

Adventures in CI/CD with Azure Synapse



Craig Porteous

Principal Consultant



https://craigporteous.com



@cporteous



https://github.com/cporteou

















Adventures in CI/CD with Azure Synapse



Craig Porteous

Principal Consultant



https://craigporteous.com



@cporteous



https://github.com/cporteou

















twoday kapacity



Fellowwind











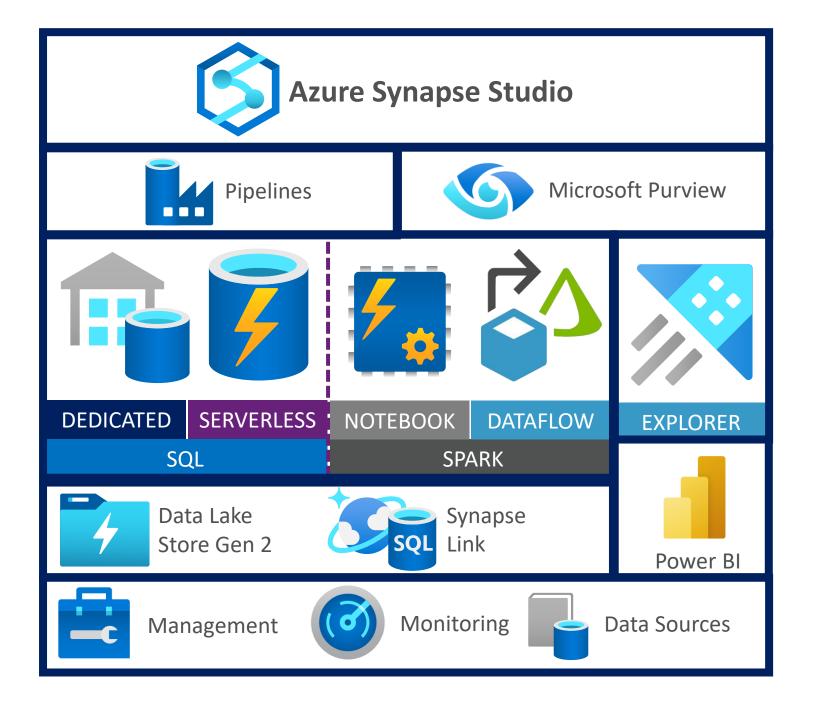




