DEVOPS THAT MATTERS

Demystifying CI/CD and Build Pipelines



Seattle DevOps Meetup







DEVELOPER ADVOCATE at JFROG



WHY SHOULD A DEV CARE ABOUT DEVOPS?

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



WHAT IS DEVOPS ... DEVSECOPS?

The Phoenix Project

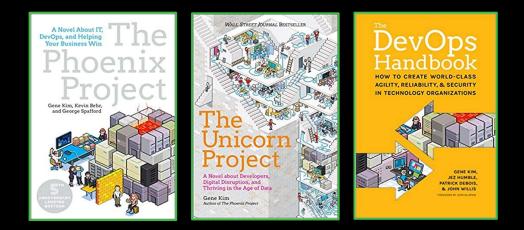
Gene Kim, Kevin Behr, George Spafford "Every person involved in a failed IT project should be forced to read this book." —TIM O'REILLY, Founder & CEO of O'Reilly Media

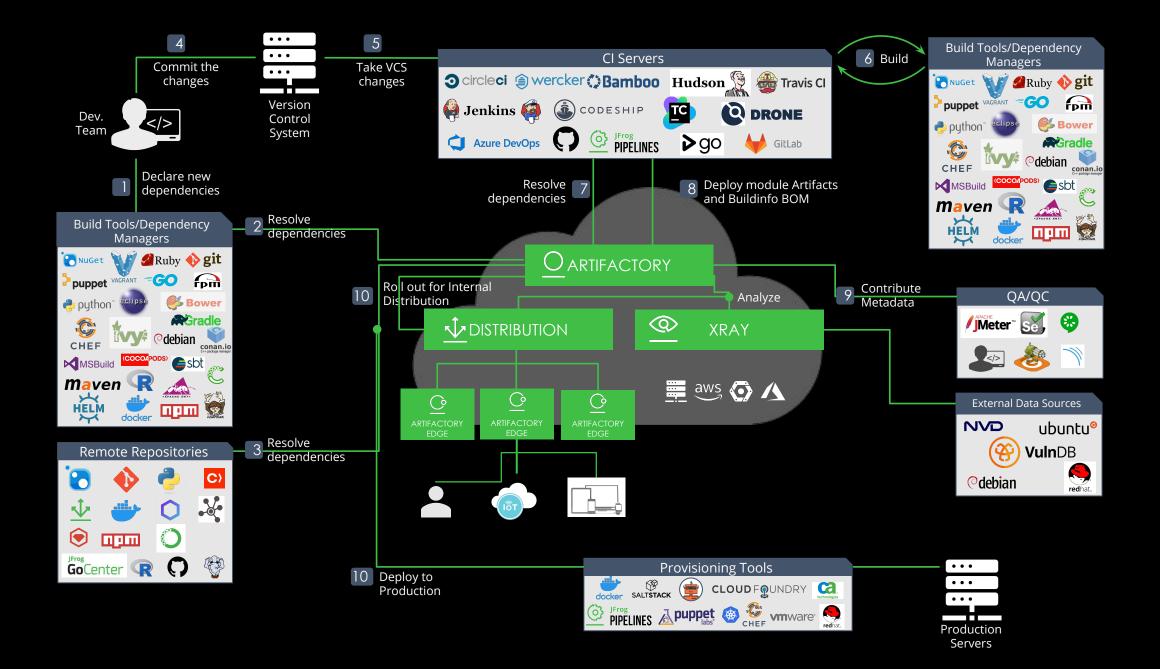
The Unicorn Project

Gene Kim

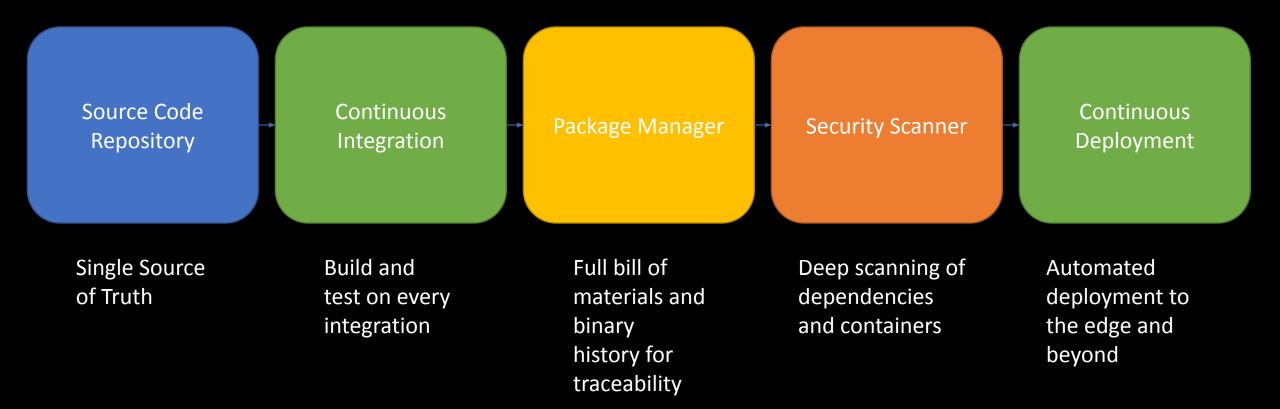
The DevOps Handbook

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





DEV(SEC)OPS COMPONENTS



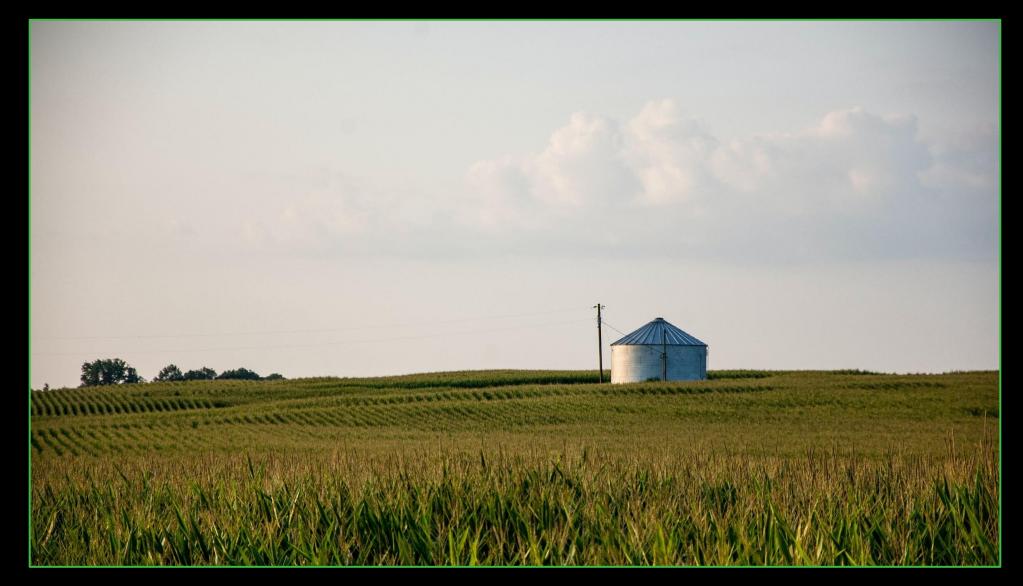
WHAT DO YOU REALLY CARE ABOUT?

