



DEVOPS THAT MATTERS

Demystifying CI/CD and Build Pipelines





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- Define DevOps
- Describe Components
- Your IT Value Stream
- Some Stories/Suggestions

WHAT IS DEVOPS ... DEVSECOPS?

The Phoenix Project

Gene Kim, Kevin Behr, George Spafford

"Every person involved in a failed IT project should be forced to read this book."

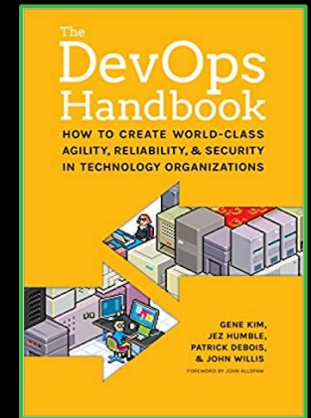
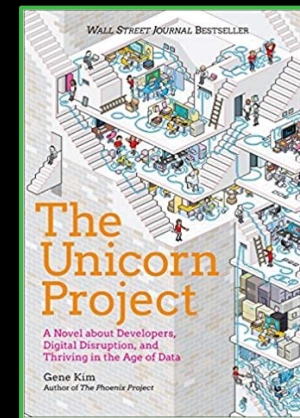
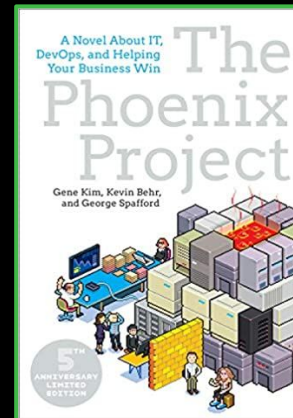
—TIM O'REILLY, Founder & CEO of O'Reilly Media

