



Connect

DevSecOps

What does it mean for me as a developer?

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Solution Architect



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Works for Red Hat
Role: Solution Architect

Self-professed technology geek, with a passion for cloud native application development

Hobbies: Playing guitar, tinkering in my workshop, helping my wife raise 2 boys

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#JoinTheDarkSide



How many of you develop
code?

How many of you do DevOps?

How many of you check for
security issues in your code?

TLDR

ALL SECTIONS

SEARCH

THE | DIPLOMAT

READ THE DIPLOMAT, KNOW THE ASIA-PACIFIC

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The almost unnoticed hack of MiMi points to a growing trend of software supply chain attacks, including by the Chinese government.

By John Speed Meyers
September 07, 2022



Leadership Cyber



IMAGE: PAWEŁ CZERWINSKI

Jonathan Greig | September 8, 2022

Google touts 'fuzzing' source tool after disclosing TinyGLTF bug

REUTERS

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FEBRUARY 15, 2021 / 2:50 AM / UPDATED 2 YEARS AGO

SolarWinds hack was 'largest and most sophisticated attack' ever: Microsoft president

By Reuters Staff

2 MIN READ

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North Korea's Lazarus hackers are exploiting Log4j flaw to hack US energy companies

Carly Page @carlypage_ / 3:54 PM GMT+2 • September 8, 2022

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The Record.

BY RECORDED FUTURE

☰

Jonathan Greig | August 11, 2022

DHS undersecretary: Log4j problem is not over, may take 'a decade or longer'

China Cybercrime Government Industry News Technology

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Concern around Log4j is far from over, according to the chairs of the Cyber Safety Review Board, which recently released a wide-ranging report on the bug's origins.

Undersecretary for policy at the U.S. Department of Homeland Security, Michael E. ... rd co-chair, spoke at the Black Hat conference on Thursday

Maybe we should take notice..

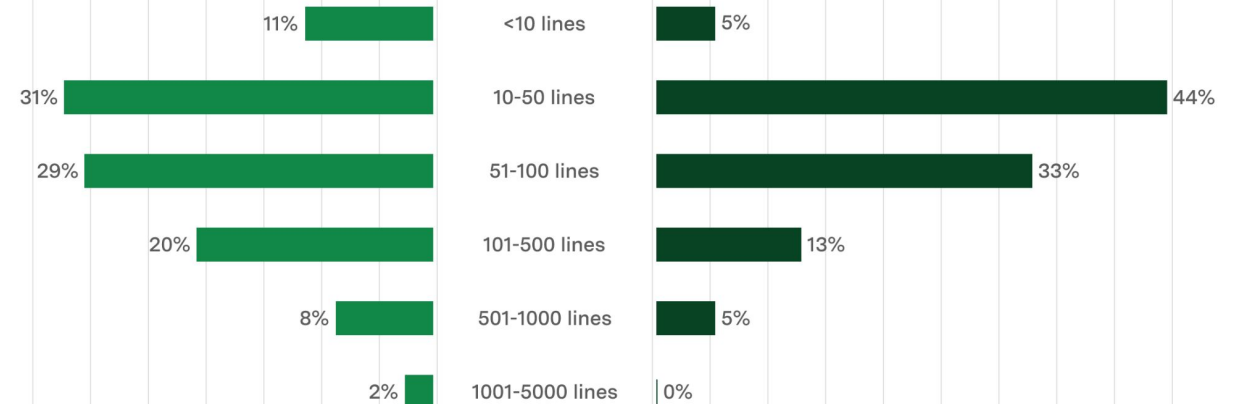
What do developers spend their time on?

How developers spend their time



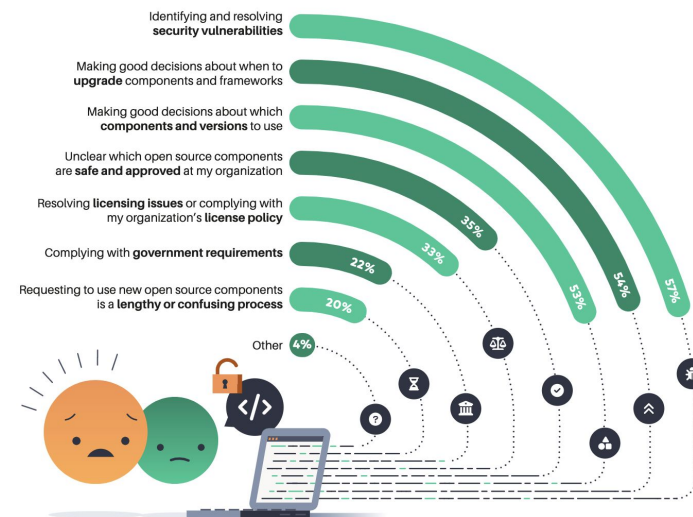
BASED ON 295 RESPONSES

Lines of committed code copied and pasted from other sources throughout the week



Development teams struggle most with identifying and resolving security vulnerabilities

