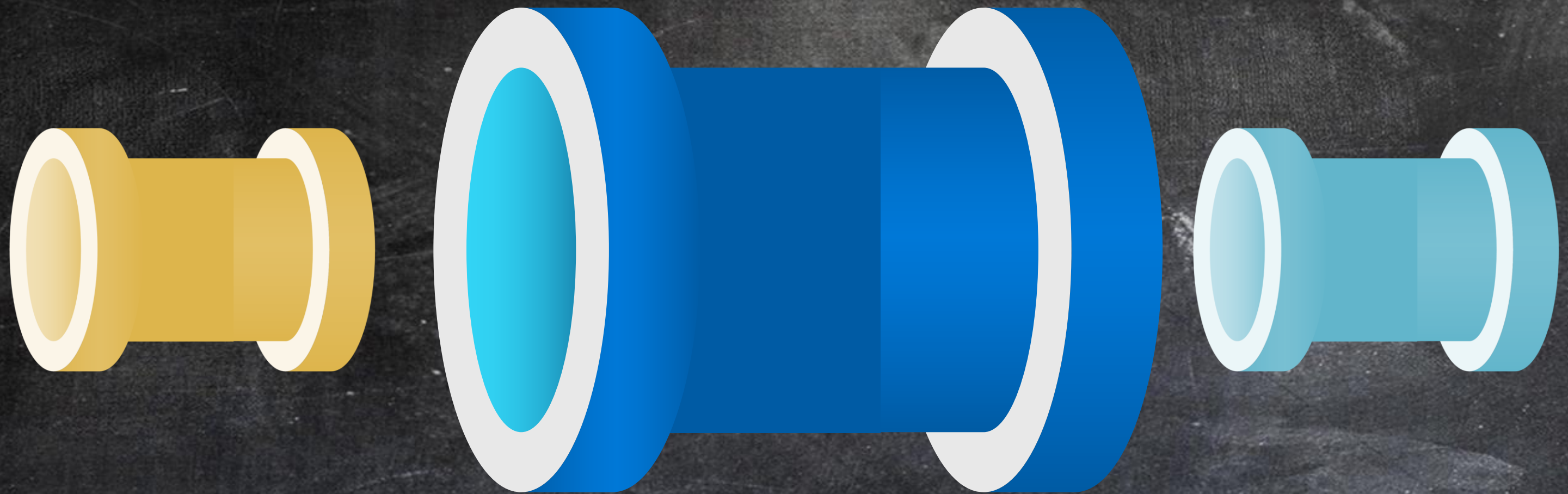
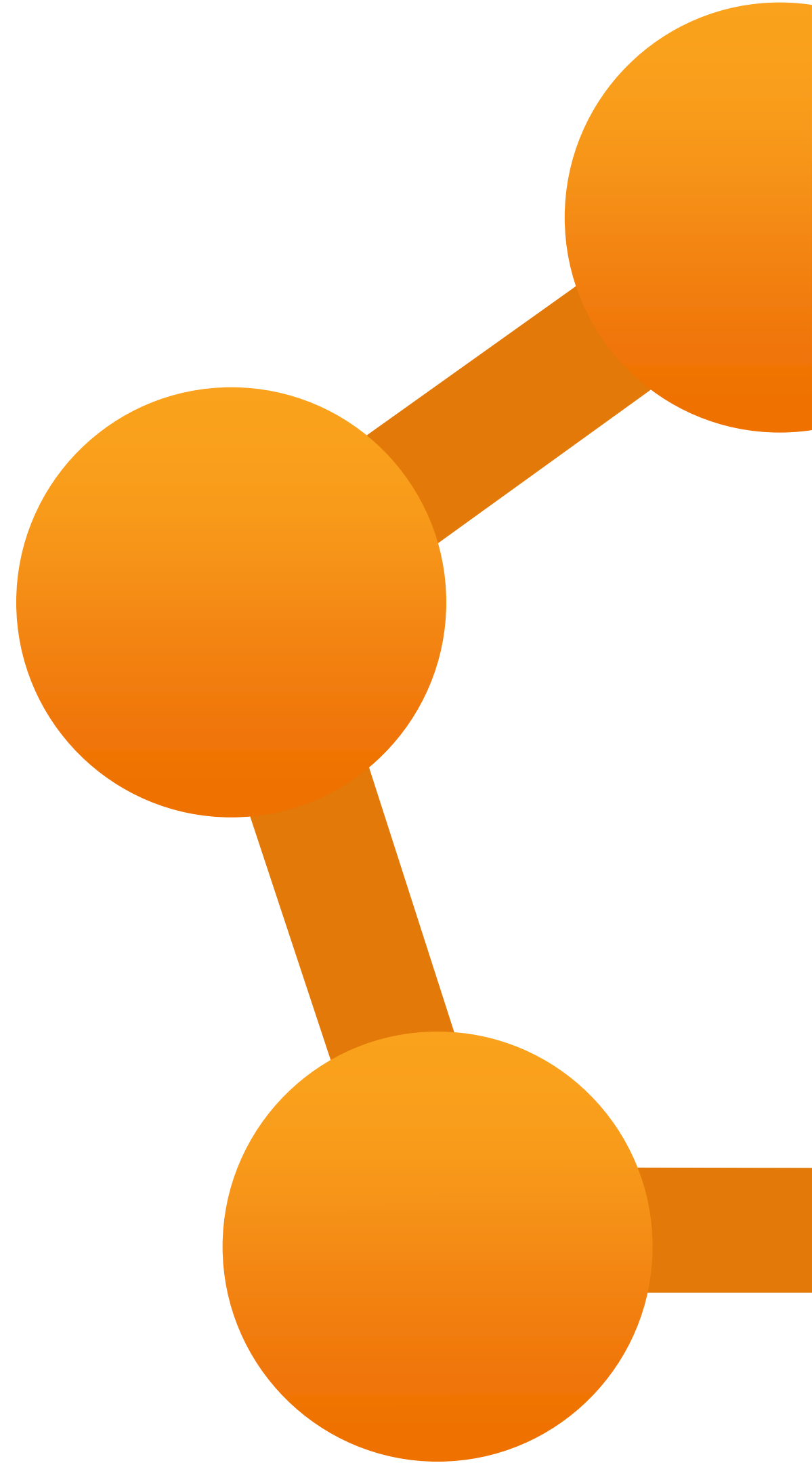


Integration Pipelines



Module 11 – Continuous Integration/Continuous Delivery Source Control vs Developer UI

Cloud Formations

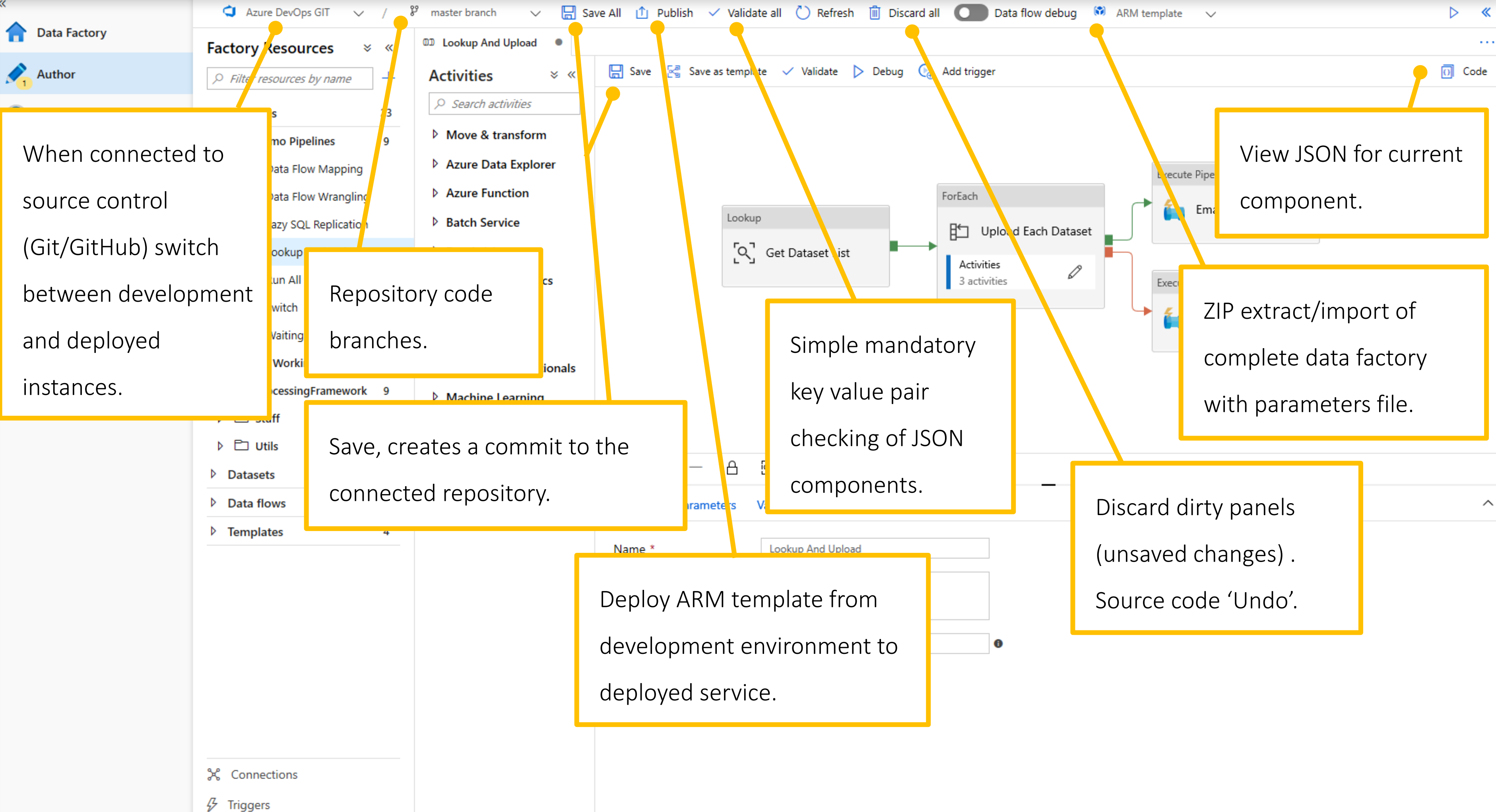




Open Azure Data Factory Studio
Start authoring and monitoring your data pipelines and data flows.
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Read documentation
Learn how to be productive quickly.
Explore concepts, tutorials, and samples.
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Data Factory

