



SO... WHY DOES KEVIN CARE?

ENTER SECURITY, STAGE LEFT



- I'm Kevin (Schwantje)
- He/him
- Settler on stolen land
- Almost 10 years in cybersecurity (>3 years at WSBC)
- Sysadmin, systems engineering (in space), architecture, network security, red team, blue team, purple team, and now – **web application and cloud security**
- I care most about standardization, consistency, collaboration, communication, inclusiveness, respect, and the “human factor” of security (which may not be what you think!)



@604kev

THE PROBLEM

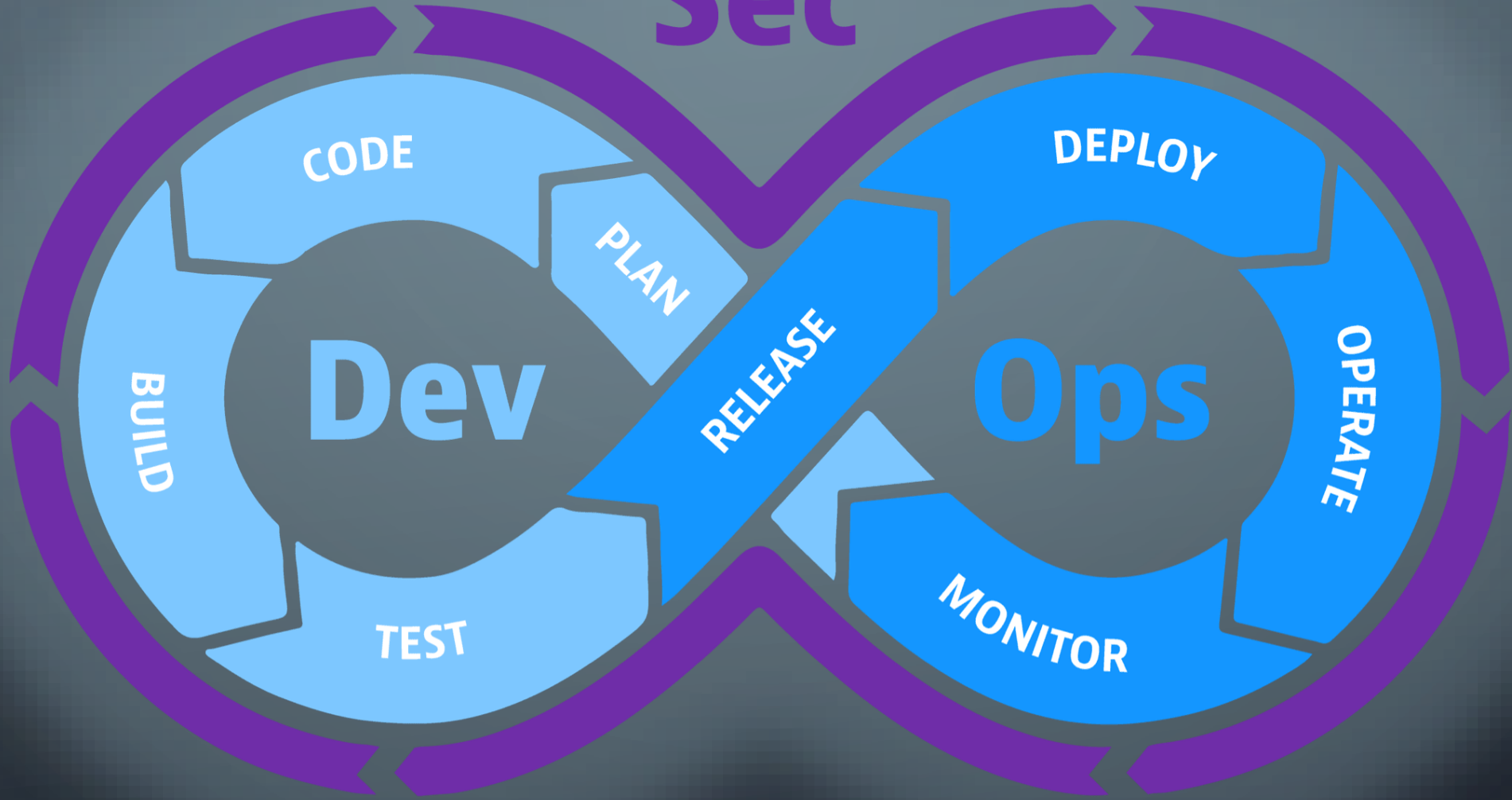
- 3000+ unique pipeline definitions means no standardization, consistency, etc.
- Vulnerabilities *everywhere* 😞
- Sketchy approval situation
- Stuck on old technology and implementations
- Lack of true awareness of risk!



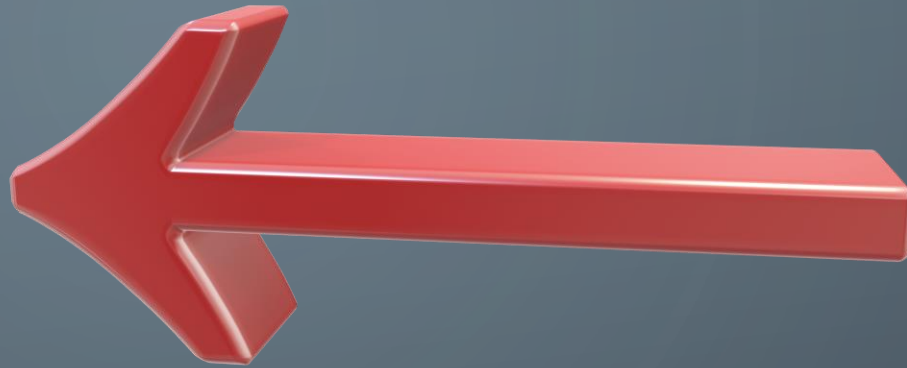
The background is a dark blue gradient. In the corners, there are decorative white lines resembling a circuit board or network diagram, with small circles at the end of the lines.

