Code-to-Cloud

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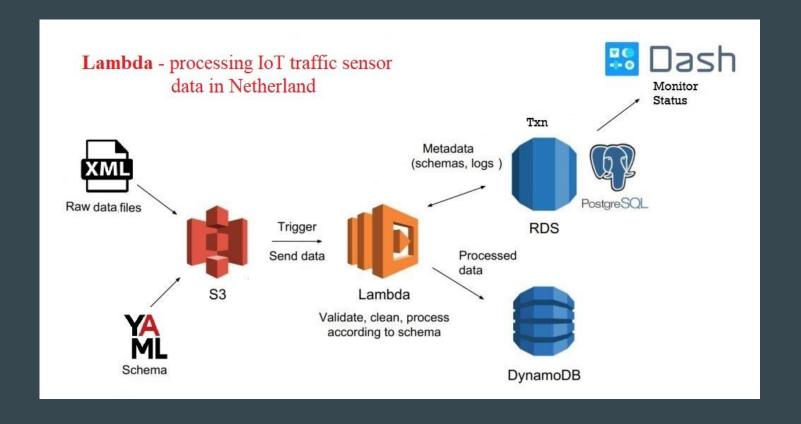
Insight DevOps Fellowship, New York

Wen Gong

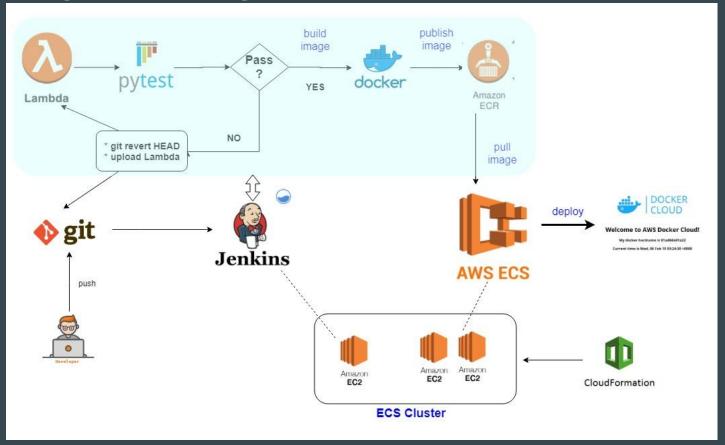
Business Problem

- Streamline processes: code > test > build > deploy to cloud => Faster time-to-market speed
- Migrate business to cloud
 - => Gain productivity and save cost

Data Engineering Pipeline



DevOps CI/CD Pipeline



Challenges

- Write pytest on Data Engineer's pipeline
 - => added new table and wrote new code for schema changes
 - => improved DE pipeline for dealing with parallel tests
- Jenkins plugin (Docker build and publish) not working in ECS
 - => Wrote workaround code in bash
- Handle secrets when deploying pipeline to container
 - => enhanced code to use Vault

Demo

• video link

Wen Gong

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









Questions

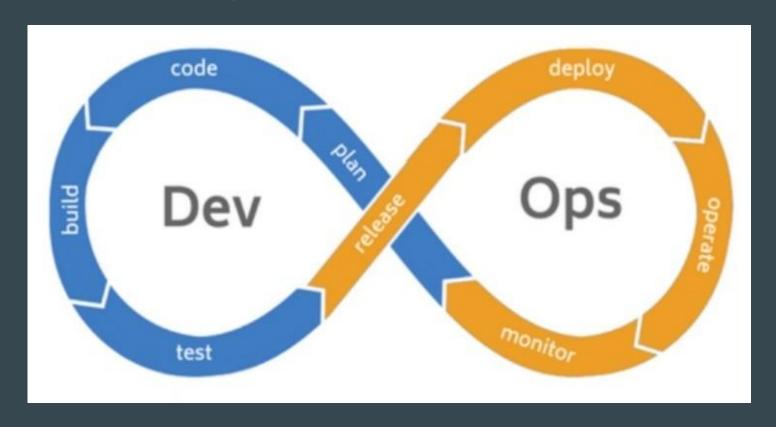




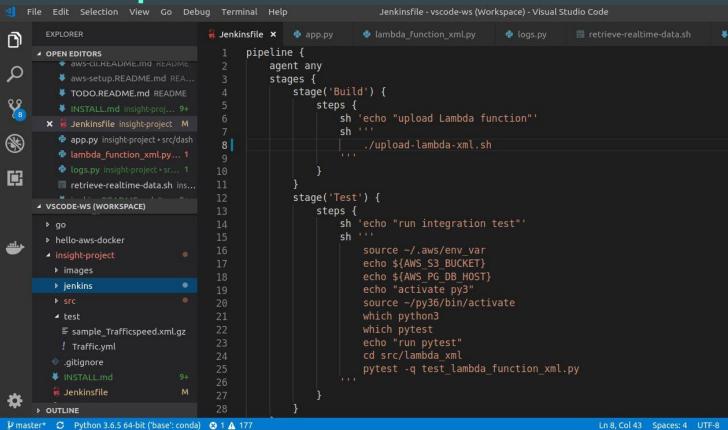
Links

- http://jenkins.s8s.cloud/
- https://github.com/wgong/code2cloud

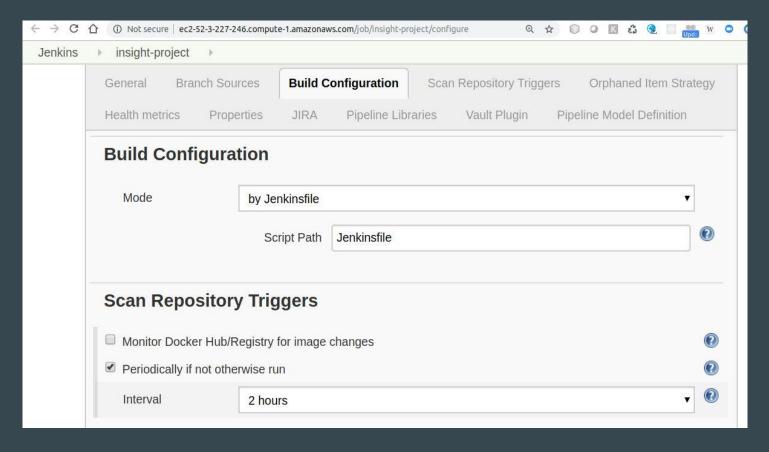
Solution: Dev + Ops



Jenkins: Pipeline/Jenkinsfile



Jenkins: Build Config



Jenkins: Dashboard

