Module 8: CI/CD with Azure DevOps

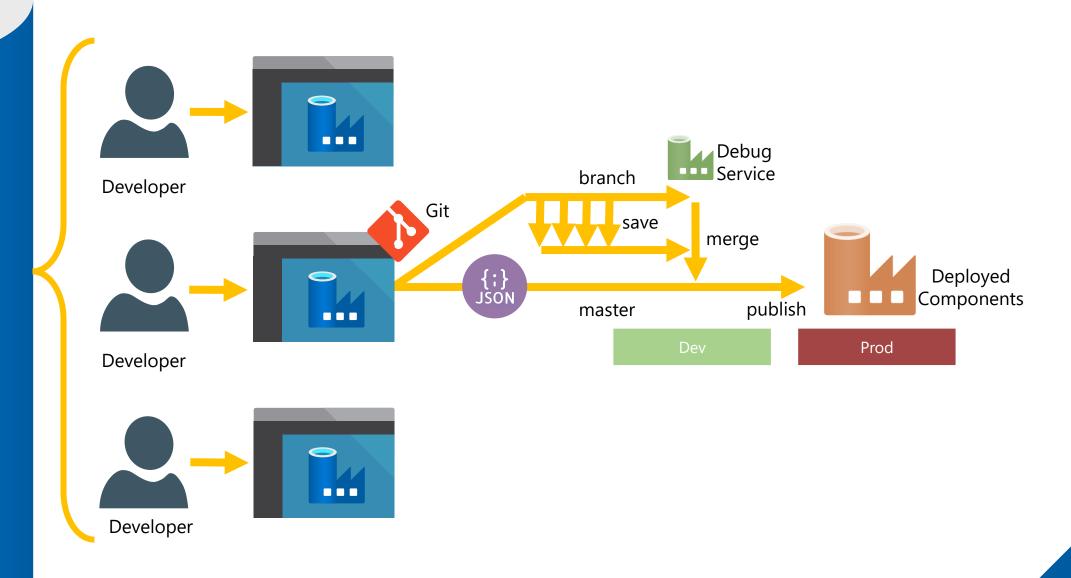
Source Control vs Developer UI

MARM Templates Deployments

PowerShell Deployments

Source Control vs Developer UI

Data Factory Continuous Integration









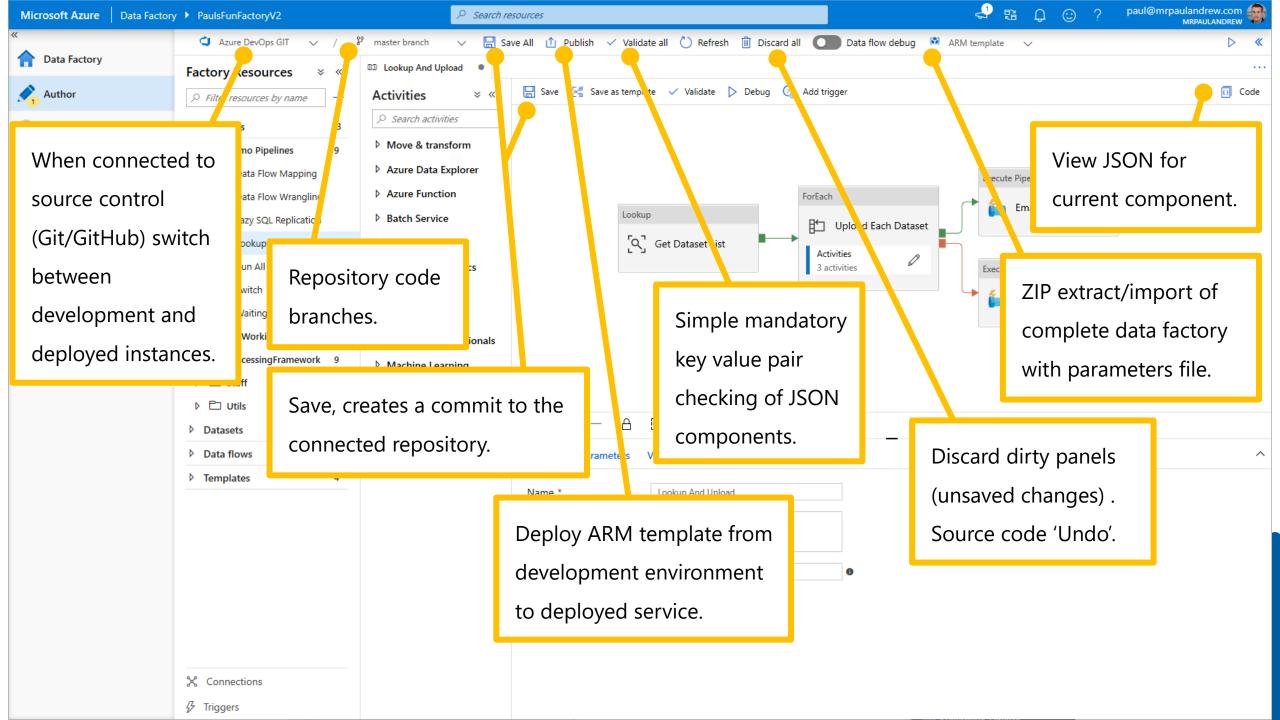
