Code-to-Cloud

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Insight DevOps Fellowship, New York

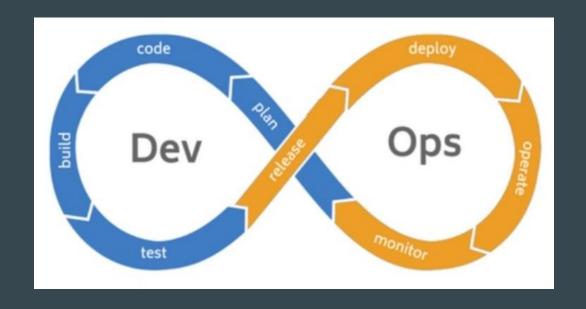
Wen Gong

Business Problem

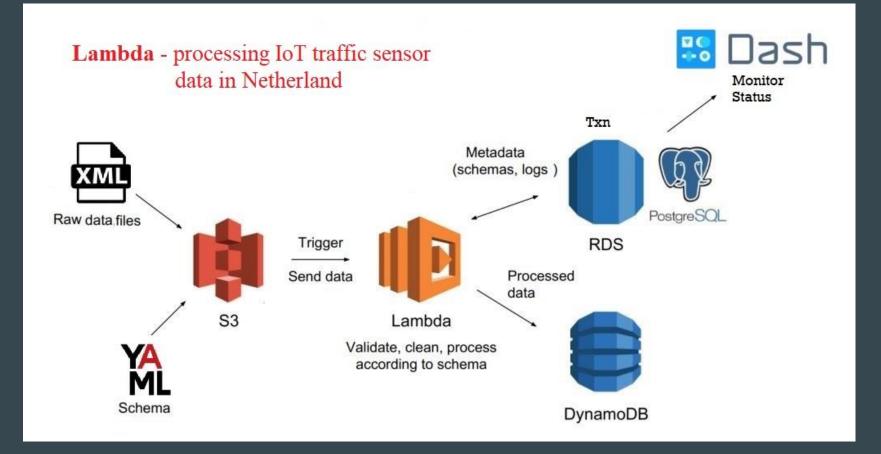
- Streamline processes: test > build > deploy
 - => Enable developers to focus on features + faster time-to-market speed
- Migrate business to cloud
 - => Gain business values: productivity and cost savings.

Motivation

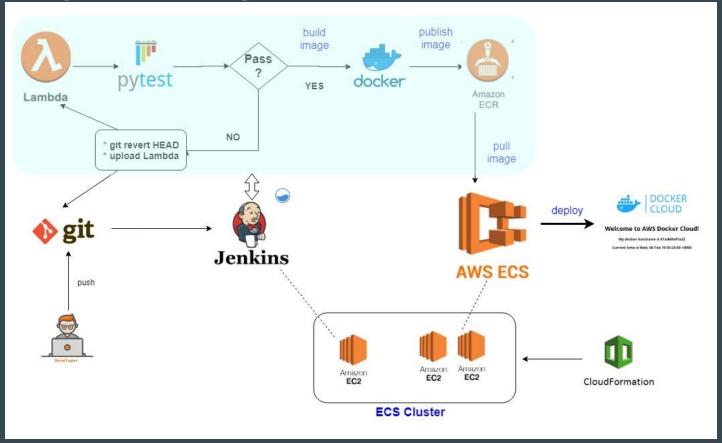
- Apps
- Processes (Jenkinsfiles)
- Infrastructures (Dockerfiles, ...)



Data Engineering Pipeline



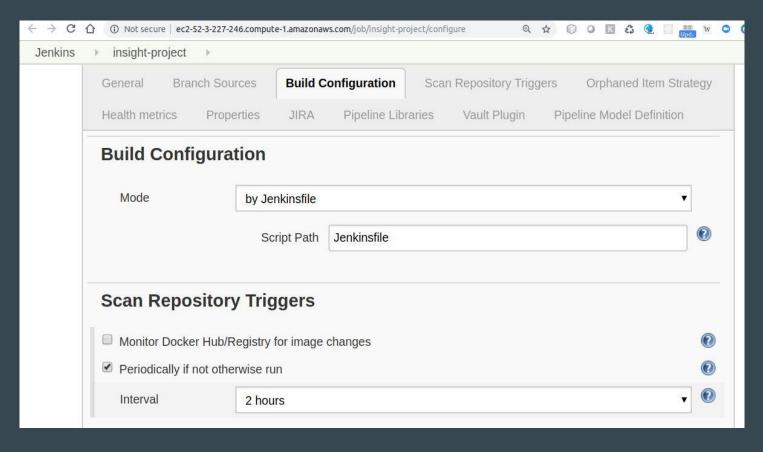
DevOps CI/CD Pipeline



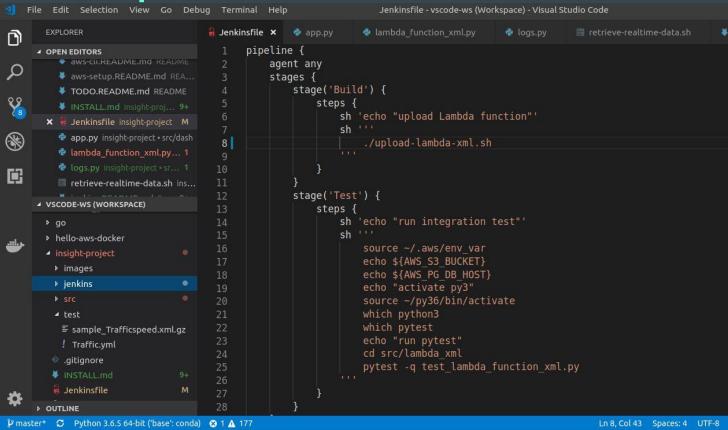
Challenges

- Write pytest on Data Engineer's pipeline
 - => add new table and write new code for schema changes
- Rollback Lambda when build test failed
 - => Write custom python code
- Jenkins plugin (Docker build and publish) not working
 - => Write bash code as workaround

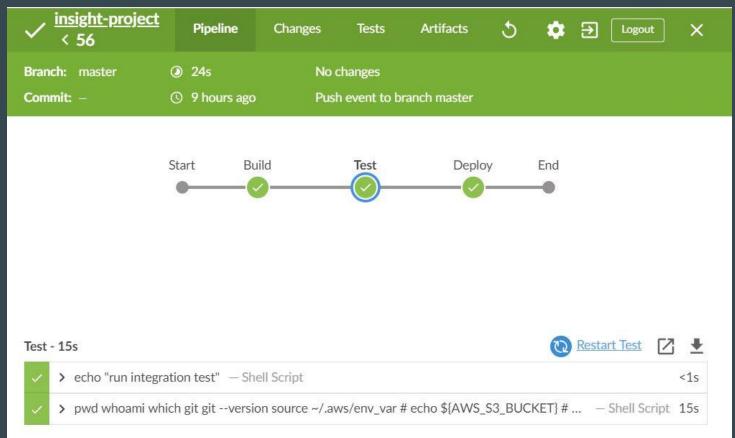
Jenkins: Build Config



Jenkins: Pipeline/Jenkinsfile



Jenkins: Dashboard



Wen Gong

- 20 years of experience as Software Engineer / Consultant
 - => Built customer master, integration bridges, ETL & data quality tools
- Look forward to new oppty in DevOps
- Passionate about STEM edu
 - => Teach py4kids
 - => student selected as 2019 Regeneron STS Scholar
- Ph.D. in nuclear physics









Questions