

VERACODE



Intelligent Software Security

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01

Intelligent Software Security

Continuously find and fix flaws at every stage of the modern software development lifecycle

138 trillion+

lines of code
and counting

100's

of languages and
frameworks scanned

89 million+

security flaws fixed

17 years

of software security
expertise

10 x Leader

in the April 2023 Gartner®
Magic Quadrant™ for
Application Security Testing

2,700

Customers globally



VERACODE



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Implementing security
controls throughout
CI/CD pipelines

Embedding AI & ML to
automate DevOps delivery

Integrating new platforms
with existing systems

Software as a Service (SaaS)

Migrating from legacy
systems to cloud/hybrid
platforms

Building a high
performing DevOps team

Artificial
Intelligence

Maximising scalable
DevOps delivery

Machine Learning

Microservices

Containers and Kubernetes

Capability Development

Implementing
secure CI/CD
pipelines

Shifting mindset and driving
cultural change

Getting top-level management
support

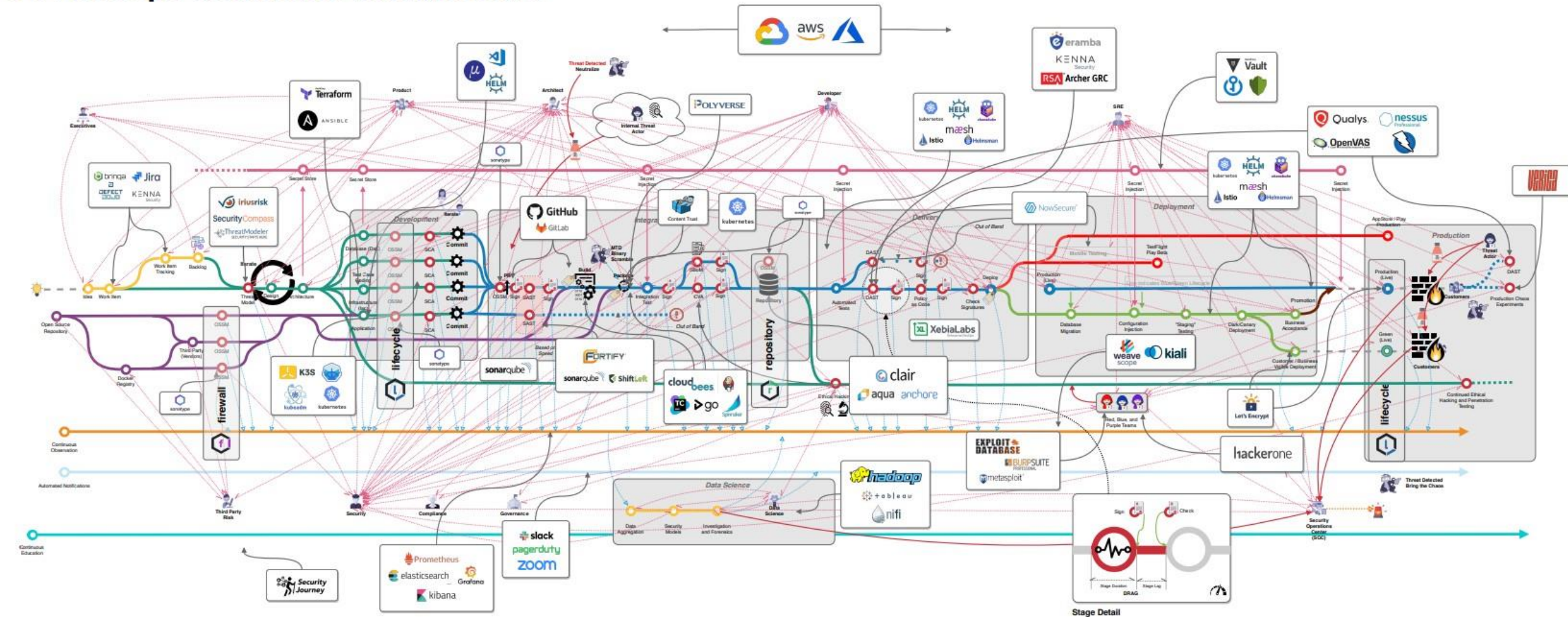
Keeping up to date with
new technology
requirements

Securing Modern DevOps:

- Overcoming common challenges in AppSec programs for enhanced effectiveness.
- Best practices for secure CI/CD pipeline implementation.
- Unlocking the full potential of scalable DevSecOps delivery.