Author

Monitor

Factory Resources

Filter resources by name

Pipelines 23

- Demo Pipelines 9
 - Data Flow Mapping
 - Data Flow Wrangling
 - Lazy SQL Replication
 - Lookup And Upload
- Working Progress 2
- ProcessingFramework 9
- Stuff 4
- Utils 1

Datasets 27

Data flows 6

Templates 4

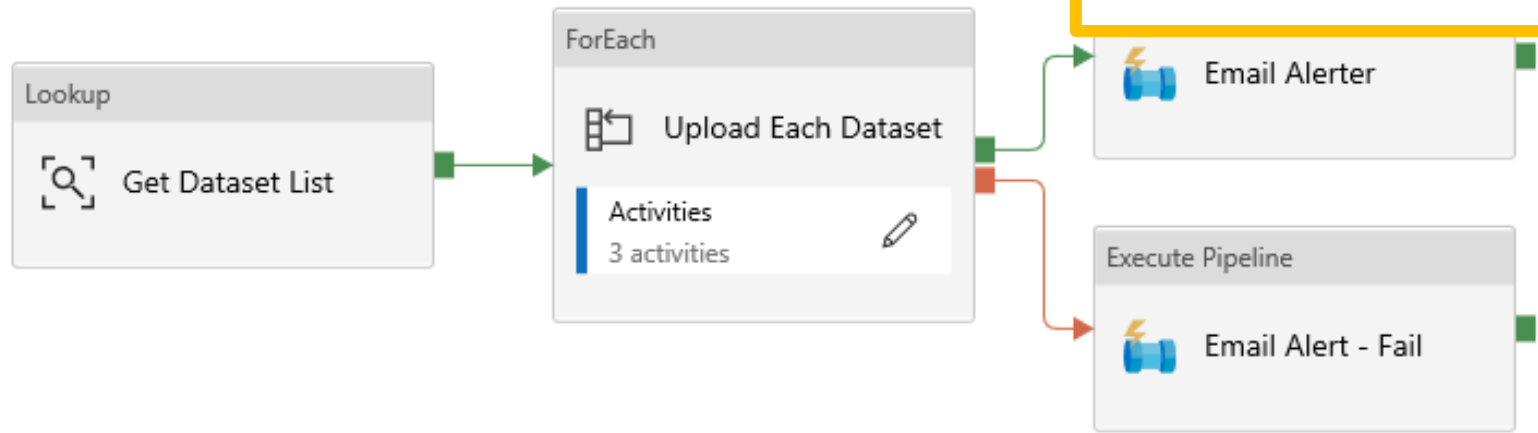
Debug the Control Flow.
Run the pipeline.

Lookup And Upload

Save Save as template Validate Debug Add trigger

ARM template

Debug the Data Flow.
Get a cluster ready.



Zoom and view controls: search, zoom in, zoom out, lock, full screen, zoom reset, zoom in, zoom out, zoom reset.

General Parameters Variables Output

Name * Lookup And Upload

Description Simple dynamic demo pipeline

Concurrency

Annotations + New

Data Factory

Author

Monitor

Factory Resources

Filter resources by name

Pipelines23

Demo Pipelines9

Data Flow Mapping

Data Flow Wrangling

Lazy SQL Replication

Lookup And Upload

Run All SSIS Packages

Switch

WaitingPipeline

Working Progress2

ProcessingFramework9

Stuff4

Utils1

Datasets27

Data flows6

Templates4

Connections

Triggers

Lookup And Upload

Activities

Search activities

Databricks

Data Lake Analytics

General

HDInsight

Iteration & conditionals

Machine Learning

Azure DevOps GIT / master branch

Save All

Publish

Validate all

Refresh

Discard all

Data flow debug

ARM template

Save

Save as template

Validate

Debug

Add trigger

Code

Lookup

Get Dataset List

ForEach

Upload Each Dataset

Activities3 activities

Execute Pipeline

Email Alerter

Execute Pipeline

Email Alert - Fail

General

Settings

Activities (3)

User properties

Name *Upload Each Dataset

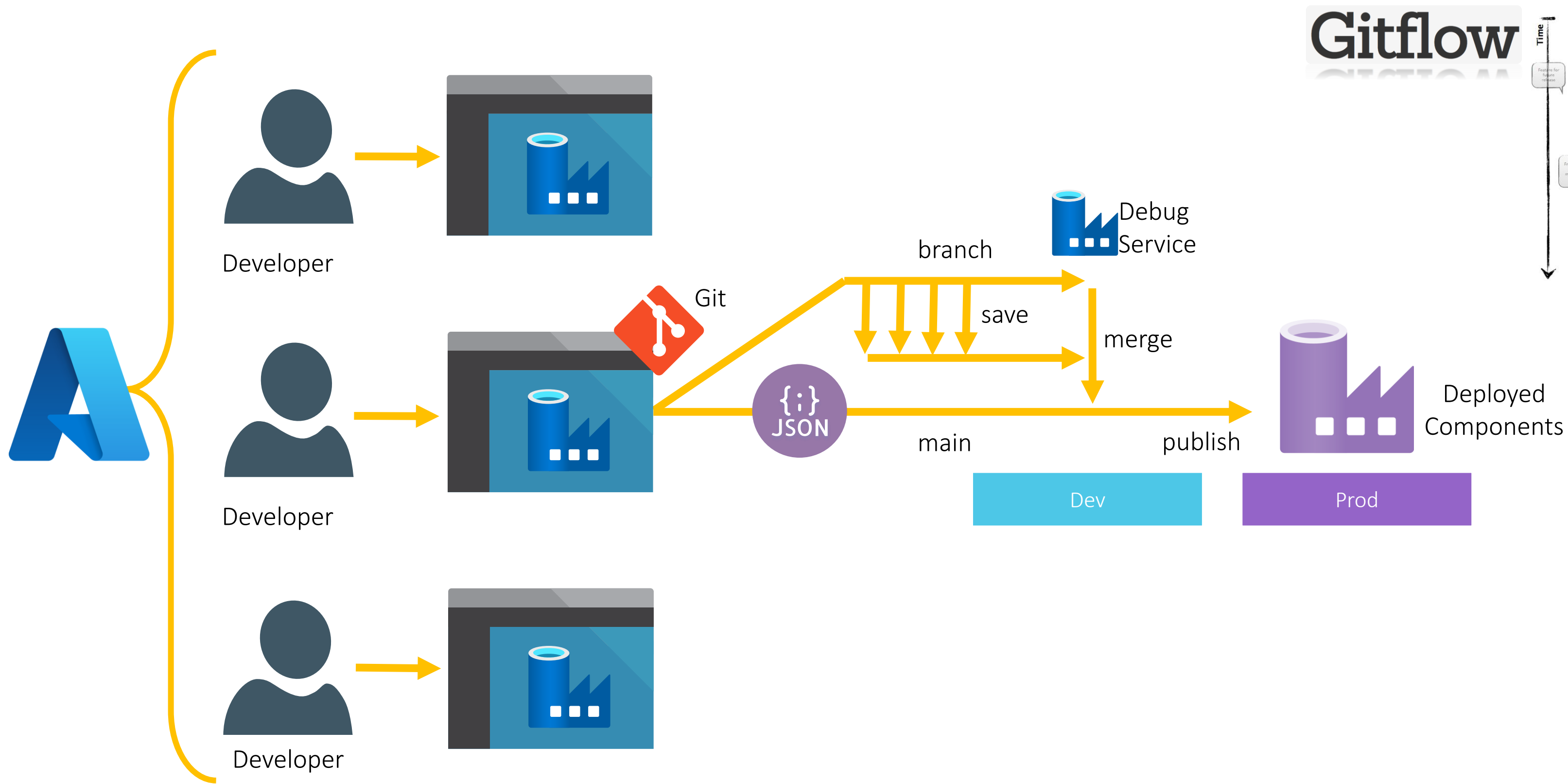
Description

Learn more

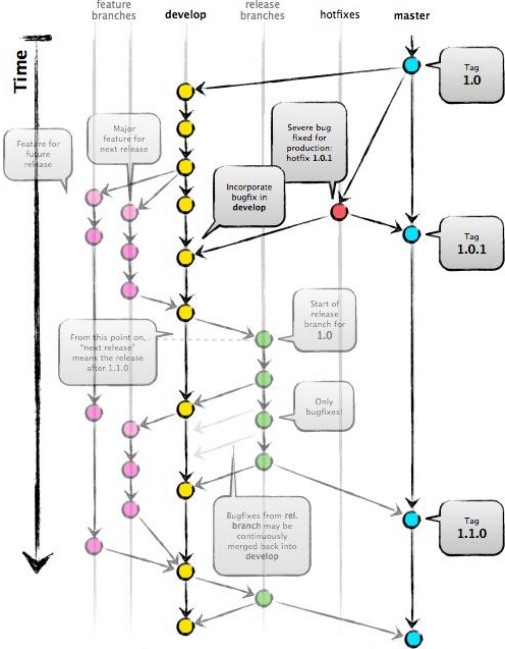
Debug the Control Flow.

