
DevSecOps: Moving Beyond SAST in Pipelines

Jon Jarboe
Developer Advocate



About
Jon Jarboe

Dev Advocacy @ Accurics

Development, AppSec, IaC

DevSecOps enthusiast

Favorite attack technique:
Watering hole



About **Accurics**

Our mission is to enable cloud cyber resilience with a codified, developer-first approach to security.

We work in automated workflows to self-heal the cloud by enabling developers to programmatically detect and respond to breach paths throughout the development lifecycle.

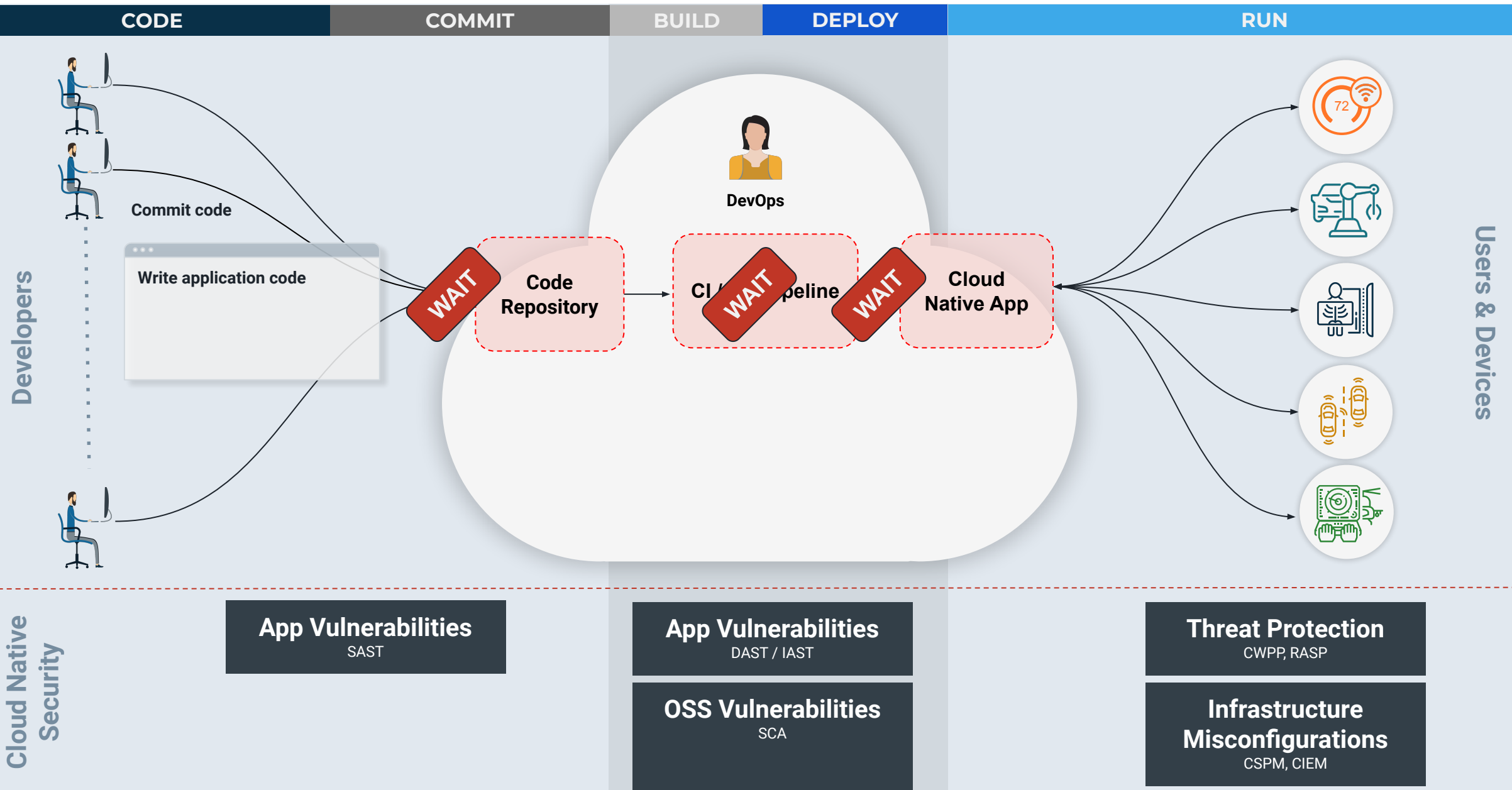




Agenda: Why DevSecOps?

