### Go2Group Rasmus Praestholm Sr. DevOps Architect

Rasmus@go2group.com / cervator@gmail.com

https://twitter.com/Cervator

https://github.com/Cervator

https://terasology.org - Co-Founder, open source org





#### **Tools tools!**





















Grafeas















# WHARRGARBL

WHARRGARBL





## **Basic setup**

- Make your own repos
- Make your own pipelines
- Run some stuff!
- Make more stuff



#### Meta-setup!

- Fork Metafresh
- Make meta-pipeline
- Alter manifest repo
- See stuff get made

Tweak Git, get stuff





## Inspired by Jenkins X quickstarts

- What are quickstarts and why do they matter?
  - Build re-usable foundation apps for bootstrapping new projects faster
- jx create quickstart -> enter some variables
  - https://github.com/jenkins-x-quickstarts/spring-boot-http-gradle
- Jenkins X is powerful but complicated. Quickstart concept is easy



### GitHub repos & API

- Need to create repositories somehow via automation
- <a href="http://github-api.kohsuke.org">http://github-api.kohsuke.org</a> that name sounds familiar!
  - GitHub github = new GitHubBuilder().withOAuthToken(githubToken).build()
  - GHRepository repo = github.createRepository(name, "API created user repo", "", true)
- OAuth token can be fetched in a variety of ways
- Almost every bit of GitHub automated via sensible classes!



#### **Automated Git - GrGit**

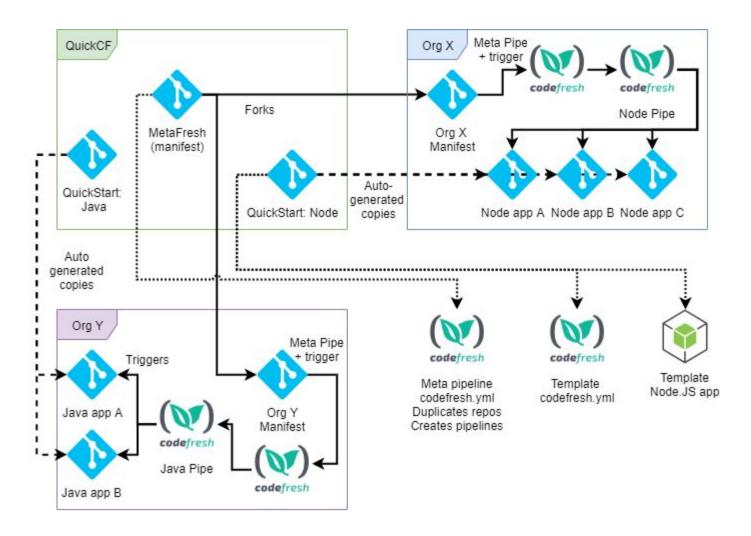
- Have repos, need to fill them with stuff!
- Have used GrGit extensively before, Groovy wrapper around JGit
  - http://ajoberstar.org/grgit/index.html
  - Also actual <u>GroovyWrapper</u>, to run Groovy
- Was able to simply reuse existing utility inside a pipeline
  - def myGitRepo = Grgit.open(dir: quickstartName)
  - myGitRepo.push(remote: quickstartRemote)

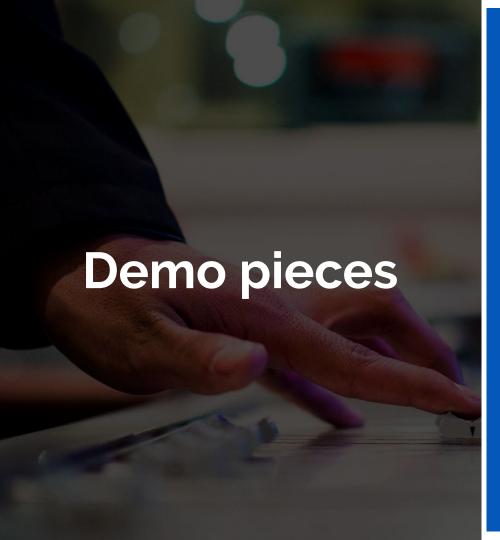
# manifest.yml cf-quickstart-gradle-spring: - sampleapp1 - sampleapp2 cf-quickstart-go-web: - sampleapp3 - sampleapp4 - sampleapp5



## **Codefresh pipes & API**

- <a href="https://codefresh.io">https://codefresh.io</a> easy! Nice UI, Docker, love that debug mode! :-)
- Want to read and act on a simple manifest to spin up repos and pipelines
- Can use its API to do magic! Token built in, just run commands
- export GRGIT\_USER=`./codefresh get contexts --type git.github \$1
   --decrypt -o json | ./jq-linux64 -r ".spec.data.auth.password"`
- ./groovyw preparerepos.groovy





- MetaFresh pipeline
  - o Breakpoint!
- https://github.com/go2group/metafresh
- https://github.com/go2group/cf-quickstart-go-web
- https://github.com/go2group/cf-quickstart-gradle-spring
- https://github.com/go2group/sampleapp1

# Call to action What next?

What do people want? Would anybody use this or like to know more?

Easy: Add the rest of the CF sample apps as quickstarts

Moderate: Add more quickstarts? Update over time? Org specific quickstarts?

Subjective: More toggles and config in the manifest?

Customize the new sample app repo more as part of spinning it off?