Run the pipeline.

Data Factory Continuous Integration



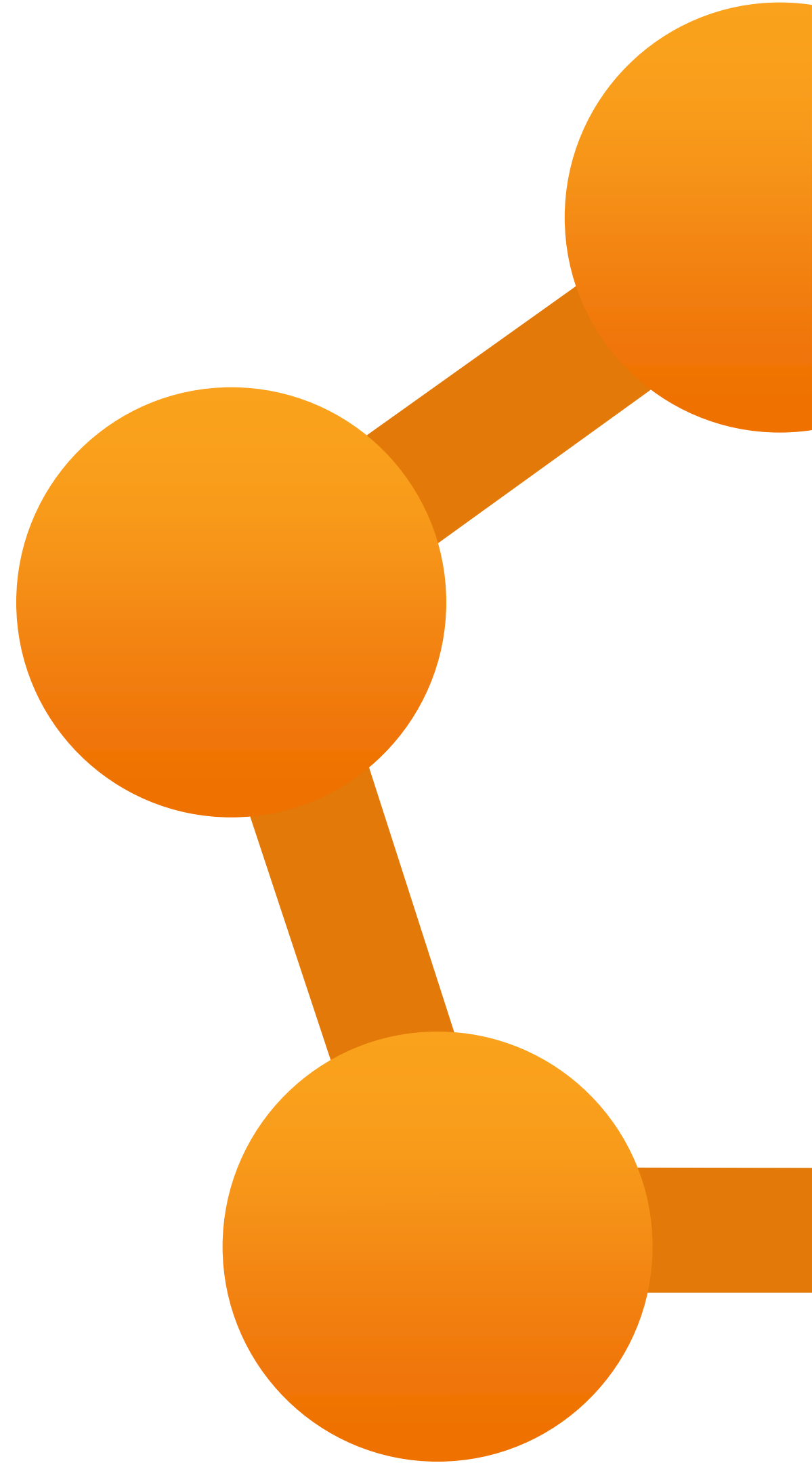
Gitflow

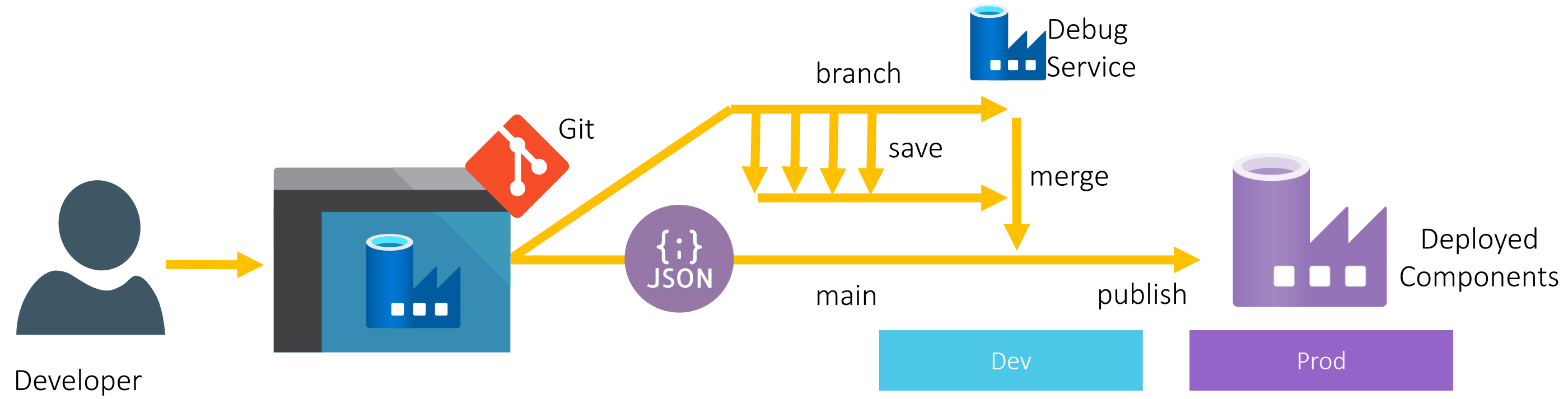




Module 11 – Continuous Integration/Continuous Delivery Basic ARM Template Deployments

