SKILUP SM DAYS

by: DevOps INSTITUTE

A Playbook To Continuous Delivery

Enterprise Trusted Continuous Delivery

Tiffany Jachja
Evangelist
Harness

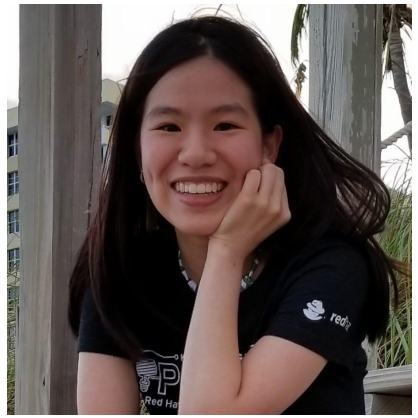
tiffanyjachja
tiffany.jachja@harness.io

Agenda

CI vs. CD?

The roadmap

Benefits



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Evangelist

@tiffanyjachja

Continuous Delivery Antipatterns

Antipattern: Deploying Software Manually

Antipattern: Long Release Cycles

Antipattern: Manual Environment Management

Continuous Integration != Continuous Delivery

Build & Test

Jenkins
Bamboo
circleci
Travis CI
TeamCity

Artifacts

JFrog ARTIFACTORY
nexus repository
docker
Amazon S3

Artifact

Continuous Integration

Overall Visibility, Dashboards, & Reporting

Cloud Stacks

Pivotal Application Service
aws
OPENSHIFT
Google Cloud

Infrastructure Provisioning

HashiCorp Terraform
AWS CloudFormation

Change Management

Jira
slack
now

Release Strategy

Basic
Rolling
Canary
Blue / Green

Verification

APPDYNAMICS
New Relic
DATADOG
splunk>
elastic

Rollback

Environment Variables & Pipeline Management

Vault
CYBERARK
Secrets, Auditing & Compliance

Continuous Delivery

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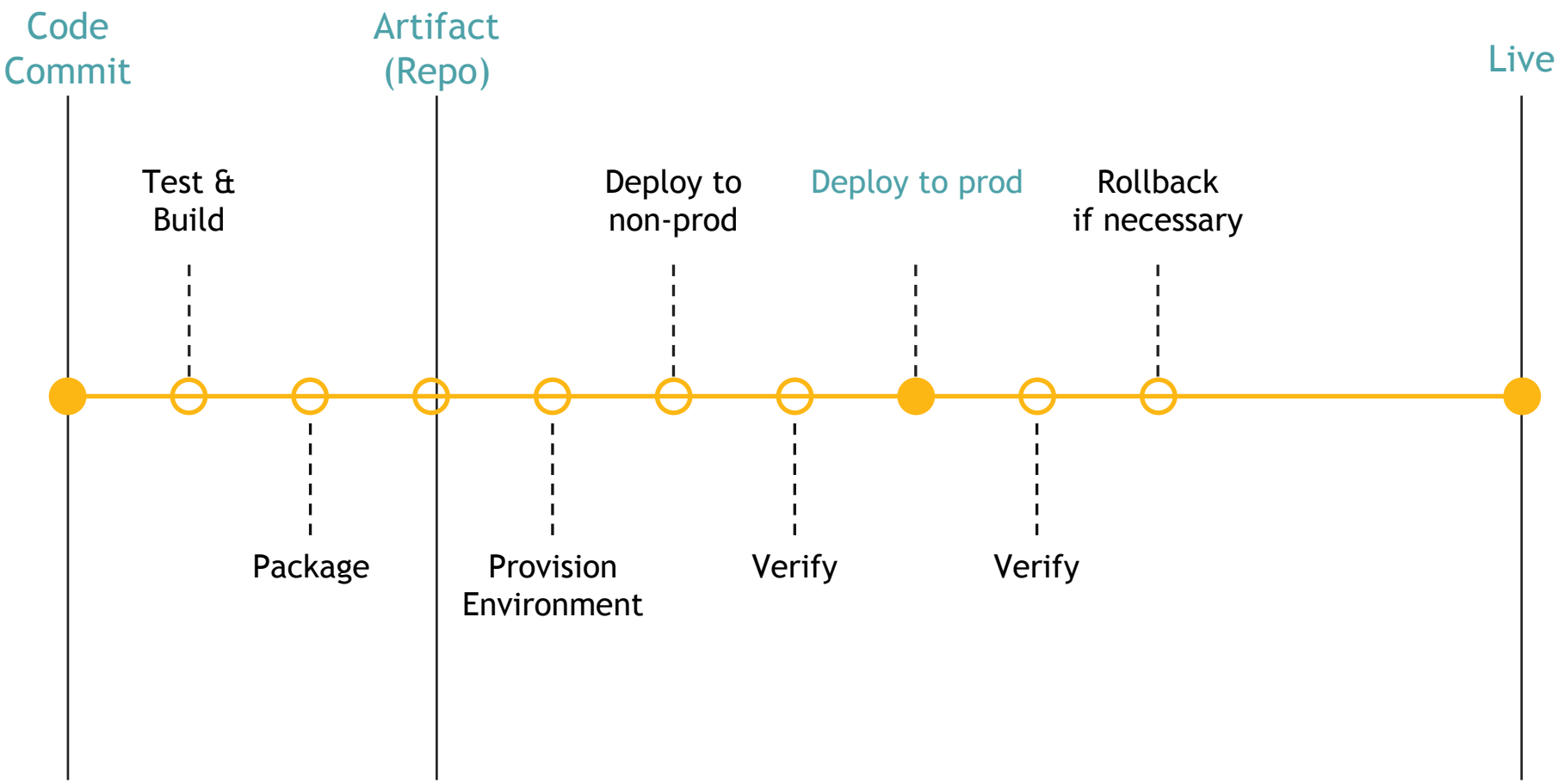
Pipelines



