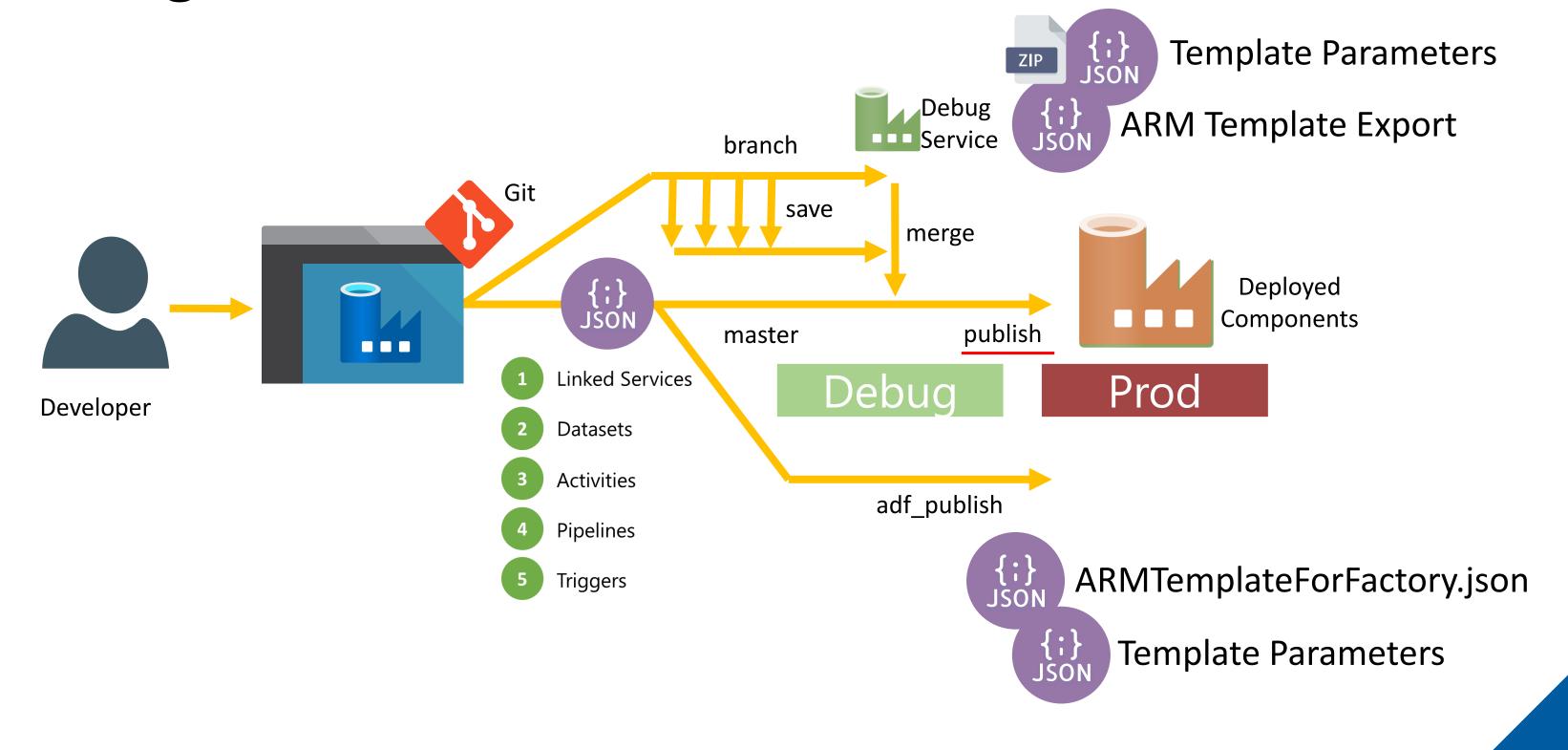


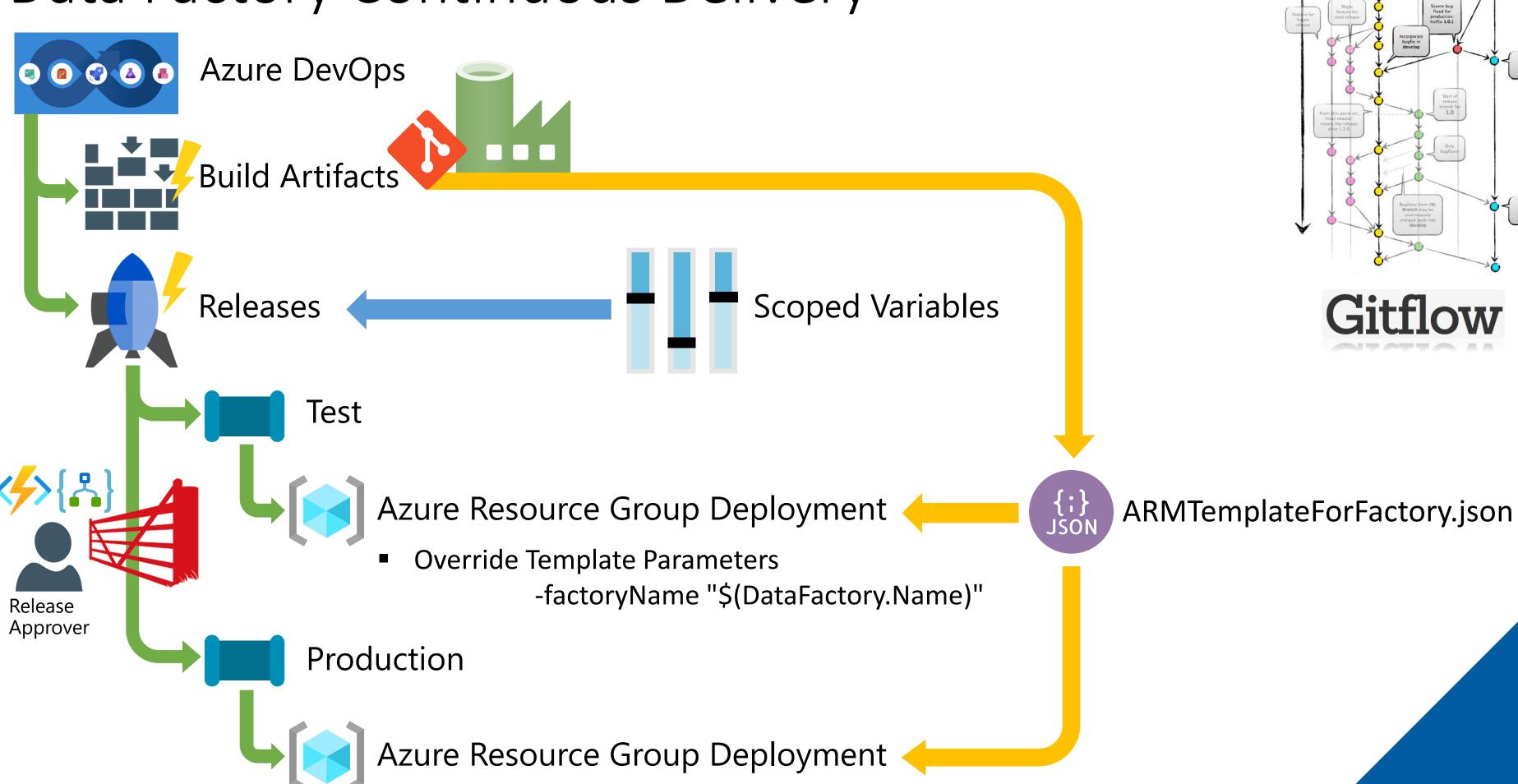
Option 2 – ARM Templates for Multiple Data Factory Services