Cloud Formations

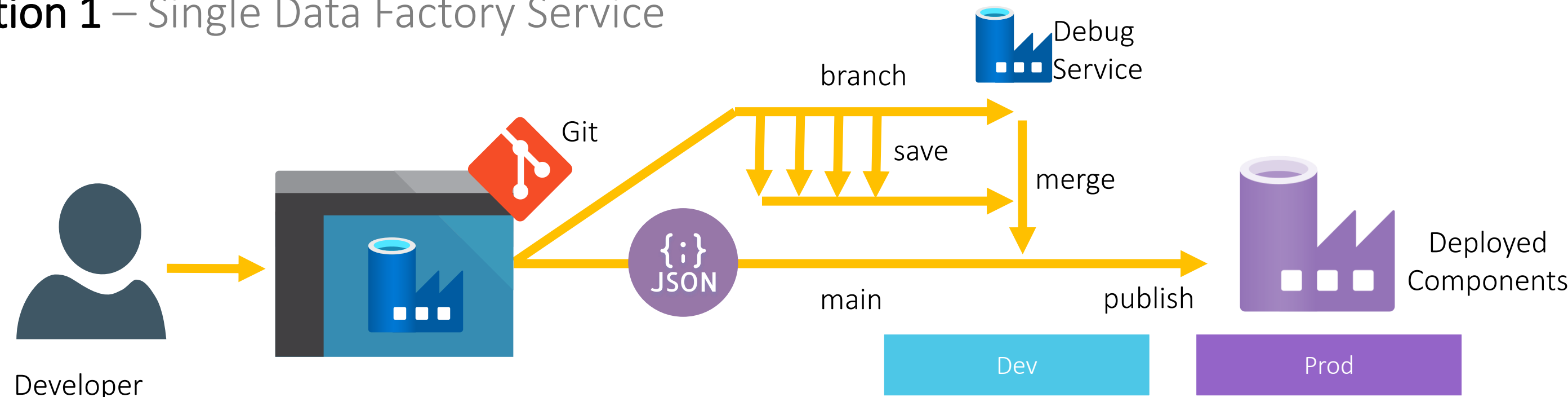




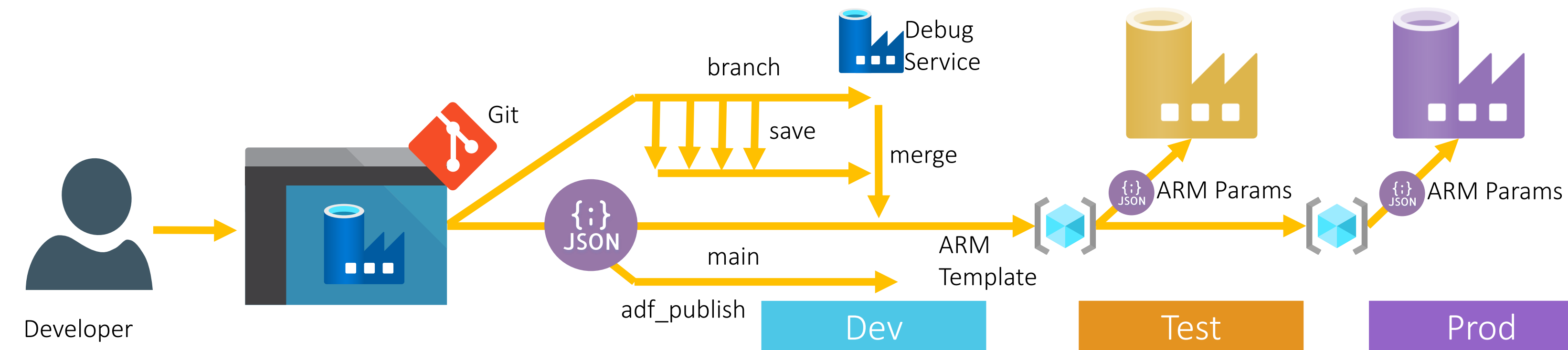
Data Factory Continuous Delivery



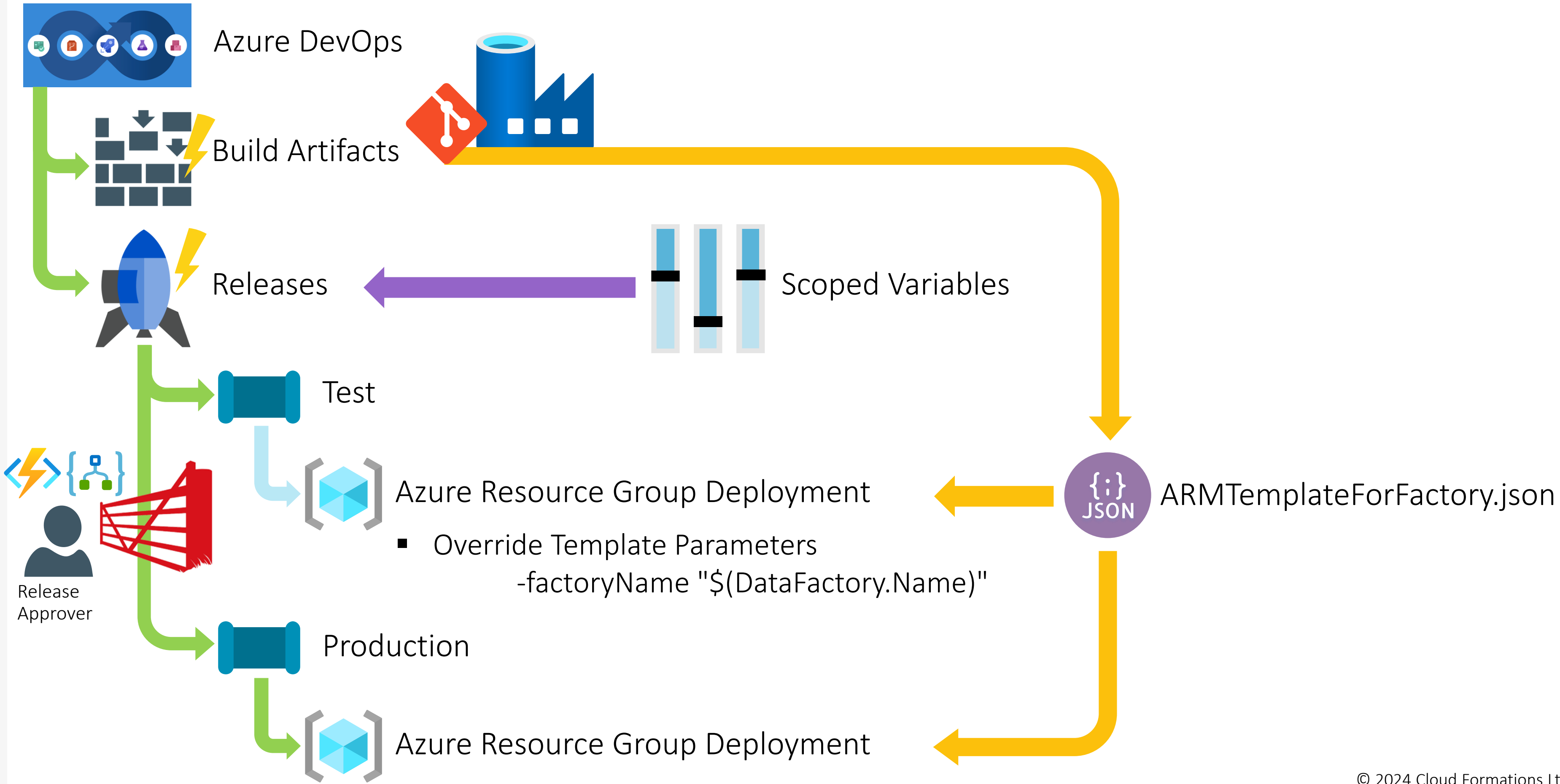
Option 1 – Single Data Factory Service



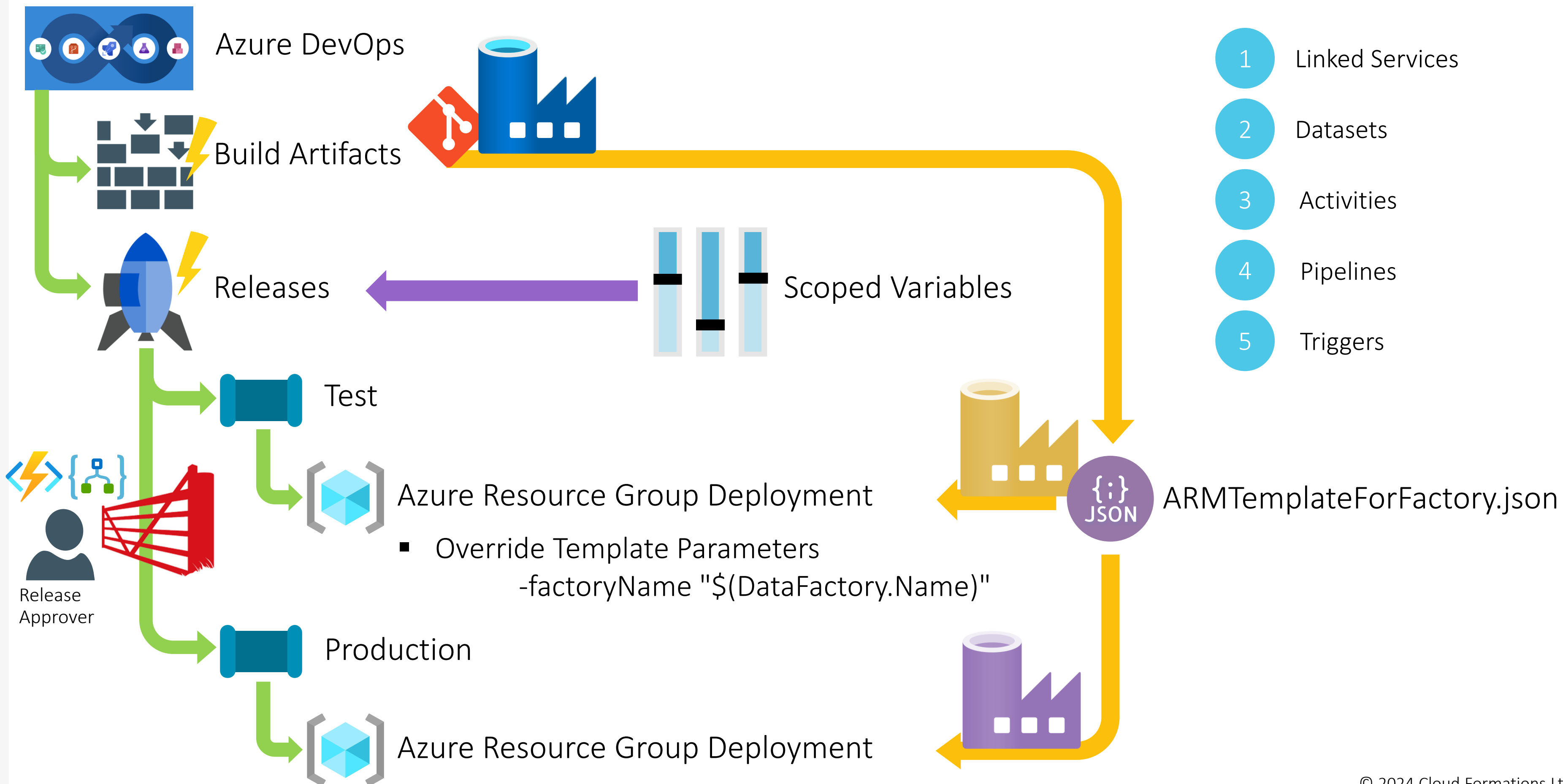
Option 2 – ARM Templates for Multiple Data Factory Services