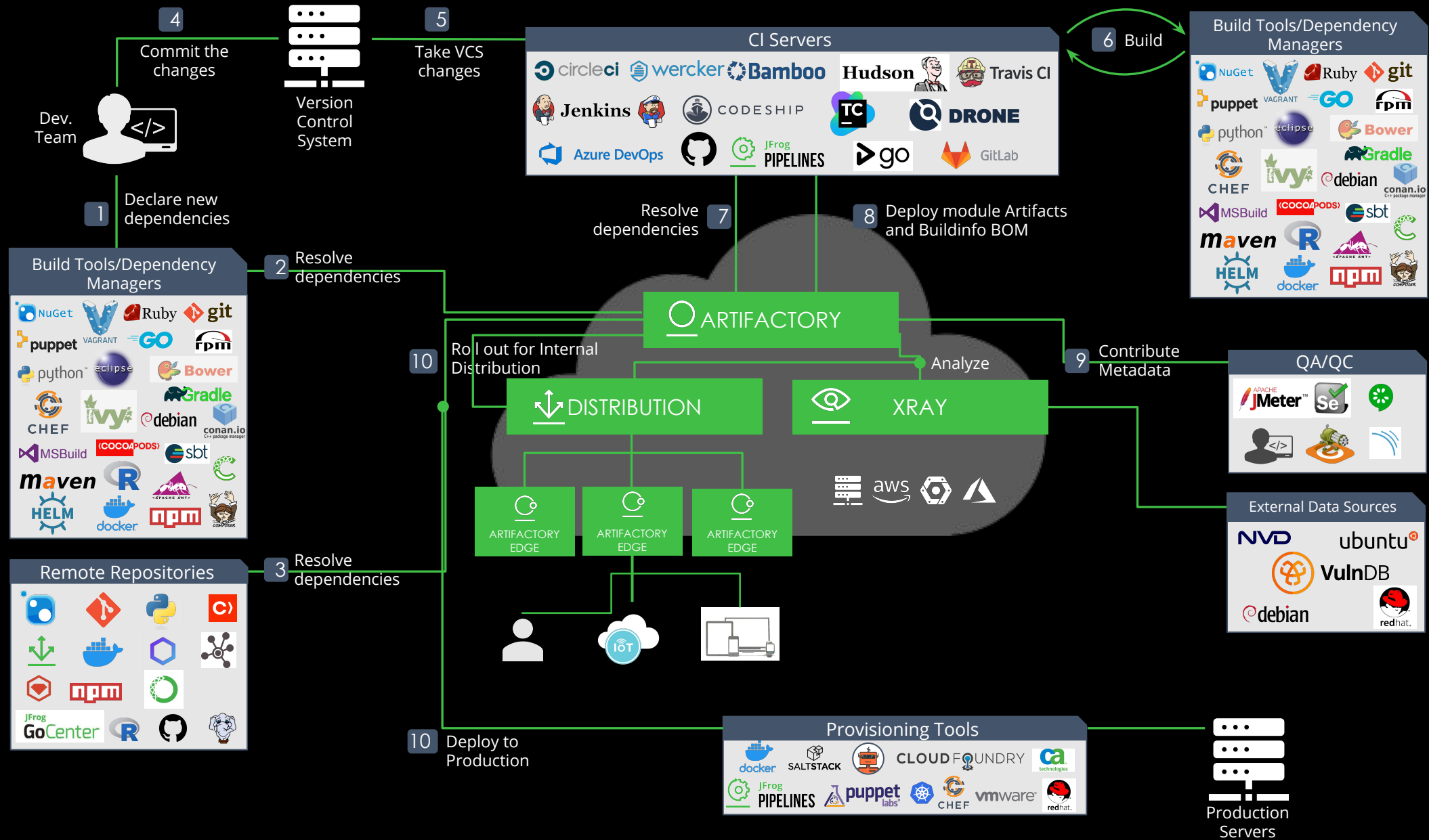
The Unicorn Project

Gene Kim

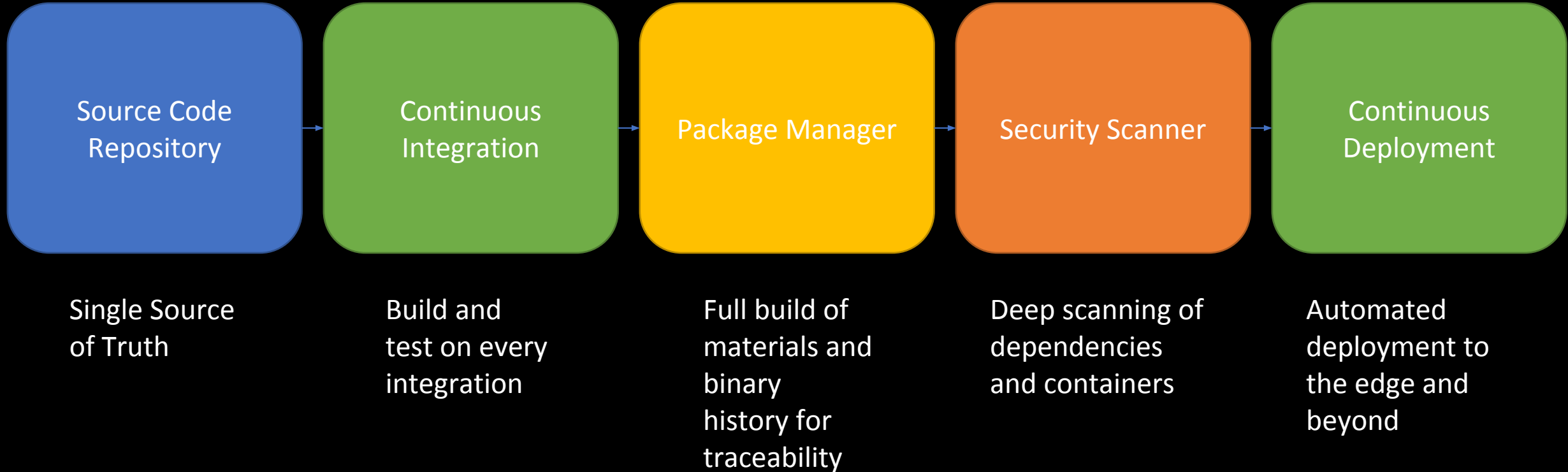
The DevOps Handbook

Gene Kim, Patrick Debois, John Willis,
Jez Humble, John Allspaw





DEV(SEC)OPS COMPONENTS



WHAT DO YOU REALLY CARE ABOUT?