- DevOps is working!
- Security is not.
- A new approach is needed: DevSecOps.

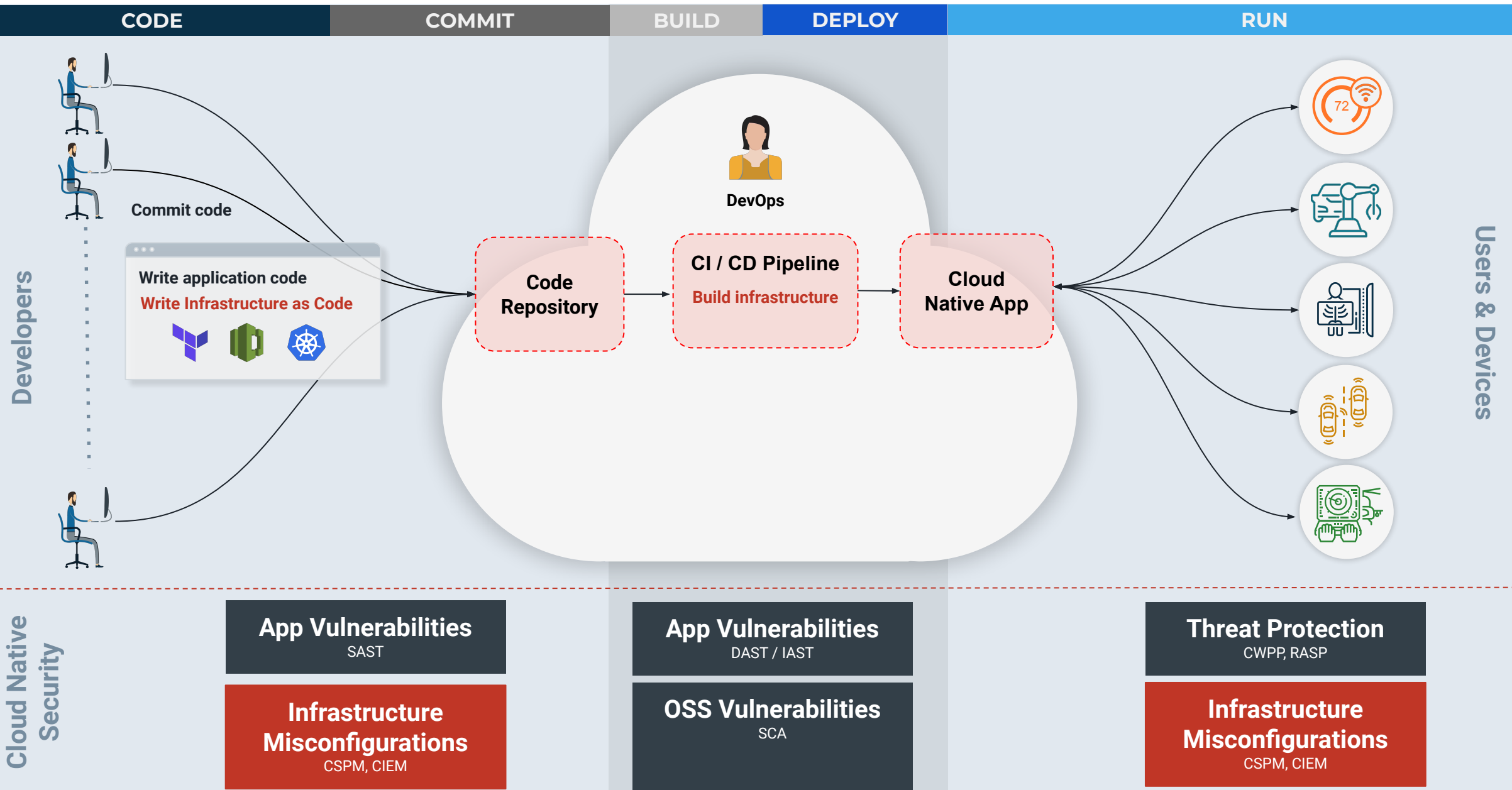
Traditional cloud security tools are **not built for developers**