PaulsFunFactory

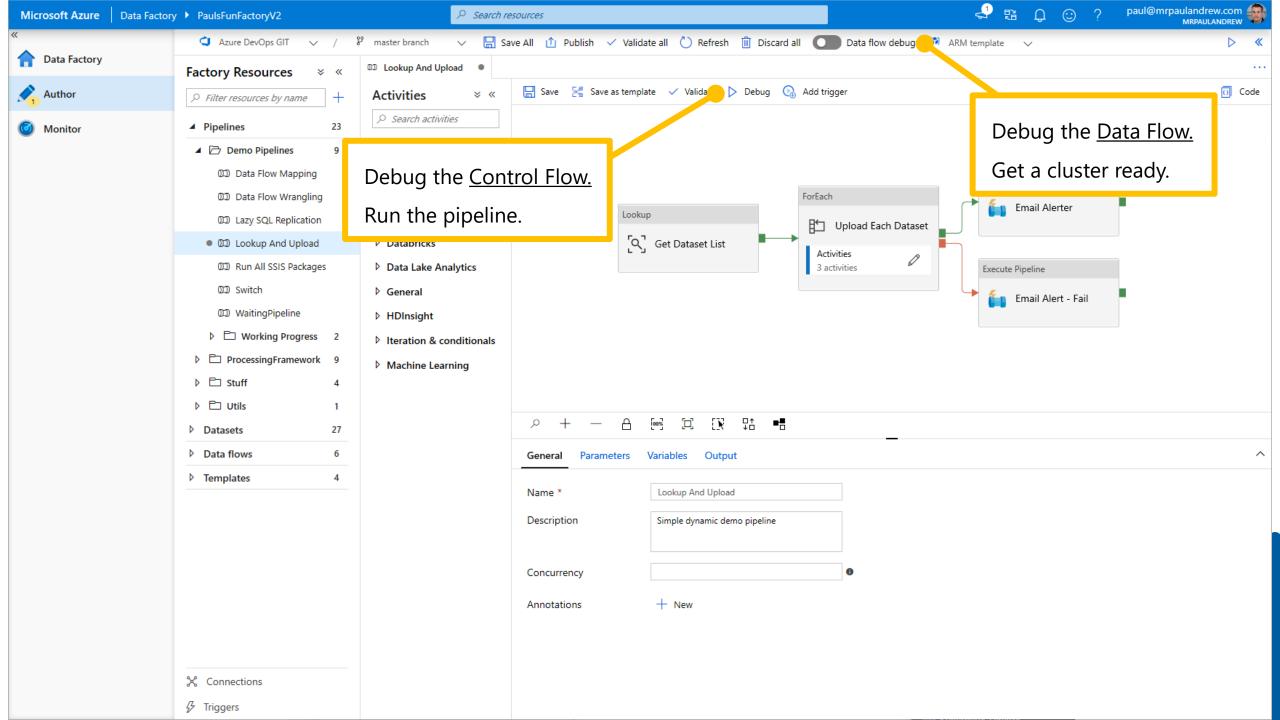


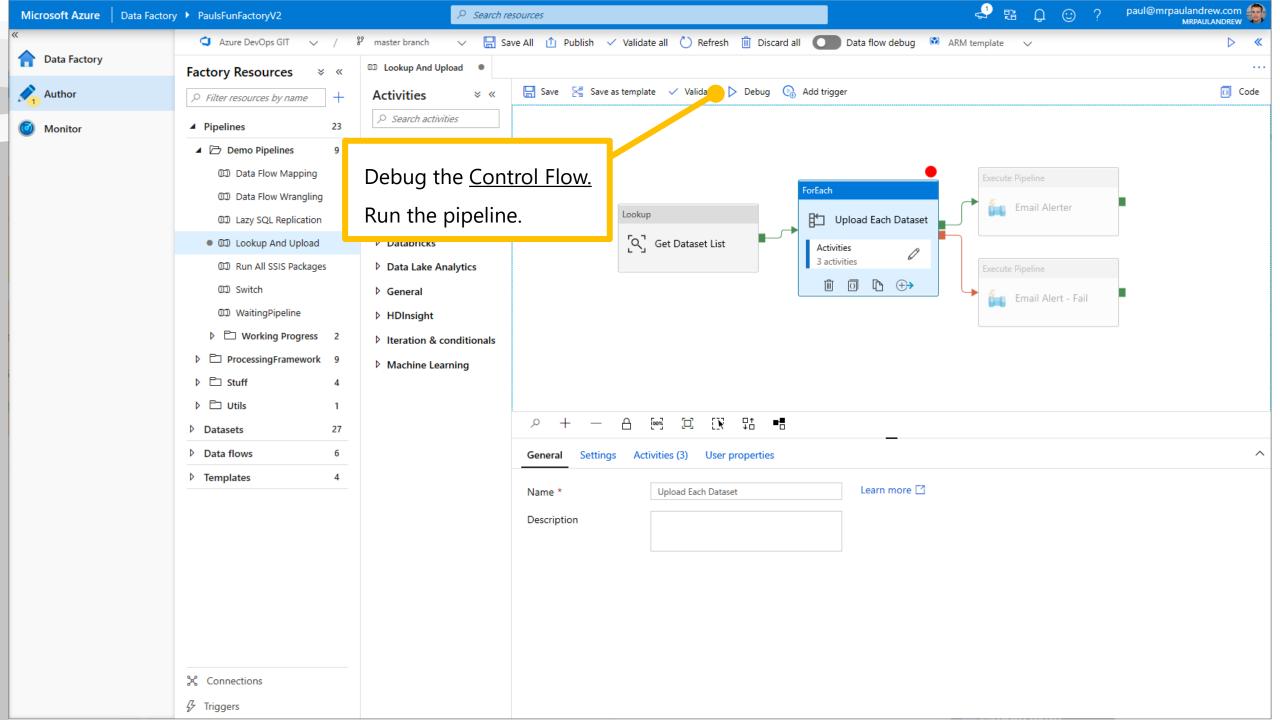
Documentation



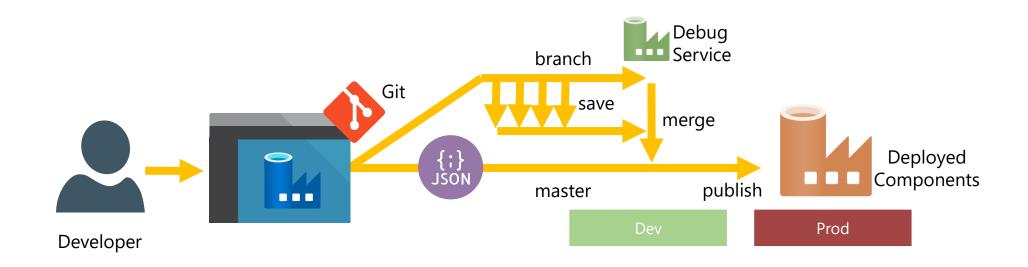
Author & Monitor



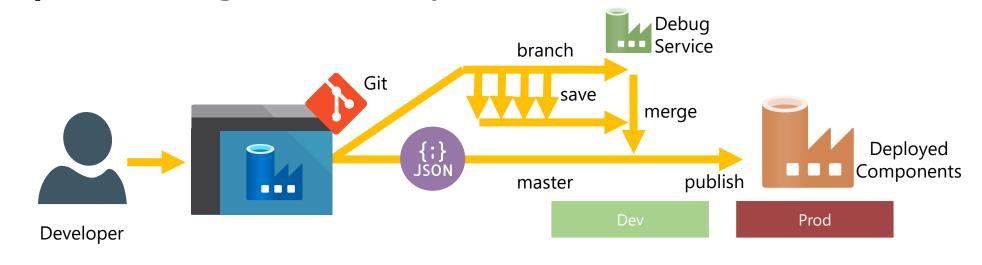




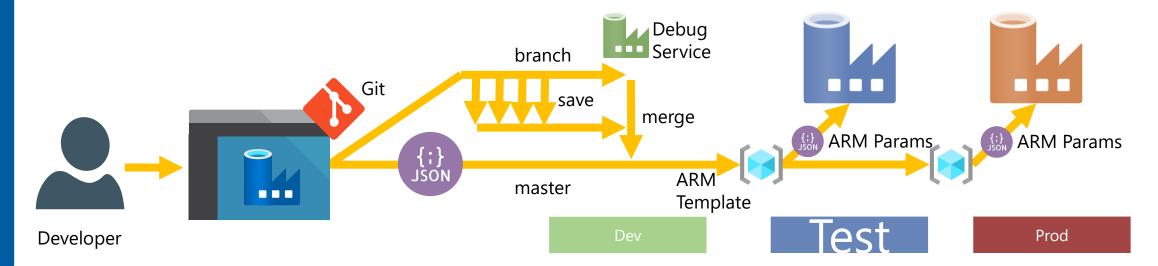