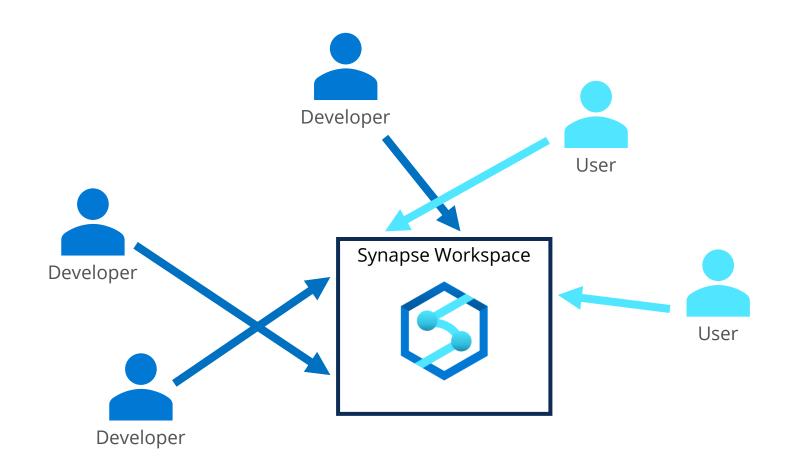








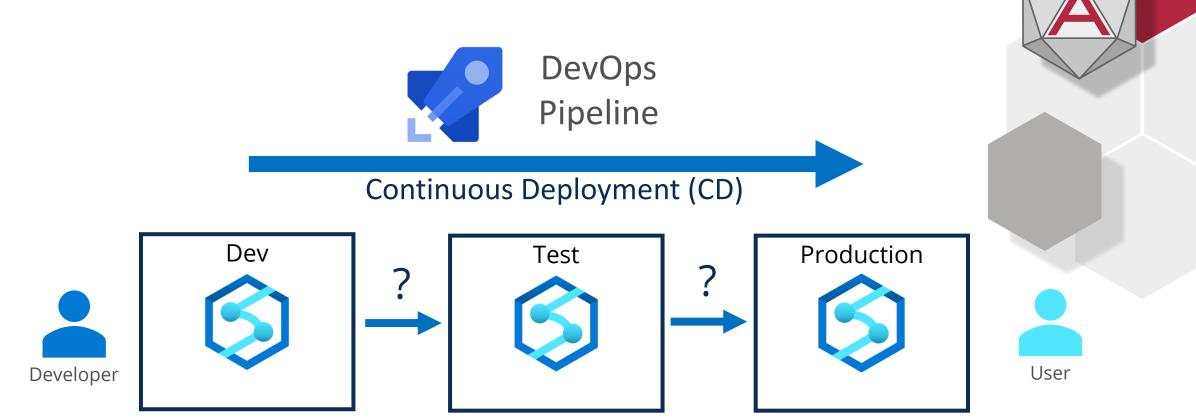
DEVELOPMENT CHALLENGES







MULTIPLE ENVIRONMENTS

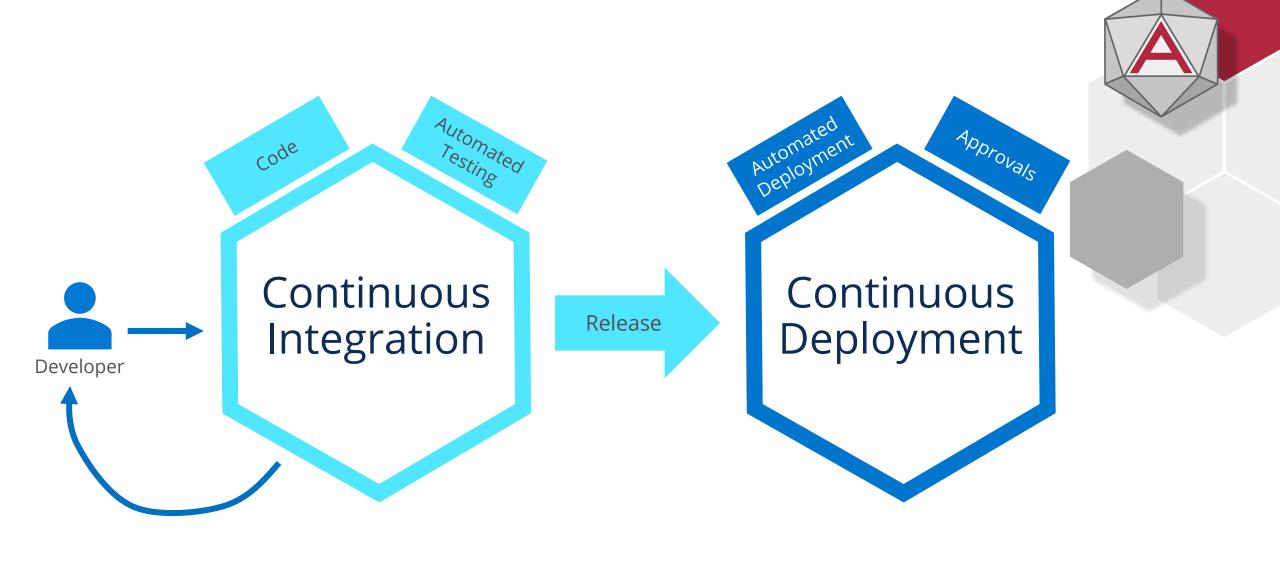






Continuous Integration Continuous Deployment







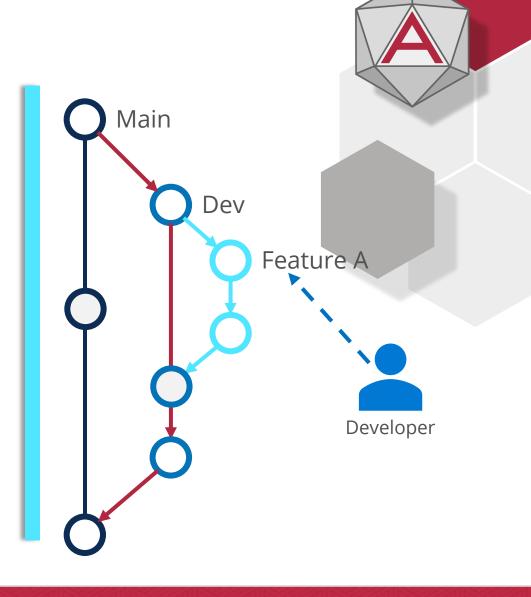
PREREQUISITES



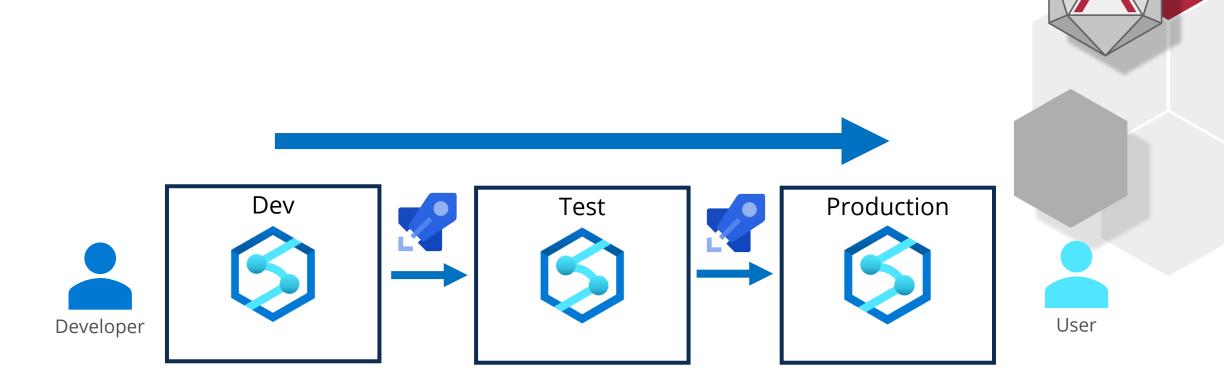






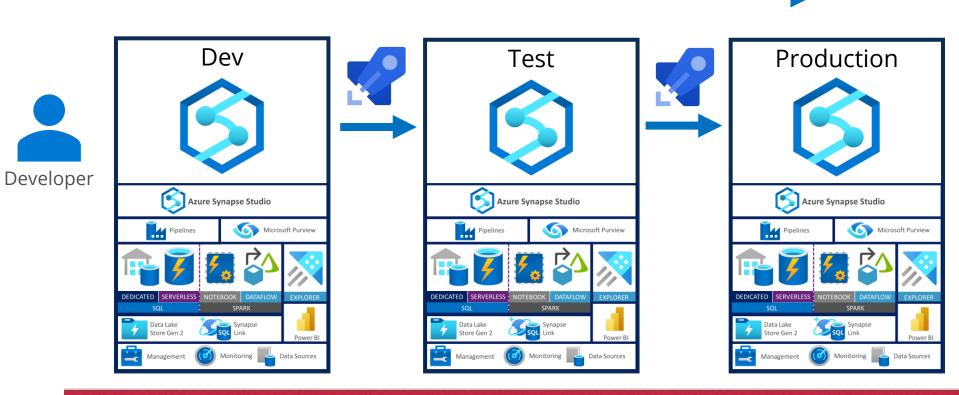


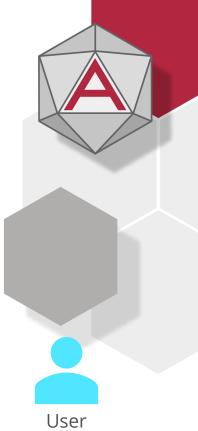
PROBLEM SOLVED