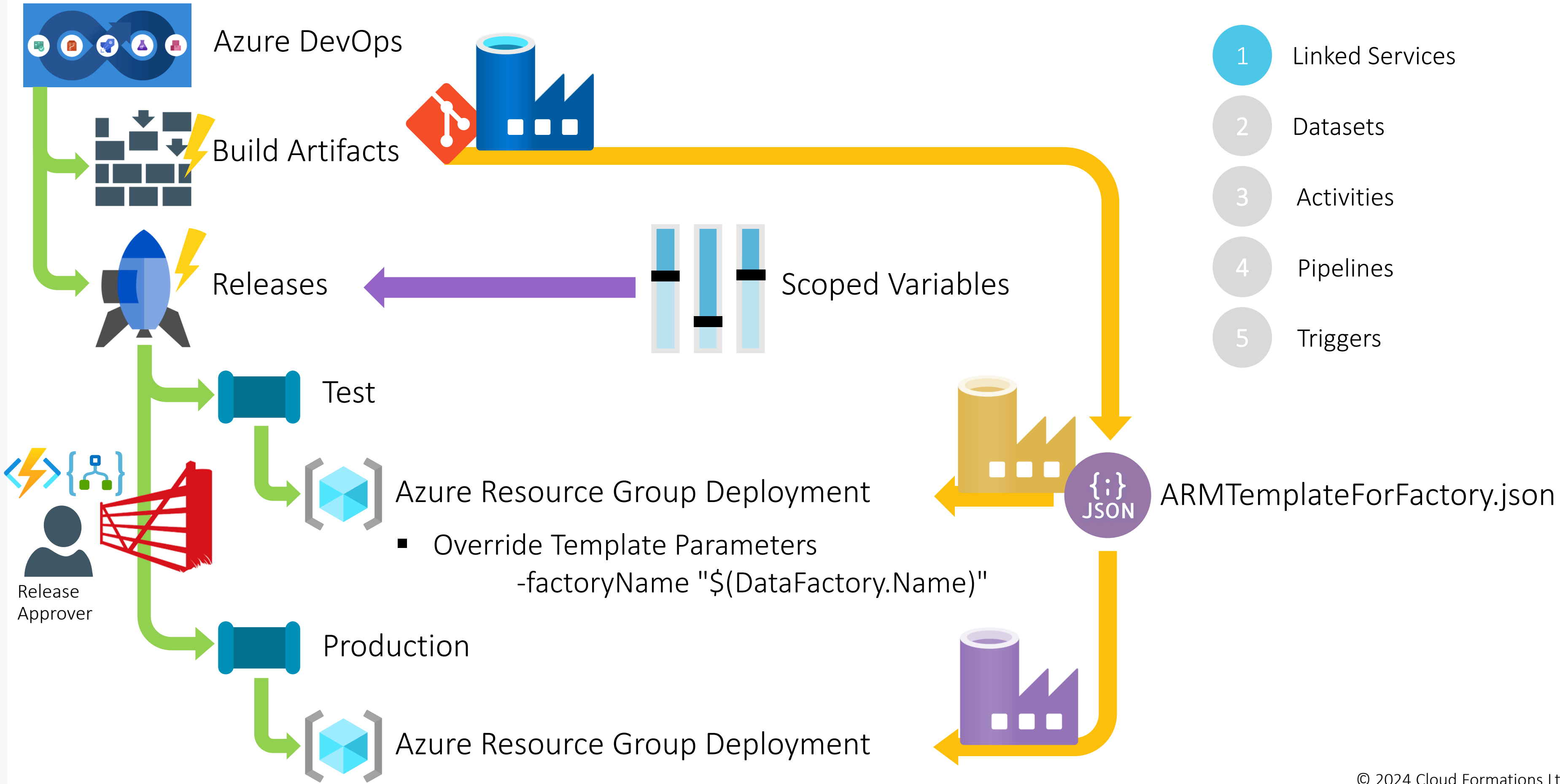
Data Factory Continuous Delivery



Data Factory Continuous Delivery

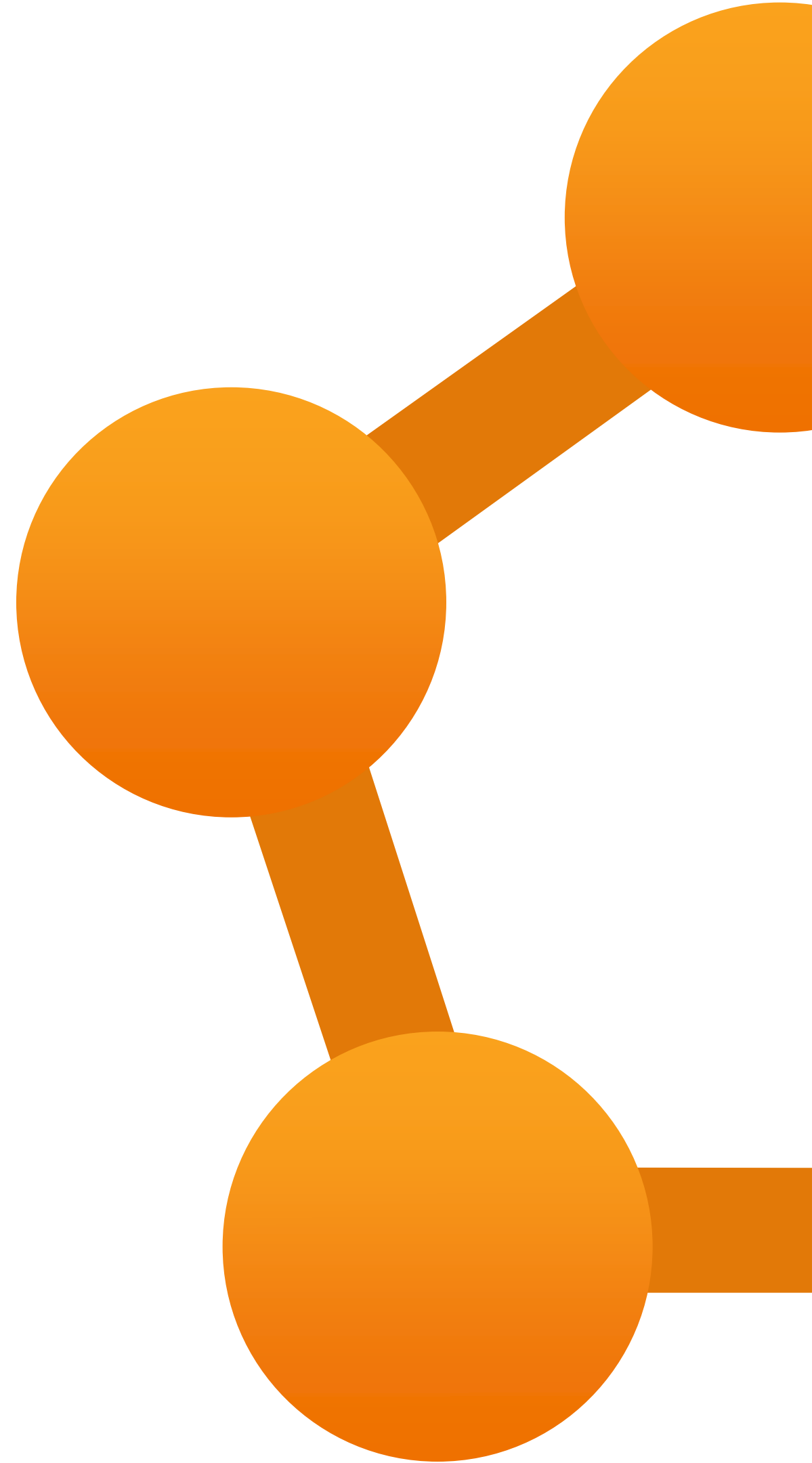


Data Factory Continuous Delivery

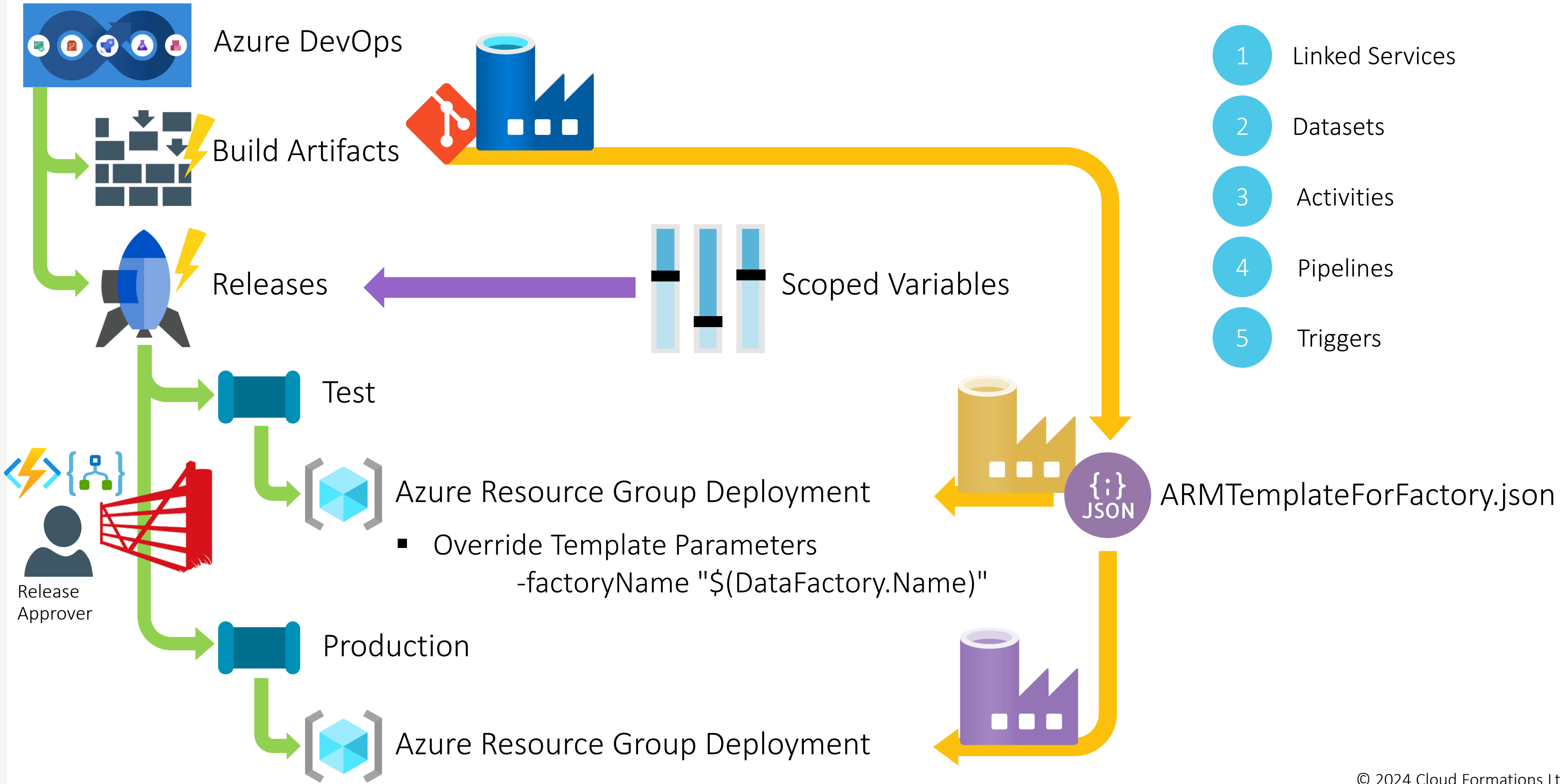


Module 11 – Continuous Integration/Continuous Delivery Advanced Deployment Patterns