Which of the following challenges does your team face when using open source for developing applications? (select all that apply)



n=691

THE 2022 OPEN SOURCE SOFTWARE SUPPLY CHAIN SURVEY REPORT

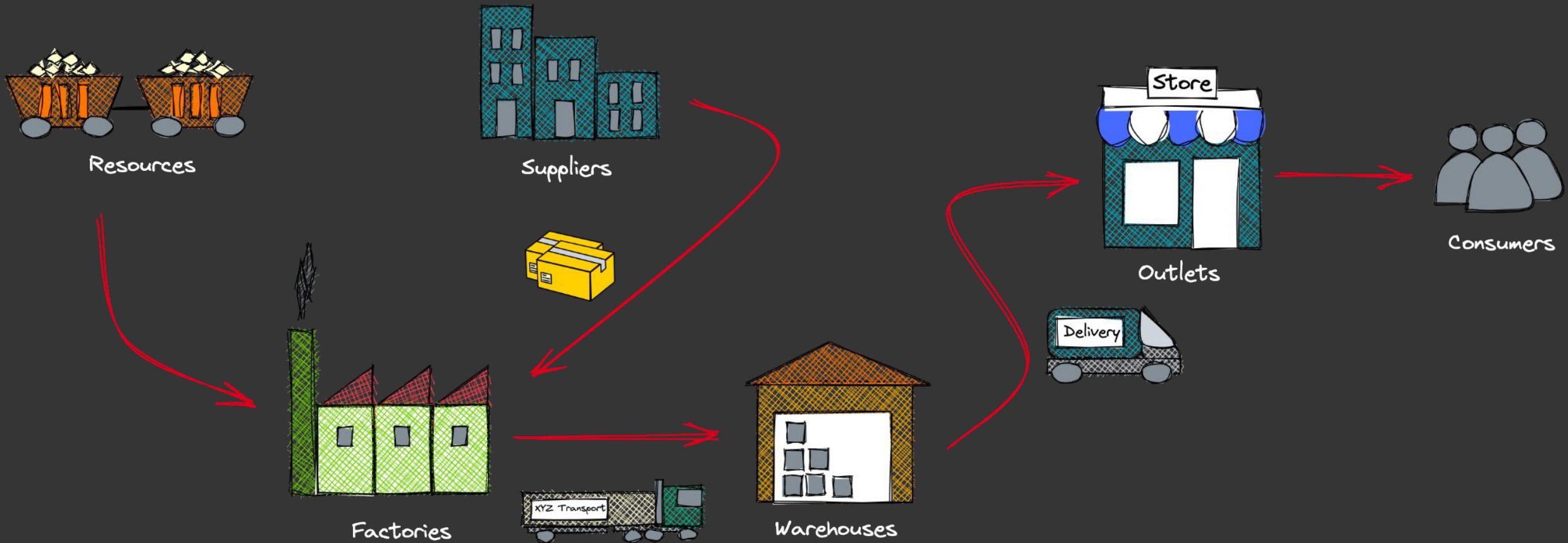
Individual contributors

Should we maybe think about things differently?

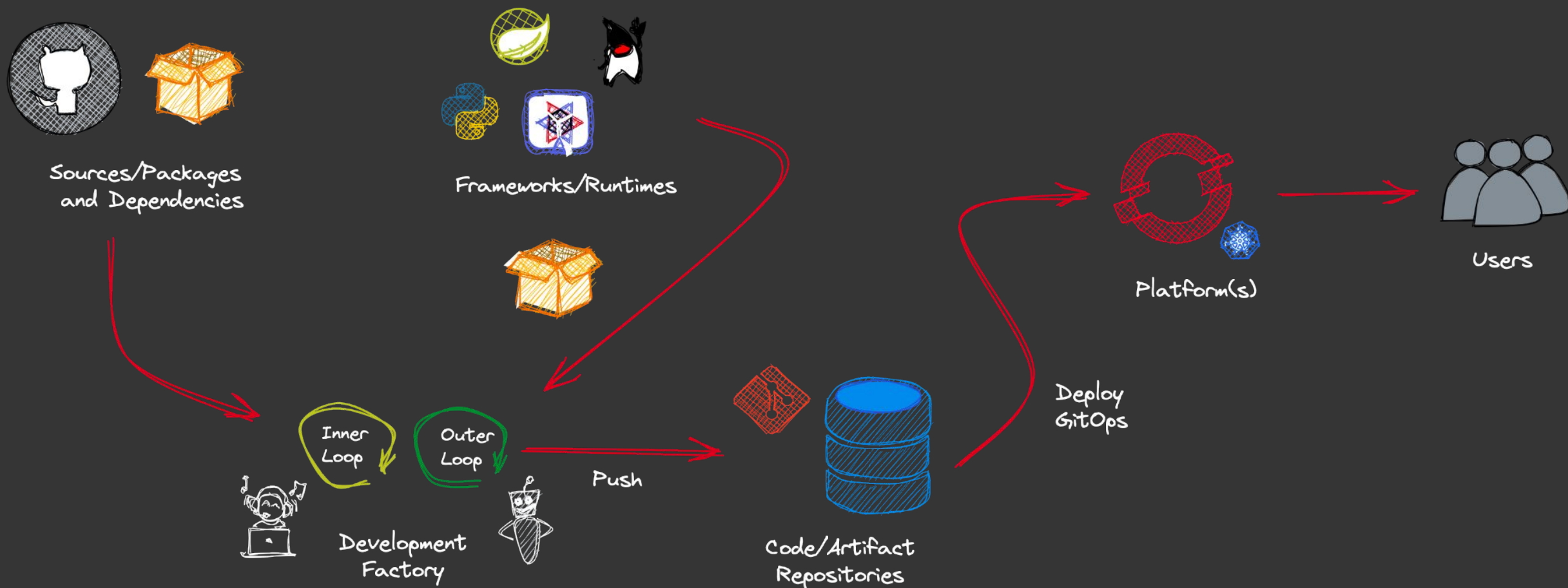
<https://tidelift.com/subscription/managed-open-source-survey>
<https://retool.com/reports/state-of-engineering-time-2022/>
<https://explore.tidelift.com/survey-results/2022-open-source-software-supply-chain-survey>

