

Adventures in CI/CD with Azure Synapse



Craig Porteous

Principal Data Engineer



https://craigporteous.com



@cporteous



https://github.com/cporteou















Adventures in CI/CD with Azure Synapse



Craig Porteous

Principal Data Engineer



https://craigporteous.com



@cporteous



https://github.com/cporteou













Let's thank our../



Community Partner Support



Volunteers:





Satya Jayanty

Enterprise Architect specialised in Data Platforms and Cloud Computing, Speaker, Mentor, and Community Organiser.



Tom Sykes

Senior Cloud Data Architect with many years of experience in the Cloud and Database industry, and Certified Trainer.

- Syama Rudra
- Aditya Yembuluru
- Venkatesh Gaddam
- Samrat Rayuri
- Saikrishna Prathipati
- Saimohan Inala
- Mark Adamson

GOLD SPONSORS









SILVER SPONSORS





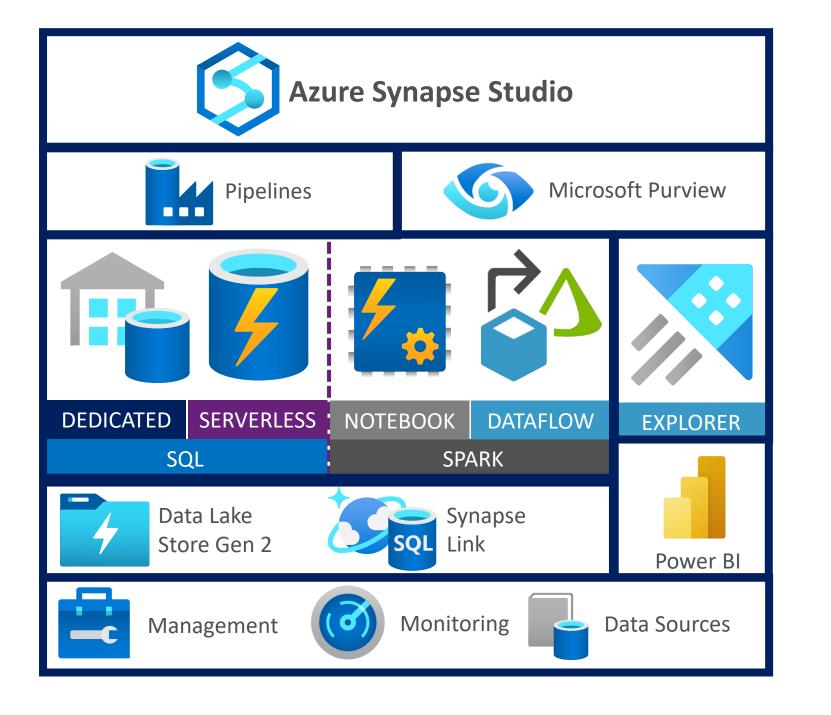


BRONZE SPONSOR

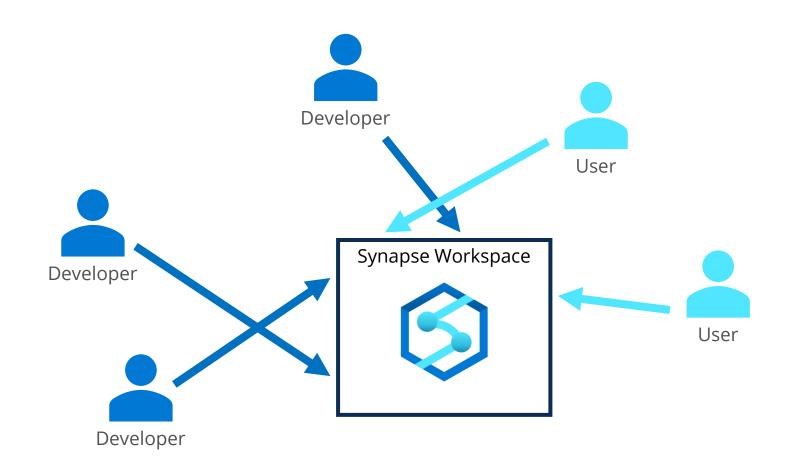


GETHYNELLIS COM





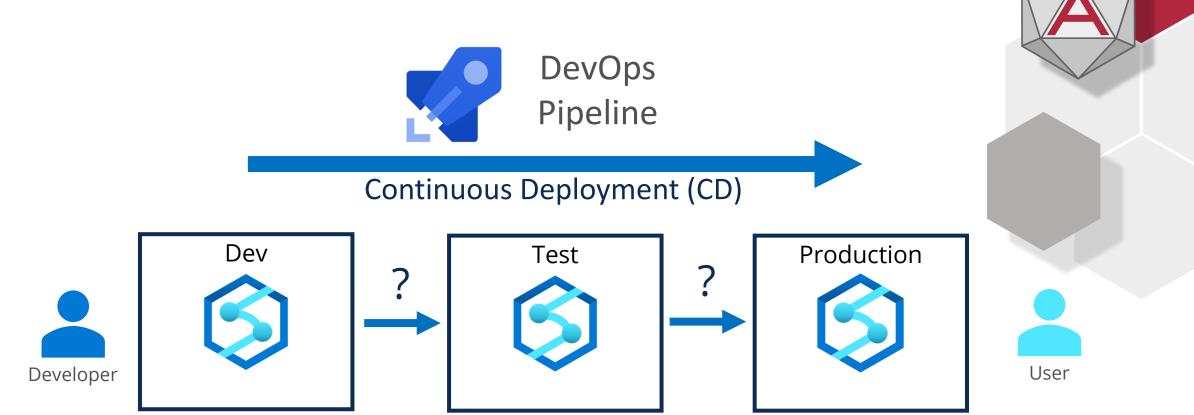
DEVELOPMENT CHALLENGES







MULTIPLE ENVIRONMENTS



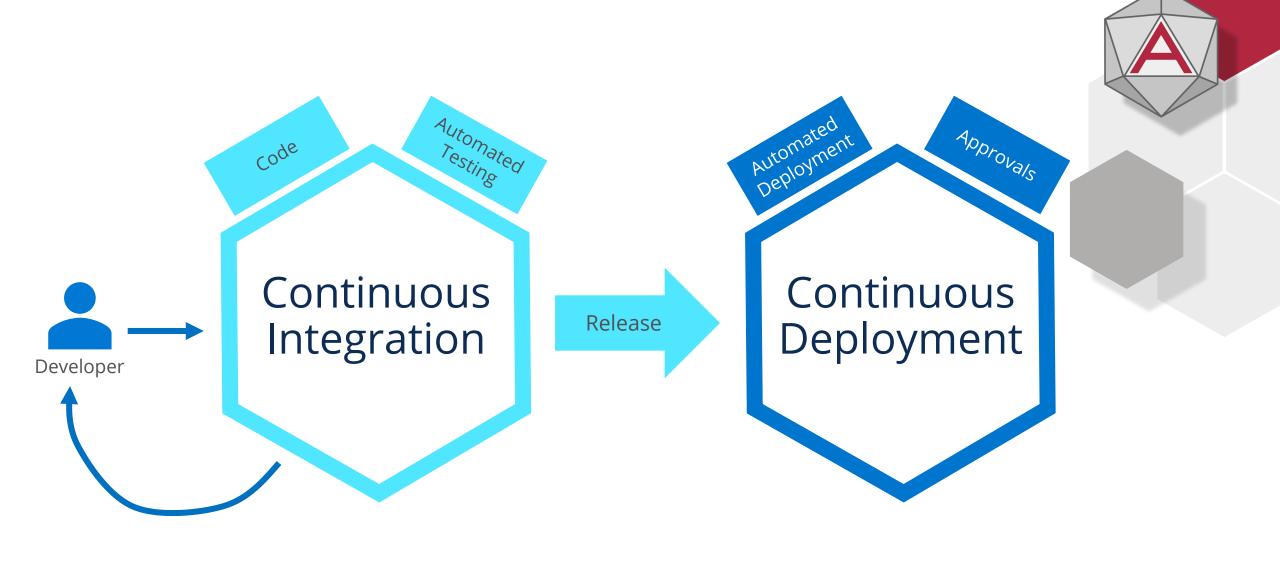




Continuous Integration

Continuous Deployment







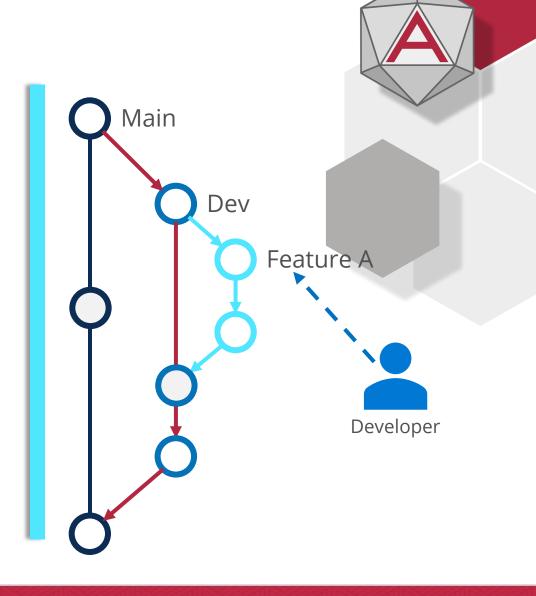
PREREQUISITES