- Fast?
- Efficient?
- Reliable?
- Economical?

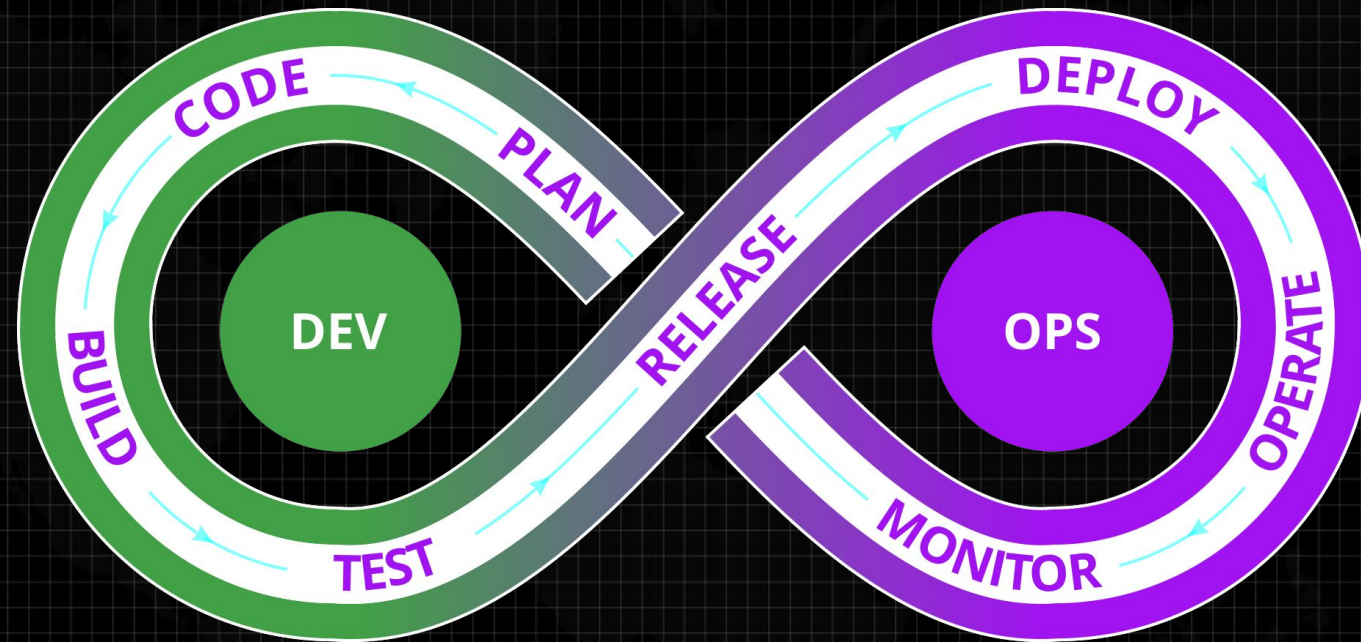


```
LOGGER.info("In function transformMedia");
```