WHAT IS “DEVSECOPS”?

Sec

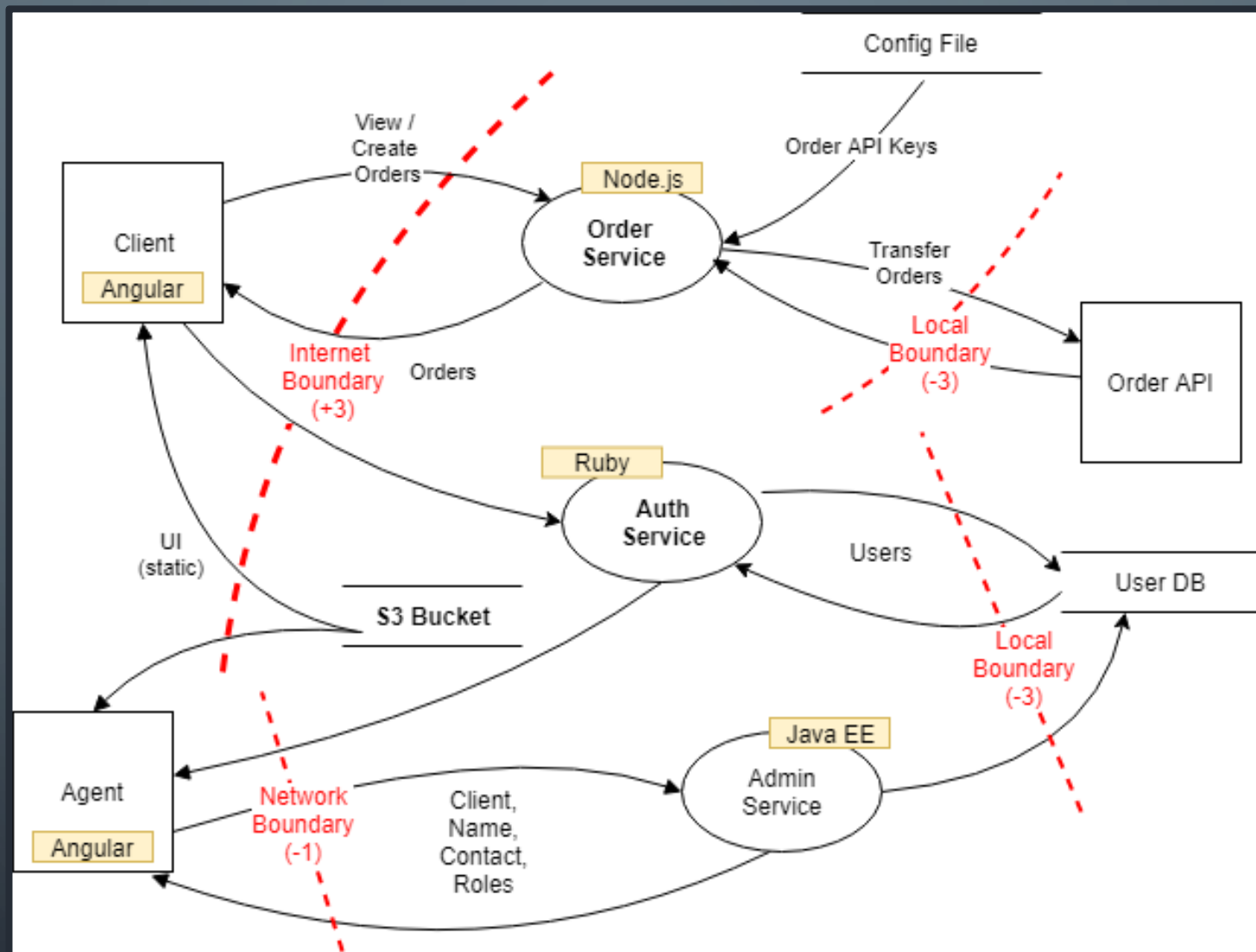


- “Shifting Left”



- Bake in security from day one
- Security is **everyone's** responsibility
 - Business, executive, developers – everyone
- Teach, train, educate, and share

- Automate! Automate! Automate!
 - Run tasks on machines, not people
 - Take human error out of the equation
- Continuous detection and response
 - No more “one and done” audit scans
- Threat Modelling
 - Collaborate with all parties and gain insight into potential risks
 - A critically important exercise to truly understand an application!
 - It looks something like this...



And, most importantly...

The definition of quality must include “secure”

PIPELINES ARE THE SOLUTION!

- Reusable standardized templates are more secure – no snowflakes!
- We can now implement proper guardrails!
 - Just a few ways of doing things – not 3000+
 - Centralized and vetted
 - Repeatable ad infinitum
 - Contain required steps and approvals!



- Automate everything that you can
 - Taking the human out of the equation is actually the human-friendly and human-centric thing to do
- Objective risk assessment and understanding is now possible
 - We can guarantee standard scans and tests will be run every single time



THE FUTURE

- Self-Service – more automation!
 - Give power to the engineers (within limits)
- More (and better) security scans and steps
 - Let the tools speak for themselves, to all users (don't hide information)
- **Never** stop shifting left
 - Work with projects at their inception, implement the standards before anything else



THANK YOU!