ARM Template Deployments

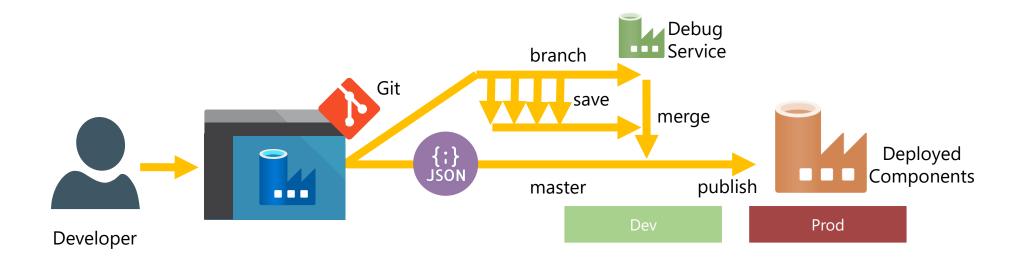


Option 1 – Single Data Factory Service

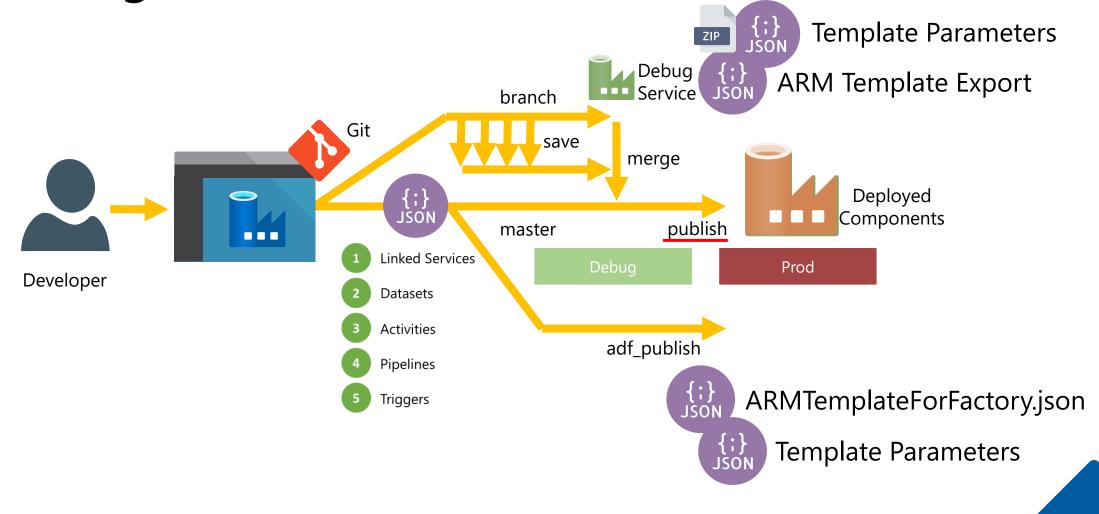


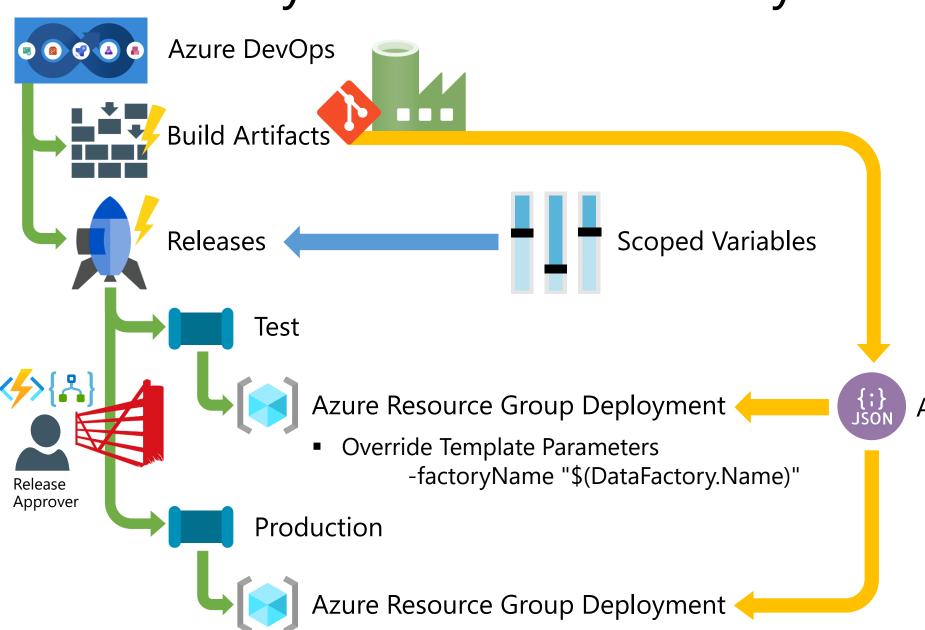
Option 2 – ARM Templates for Multiple Data Factory Services