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The Effects of Fast Delivery

Empowered Teams

Reduced Errors

Lowered Stress

Continuous Value

Infrastructure Provisioning

- Environments
- Limiting Direct/Manual Changes
- Plan:
  - provision
  - deploy & configure
  - manage

Change Management

- Process
- Sign-off gates / Promotion
- Builds at the press of a button

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Verification

- Feedback is a shared responsibility
- What should you measure?
- Four areas of consideration:
  - instrumentation
  - data storage
  - data aggregation
  - event notification
  -

Release Strategies & Rollback

- Reduce fear & risk
- Keep an old version
- Redeploy a known stable version

Pipeline Management

- Idempotent
- Accessible
- Push button

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Audit & Compliance

- Who?
- What?
- When?

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How? Continuous Delivery Principles

Pipelines: releasing repeatedly & reliably

Automation: everywhere

Self-Service: everyone is responsible for delivery

Continuous improvement: build quality in

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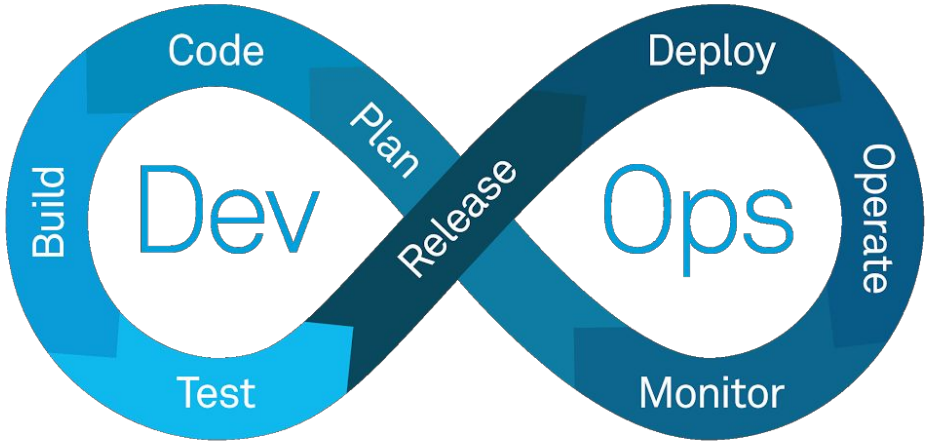
Code
Plan
Build
Dev
Release
Ops
Deploy
Operate
Test
Monitor

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THANK YOU!

Meet me in the Network Chat Lounge for questions