# EATING THE ELEPHANT APPLICATION SECURITY WHEN YOU AREN'T A START-UP

# @ME

- Westpac New Zealand Security Assurance Manager
  - Find and fix all the (security) things
  - Risk stuff
  - Annoy the SecOps team
  - Secure Development Initiatives
- Background:
  - Penetration Testing
  - Software Development
  - Risk and Policy

## **OUTLINE**

- What is Good?
- The Reality
- Secure Development Menu
- Lessons Learnt

# WHAT IS GOOD?

The Current Dogma:

Application Security Engineers

DevSecOps



#### WHAT IS GOOD?

#### Application Security Engineers

#### Pros:

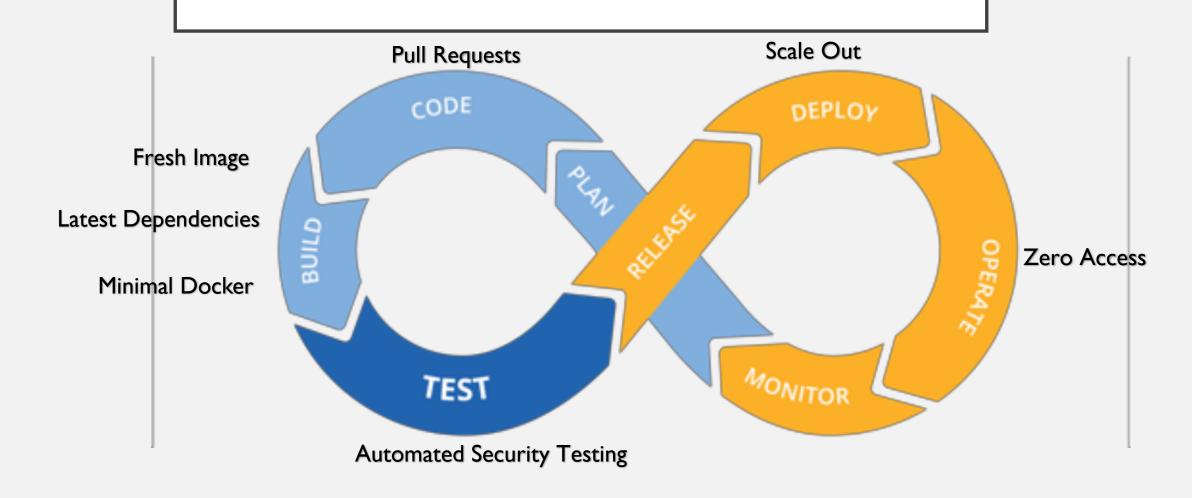
- A security teams snake in the grass
- Catch issues early
- Passively upskills the rest of the squad
- Very popular with large tech companies

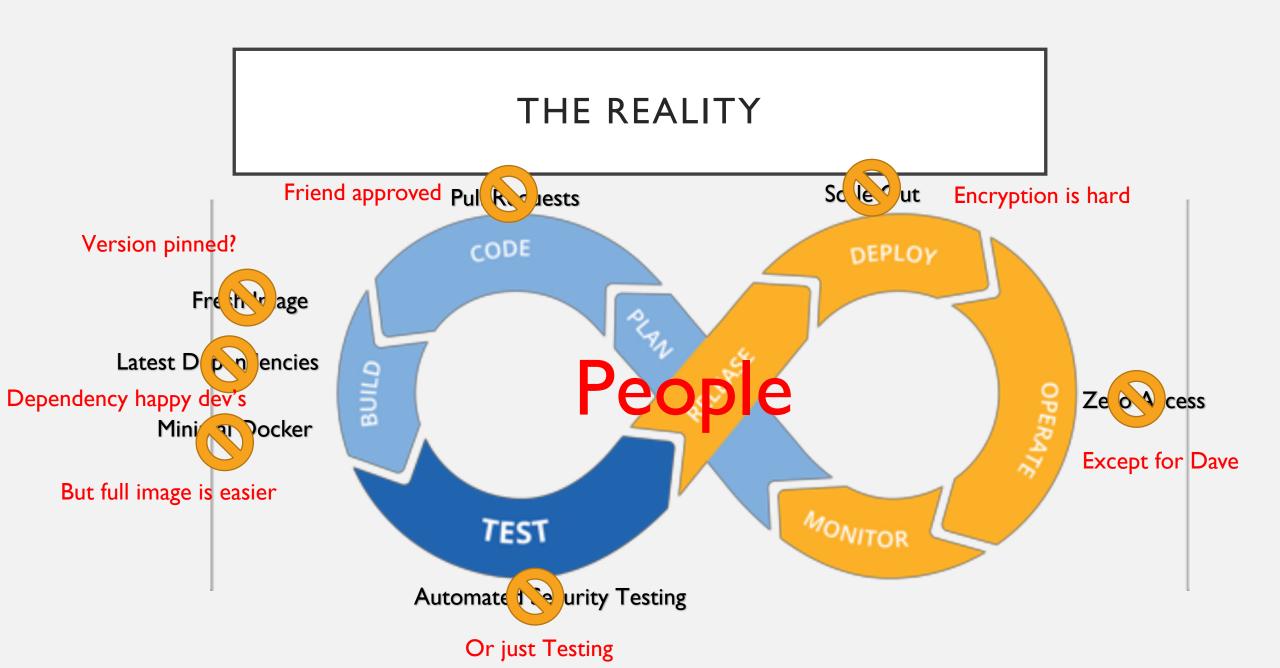
#### Cons:

- Don't exist or are gold plated
- Large tech companies practically have constantly open vacancies
- Seriously these people are unicorns (and probably all in this room)



## WHAT IS GOOD?





### START AT THE START

We can solve this with basic principles:

- Education and Awareness
- Visibility

If you can't have an App Sec Engineer

And you can't commit to DevSecOps...

#### SECURE DEVELOPMENT MENU

#### Education and Awareness:

- ☐ Introduction to Secure Development OWASP Top 10
- ☐ Secure Code Warrior
- □ Introduction to Penetration Testing OWASP Juice Shop
- ☐ Capture the Flag FBCTF
- ☐ Help with Remediating Findings

#### SECURE DEVELOPMENT MENU

#### Visibility:

- ☐ Attend Stand-Ups
- ☐ Threat Modelling Elevation of Privilege
- □Pull Requests
- ☐ Static Code Analysis HP Fortify, OWASP SonarQube (findsecbugs)
- Dependency Scanning JFrog X-Ray / OWASP dependency check (maven, node) / snyk
- ■Vulnerability Scanning Nessus
- □ Compliance Scanning Chef Automate; authenticated VMS

#### LESSONS LEARNT

- Iterate don't try it all at once
- Let squads pick and choose
- Build rapport Previous encounters with Security team may not have gone well
- Build trust Squads may be scared of you
- Track it

### **THANKS**

Special mention to O'Reilly Agile Application Security