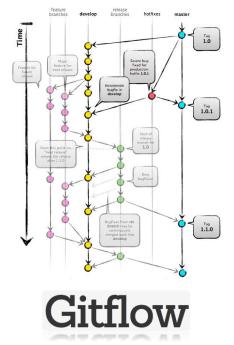




Getting Our ADF Source Code

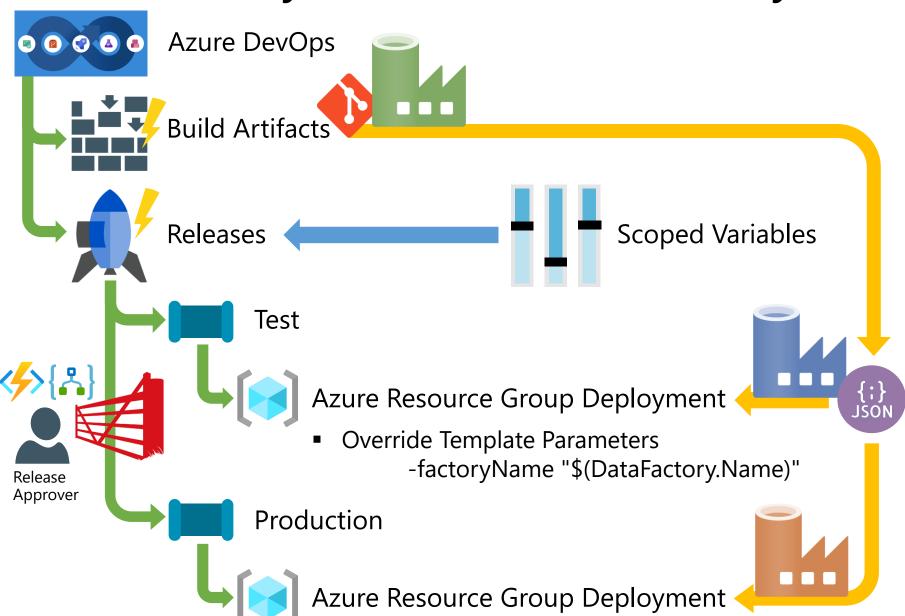


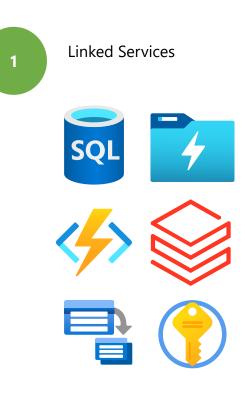




ARMTemplateForFactory.json

Data Factory Continuous Delivery **Linked Services** Azure DevOps **Datasets Build Artifact Activities** Releases **Pipelines Scoped Variables Triggers** Test Azure Resource Group Deployment ARMTemplateForFactory.json **Override Template Parameters** -factoryName "\$(DataFactory.Name)" Release Approver **Production** ure Resource Group Deployment



