Code-to-Cloud express

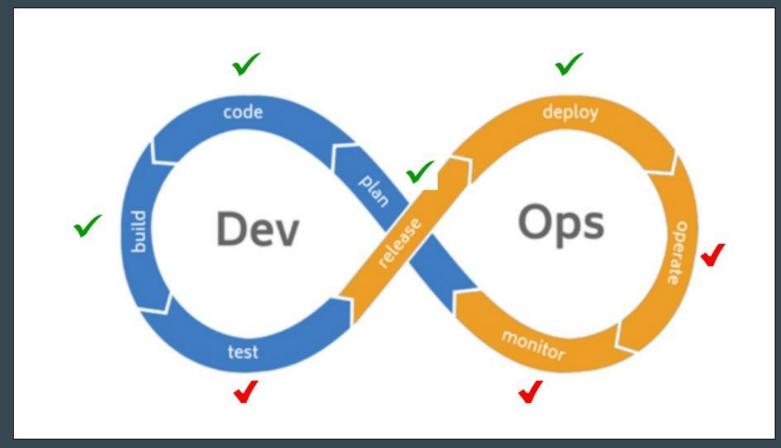
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Insight DevOps Fellowship, New York
Wen Gong
2019-01-24

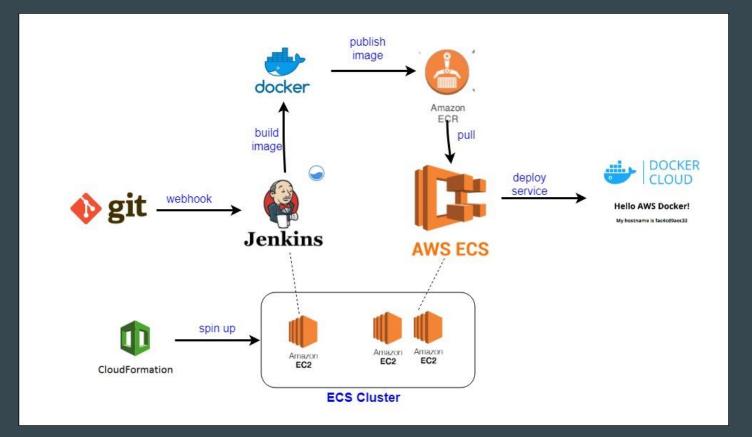
Business Problem

- What
 - Business migrates to cloud (such as AWS, GCP)
 - How to adopt best practices to boost productivity and improve development & operation support experiences at the same time?
 - Current on-prem IT app release cycle ranges from weekly to quarterly
 - How to speed up release and improve quality?
- Why
 - Cloud offers business benefits: speedup innovation and productivity gain
 - DevOps enables a paradigm shift in software development
- Goal
 - Help business move to cloud
 - Improve software development process and experience

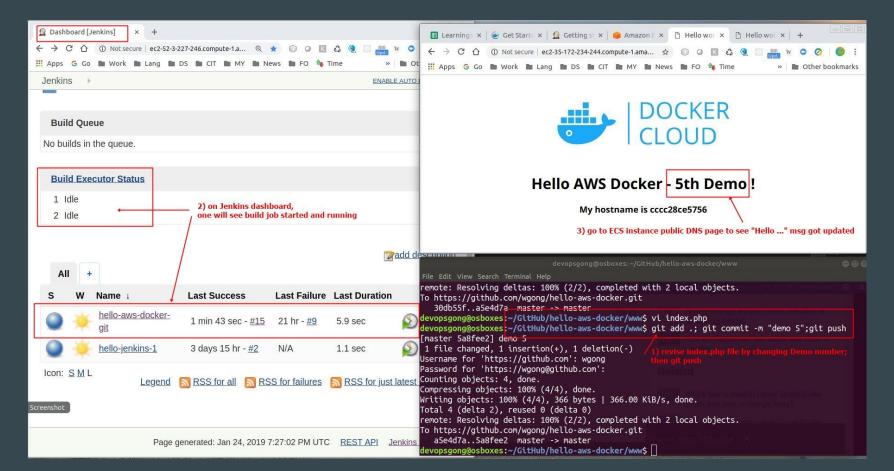
DevOps - Continuous Pipeline



Demo – Hello Docker Cloud (Week 2)



Demo – Hello Docker Cloud



Lessons learned

- Collab with TA + Fellows via email + MatterMost
 - O Jianshi, Chuck, Arseny
- Jenkins
 - O Plugin not working, debug: run bash script line-by-line
 - Build workaround
- AWS ECS
 - ECR Credential Helper
 - Console + CLI
 - Read docs

Plan for next week

- Build test on Arseny's project (Data Freeway)
 - O AWS: S3, Lambda, RDS, Dynamo, Flask, Dash
- Learn / evaluate
 - Jenkinsfile
 - Amazon EKS Managed Kubernetes Service to run Jenkins

Project Challenges

- Build a working baseline in 3 weeks
 - CI + CD + Monitor
- Evaluate, learn and incorporate multiple new technologies and tools
 - Jenkins
 - Kubernetes + Helm Chart
 - Prometheus

Wen Gong

- 15+ years of experience as <u>Software Engineer and IT Consultant</u> in CRM applications
- Build customer data management solutions
 - o master/hub, bridges, data quality, ETL
- Had a Ph.D. in nuclear physics
- Fun: teach kid to code
 - o github.com/wgong/py4kids
 - o 2019 Regeneron STS Scholar
 - o introduce kid to cloud



Q&A - Love your suggestion and feedback

- 1.
- 2.
- 3