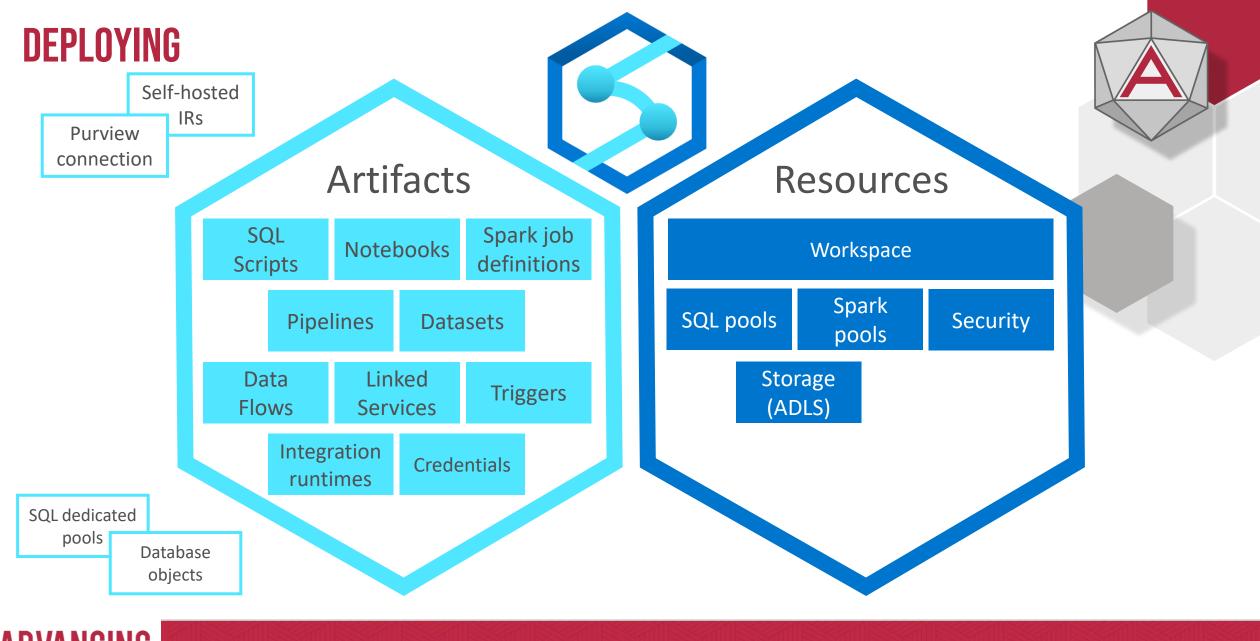


NOT SO SIMPLE



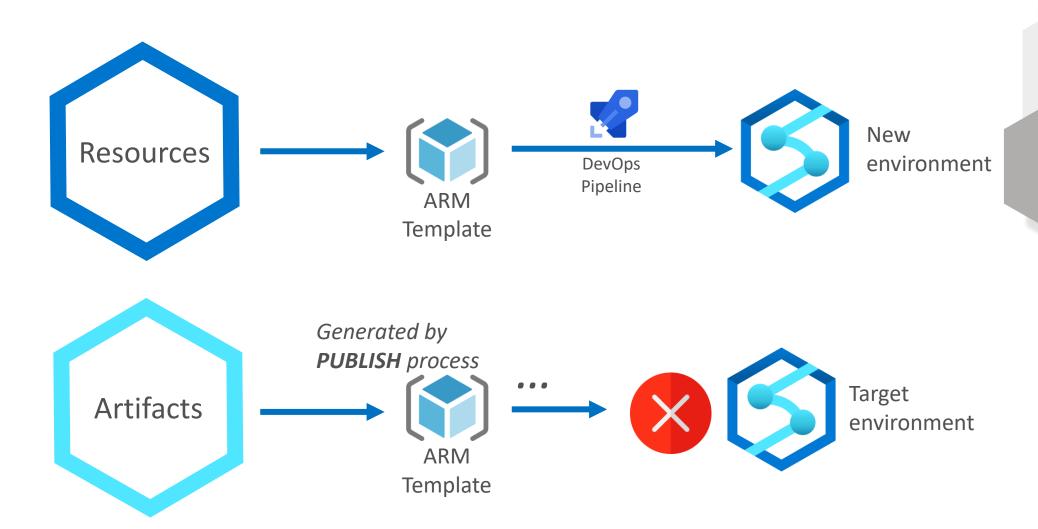






ADVANCING ANALYTICS

THIS IS NOT DATA FACTORY





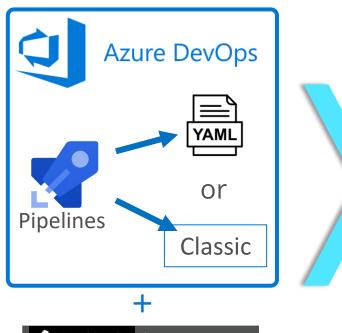
DEPLOYING ARTIFACTS

Repository

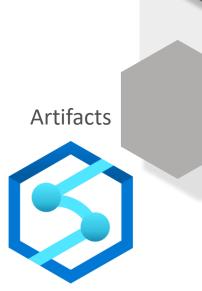










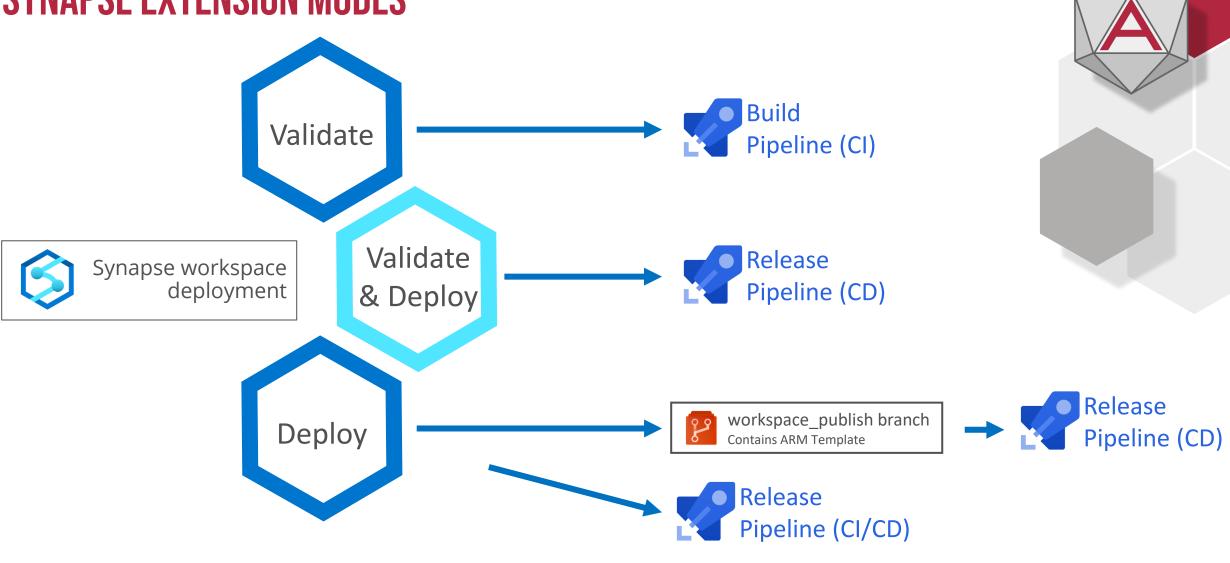




| Marketplace

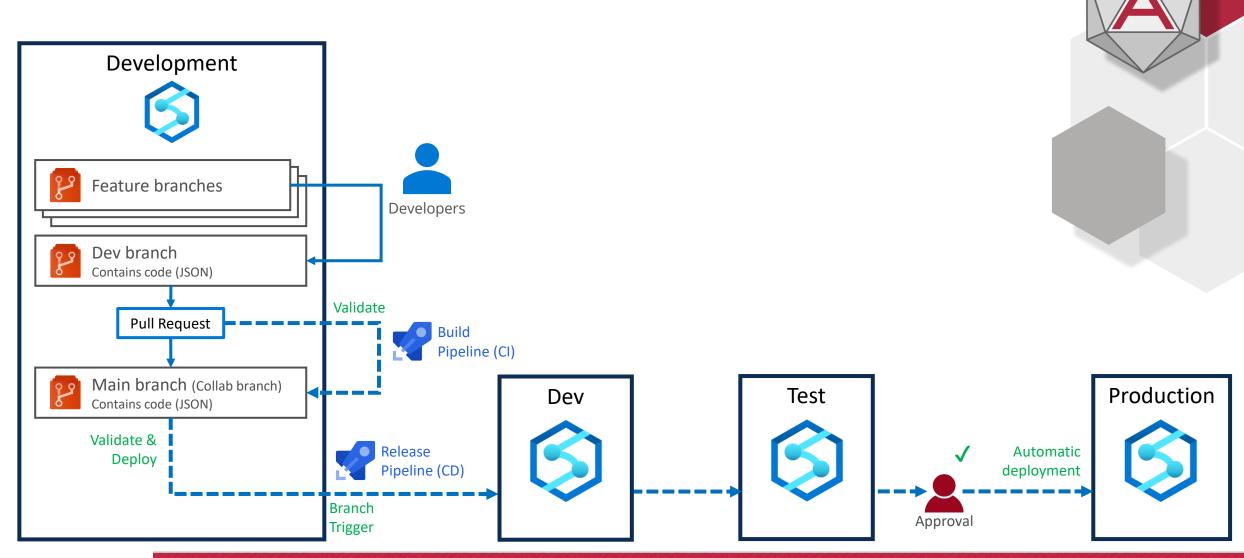


SYNAPSE EXTENSION MODES





AZURE SYNAPSE ANALYTICS CI/CD











Integration Runtime's need to be the same type in all environments



Notebook pool connections need to be updated (manually or by Find/replace)



Deploying Artifacts as ARM templates will give inconsistent results



Dedicated pools need to be online in target environment for CD pipeline



Required resources (e.g. Pools) need to be in place before deploying artifacts



Dedicated pool objects aren't handled – deploy with DACPAC step



The "Built-in" linked services will automatically "update" between environments





THANK YOU



https://craigporteous.com



@cporteous



https://github.com/cporteou

Session Feedback 💭











https://marketplace.visualstudio.com/items?itemName=AzureSynapseWorkspace.synapsecicd-deploy

(5) Using CI/CD for Serverless SQL Pools in Azure Synapse Analytics – YouTube

CI/CD For Azure Data Factory With Azure DevOps - Craig Porteous