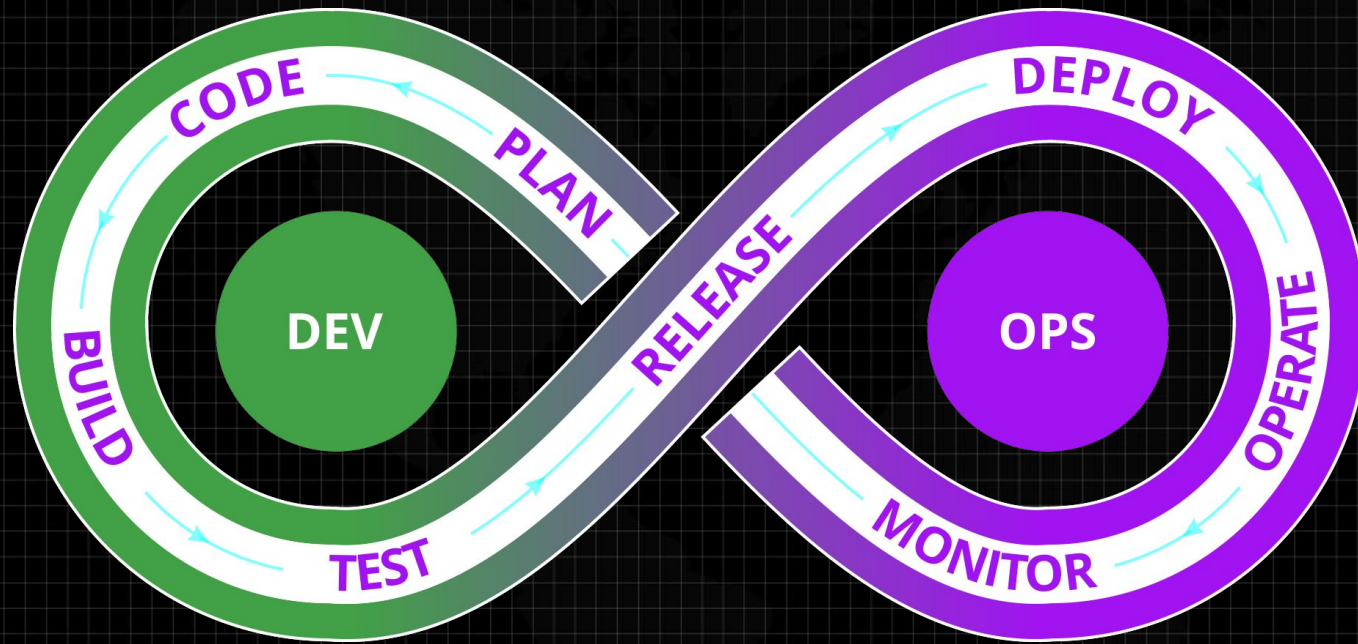

ELIMINATE SILOS!