Why is security so important for
me as a developer?

A Product Supply Chain



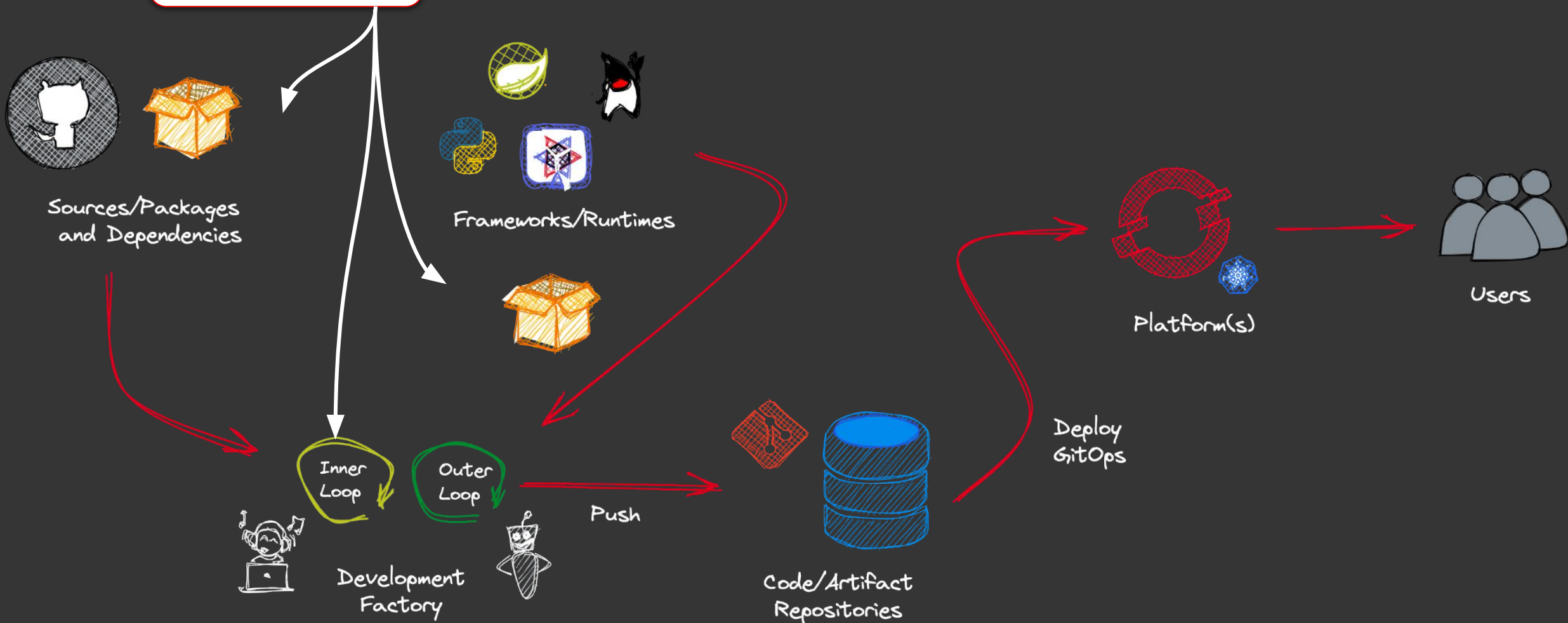
Software as a Product



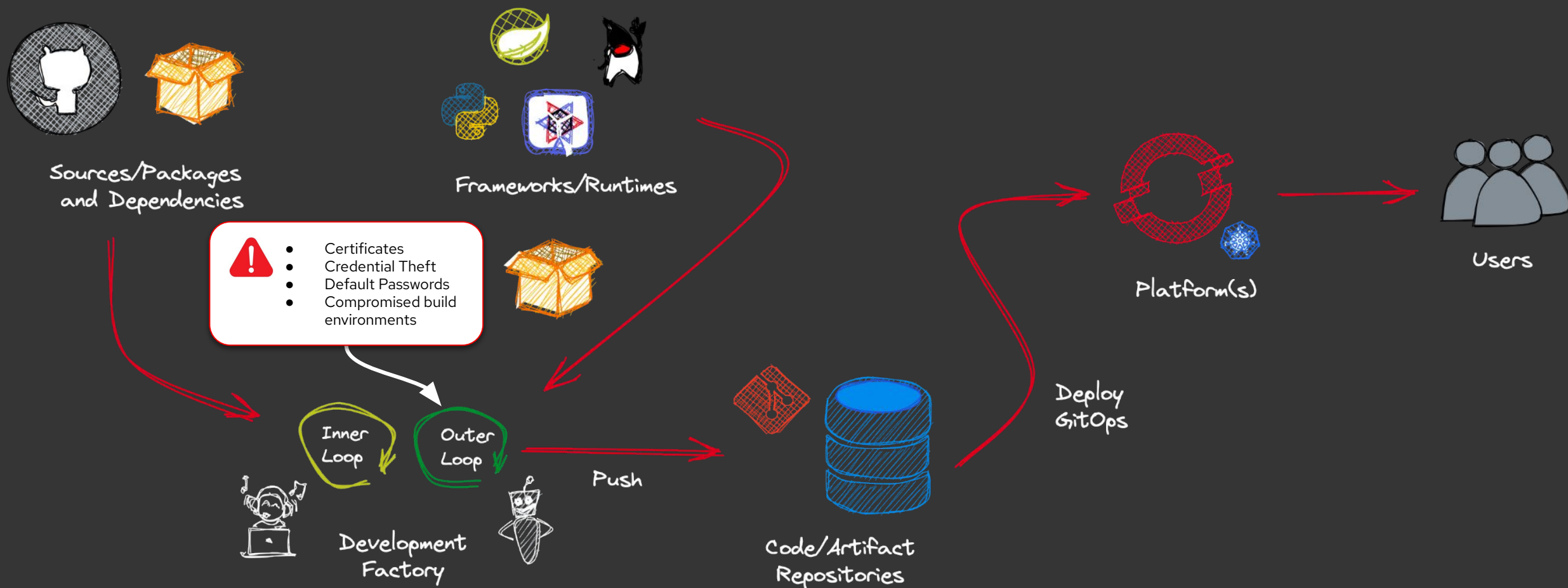


- Compromised Dependencies