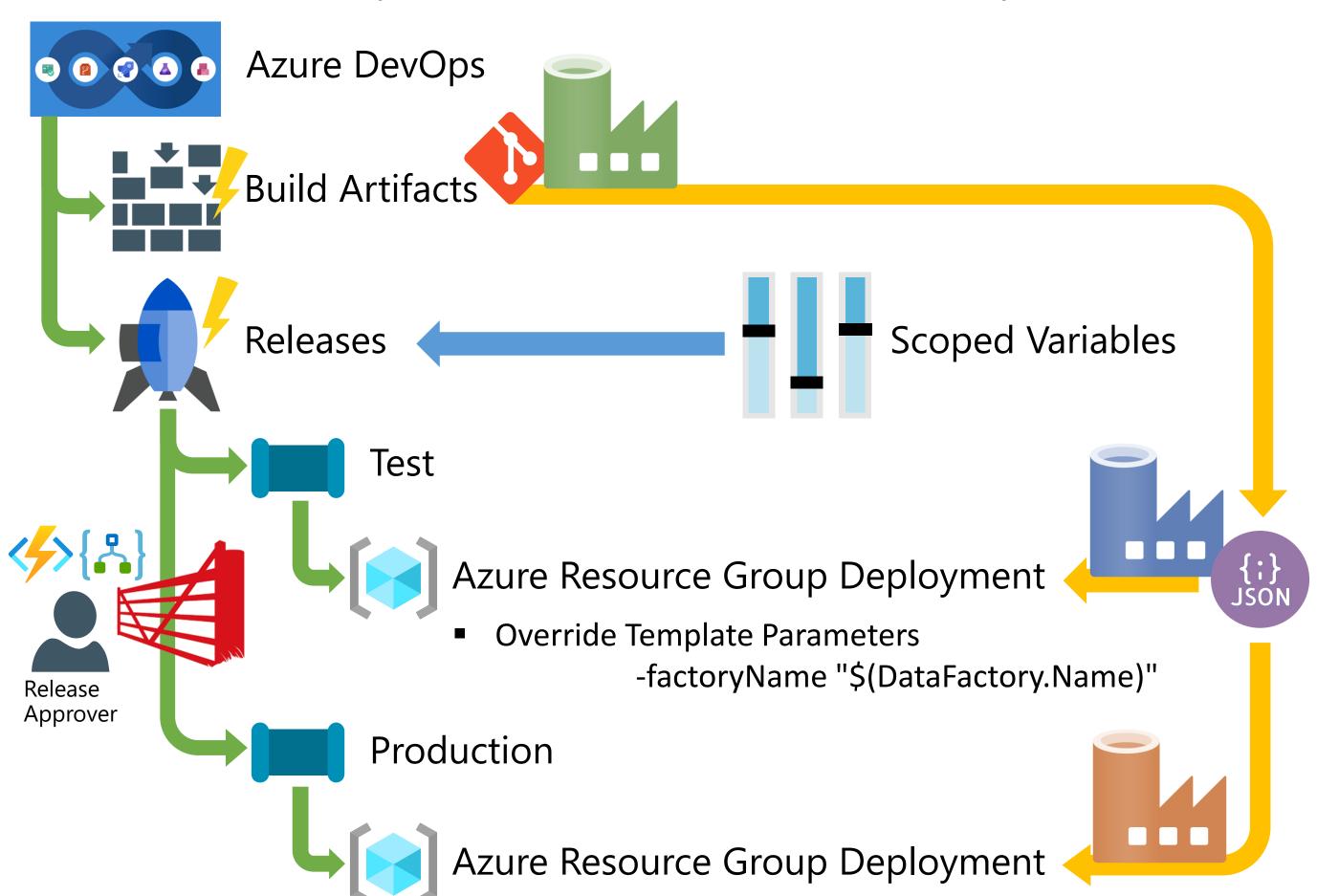




Getting Our ADF Source Code

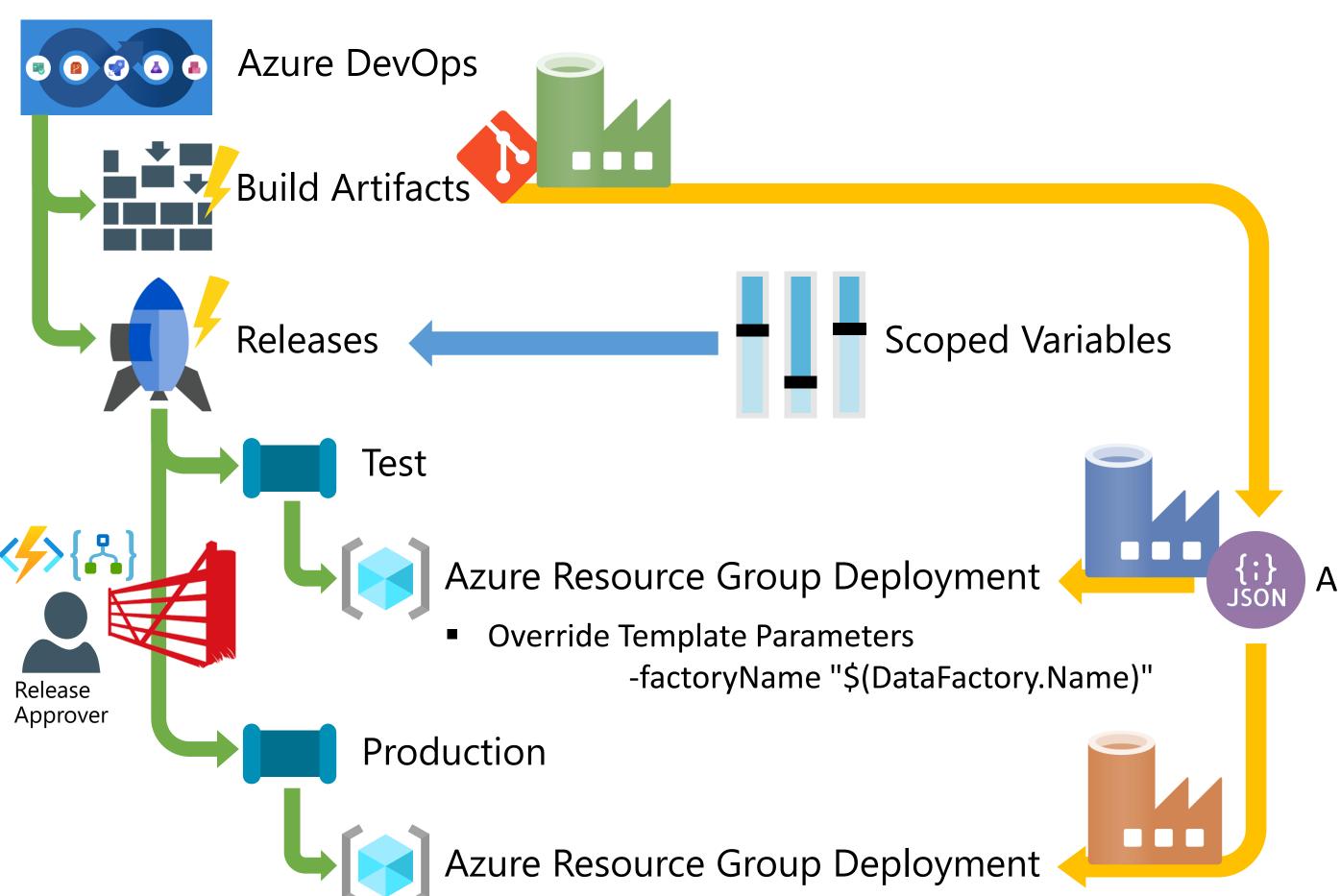






