

### Pacing Security in Containerworld

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### WHAT ARE YOU GONNA DO?



# Pivotal

Well over 400 engineers building enterprise platforms









### **NOT ON THE "CONFERENCE CIRCUIT"**



# BACK TO THE RIVER/CONTAINER METAPHOR









### **HOW DO WE DEAL?**



### What doesn't work so well

- Invent enemies
- Freeze (do nothing, obsess, panic)
- Control-monger
- Blame



## More things that don't work

- Use existing security policy and process (P&P)
- Change P&P out of sync with apps and devops
- Get stuck in transition







# The "web" wins when it meets the enterprise.

EVERY TIME.



# What seems to work?



## Everyone is a tech company.

Do what big tech companies do.



# A word on culture.



# Strive for: Awareness, Focus, and Flexibility



# Start with small projects with exec blessing & clear outcomes.

Learn & build trust.



# Awareness, Focus, and Flexibility: In your org and your tech.



#### Awareness

- What are developers using and asking for?
- What's your inventory?
- What types of vulns have been most trouble?
- Who can do what to what?
- How are things configured?
- Platform vs. Dev
- Is the "undone" stuff visible?



#### Focus

- "Where the attention goes, the energy flows"
- Can you zero-in on a type of action in logs?
- Centralize auth
- Centralize pipelines and tooling
- Blocking and tackling
- METRICS METRICS



### Flexibilty

- Systems that welcome change
- Run towards the pain
- Rotate creds often
- Embed capabilities into the platform
- MOATs around legacy



### **Example AFF Metrics**

- Consider by app and by org
- Time to deploy patch (OS, middleware, app)
- Container lifetime
- Cluster lifetime
- Credential lifetime



# Vulnerabilitays





#### Make it RAIN!

- Recognize
- Allow / Acknowledge / Accept
- *I*nvestigate
- **N**eutralize



### RAIN Example (1)

- Amplificiation attack on auth system
  - Recognize Simple idea
  - Allow No judgment
  - Investigate Look around for other examples
  - Neutralize − logs, IP filtering, ©



### RAIN Example

- Credential leaks to a log file
  - Recognize How did we find out?
  - Allow Very easy do
  - Investigate Look around for other examples
  - Neutralize education, platform, scanning, rotate



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