YOUR IT VALUE STREAM

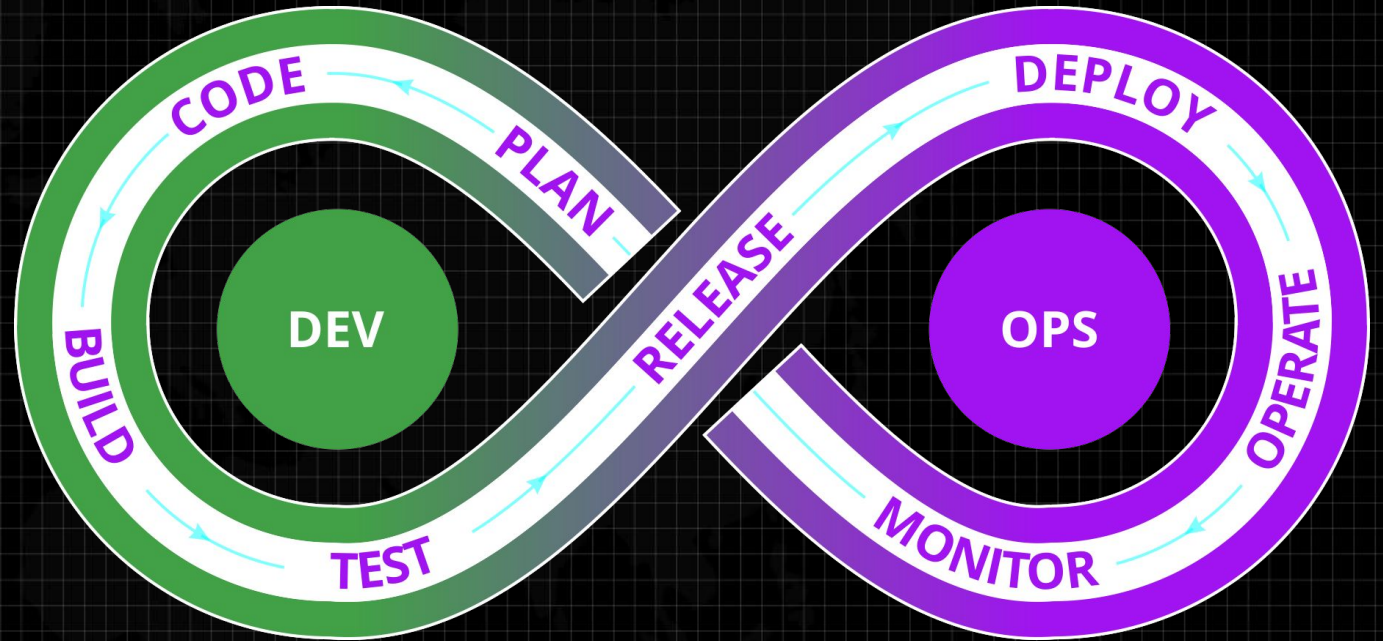


LET'S TALK PIPELINES



IMPROVE BY 1%

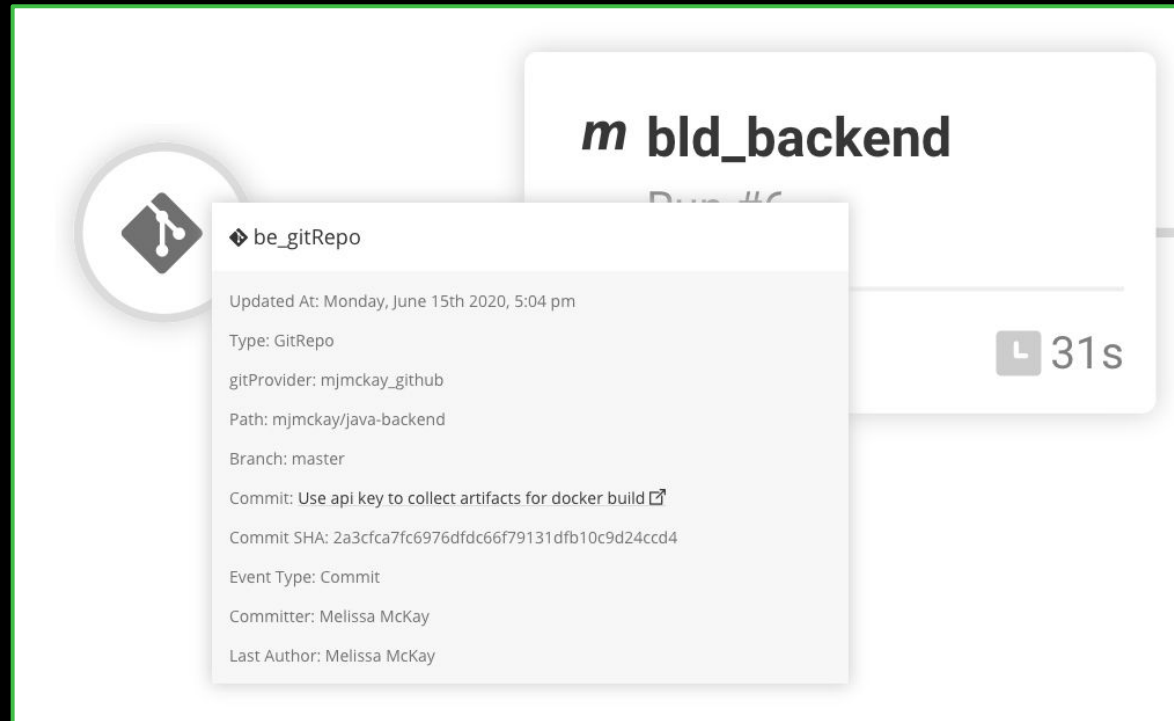
- Fast Enough?
- Efficient Enough?
- Reliable Enough?
- Economical Enough?



