



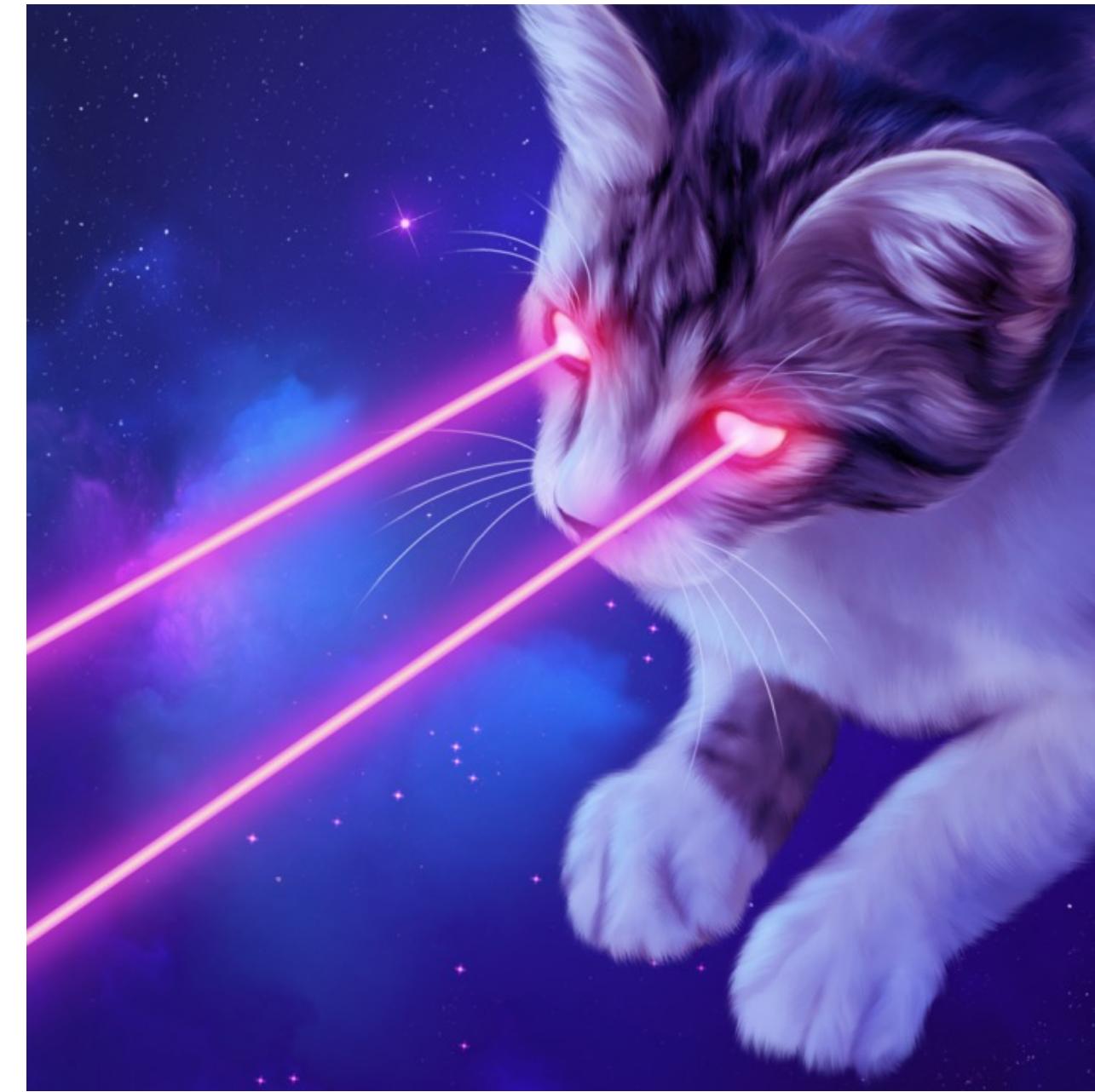
CI/CD for your Network

Plus cats!

Agenda



Intro
What is the Problem
Why is this Hard
Demo
Why CICD
What does this look like
What's Next/What Else?
Lab this Yourself



Intro

- Cat == Luca
- Recovering Router Jockey
- Accidental Python Enthusiast
- Automate to work less



What's the Problem?