- 1 Linked Services
- 2 Datasets
- 3 Activities
- 4 Pipelines
- 5 Triggers

ARMTemplateForFactory.json



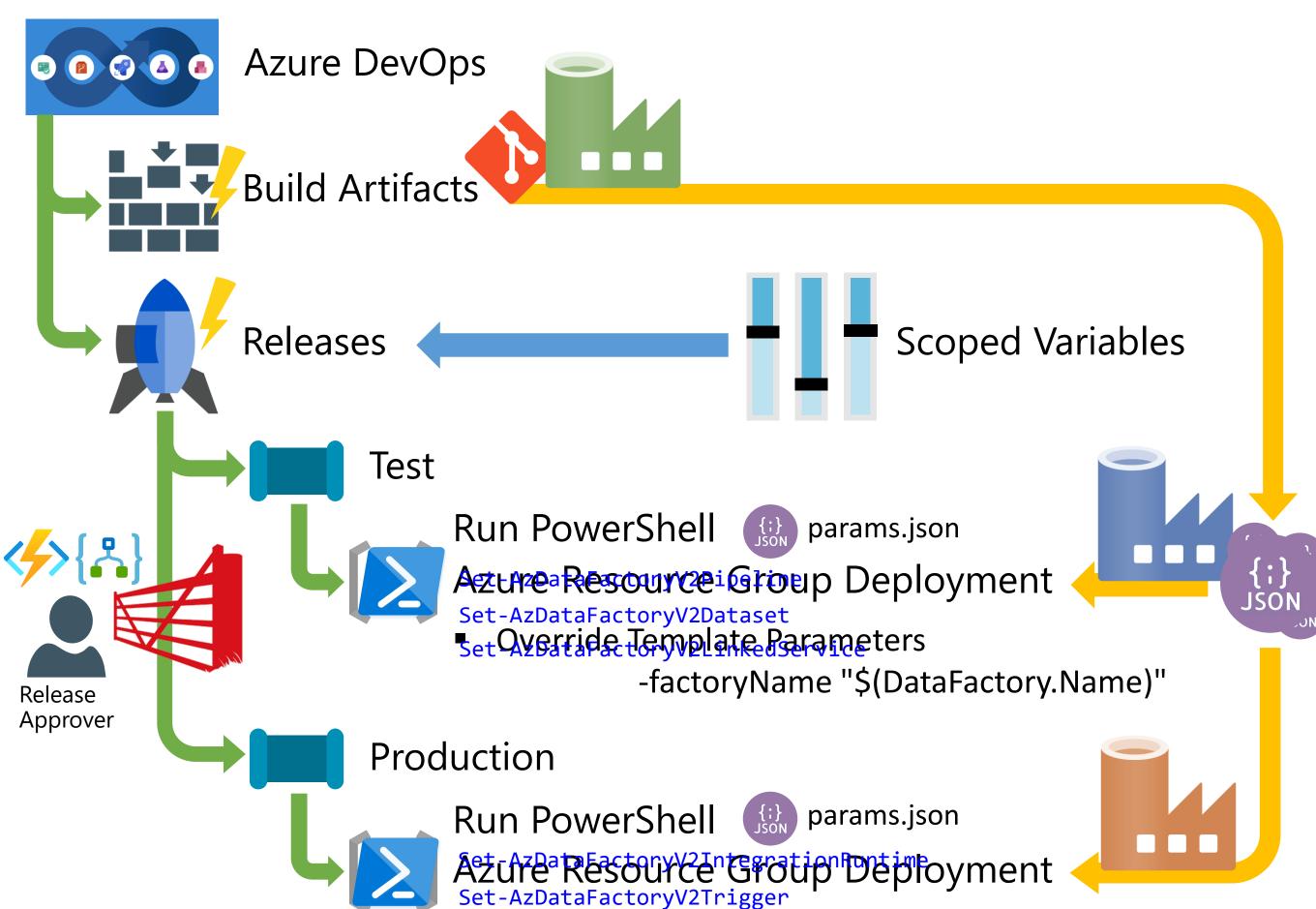
1 Linked Services





ARMTemplateForFactory.json