CICD: Continuous Irritation, Continuous Disappointment

DevSecOps Reference Architecture



Our understanding of Client X



Current State

- # of Developers = 200
- Size of AppSec and Security Team = 27, including security champions in Dev teams
- Developer Ecosystem (IDE) = VSCode, Eclipse, Rider
- DevOps Tools = GitHub, Bitbucket
- Main Language = C#, ReactJS, Typescript, Apex, Python and Mobile
- Ticketing System (Jira / ServiceNow) = Jira
- Current Security and AppSec solutions = XXX for SAST, XXX for SCA
- Known pains =
 1. Lack of security findings in the SAST tool, high false positive rate
 2. Lack of good remediation guidance for developers
 3. Lack of AppSec visibility, governance and oversight
 4. Huge burden on security team and champions to triage and remediate flaws
 5. Lack of SBOM out of box functionality
 6. Highly reliant on regular Pen Testing to reveal flaws \$\$



Priorities & Projects

- Company Priorities = Reduce risk across all applications. Implement a successful secure DevOps program and consolidate vendors. GRC reporting. Measurable ROI.
- Security Team Priorities =
 1. Better visibility and oversight of AppSec risk
 2. IaC and Container Scanning, Secrets
 3. DAST Scanning
 4. Reduce burden for security team to triage and fix vulnerabilities
 5. Higher Automation
- Development Team Priorities =
 1. Minimal impact on the DevOps process
 2. Better remediation guidance to fix security flaws
 3. Integration and automation
- Relevant Projects = New Platform-Digital Transformation Project, shift to cloud and microservices architecture
- Relevant Regulatory and Compliance Requirements = CPS234, PCI, and ISO27001

Challenges of an application security program



“As the AppSec and compliance team, I feel like we lack **AppSec Visibility, Governance and Oversight**, making it difficult to evaluate and address application layer **Risks** effectively. We don’t quite understand if our application security is getting better over time.”



“The AppSec tool doesn’t provide good **Remediation Guidance** to developers, hence it introduces a huge burden on the security team and security champions to help triage and remediate flaws.”



“We don’t feel like we are running the application security program well, as we don’t have a **Standardised AppSec Procedures** in place. Multiple scanning technologies introduce multiple workflows and there is always friction between the security team and the engineering team.”

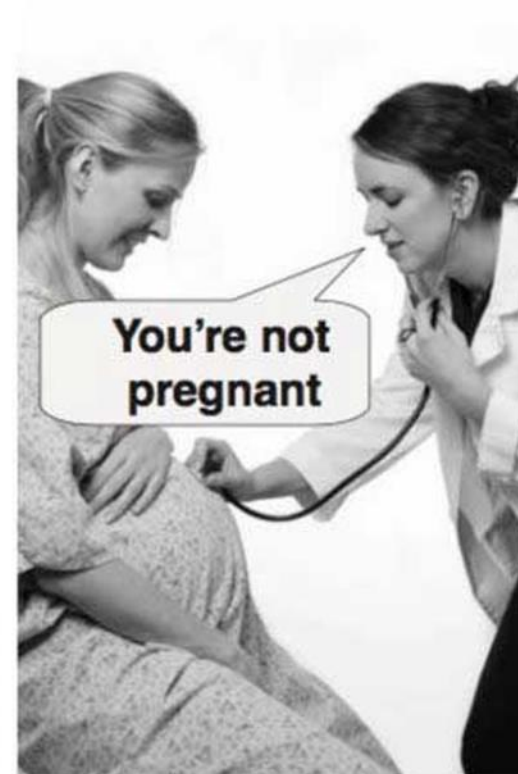
Challenge #1: Inaccurate Results Slows Me Down

Challenge #2: Overcoming Remediation Challenges

Type I error
(false positive)



Type II error
(false negative)