- Manual deployments are not awesome.
- What validation?
- Consistency is hard!
- Collaboration and Transparency is lacking.



Why is this hard?

- Too much noise!
- Follow the money...
 - ISP, Hyperscale, Enterprise?!
- Vendor/Software disparity/confusion
 - NETCONF? REST? Python? C++?
 - Merge? Replace?
 - Atomic Commits?
- Layer 8
 - Silos
 - Politics
 - Perception





Anxiety Kitteh

has an anxious.

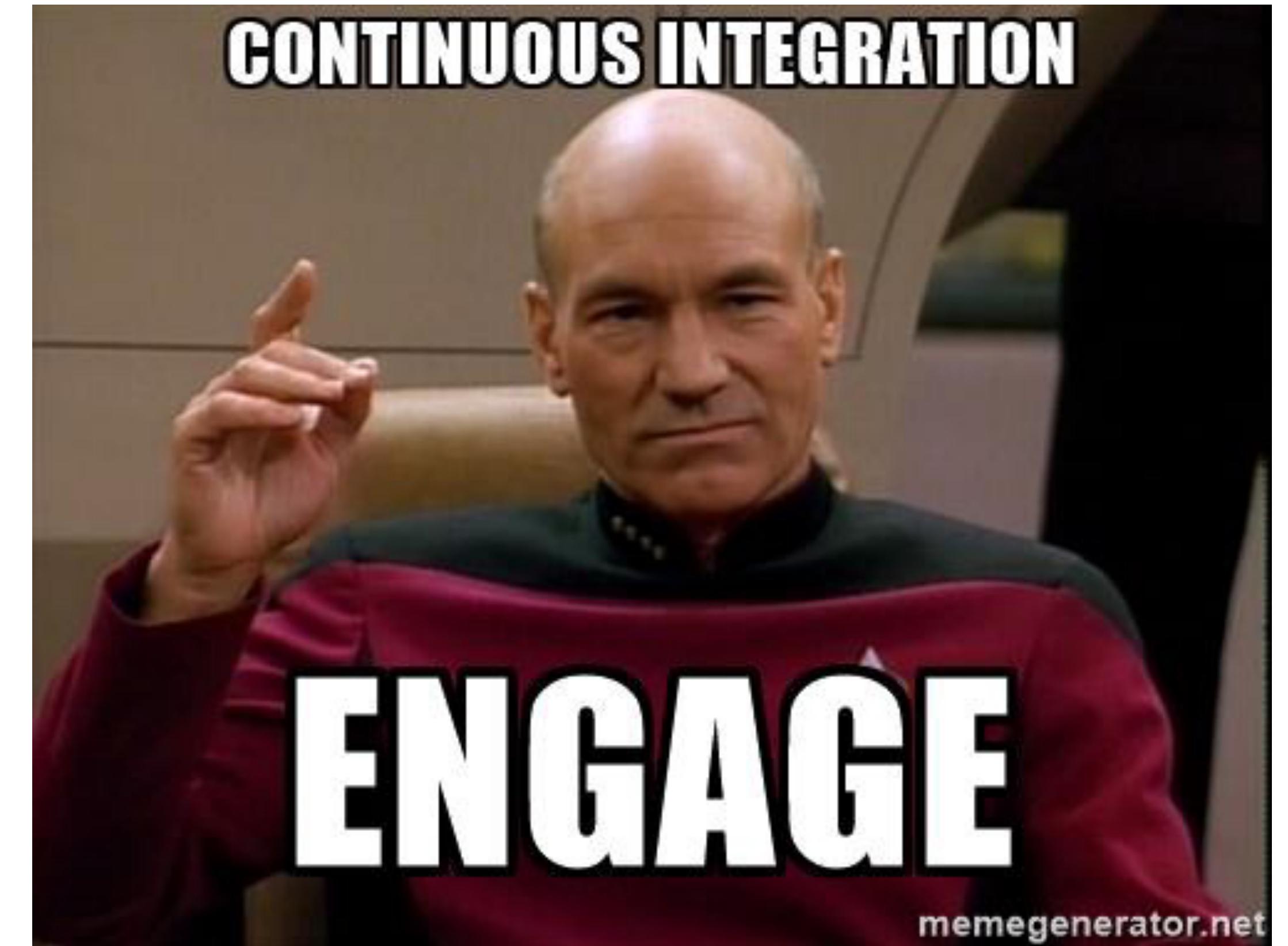
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Demo Time

I has an anxious.