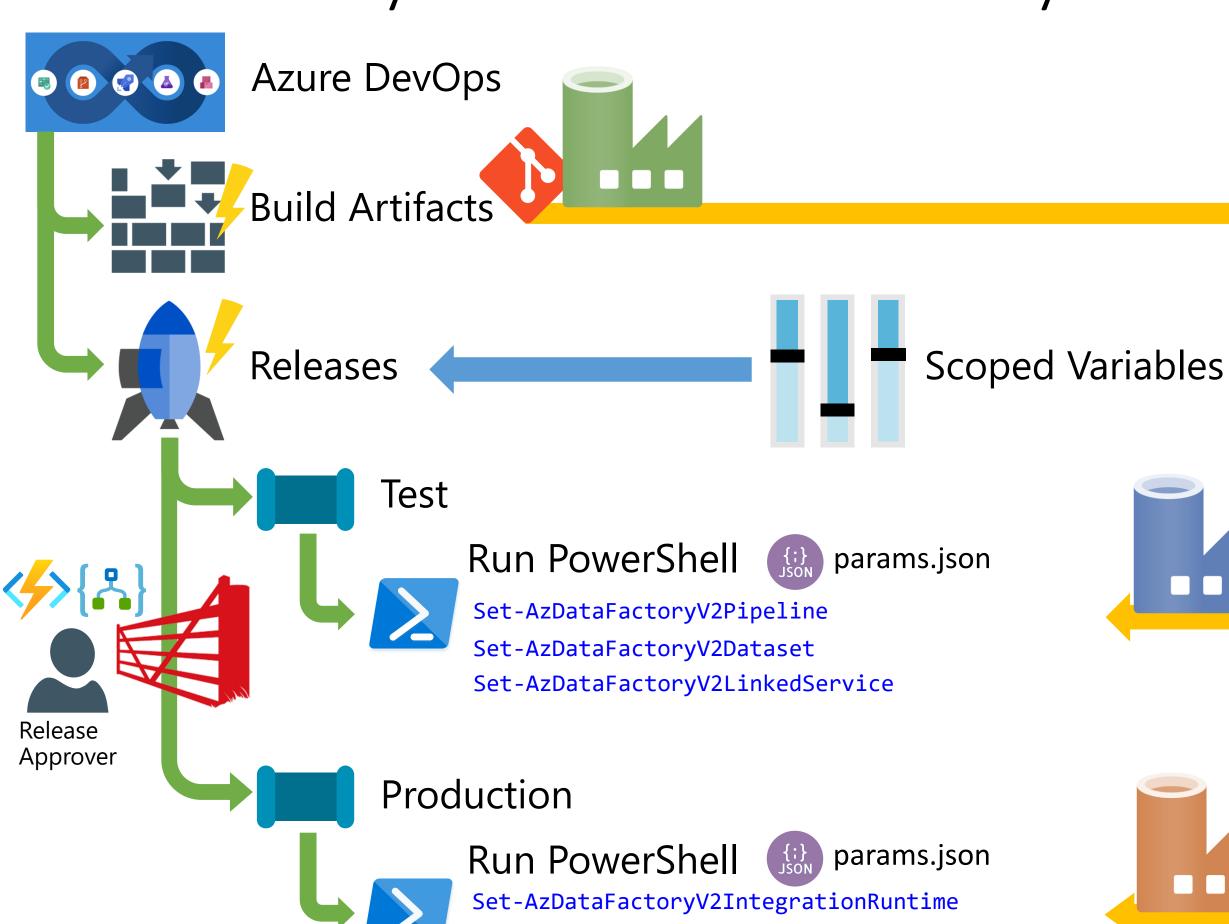
Data Factory Continuous Delivery - Option 3