- Malicious Code
- Vulnerable Code

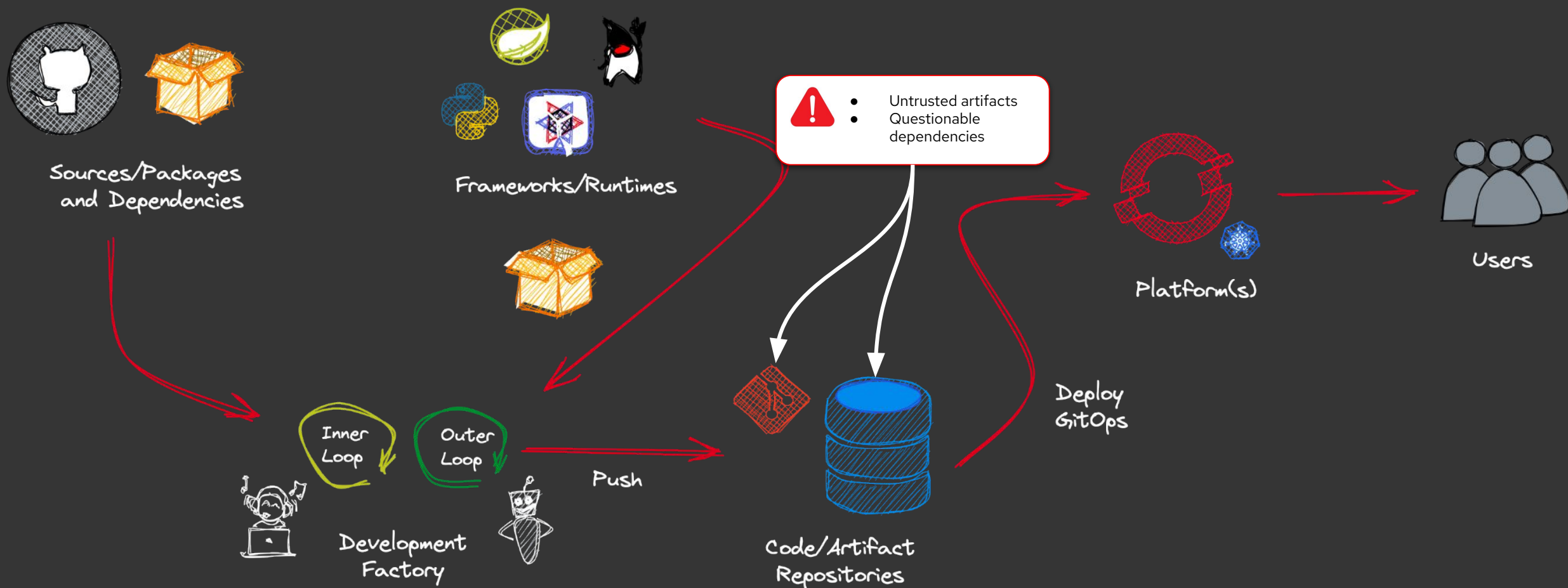
Points of Compromise



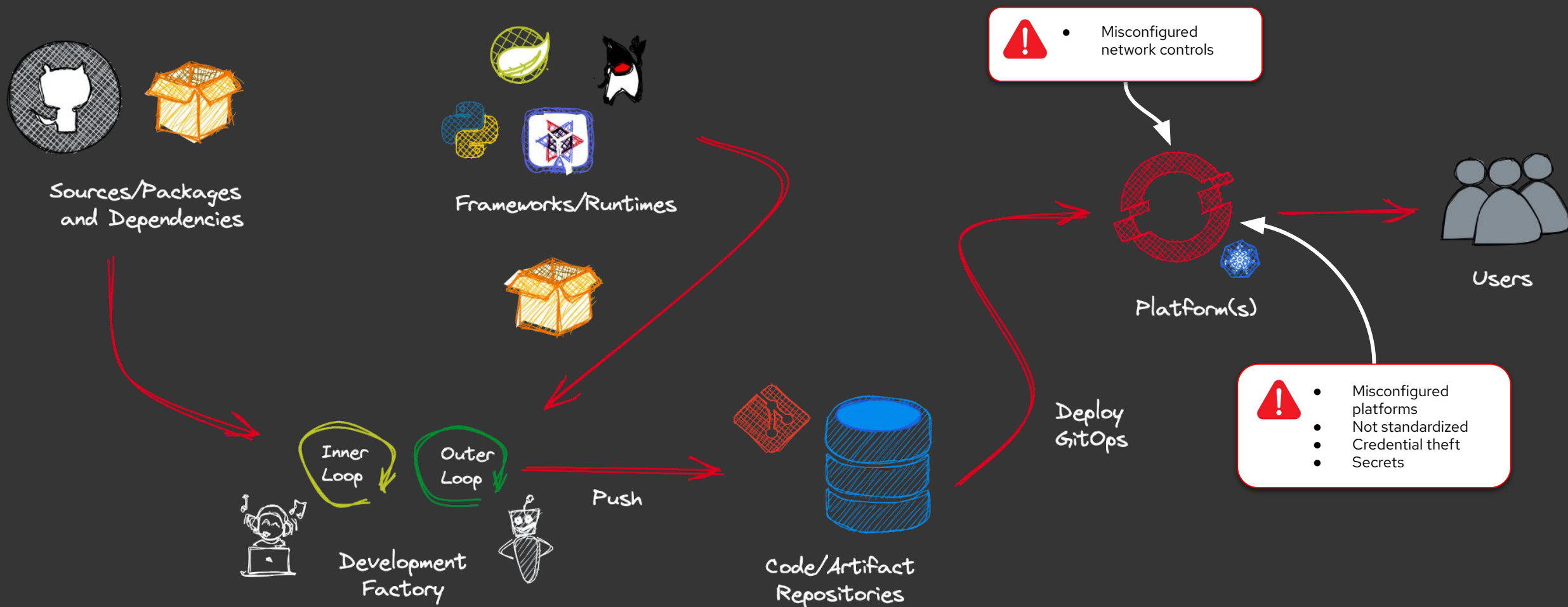
Points of Compromise



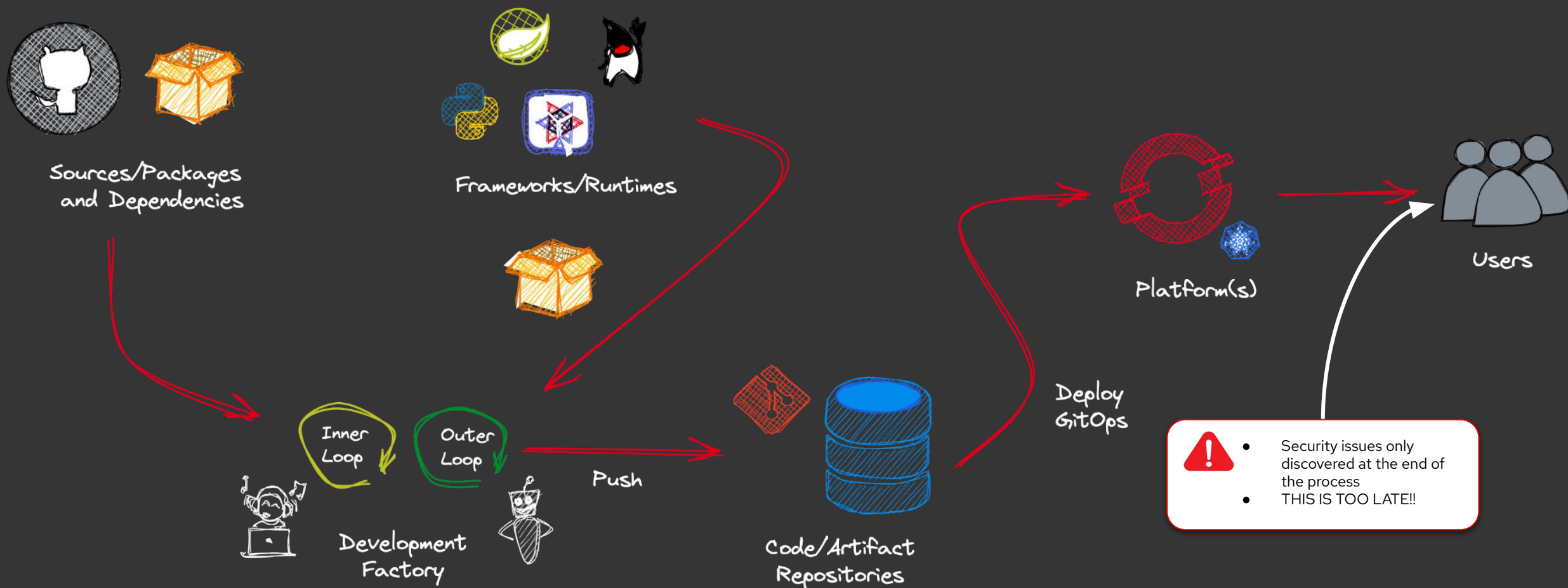