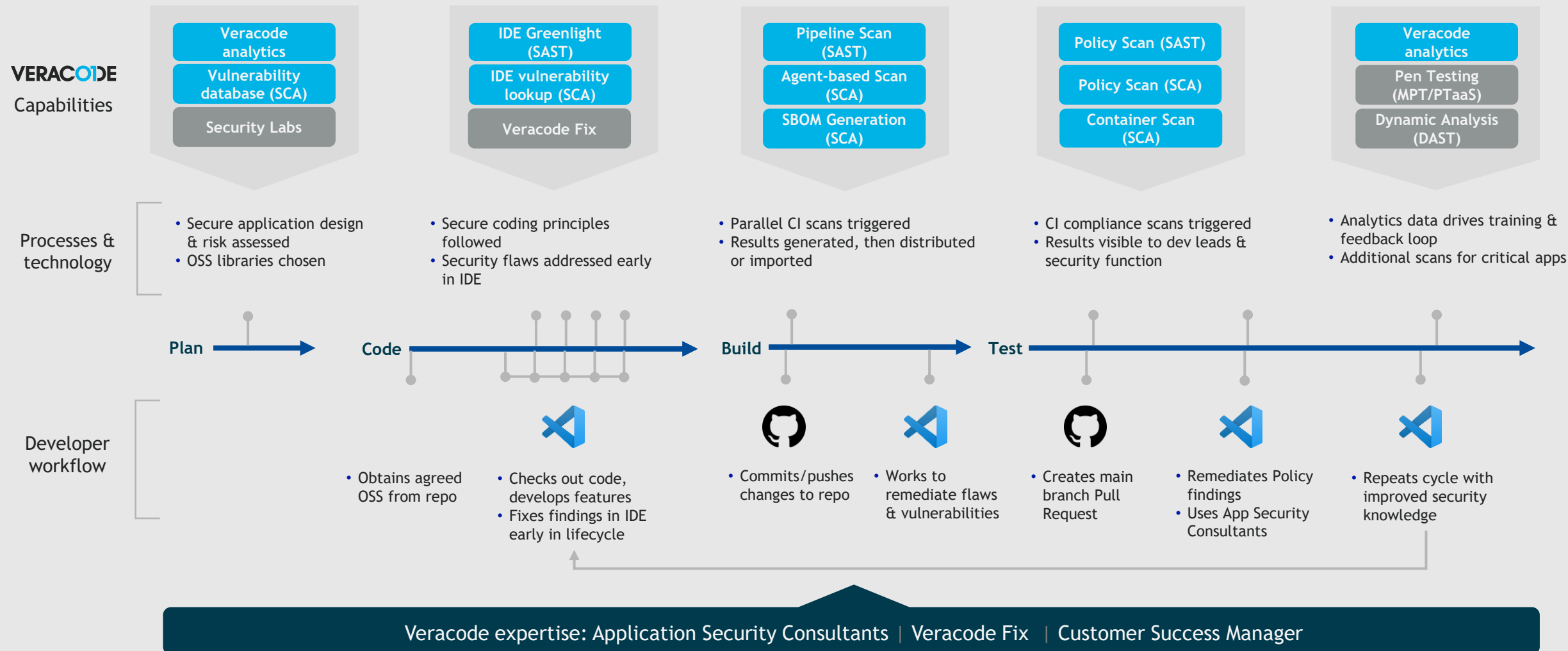


Challenge #3: Security Struggling to Keep Pace with DevOps Velocity

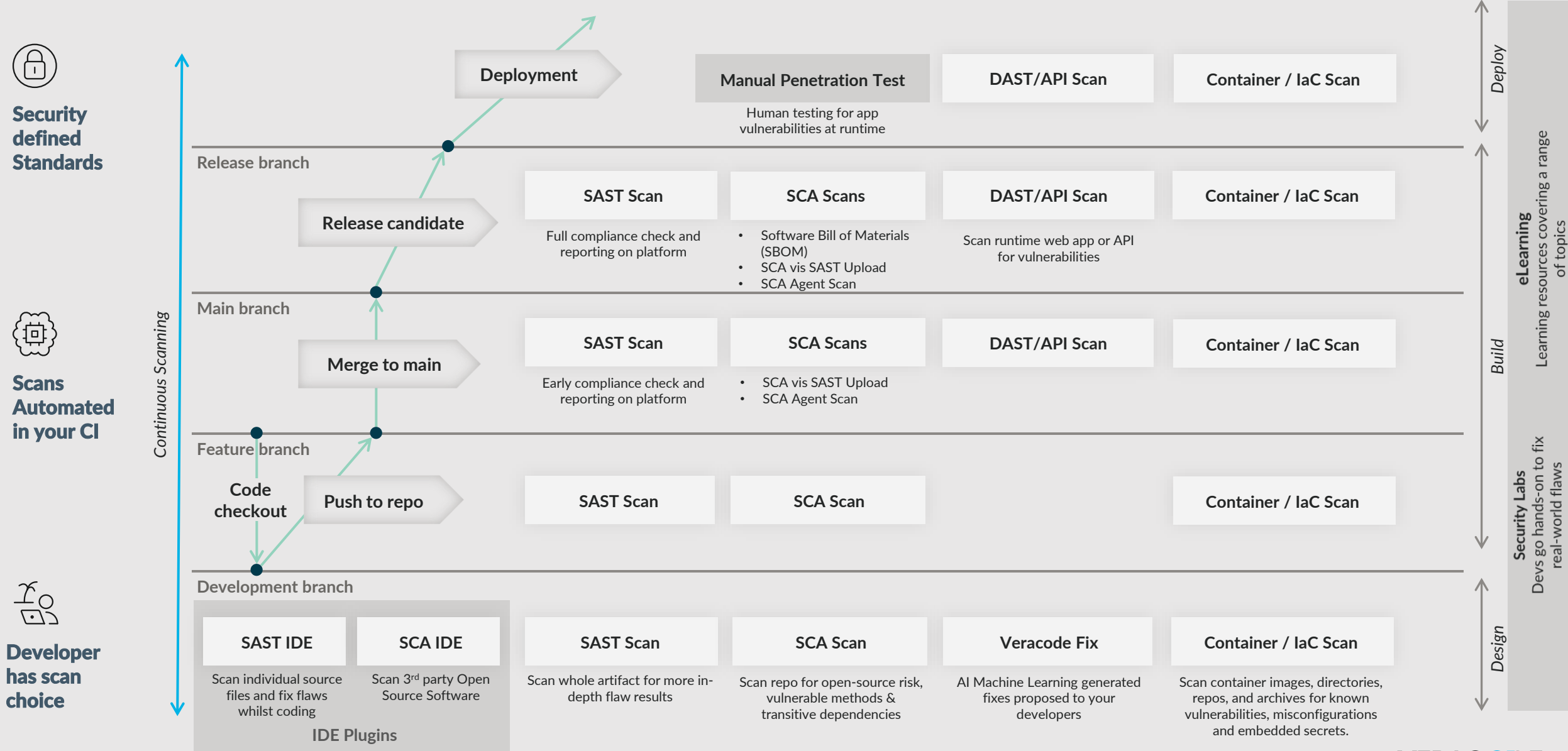
Challenge #4: Lack Of AppSec Visibility, Governance and Oversight