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

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

Data Factory Continuous Delivery - Option 3



Set-AzDataFactoryV2Trigger

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

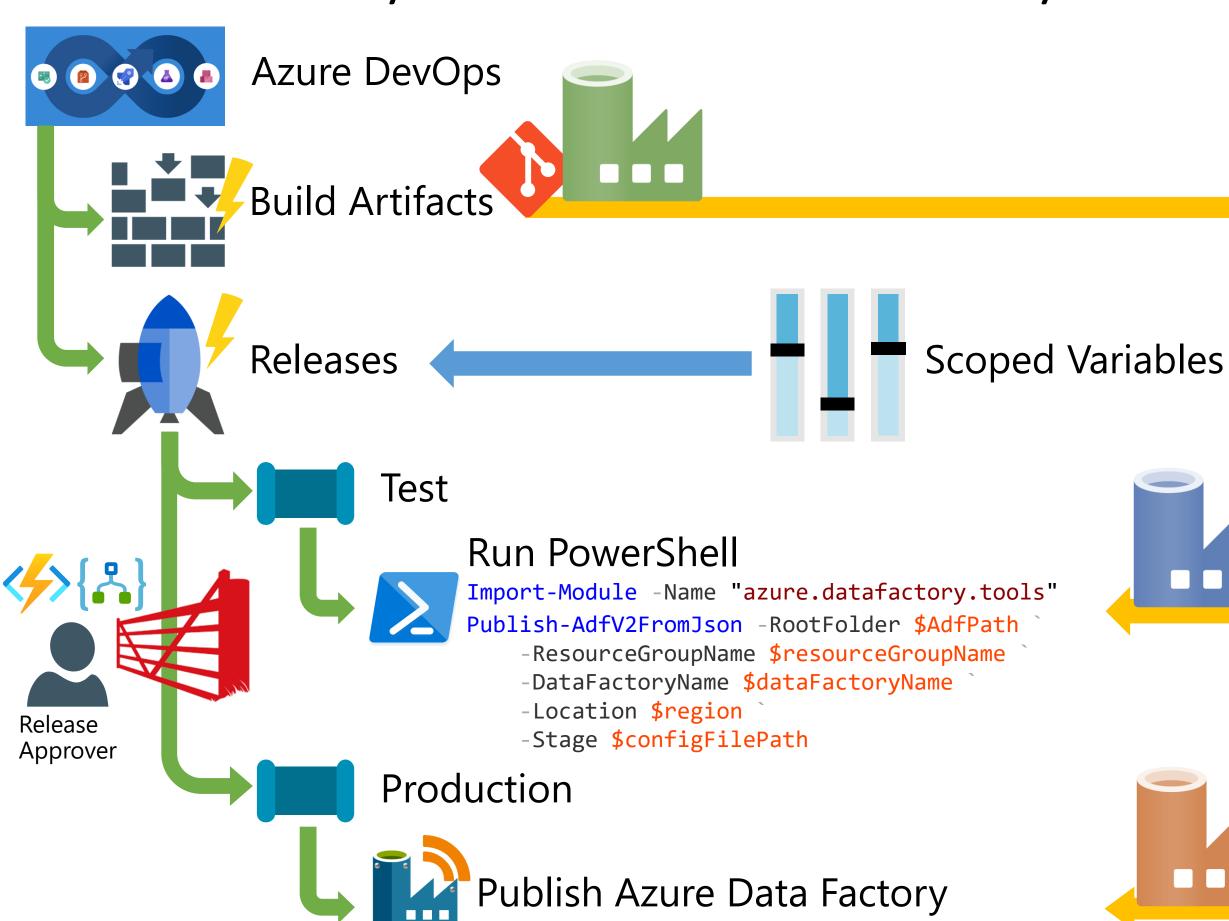
linkedservices.json pipelines & activites.json datasets.json triggers.json

Caveats

1) Handle own dependencies.

2) Handle own removals.

Data Factory Continuous Delivery - Option 4



- 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

What is your code branching strategy?

Feature

Which source control tool to use?

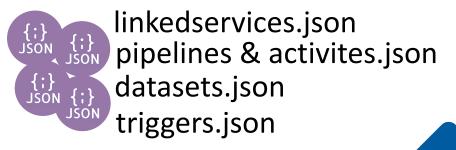
How many environments do we want?

What deployment method do we want to use?

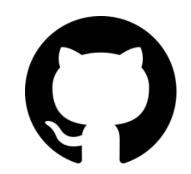
What artifacts are we going to use?...
OR

How much control do you want?























Thank you for listening...

Paul Andrew



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