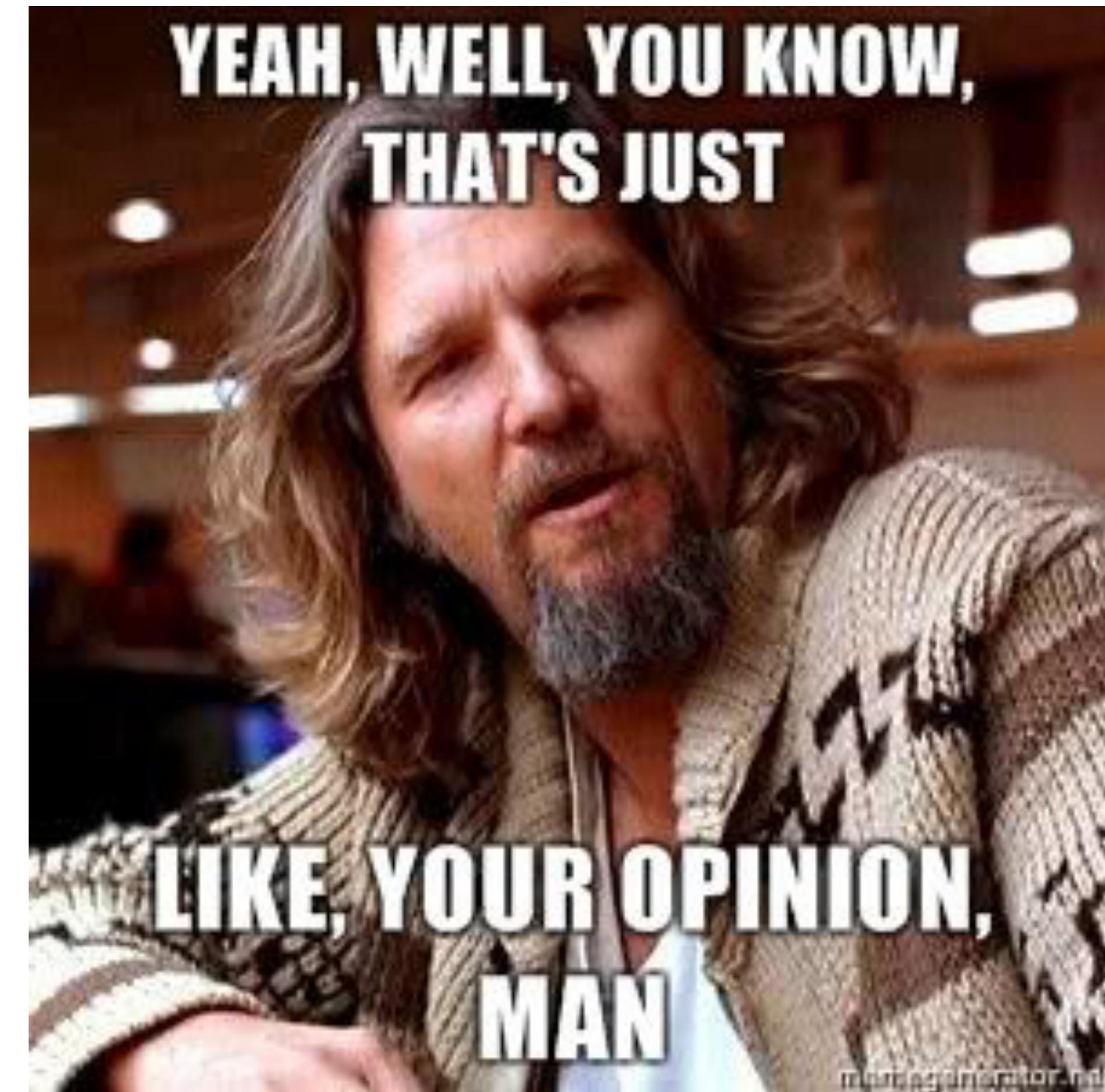
Why CICD?

