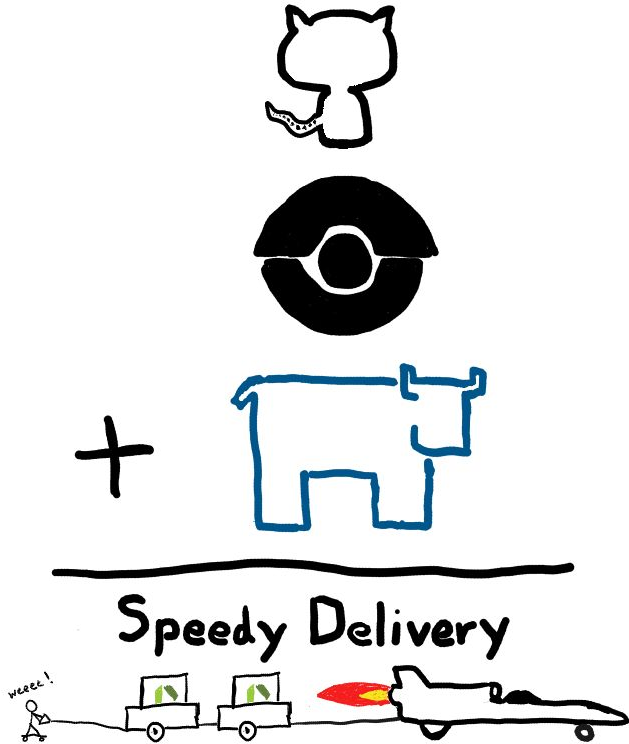


# Application Pipeline



Jason Greathouse  
Director DevOps Architecture\*

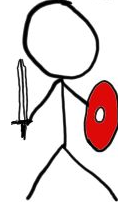
LeanKit

\*[HR Provided - Buzzword Bingo]

Most workdays



What I do on the weekends



<http://jgreat.me> @usrbinjgreat

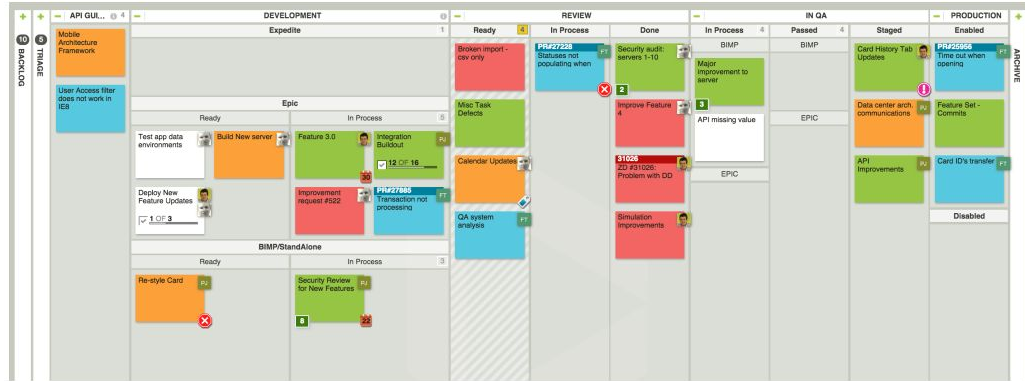
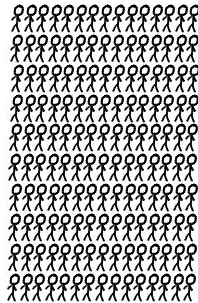
# About LeanKit

50,000+ Customers

Franklin, TN



we are here



 me? ↑  
We give you tools to visualize your work,  
optimize your flow and continuously improve.



<http://leankit.com>

# Tools and Services

Repositories:



GitHub



Docker Hub

Build:



Drone CI



buildgoggles



drone  
docker  
(custom fork)



drone  
rancher  
catalog

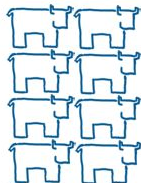


drone  
cowpoke

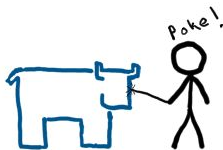
Run:



Rancher



Rancher-Catalog




Cowpoke


Poke!