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

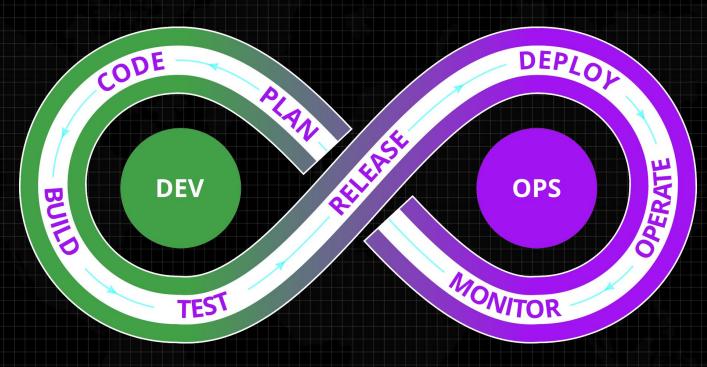


LOGGER.info("In function transformMedia");

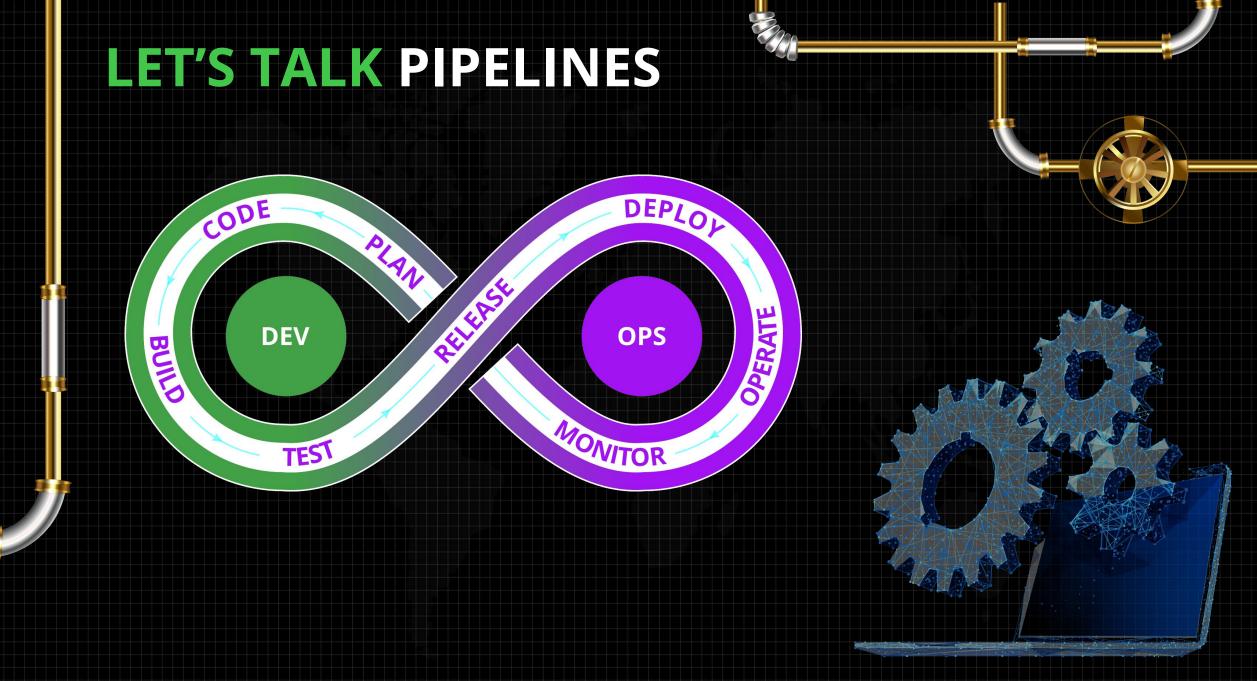
ELIMINATE SILOS!



