Code-to-Cloud

Insight DevOps Fellowship, New York

Wen Gong

Business Problem

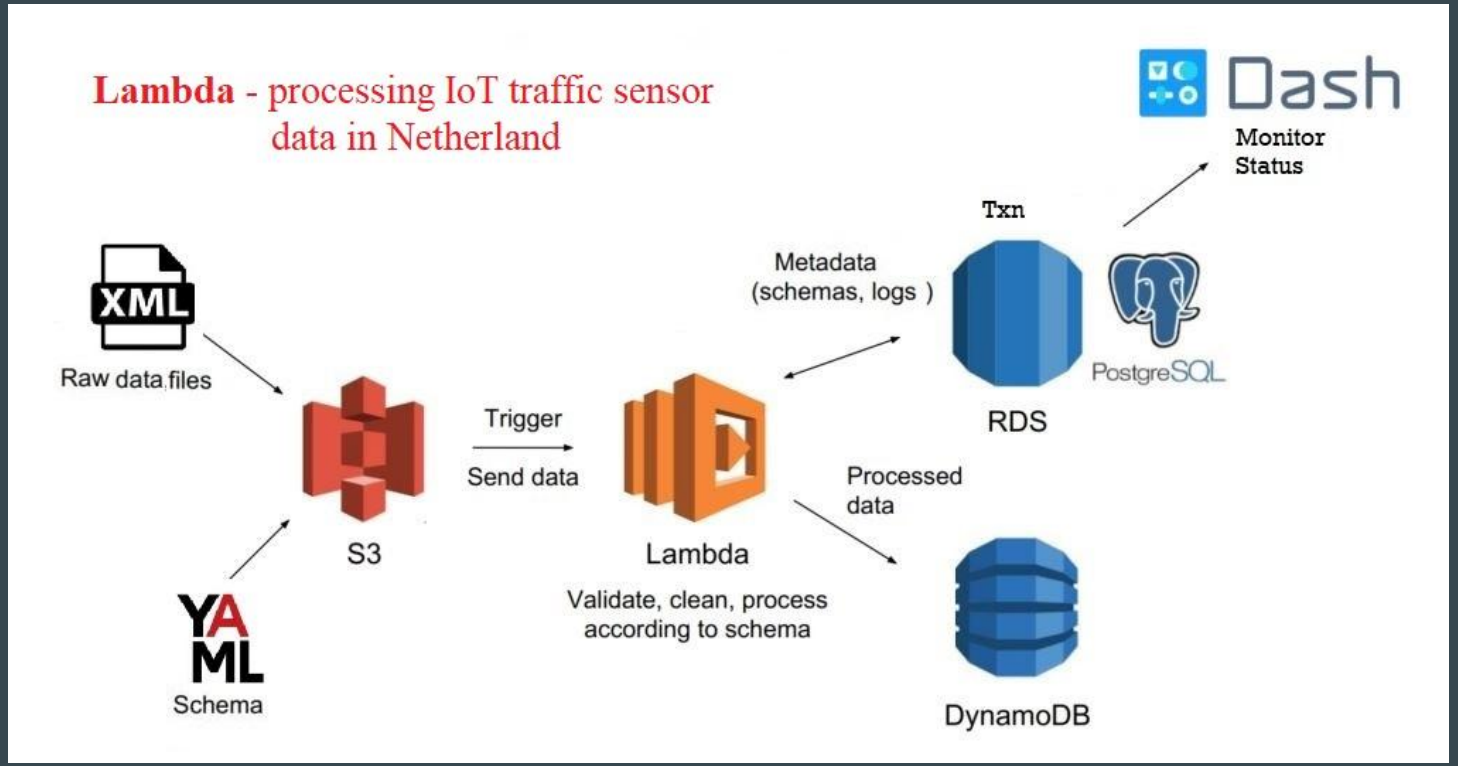
- Streamline processes: code > test > build > deploy to cloud