Points of Compromise



Points of Compromise



Points of Compromise



Now What?

Secure Code

Secure Dependencies

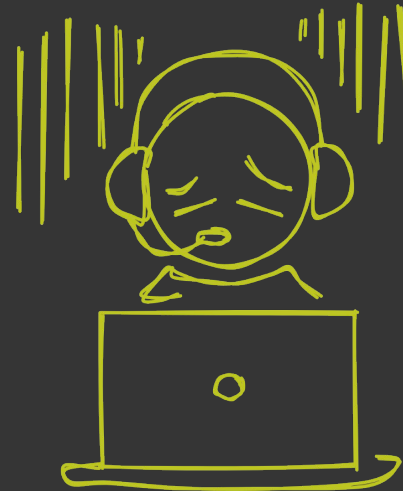
Secure Artifacts
or Containers

Secure Infrastructure

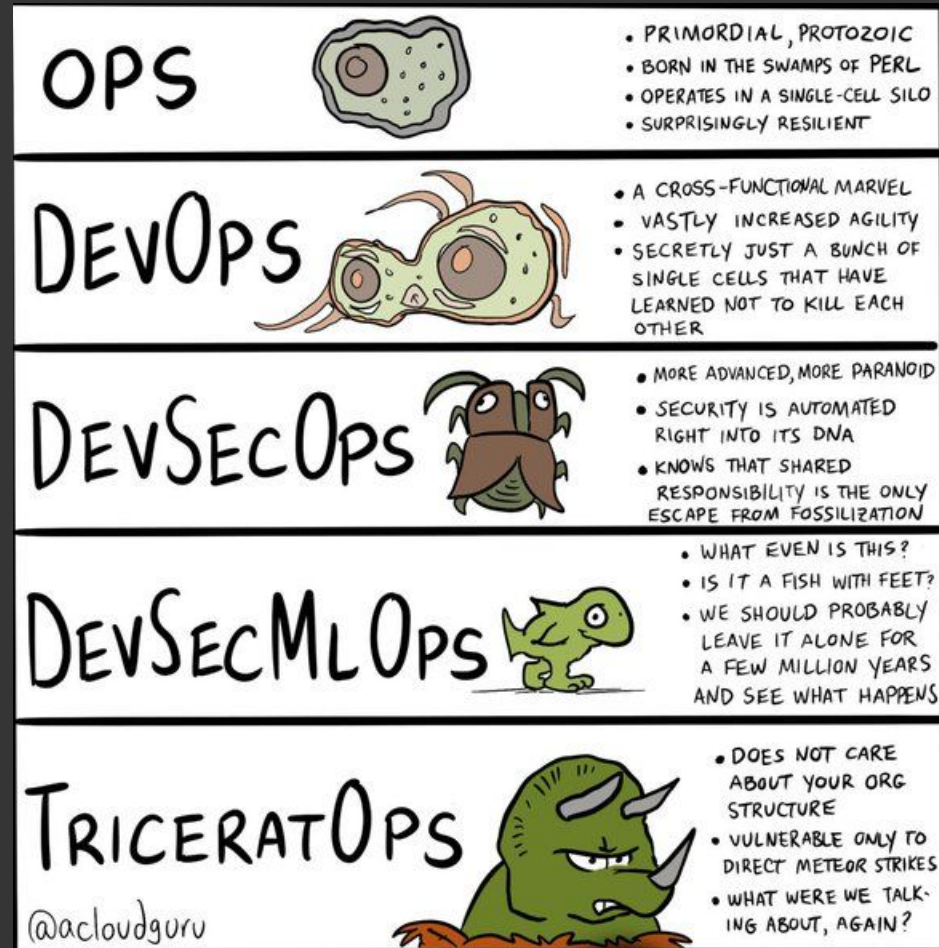
Secure Interfaces

Continuous
Runtime Security
Monitoring

WE HAVE ENOUGH ON
OUR PLATE ALREADY



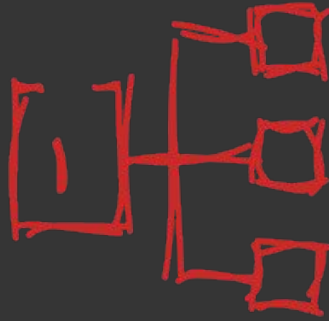
So, time to evolve...DevSecOps???



