Continuous Delivery (CD):
How we got CD and where do we go next?

Sanjeev Sharma
Principal Analyst, Accelerated Strategies
@sd_architect
Sanjeev@accelst.com

Continuous Delivery (CD): Origins

2009:
10+ Deploys Per Day: Dev and Ops Cooperation at Flickr, Velocity Conference talk by John Allspaw and Paul Hammond, Flickr/Yahoo

2010:
Continuous Delivery, Jez Humble, ThoughtWorks
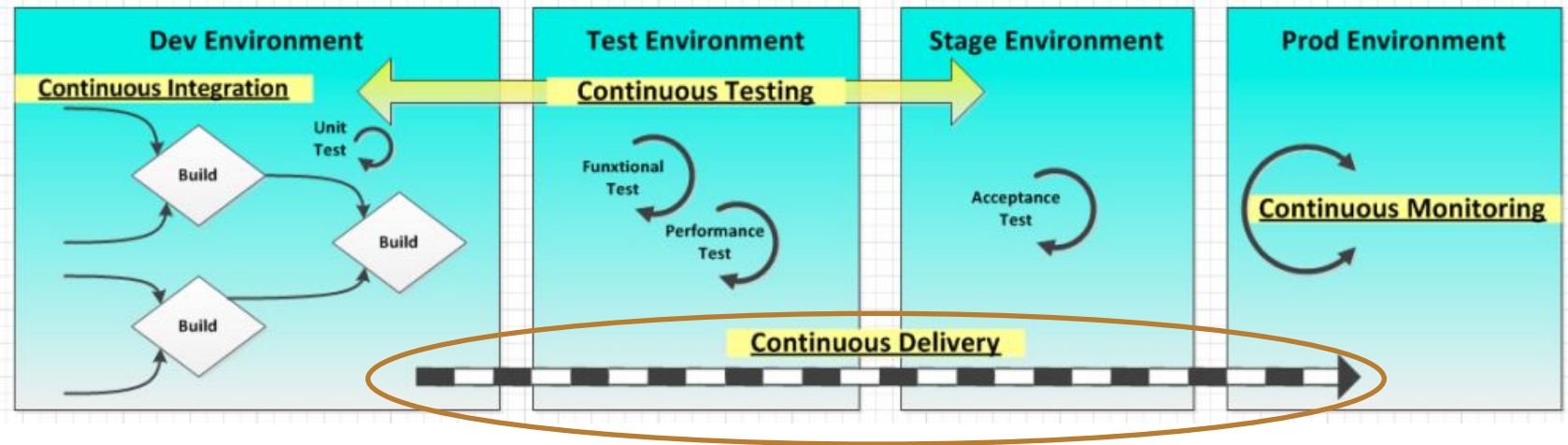
2012:
IBM Acquires UrbanCode
CA Acquires Nolio

2013:
The Phoenix Project, Gene Kim, Kevin Behr, George Spafford
DevOps For Dummies, IBM Edition, Sanjeev Sharma

Continuous Delivery (CD)

Continuous Delivery vs Continuous Deploy

Carl Caum
@ccaum

Continuous Delivery doesn't mean every change is deployed to production ASAP. It means every change is proven to be deployable at any time

3:25 AM · Aug 28, 2013

♡ 172   💬 314 people are Tweeting about this

https://sdarchitect.blog/2013/10/16/understanding-devops-part-6-continuous-deployment/

Tool Landscape - It's a big space

PERIODIC TABLE OF DEVOPS TOOLS (V3)

Key CD Players

Platform Players:

- GitLab

- GitHub (Microsoft)

- Atlassian

- CloudBees (Electric Cloud, CodeShip)

- jFrog (Shippable)

- Digital.ai (XebiaLabs)

- IBM/HCL (UrbanCode)

- AWS (CodeDeploy)

- Azure (Azure DevOps)

Point product Players:

- Harness

- Codefresh

- Armory (Spinnaker)

- OpsMx (Spinnaker)

- WeaveWorks (ArgoCD)
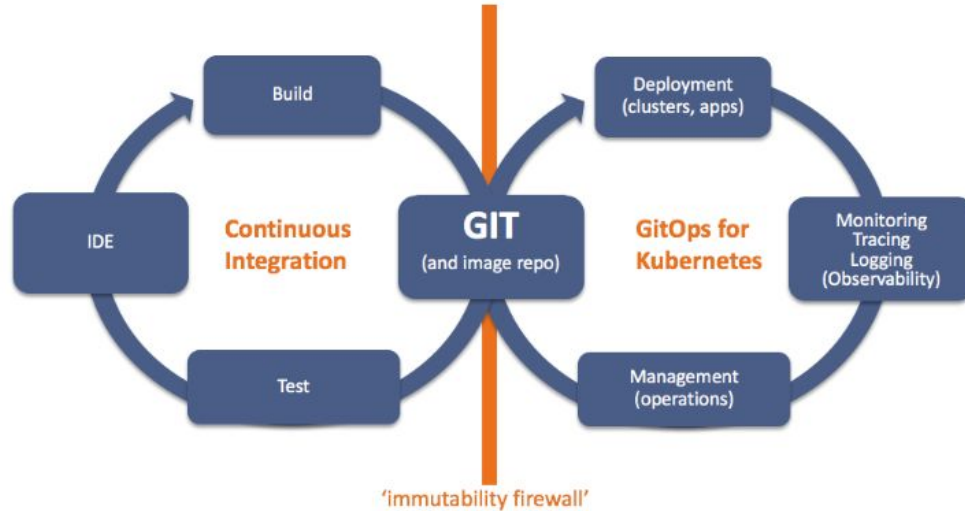
- Hashicorp (Nomad)

What Next – GitOps?

GitOps in 1 slide

System development/management pattern:

- GIT as the **SINGLE** source of truth of a system
- GIT as the **SINGLE** place where we operate (create, change and destroy) **ALL** environments
- **ALL changes are observable/verifiable**

https://twitter.com/luisfaceira

What Next – GitOps?

Git as the single source of truth of a system's desired state

GitOps Diffs compare desired state with observed state (eg Kubediff, Terradiff, Canary..)

ALL intended operations are committed by pull request, for all environments

ALL diffs between GIT and observed state lead to (auto) convergence using tools like K8s

ALL changes are observable, verifiable and audited indisputably, with rollback & D/R

https://www.weave.works/blog/what-is-gitops-really

THANK YOU!

Meet me in the Network
Chat Lounge for questions

SKILup
DAYS