# Application


Mixed  


.Net 

Node.js 


RabbitMQ 

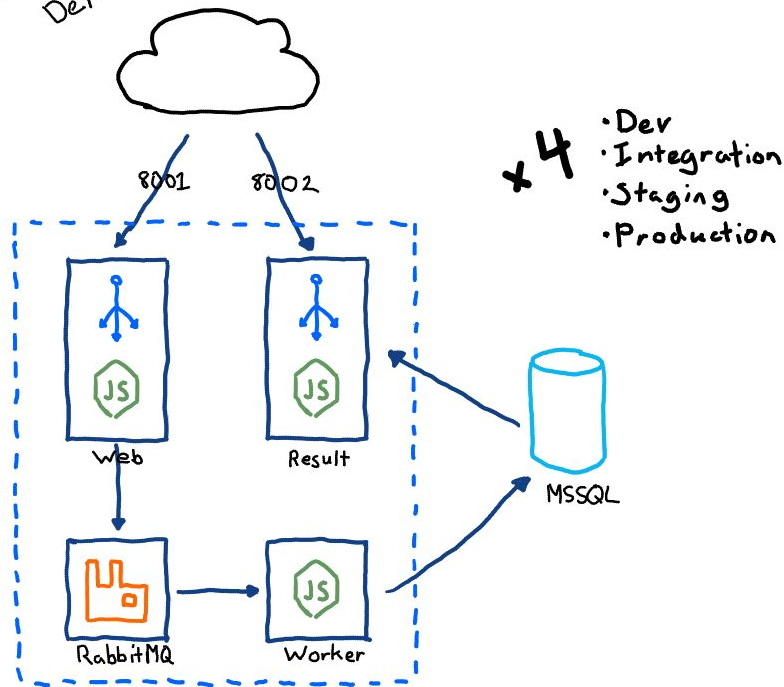
Redis 

MSSQL 

Sorry SQL  
I'm not drawing  
that DNA thing  


LeanKit  
~~DockerCon~~ Vote  
Demo

 I reworked the DockerCon Vote demo to use LeanKit's tech stack.  
Original credit to the team at Docker.



# Workflow



Create Branch



Push

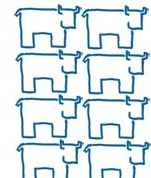


Drone CI

Build Test

Publish DockerHub

Drone Rancher Catalog



Rancher-Catalog

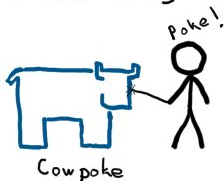
Build Catalog From Tags

Publish to Github

Drone Cowpoke



Notify Slack



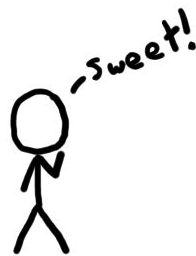
Cowpoke

Scan Rancher Environments for Stacks running the same Catalog Entry (git branch)

Upgrade Stacks

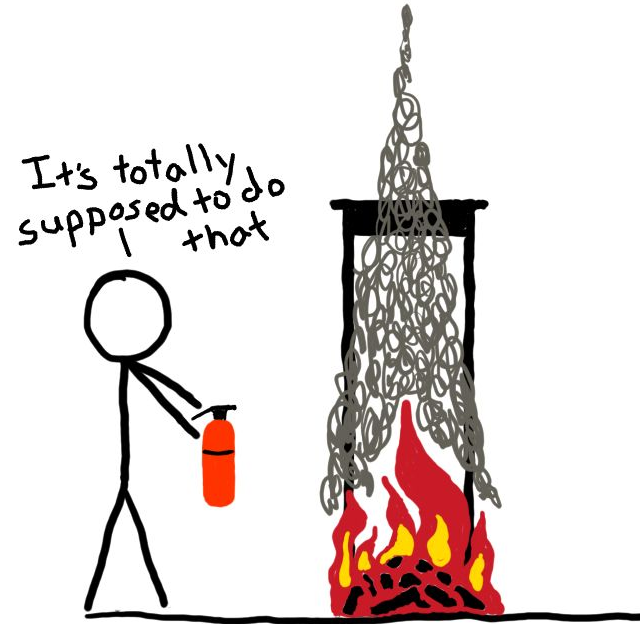


Rancher



-sweet!

# Demo Time



# Credits and Links

Docker Vote Demo: <https://github.com/docker/swarm-microservice-demo-v1>

LeanKit Teams:

Star-Lord - Architecture, Tools and Automation

Rocket - Web Development

Groot - Web Development

Deadpool - Operations

Special Thanks: Evan Snapp - LeanKit Intern - Cowpoke Developer

Presentation and Code: <http://jgreat.me/rancher-application-pipeline>

# Stretch Goal: Application Configuration

## Apps in Rancher:

Publishing Metadata: Rancher Apps via Labels

Publishing Metadata: External Services via Labels

Consuming Metadata: Entrypoint.sh

Consuming Metadata: <https://github.com/janeczku/rancher-template>

## Apps external to Rancher:

Publishing Metadata: API to External Services

Consuming Metadata: External-DNS <> PowerDNS <> AD DNS