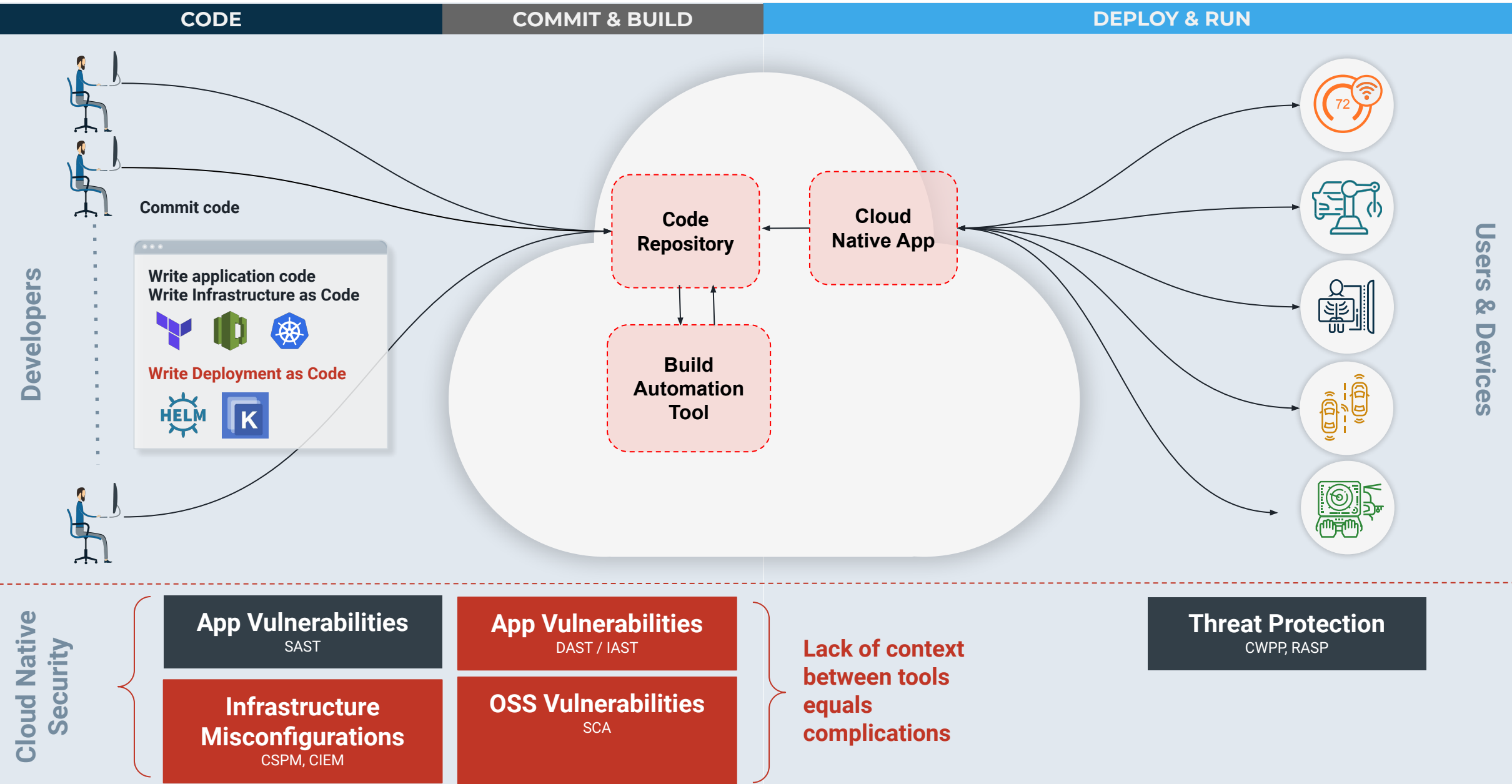


- Finds real problems and streamlines some workflows
- Doesn't help with:
 - Manual remediation effort
 - Need for manual review of security findings
 - Risk assessment of findings
 - Prioritization of findings
 - Alert fatigue, or information overload
 - Cultural fit and process inefficiencies