- What is CICD?
- Reduce human interaction
- Documentation(ish)
- Shortened feedback loops
- Automated Rollbacks
- Transparency



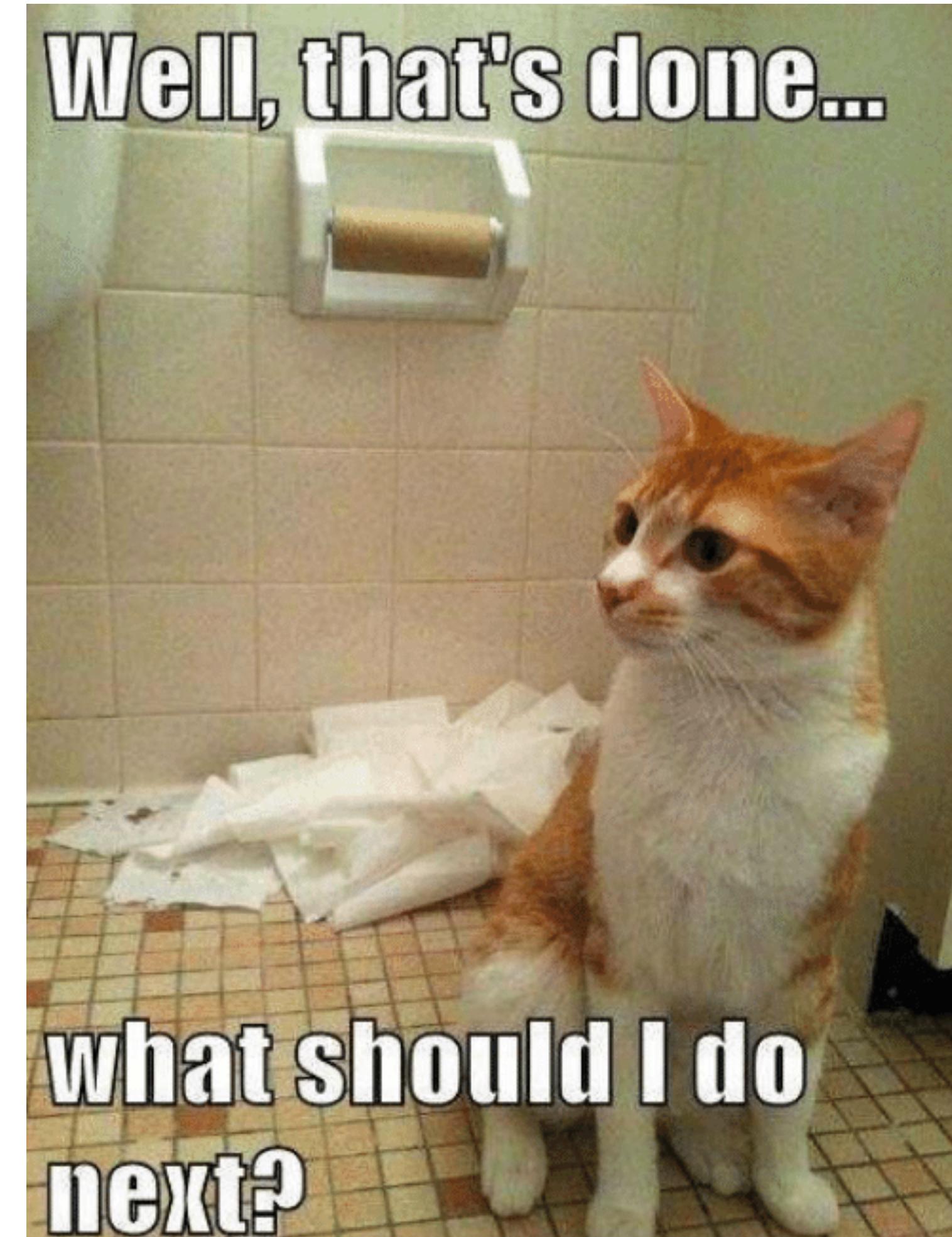
What does this look like?

- One guys opinion
- Github
- Jenkins
- Ansible
- Ansible-Napalm



What's Next/What Else?