RECOGNIZE THE PROBLEM



CODE, TEST, CHECK-IN, REPEAT



m bld_backend

Updated At: Monday, June 15th 2020, 5:04 pm

Type: GitRepo

gitProvider: mjmckay_github

Path: mjmckay/java-backend

Branch: master

Commit: Use api key to collect artifacts for docker build

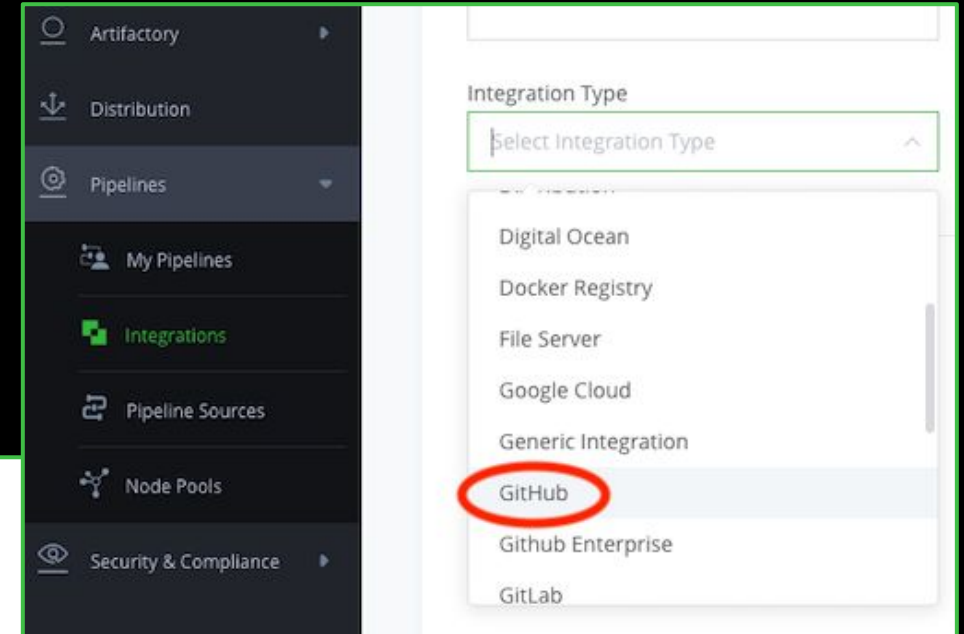
Commit SHA: 2a3cfca7fc6976dfdc66f79131dfb10c9d24ccd4