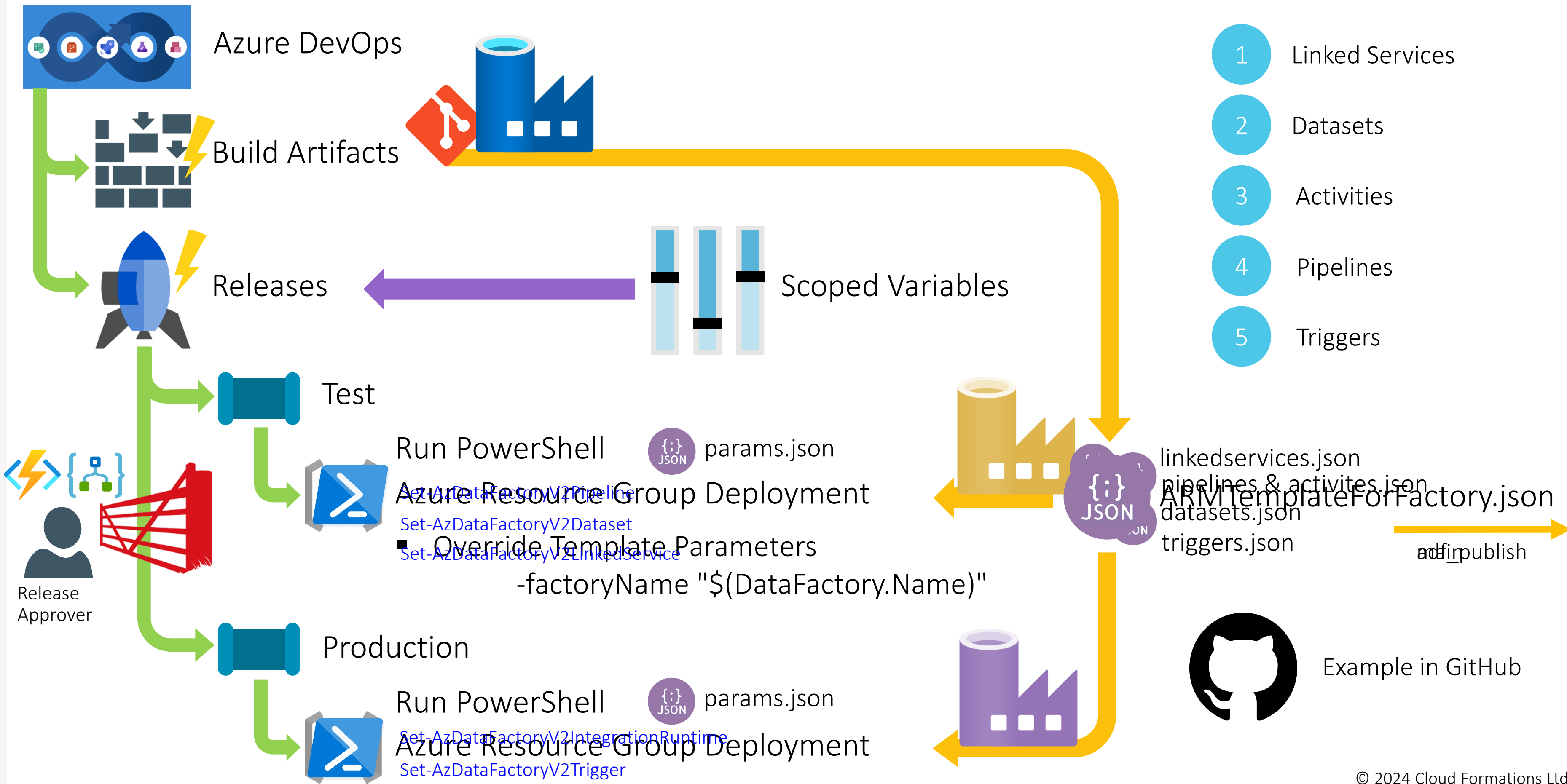
Cloud Formations



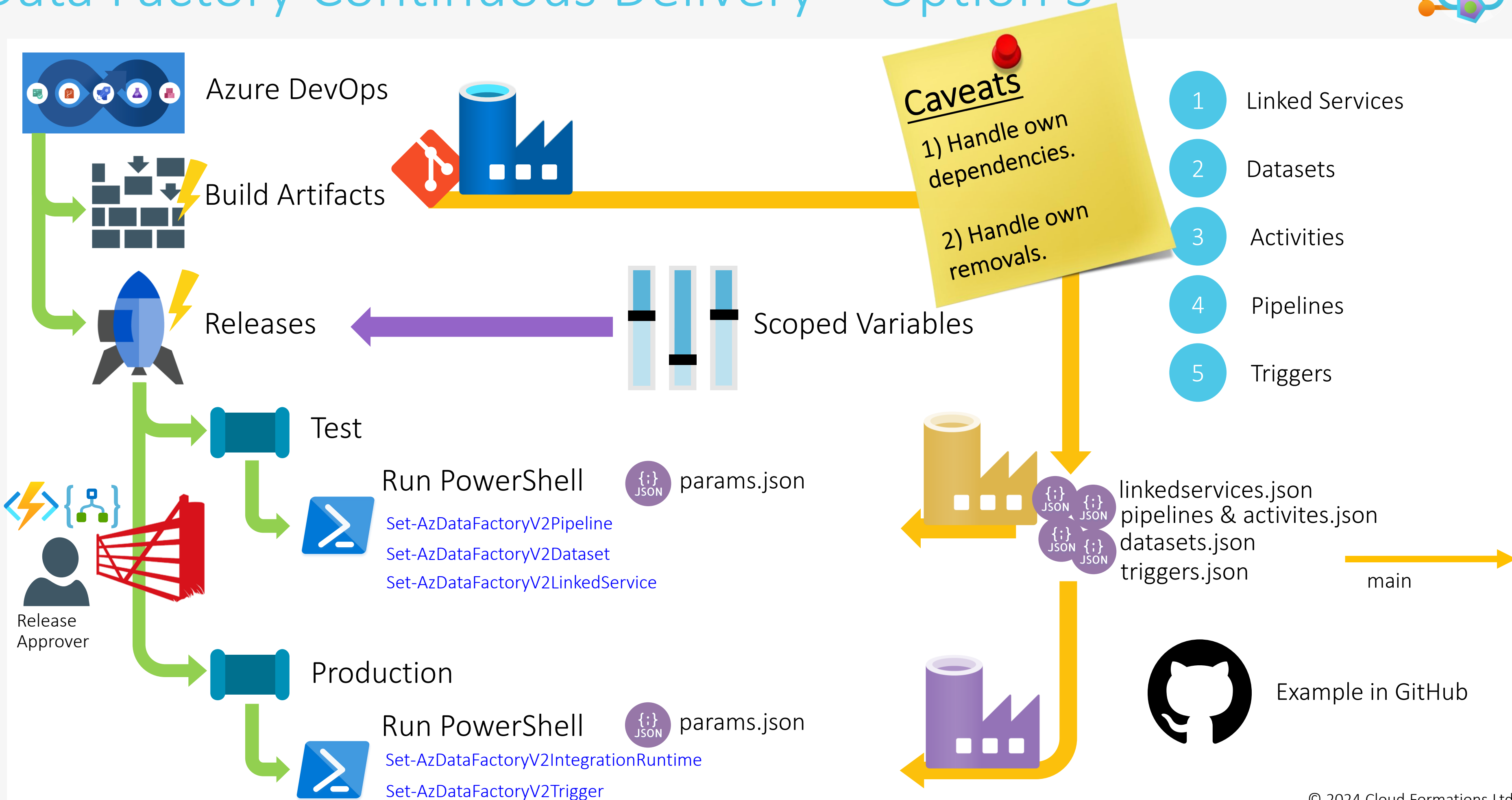
Data Factory Continuous Delivery



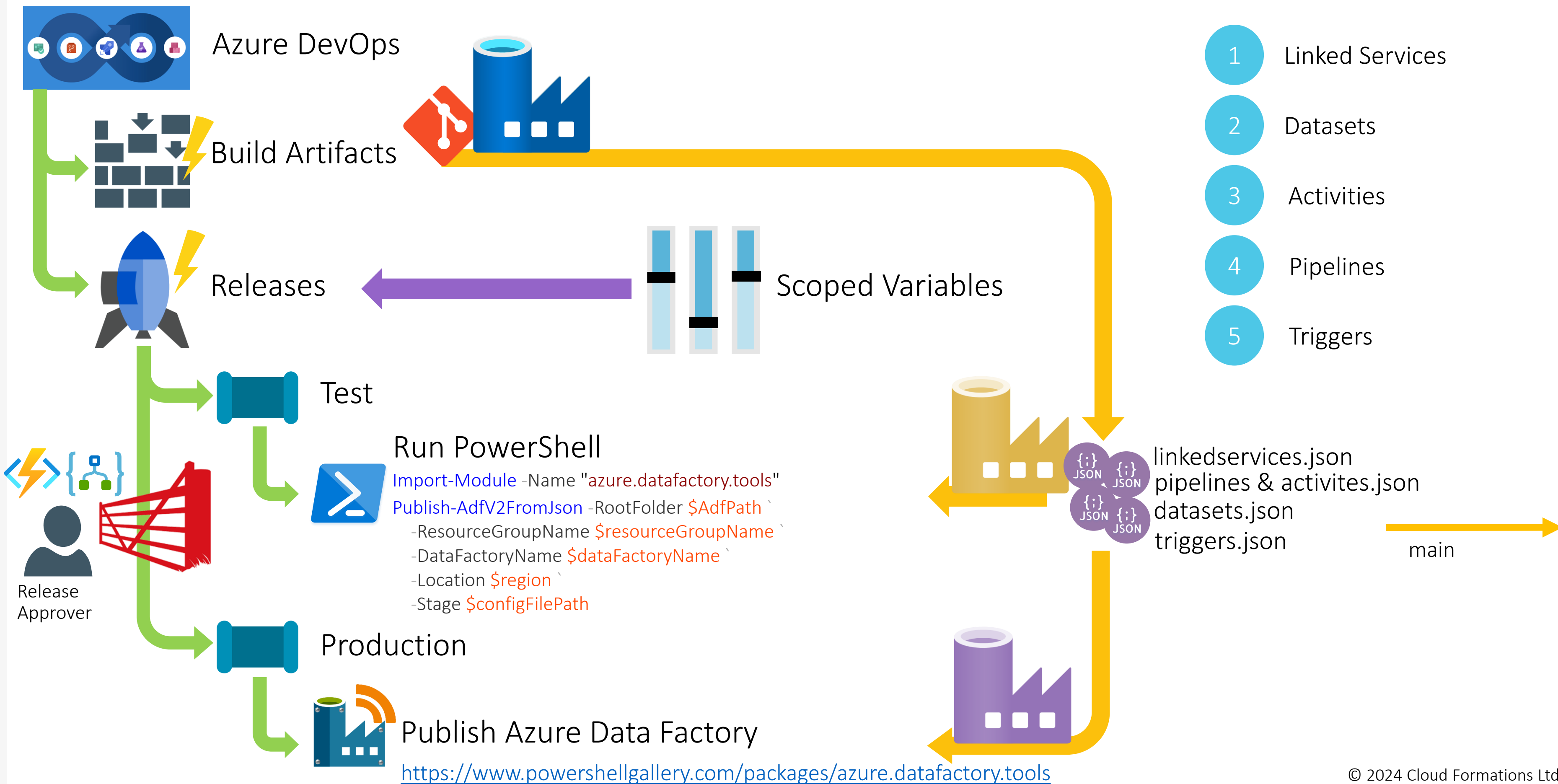
Data Factory Continuous Delivery – Option 3



Data Factory Continuous Delivery – Option 3



Data Factory Continuous Delivery – Option 4

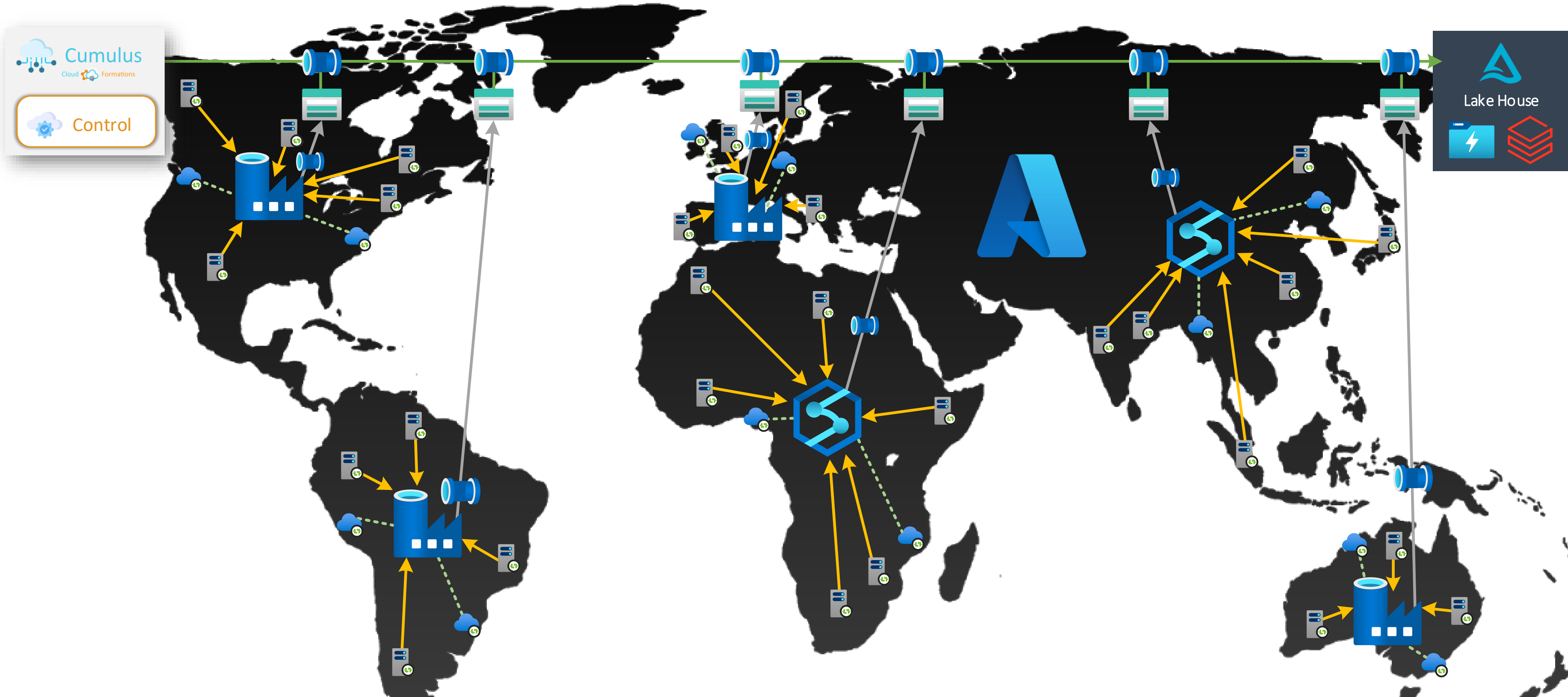