  => Faster time-to-market speed

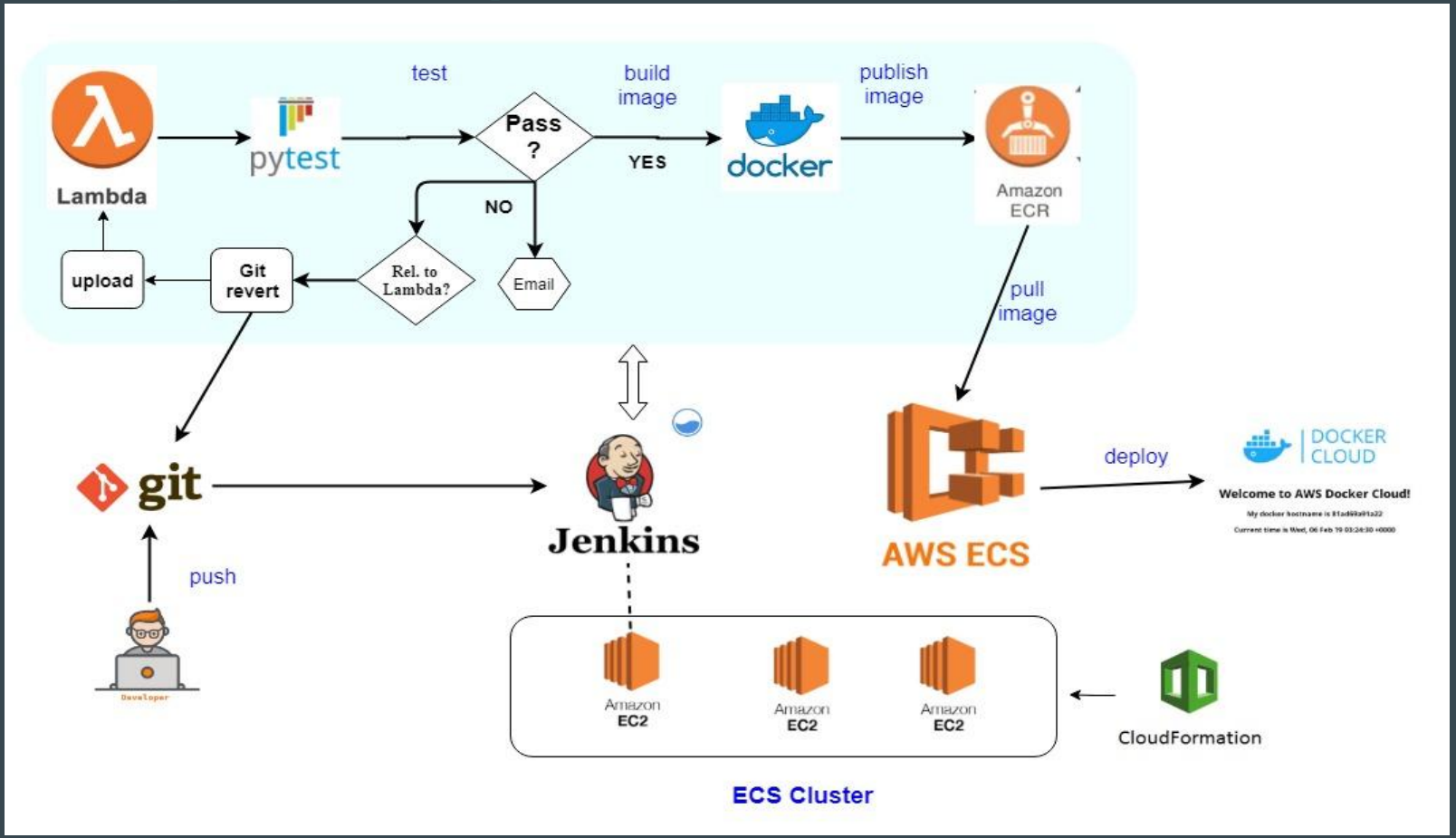
- Migrate business to cloud