Traditional cloud security tools are **not built for developers**



And security only gets more challenging as **developers embrace <*>Ops**



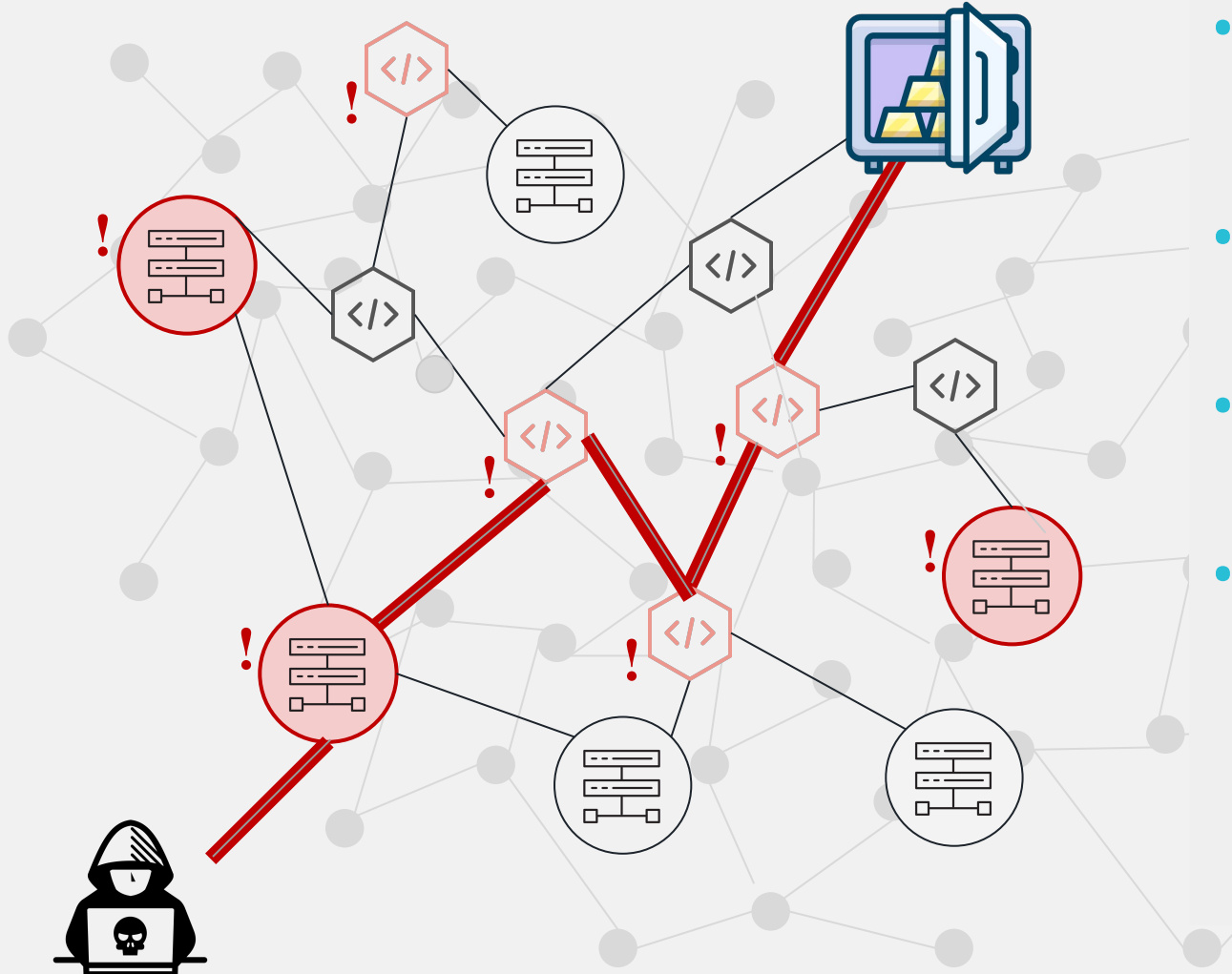


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Potential solutions:

- Automated fixes
- Improved accuracy
- Risk scoring

What are breach paths?