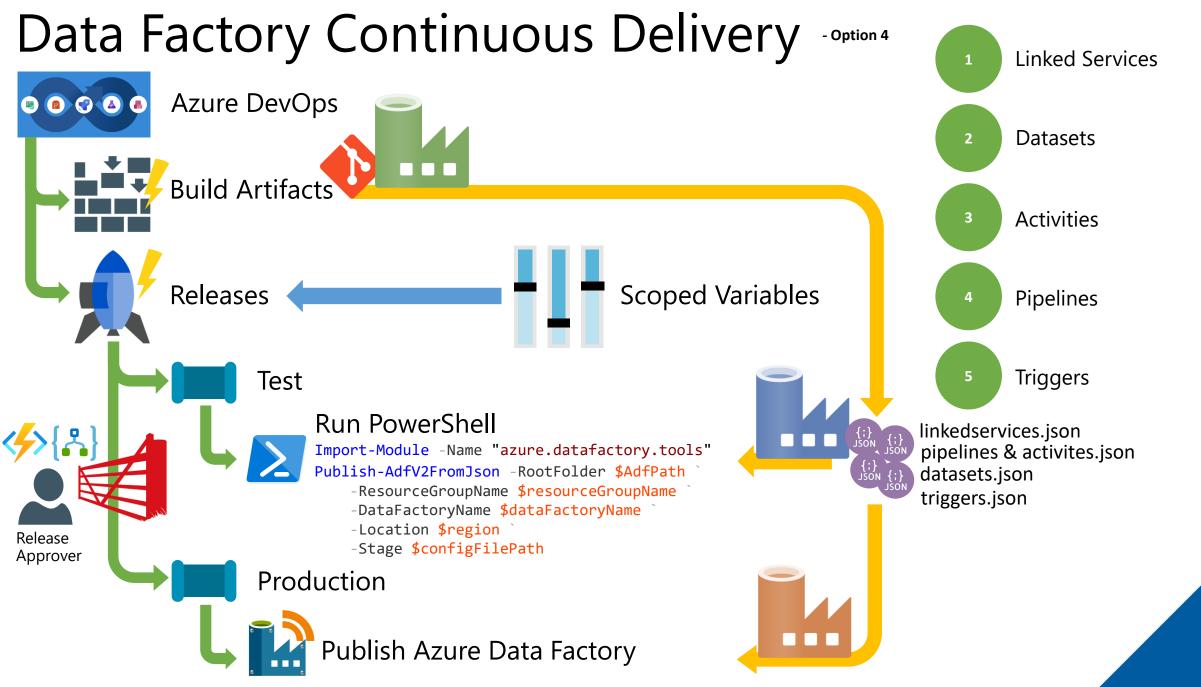


ARMTemplateForFactory.json

PowerShell Deployments

Data Factory Continuous Delivery - Option 3 **Linked Services** Azure DevOps Datasets **Build Artifact Activities** Releases **Scoped Variables Pipelines** Triggers Test Run PowerShell (son params.json linkedservices.json A Rivines & activites ison datasets. Ison datasets. Ison AZUTE Resource Group Deployment Set-AzDataFactoryV2Dataset Set-OzverarideryTemplatevParameters triggers.json andfspeurblish -factoryName "\$(DataFactory.Name)" Release Approver **Production** params.json Run PowerShell Azure Resource Group Deployment Set-AzDataFactory V2 Trigger

Data Factory Continuous Delivery **Linked Services** Azure DevOps **Datasets Build Artifacts Activities** Releases **Scoped Variables Pipelines Triggers** Test Run PowerShell params.json linkedservices.json pipelines & activites.json Set-AzDataFactoryV2Pipeline datasets.json Set-AzDataFactoryV2Dataset triggers.json Set-AzDataFactoryV2LinkedService dependencies Release Approver **Production** params.json Run PowerShell (Sin) 2) Handle Set-AzDataFactoryV2IntegrationRuntime Set-AzDataFactoryV2Trigger movals.



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?

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?...

How much control do you want?



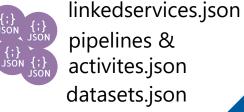






OR





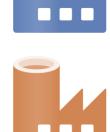
triggers.json











Module 8: CI/CD with Azure DevOps

Source Control vs Developer UI



MARM Templates Deployments



© PowerShell Deployments