Deployment Options Summary

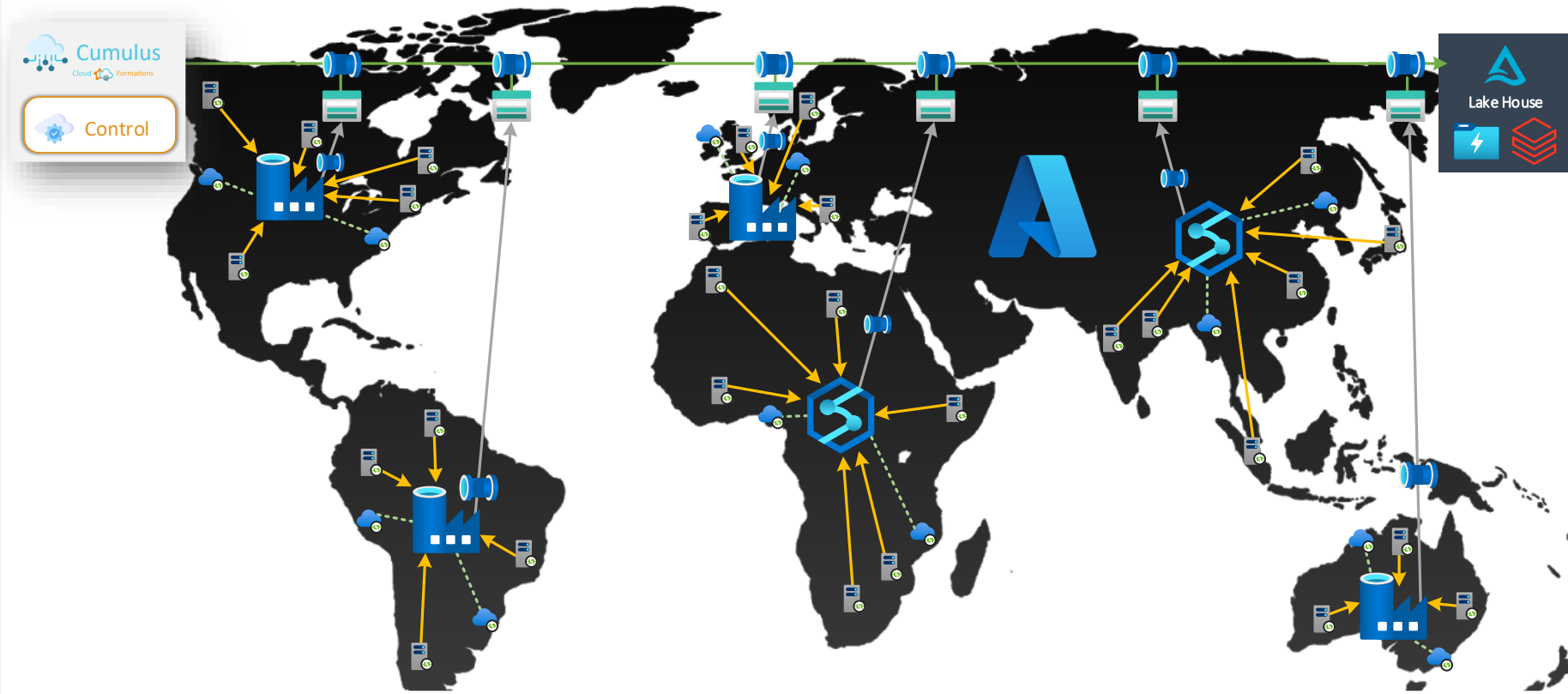


- Option 1** – Use a single Data Factory instance connected to source control.
- Option 2** – ARM Templates for multiple Data Factory environments.
- Option 3** – Use PowerShell cmdlets for each Data Factory artifact across environments.
- Option 4** – Use a prebuilt PowerShell module or custom Azure DevOps task.