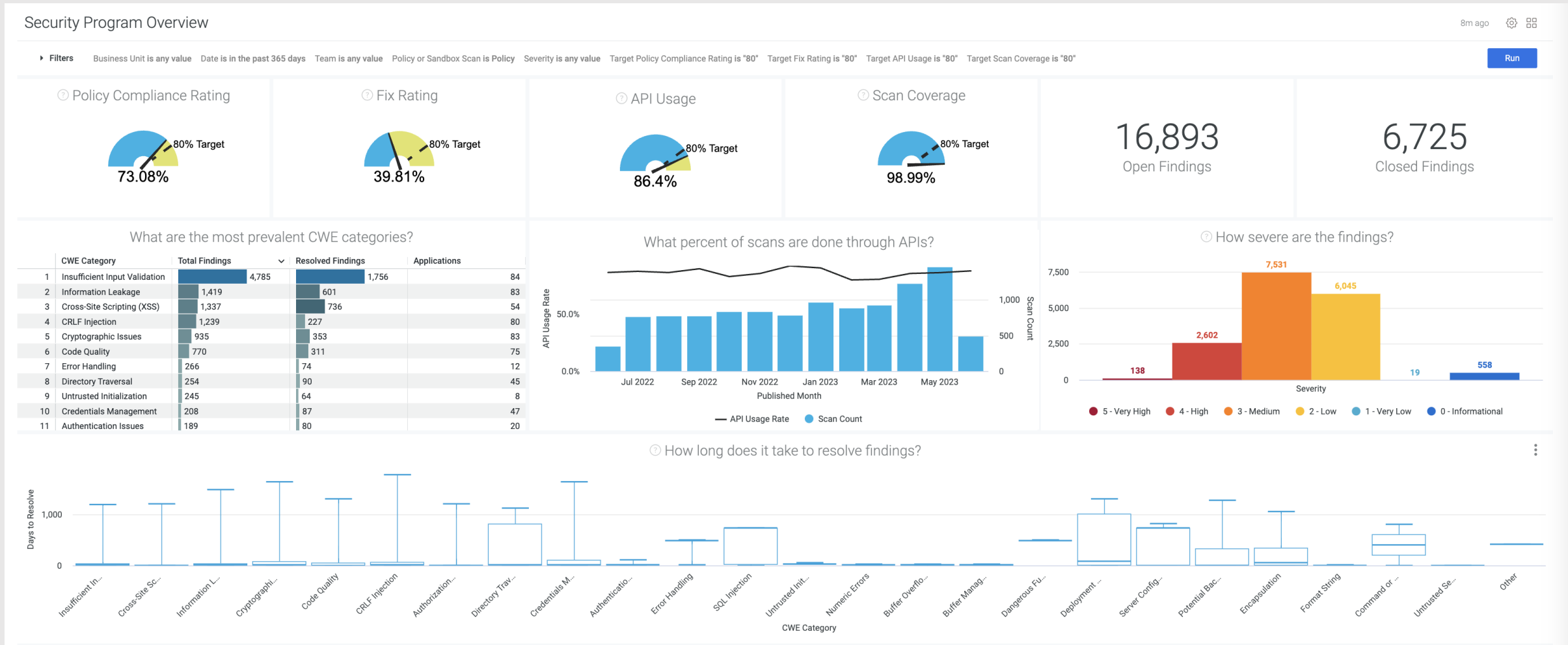
Secure the entire SDLC



Build Veracode into the SDLC:



Governance, Oversight Of Secure SDLC



Governance, Oversight Of Secure SDLC

Findings Status and History

2m ago ⚙️ 🗪

Filters Application Name is any value Business Unit or Team Selector is Business Unit Policy or Sandbox? is "Policy" Business Unit is any value Team is any value

Run

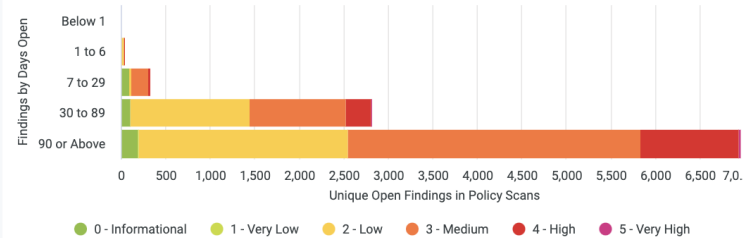
10,168
Open Flaws 37% of 27,777 Total Flaws

17,609
Closed Flaws 63% of 27,777 Total Flaws

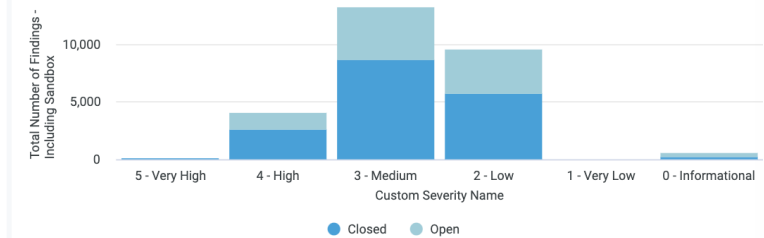
134
Average Days to Resolve All Findings

293
Average Days to Resolve Policy Findings

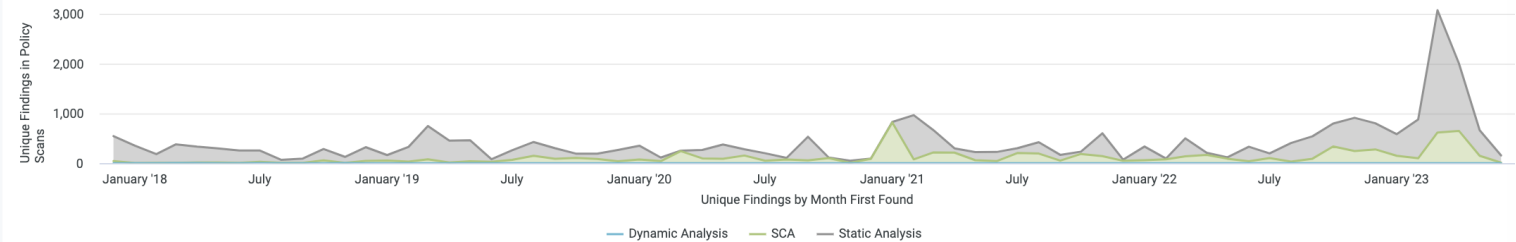
How many days have my flaws been open?



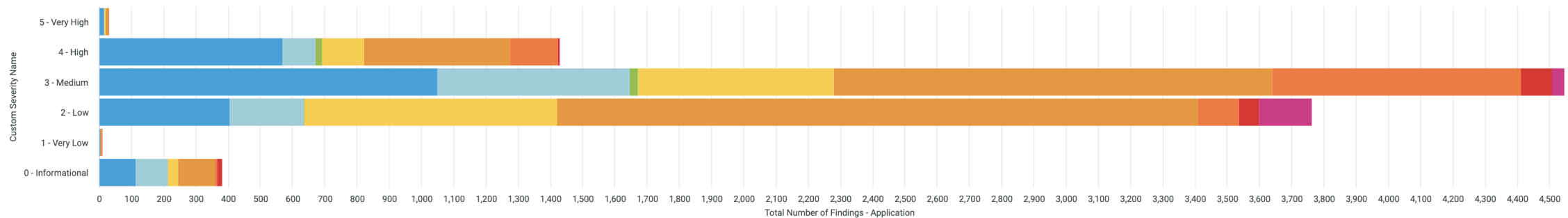
How severe are my findings?