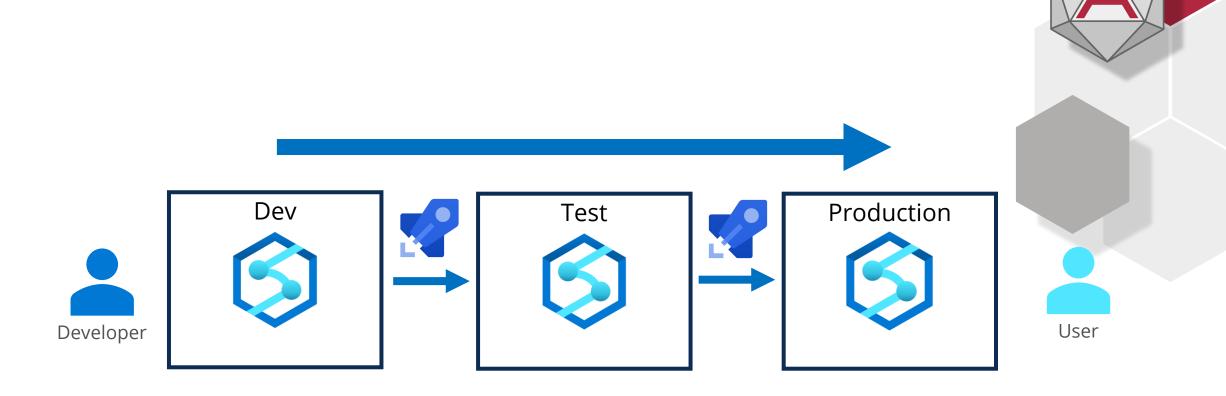








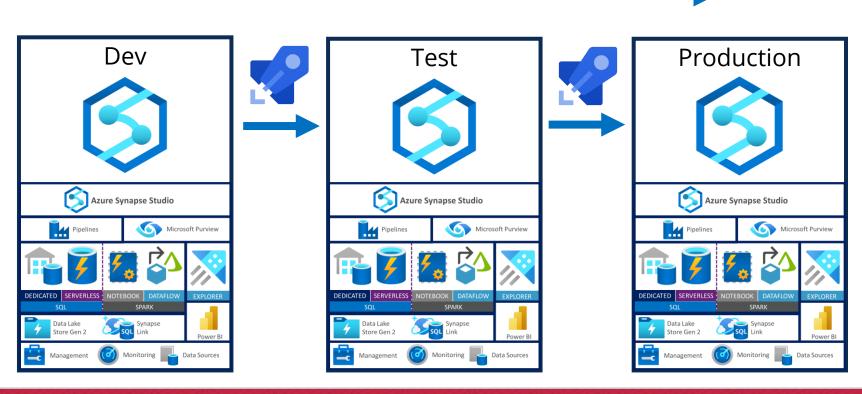
PROBLEM SOLVED

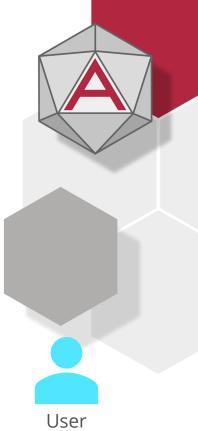




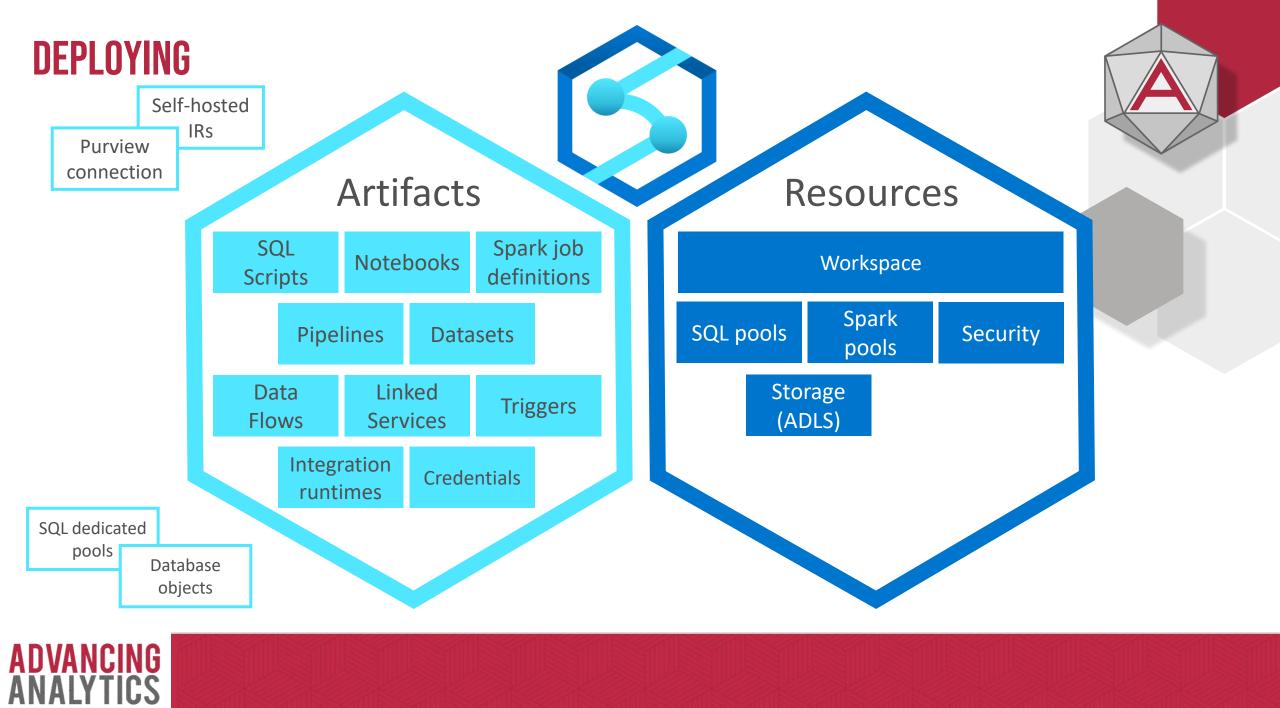
NOT SO SIMPLE

Developer

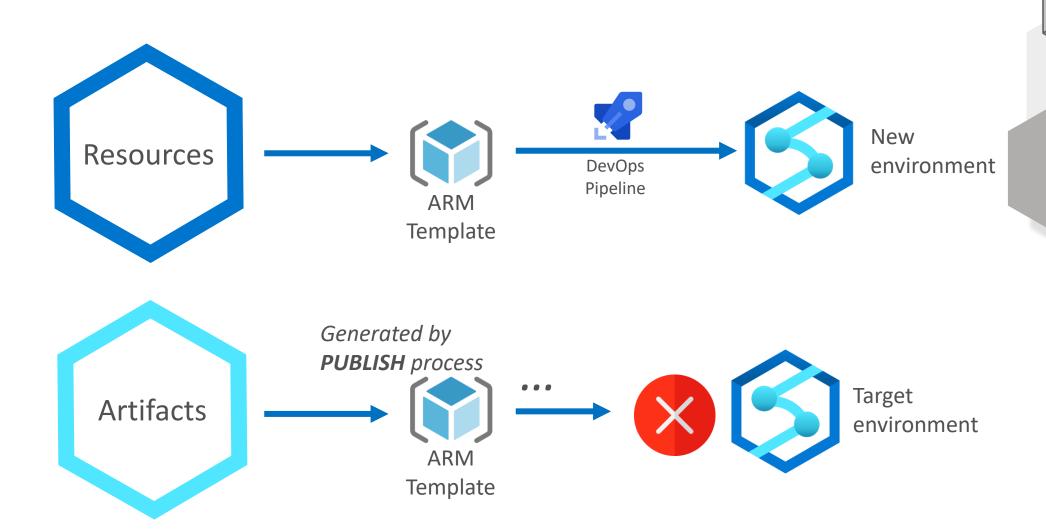








THIS IS NOT DATA FACTORY





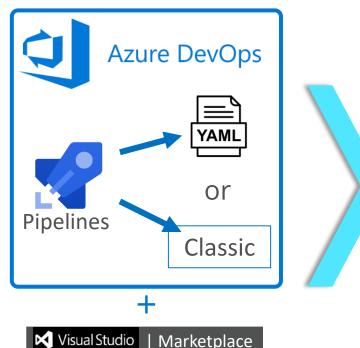
DEPLOYING ARTIFACTS

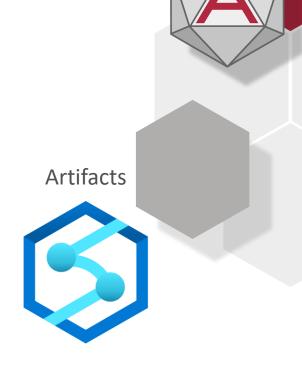










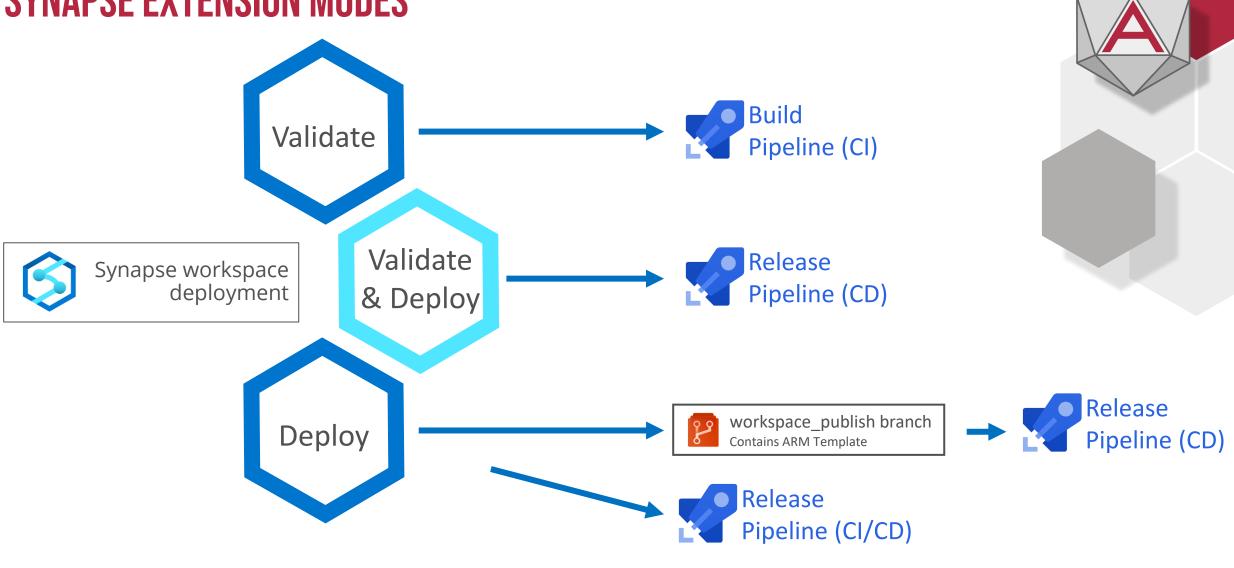