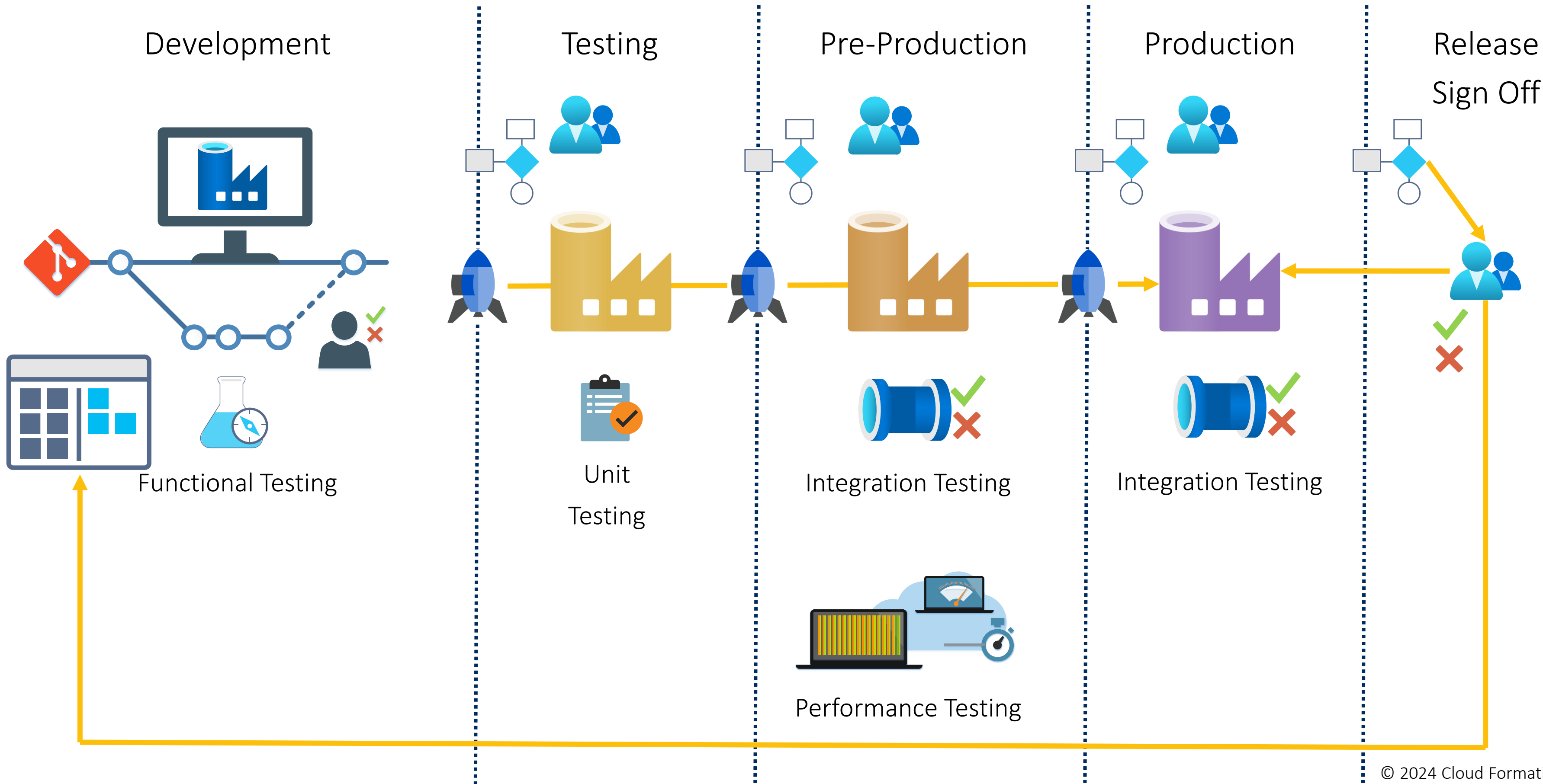
Hub & Spoke Integration Architecture



Cloud Formations - Knowledge Transfer & Training



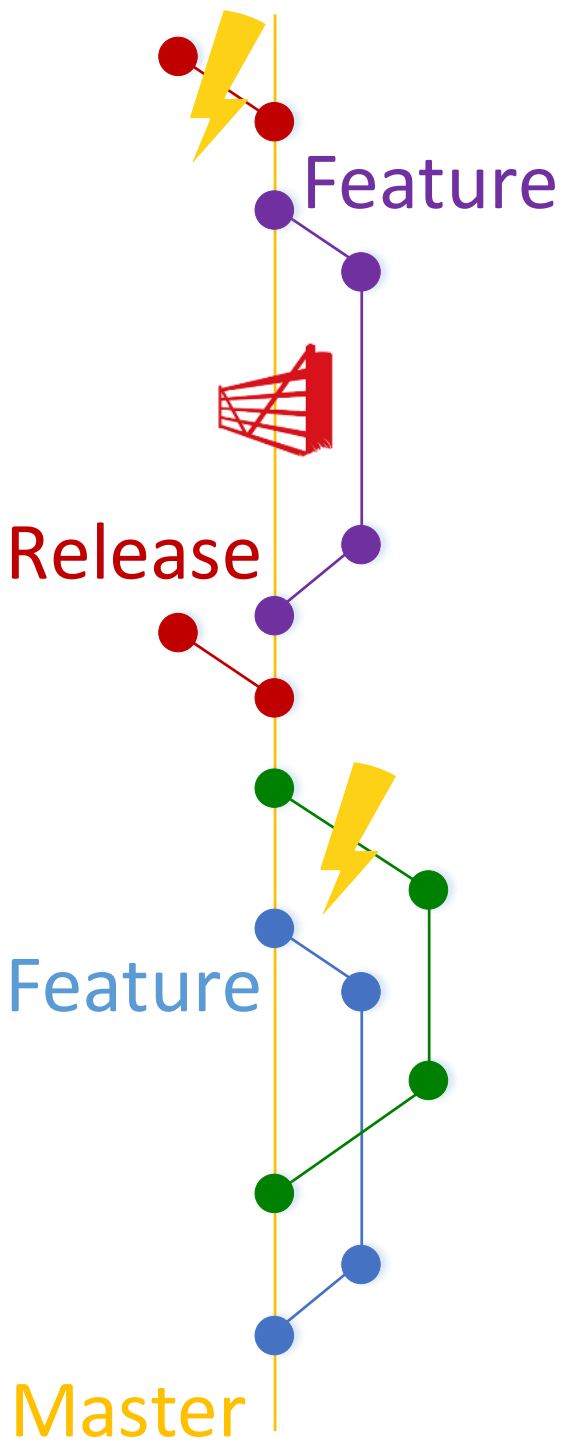
Deployment Life Cycle & Gateway



Integration Pipeline CI/CD Summary



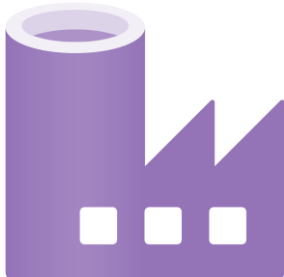
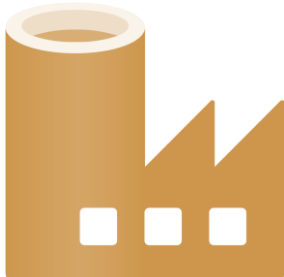
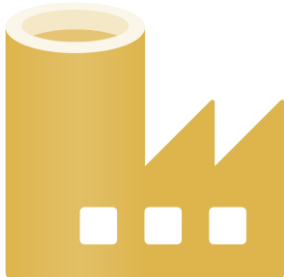
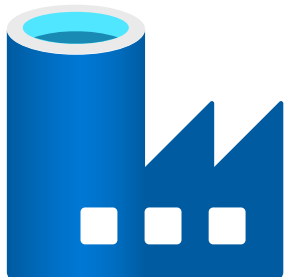
What is your code branching strategy?



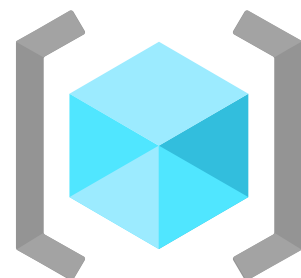
Which source control tool to use?



How many environments do we want?



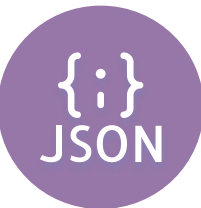
What deployment method do we want to use?



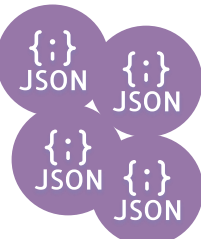
What artifacts are we going to use?...

OR

How much control do you want?



ARMTemplate
ForFactory.json



linkedservices.json
pipelines &
activities.json
datasets.json
triggers.json

Module 11

CI/CD



Any questions?

Cloud Formations