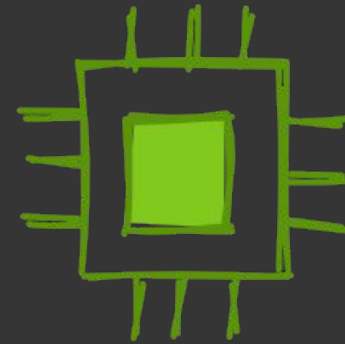
No Really, DevSecOps



People



Process



Technology

Doing DevSecOps



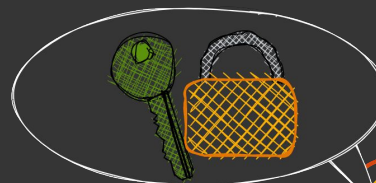
People



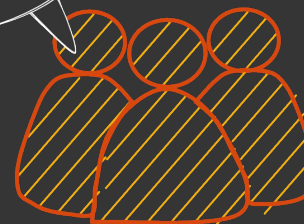
1. Set realistic goals,
together



2. You code it,
you own it



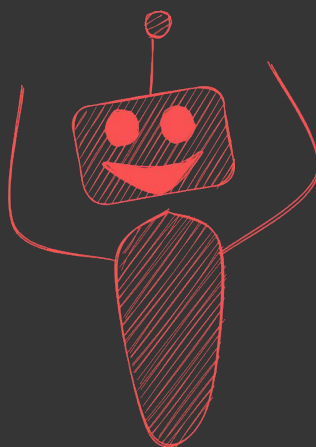
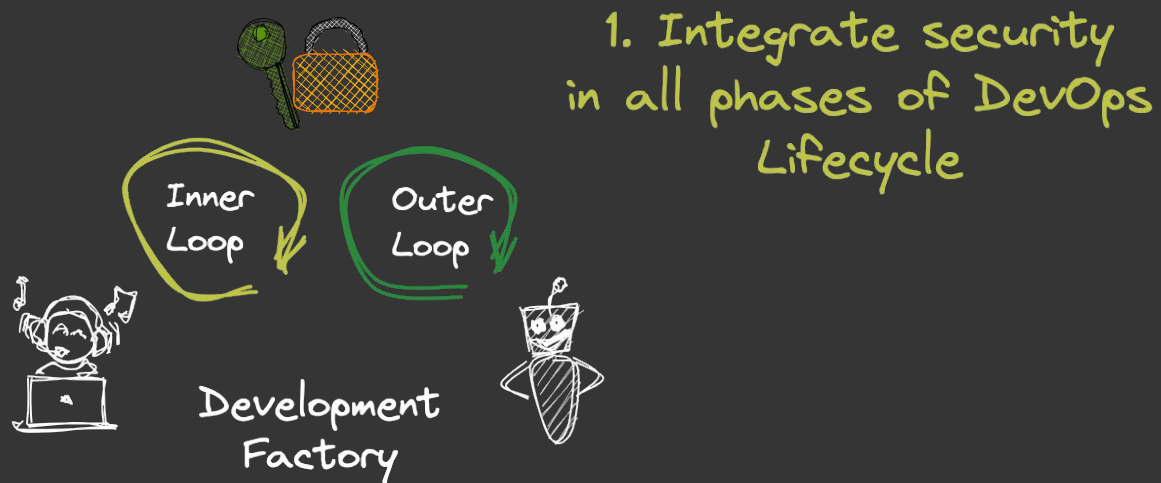
3. Integrate security
staff into your team