  => 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

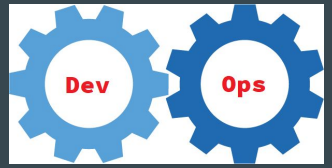
Demo

- 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

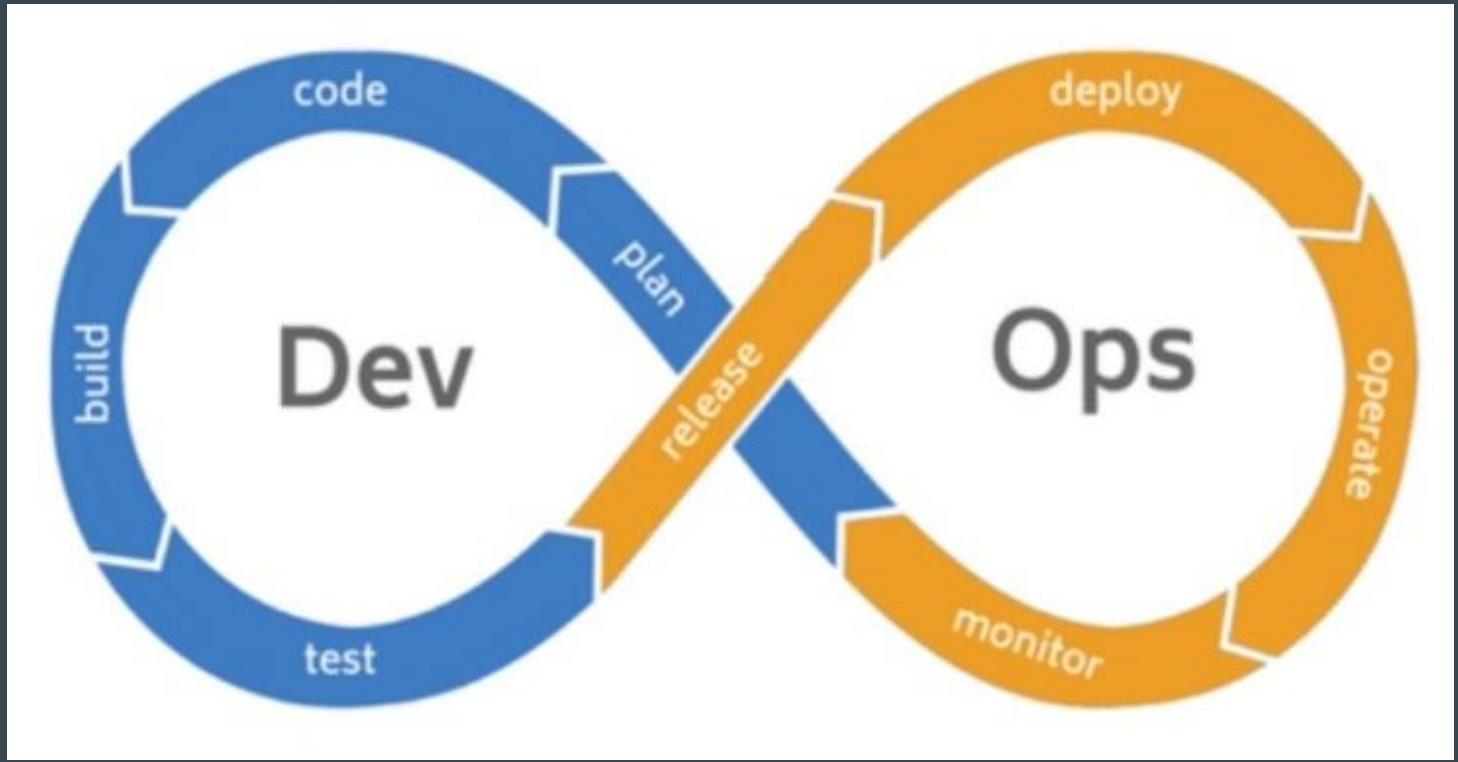


Questions

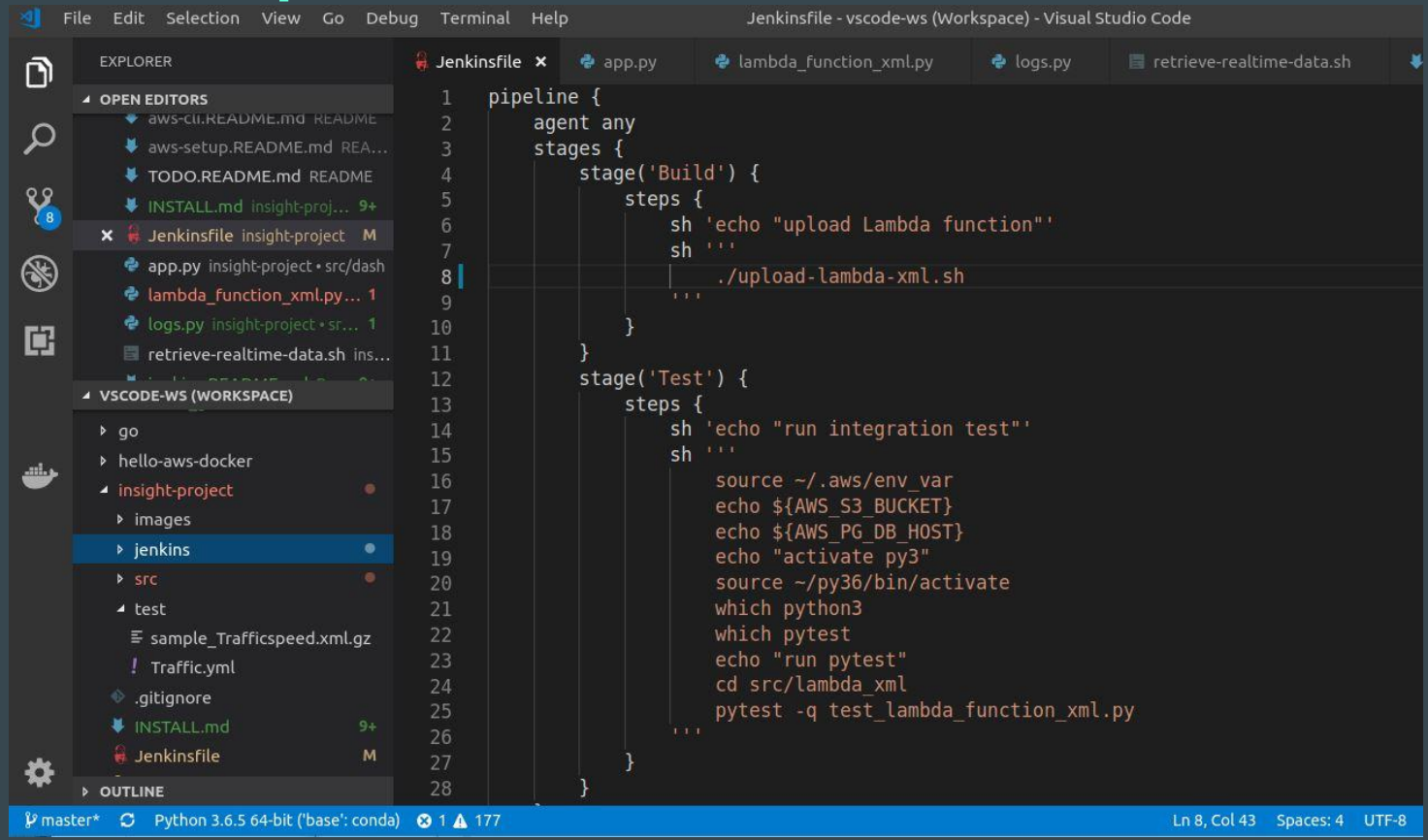