YOUR IT VALUE STREAM

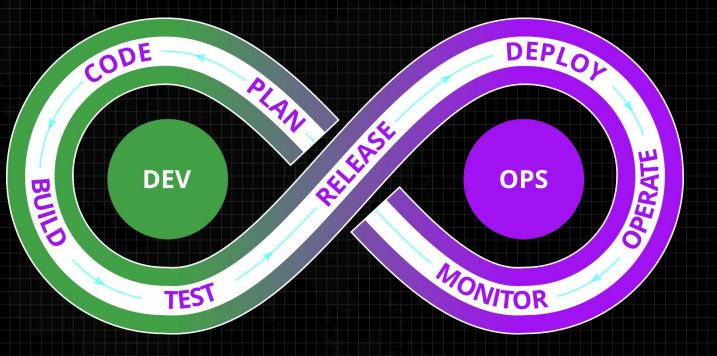






IMPROVE BY 1%

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





RECOGNIZE THE PROBLEM



CODE, TEST, CHECK-IN, REPEAT

<i>m</i> bld_backend
♦ be_gitRepo
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

Artifactory		
Distribution		Integration Type
		Select Integration T
Pipelines	-	en meeren.
My Pipelines		Digital Ocean
wy ripennes		Docker Registry
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Pipeline Sources		Google Cloud
		Generic Integratio
Y Node Pools		GitHub
Security & Compliance		Github Enterprise
		GitLab

resources:

- 31s

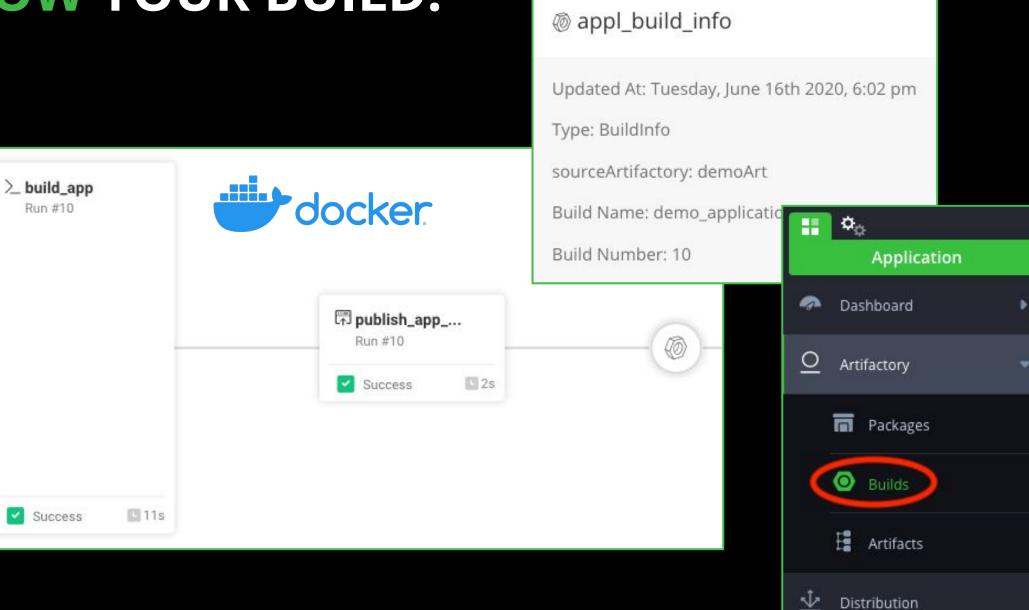
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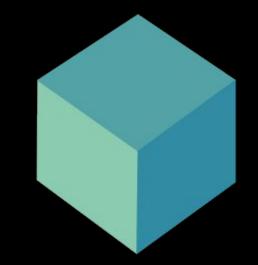
- name: be_gitRepo type: GitRepo configuration: path: mjmckay/java-backend gitProvider: mjmckay_github
- name: fe_gitRepo type: GitRepo configuration: path: mjmckay/vue-frontend gitProvider: mjmckay_github

KNOW YOUR BUILD!



TEST, TEST, & TEST





www.testcontainers.or 9

HOW DO YOU DEPLOY?



SUMMARY

- Understand your project's business value and goals (eliminate silos).
- 2. Document your flow/pipeline.
- 3. Prioritize and improve by 1%.
- 4. Make your work and your metrics for success visible.
- 5. Master your CI/CD (source control management, testing, artifact management, and deployment).
- 6. Automate where it makes sense.

Q&A THANK YOU!