Doing DevSecOps

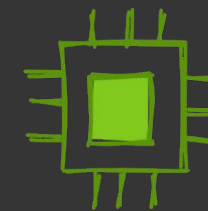


Process



2. Automate Security,
Compliance Testing

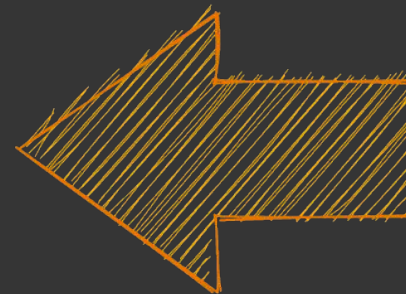
Doing DevSecOps



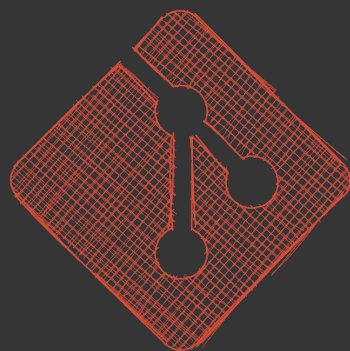
Technology



1. Tools should help you
balance Speed,
Accuracy, Efficiency



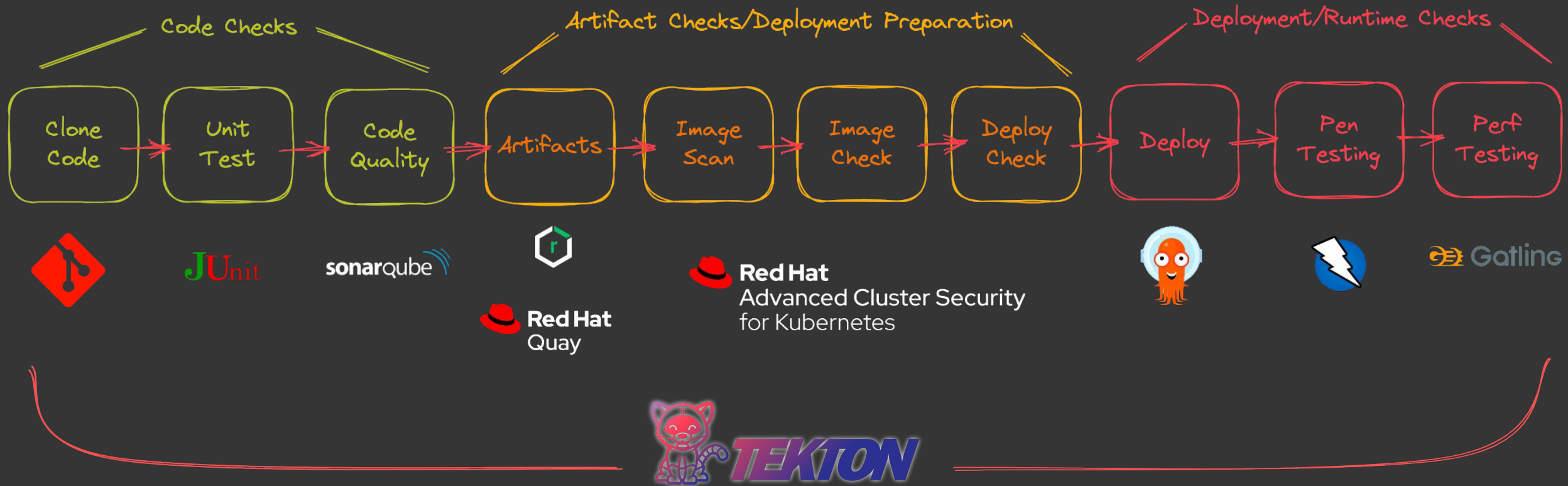
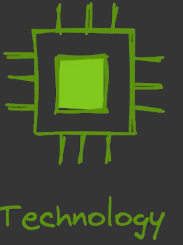
3. Shift Left



2. Single Source
of Truth

Show me an example?

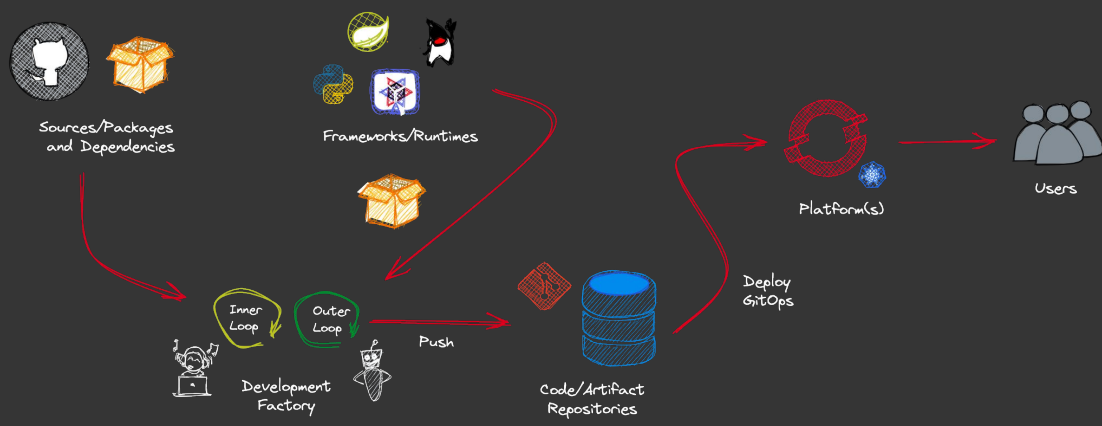
What does a secure pipeline look like?



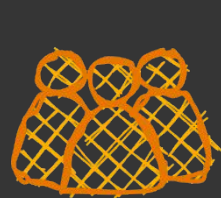
What does this look like in real life?

You told me to shift-left?

Doing DevSecOps



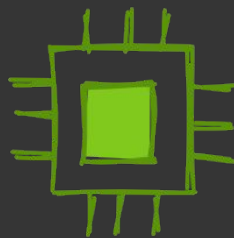
1. Think about your whole software supply chain, from build to runtime



People



Process



Technology

2. DevSecOps is more than just a tool or a team

Red Hat
Summit

Connect

Thank you



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