Links

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

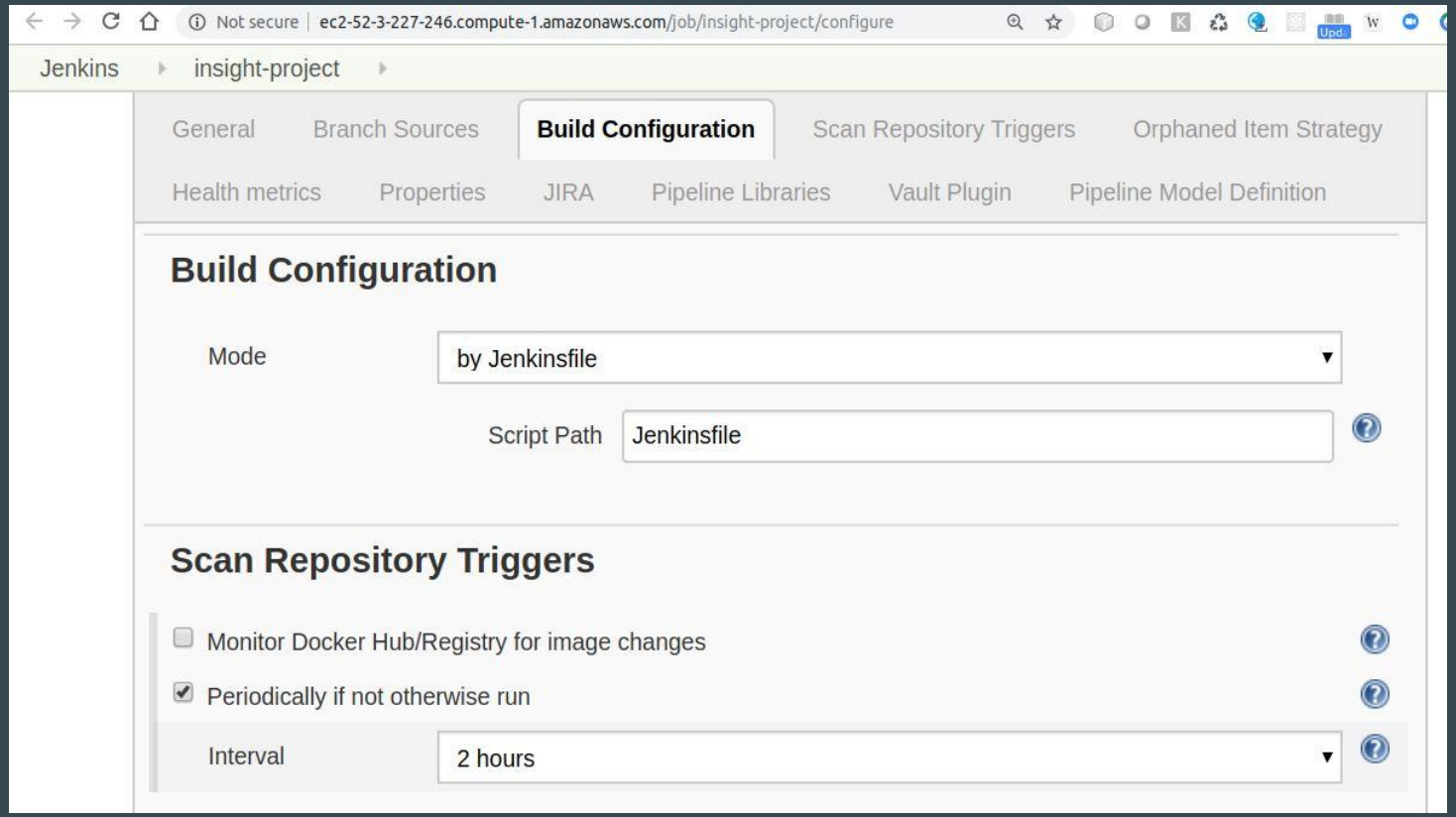