How many findings were discovered?



How severe are my open findings?



Policy Compliance Overview

just now    

Application Published Date

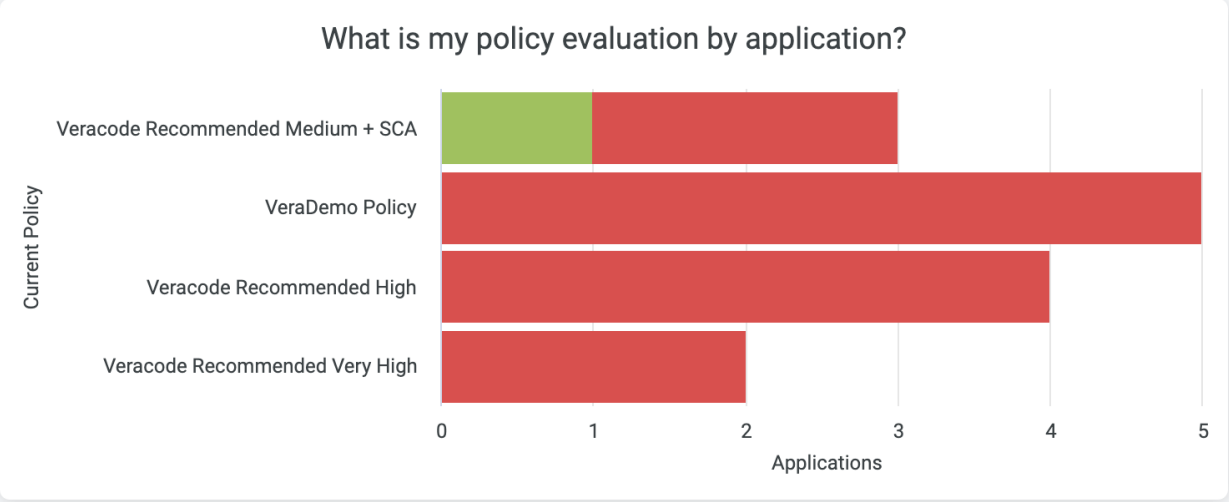