Created by Peter van Driel
from Noun Project

- Security tools find so many weaknesses
 - Often hard for teams to prioritize according to risk
- Most breaches result from attackers exploiting multiple weaknesses
- Breach path is collection of weaknesses that attacker can exploit to reach objective
- Focusing on breach paths enables risk-based:
 - Automation
 - Prioritization
 - Remediation

Programmatically Detecting Breach Paths During **Development**

Vulnerable App
Exploited (CWE-918)



Misconfigured
Compute Resource



Overly Permissive
IAM / RBAC Policies



Unencrypted
Database



SAST + Infrastructure as Code (IaC) Scanning

PROBLEM: SAST tools do not have context if a vulnerability is exposed, exploitable, and if lateral movement is possible.

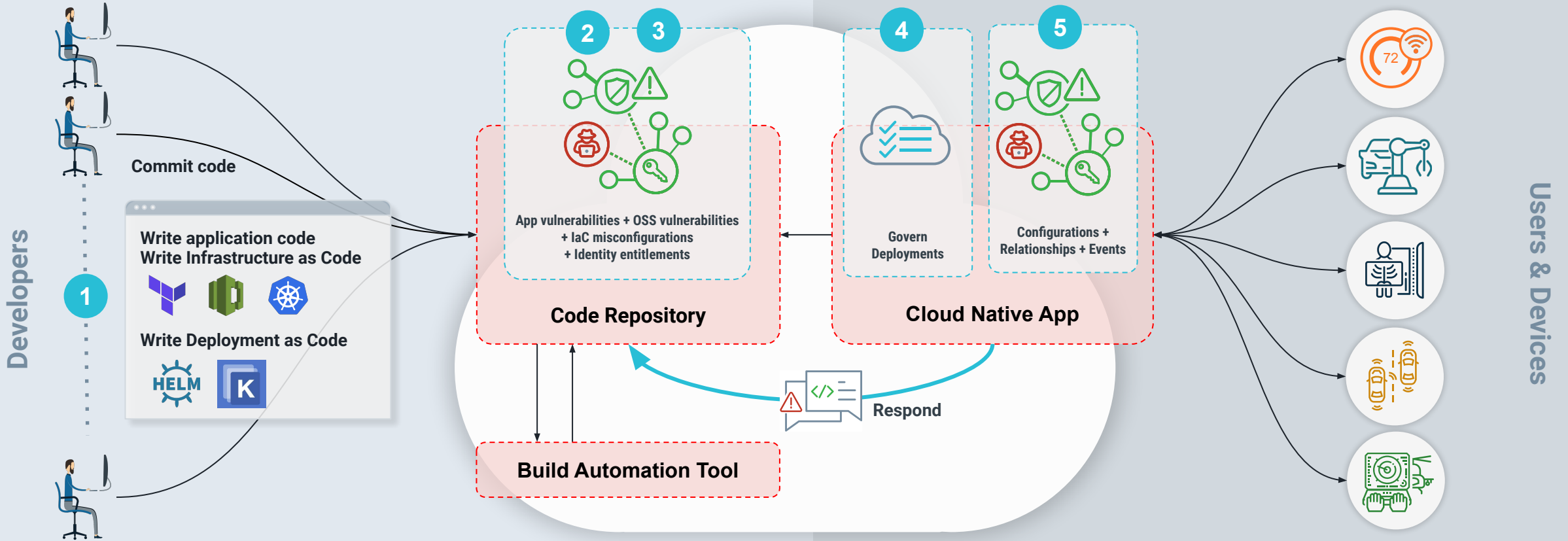
SOLUTION: Combining data from SAST & IaC scanning tools will enable end-to-end breach path identification.

A developer-first approach to security enables DevSecOps

CODE

COMMIT & BUILD

DEPLOY & RUN



Cloud Native Security

1

Secure cloud development

2

Programmatically detect breach paths

3

Programmatically fix breach paths

4

Programmatically govern deployments

5

Programmatically detect & respond

Thank You

Let's Chat!

SKILup Day: DevSecOps – "Meet the Speakers" Chat Lounge

Email – jon@accurics.com



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