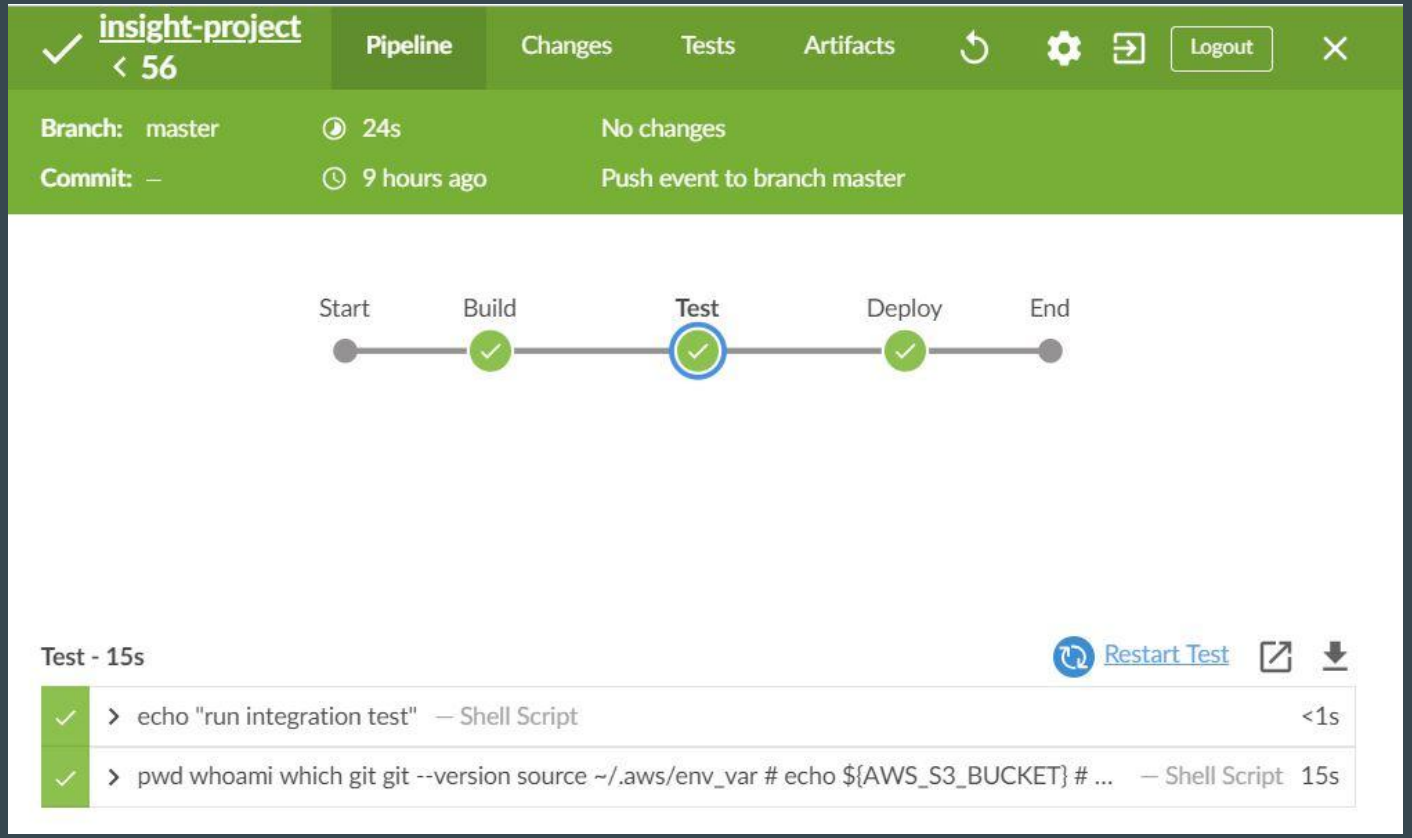
Solution: Dev + Ops



Jenkins: Pipeline/Jenkinsfile



Jenkins: Build Config



Jenkins: Dashboard