| Marketplace

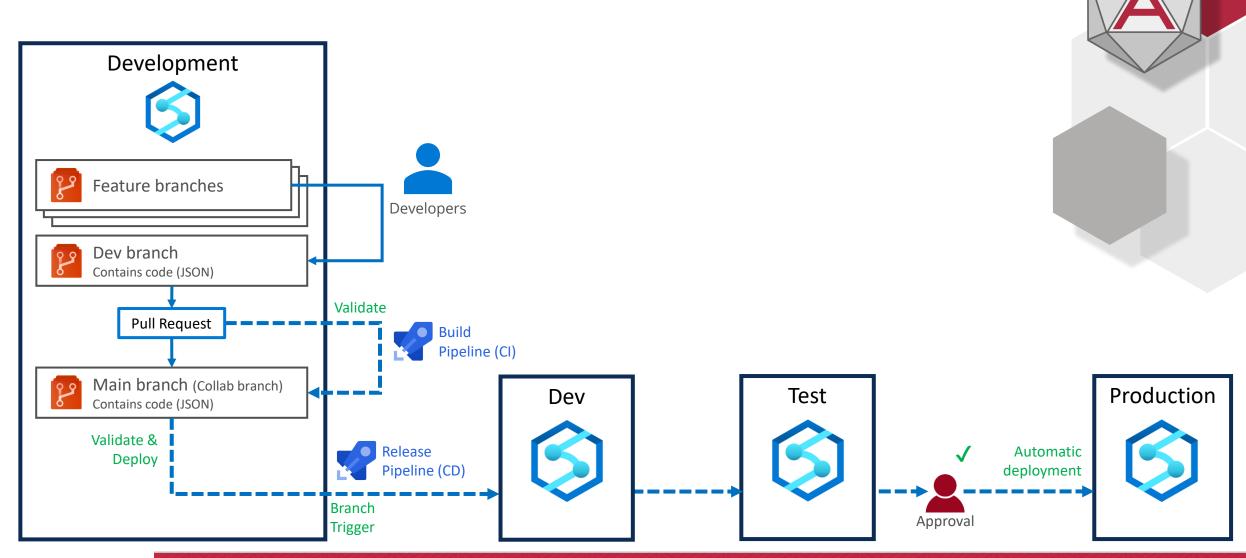


SYNAPSE EXTENSION MODES





AZURE SYNAPSE ANALYTICS CI/CD



ADVANCING ANALYTICS







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









Let's thank our../



Community Partner Support



Volunteers:





Satya Jayanty

Enterprise Architect specialised in Data Platforms and Cloud Computing, Speaker, Mentor, and Community Organiser.



Tom Sykes

Senior Cloud Data Architect with many years of experience in the Cloud and Database industry, and Certified Trainer.

- Syama Rudra
- Aditya Yembuluru
- Venkatesh Gaddam
- Samrat Rayuri
- Saikrishna Prathipati
- Saimohan Inala
- Mark Adamson

GOLD SPONSORS









SILVER SPONSORS







BRONZE SPONSOR



GETHYNELLIS COM





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