Event Type: Commit

Committer: Melissa McKay

Last Author: Melissa McKay

31s



Artifactory

Distribution

Pipelines

My Pipelines

Integrations

Pipeline Sources

Node Pools

Security & Compliance

Integration Type

Select Integration Type

Digital Ocean

Docker Registry

File Server

Google Cloud

Generic Integration

GitHub

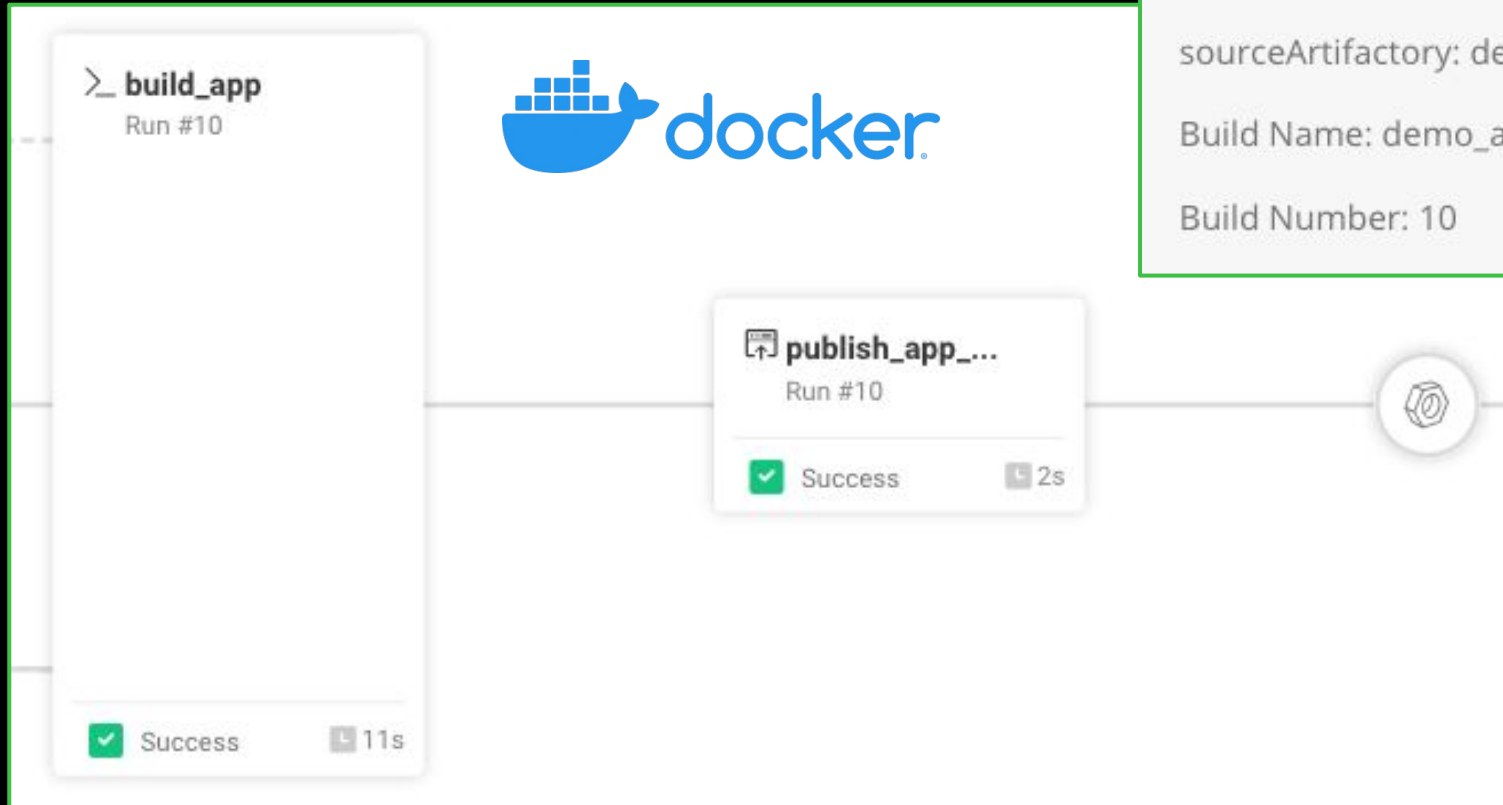
Github Enterprise

GitLab

resources:

- name: be_gitRepo
type: GitRepo
configuration:
path: mjmckay/java-backend
gitProvider: mjmckay_github
- name: fe_gitRepo
type: GitRepo
configuration:
path: mjmckay/vue-frontend
gitProvider: mjmckay_github

KNOW YOUR BUILD!