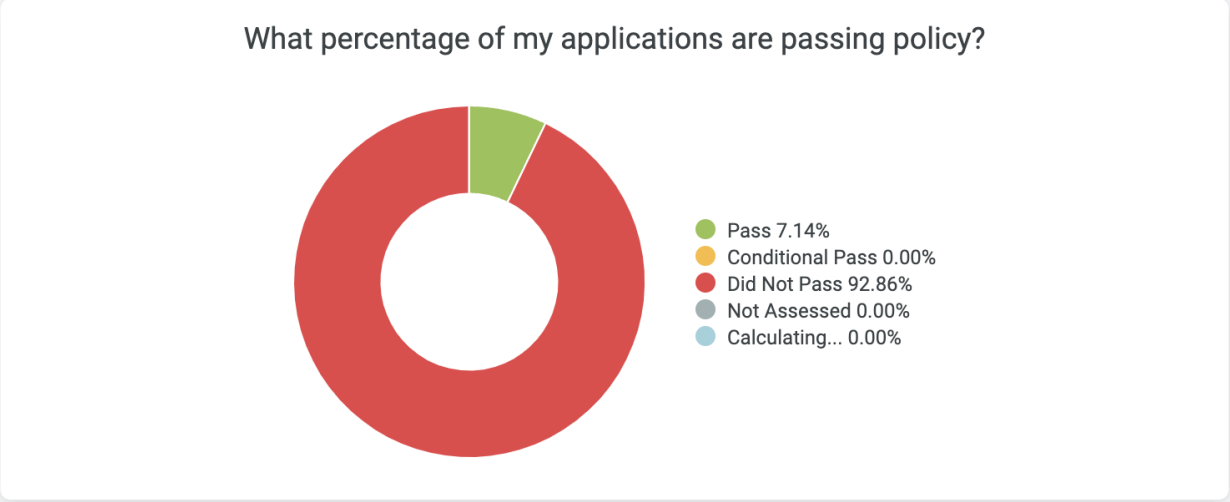
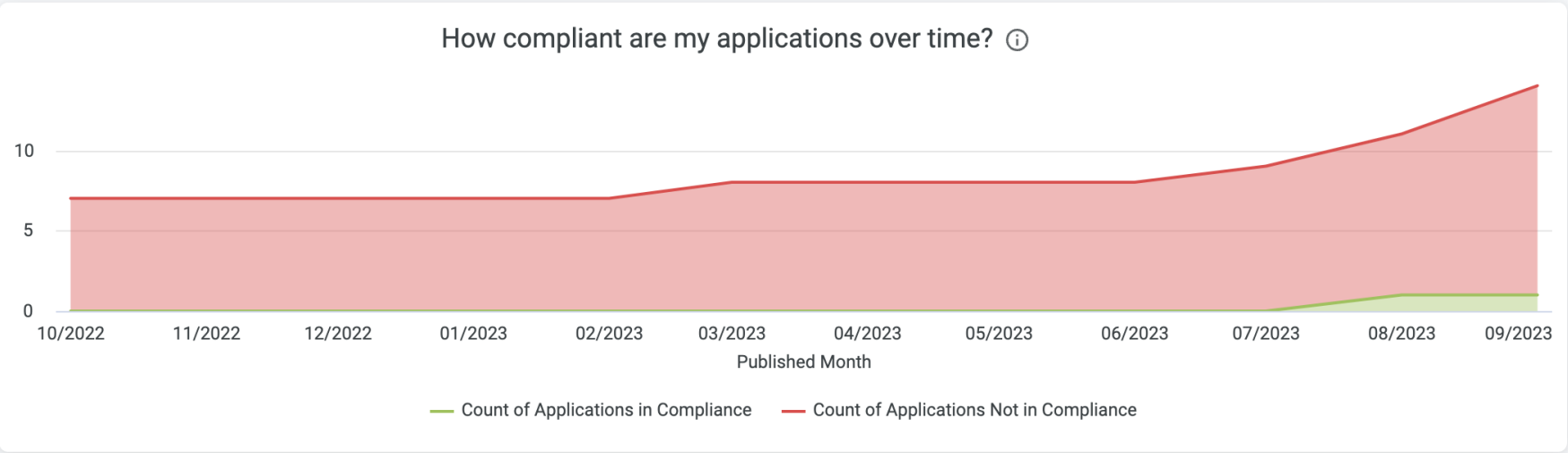
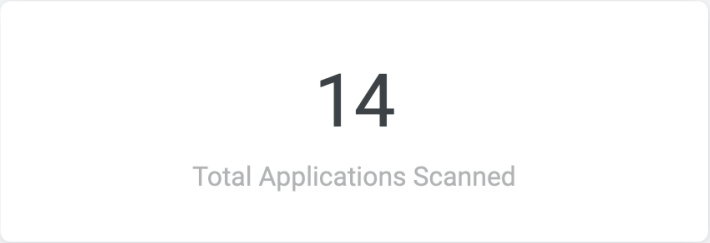
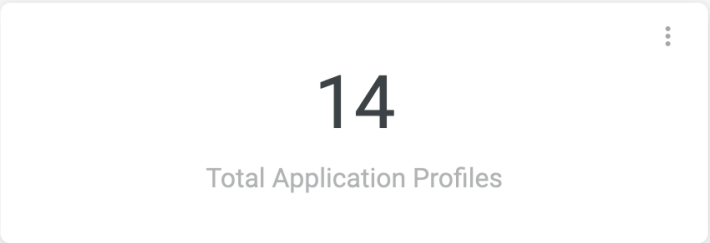
Business Unit