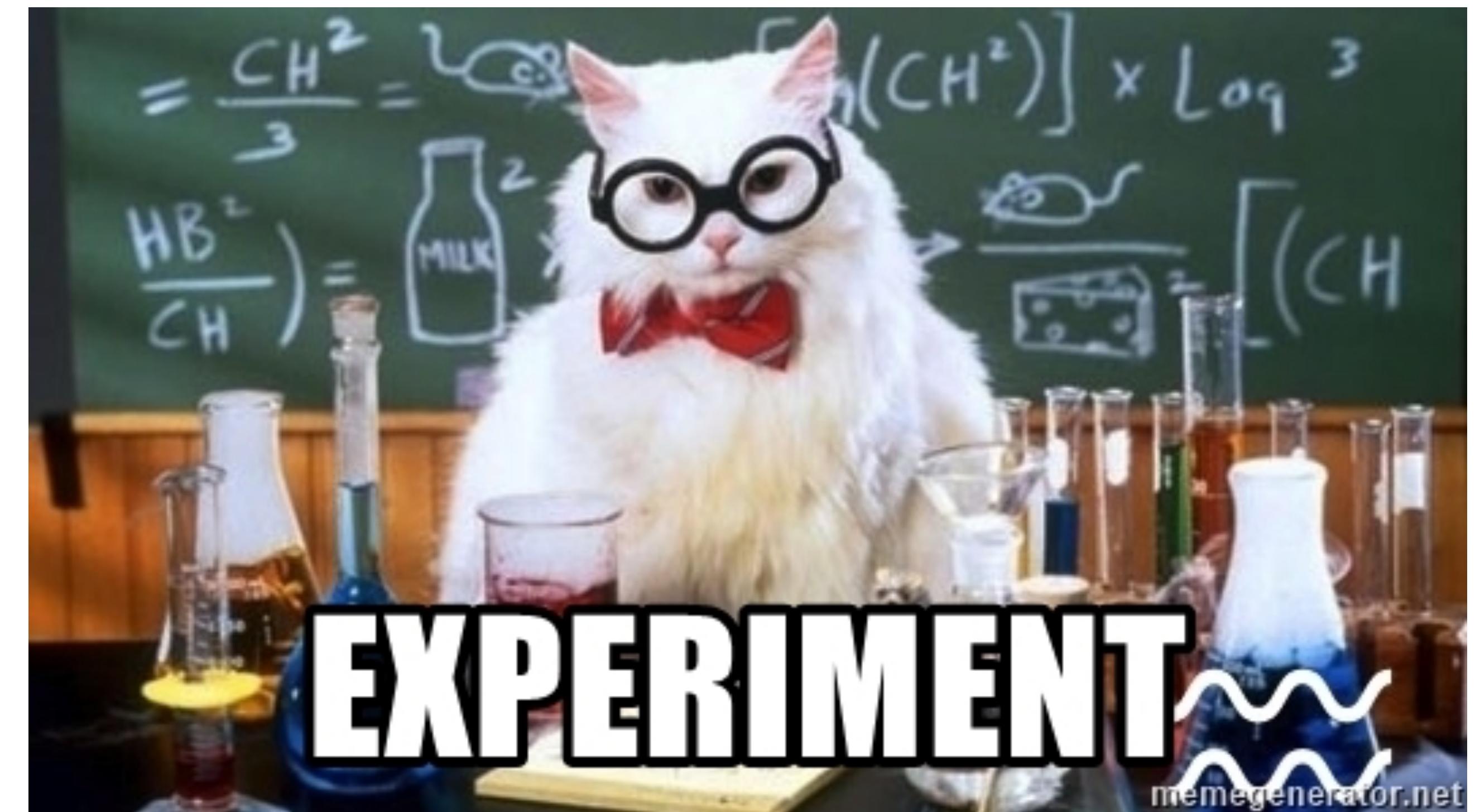
- External Integrations
- Declarative vs Imperative
 - +/- Config Drift
- Session State etc.
- Experiment!



A cat's work is never finished.

Lab this Yourself

- Install VirtualBox
- Install Vagrant
- Get Boxes
- Vagrant Up
- Fork the Repo
- Setup Jenkins
- Tweak stuff





QUESTIONS?

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