appl_build_info

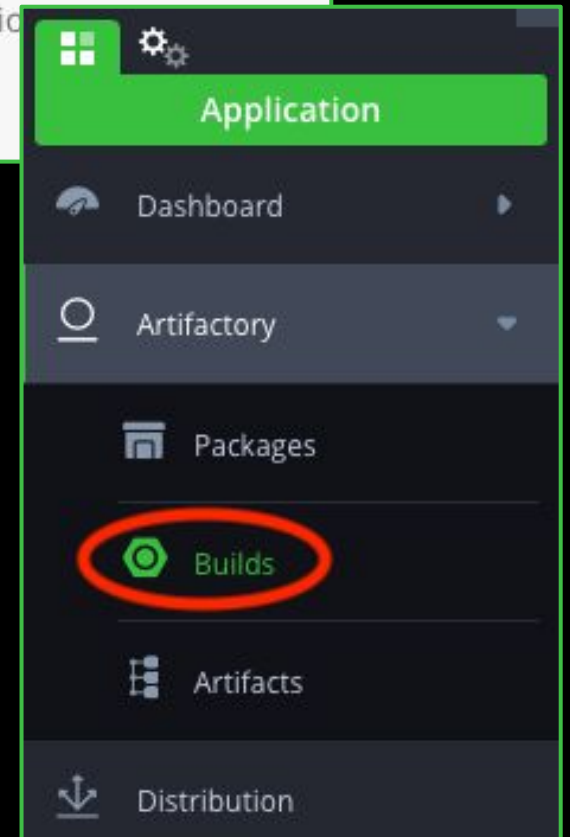
Updated At: Tuesday, June 16th 2020, 6:02 pm

Type: BuildInfo

sourceArtifactory: demoArt

Build Name: demo_application

Build Number: 10



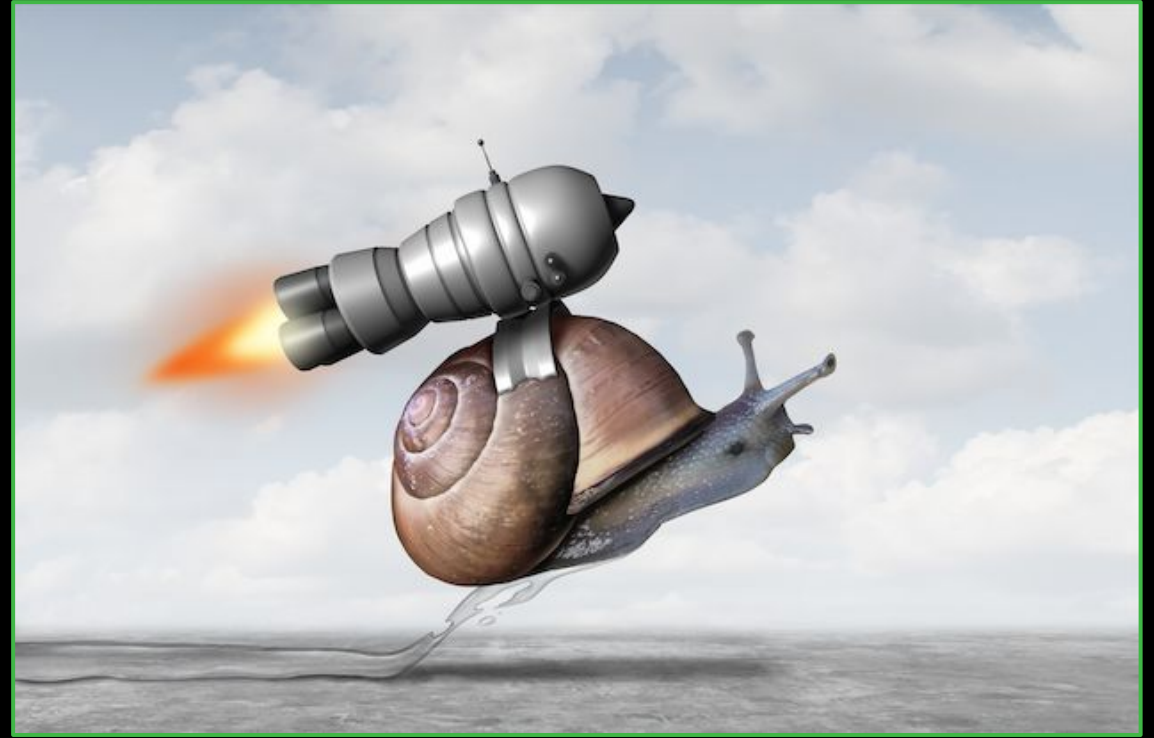
TEST, TEST, & TEST



www.testcontainers.or

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HOW DO YOU DEPLOY?





Q & A
THANK YOU!