Team

is any time

is any value

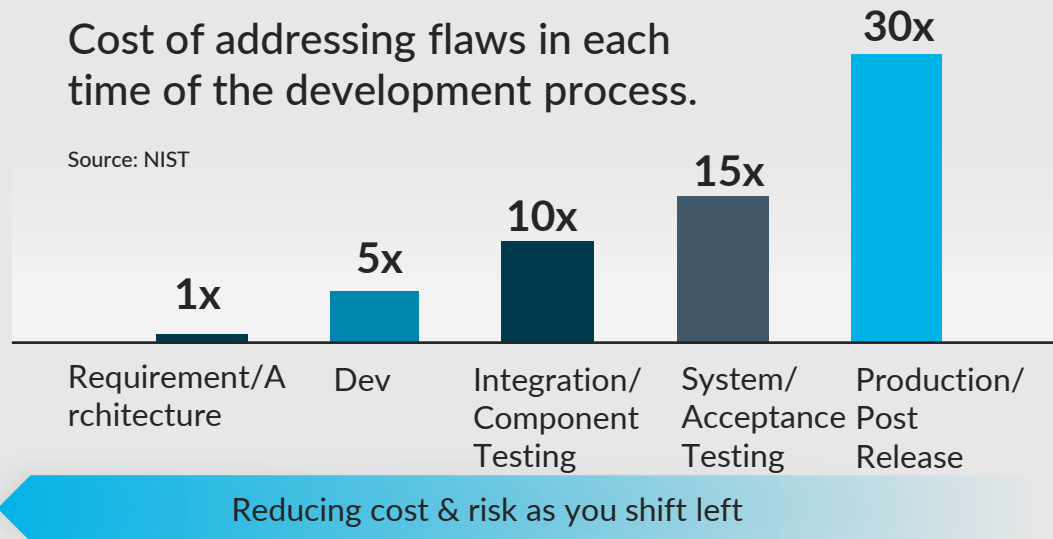
is any value



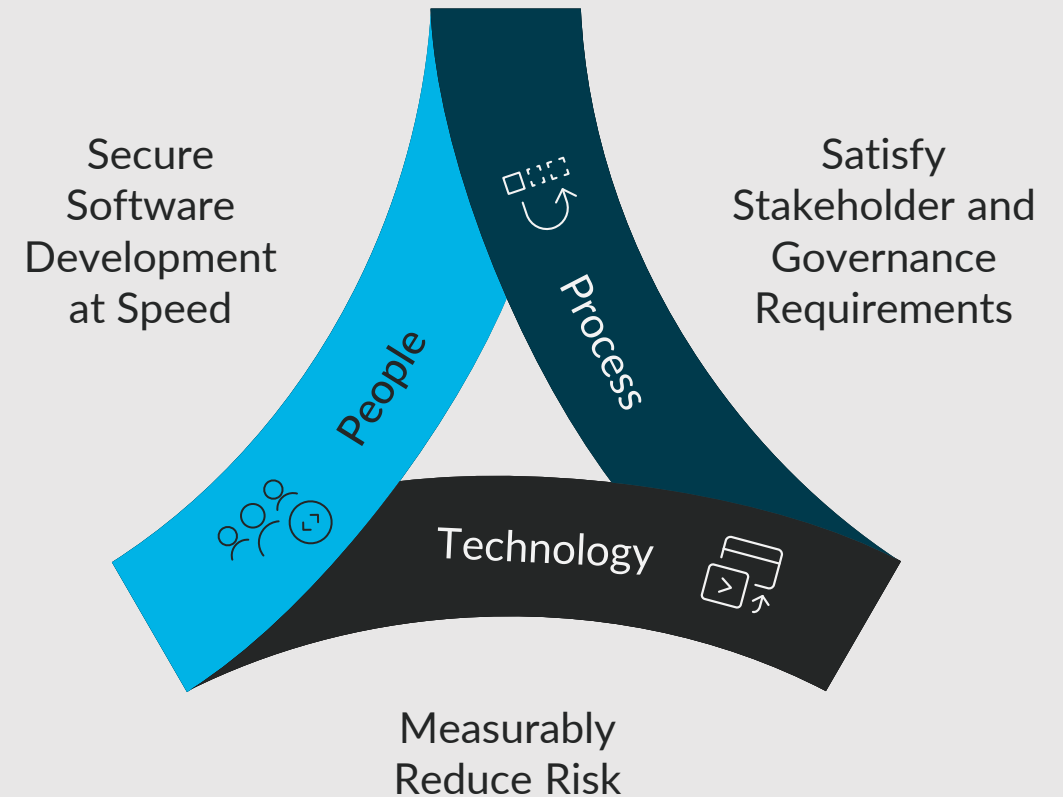
- Client X
- 200 developers x 20 mins/day = 4000 mins day
- 67 hours x 250 days = 16,750 hours / 8 = 2,094 days
- 4 x FTE

Cost of addressing flaws in each time of the development process.

Source: NIST



Your organization



In Conclusion:

Key considerations of a DevSecOps program

- Facilitates collaboration across teams that have competing needs and priorities.
- Supports languages inc legacy and emerging e.g. Cobol, Dart and Flutter as well as your tech stack.
- Delivers insight, guidance and enablement to the development team.
- Delivers oversight and control to the security team.
- Provides audit ready reporting to the GRC team.
- Delivers a measurable ROI to the executive team.
- Consolidates disparate solutions into a single easy to manage program/platform.
- Uses AI responsibly and does not introduce new risk or potential intellectual property infringement.

Secure Entire SDLC

Build Developer
Security Competency

Protect the Software
Supply Chain

Manage the Web App
Attack Surface

Secure Cloud
Development

Customer Challenges

Core Capabilities

Threat Insights

On-demand Experts

Comprehensive Scanning

AI-assisted Remediation

Analytics & Benchmarking

Intelligent
Software
Security

Rapid Time-to-Value

Easy to Use & Integrate

Actionable Results

Unified Platform

Effective Risk Reduction

Customer Benefits

The Veracode Platform

Prevent

eLearning

Security Labs

Detect

SAST

SCA

Container

IaC

DAST

PTaaS

Respond

Fix

Services

VERACODE

Thank You
Questions? Come see us outside.