

THE FUTURE OF APPSEC AUTOMATION

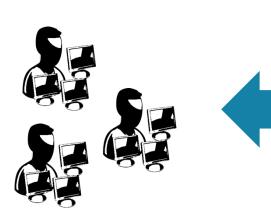
WHY YOUR APPSEC EXPERTS ARE KILLING YOU

Jeff Williams, CTO

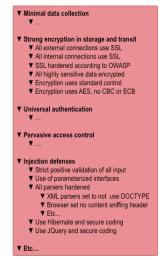
@planetlevel

CONTRAST SECURITY 291 Lambert Avenue Palo Alto, California 94306 www.contrastsecurity.com

ARE YOU "SECURE"?







Expected Security Model (claims)

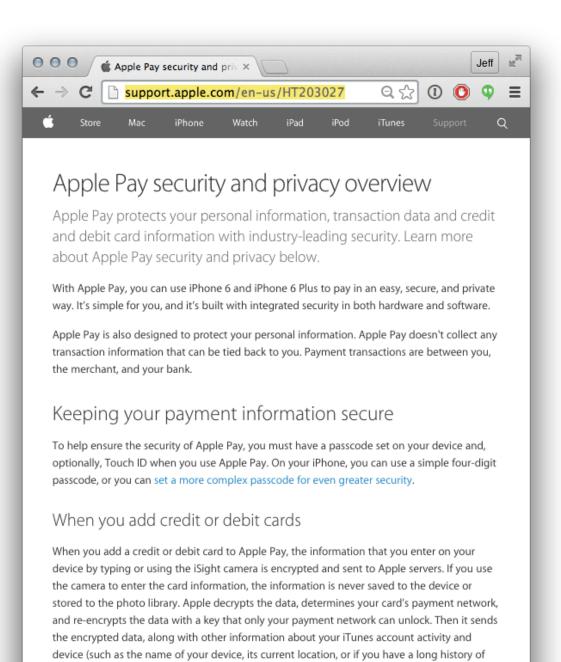


Verified Defenses (evidence)

Claims.

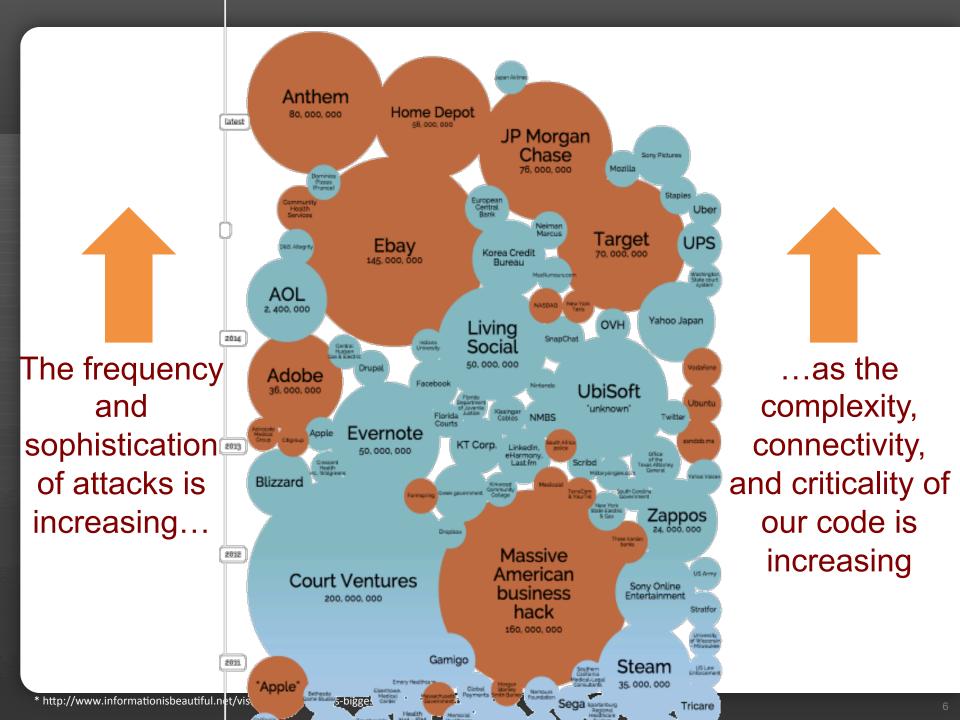
Not evidence.

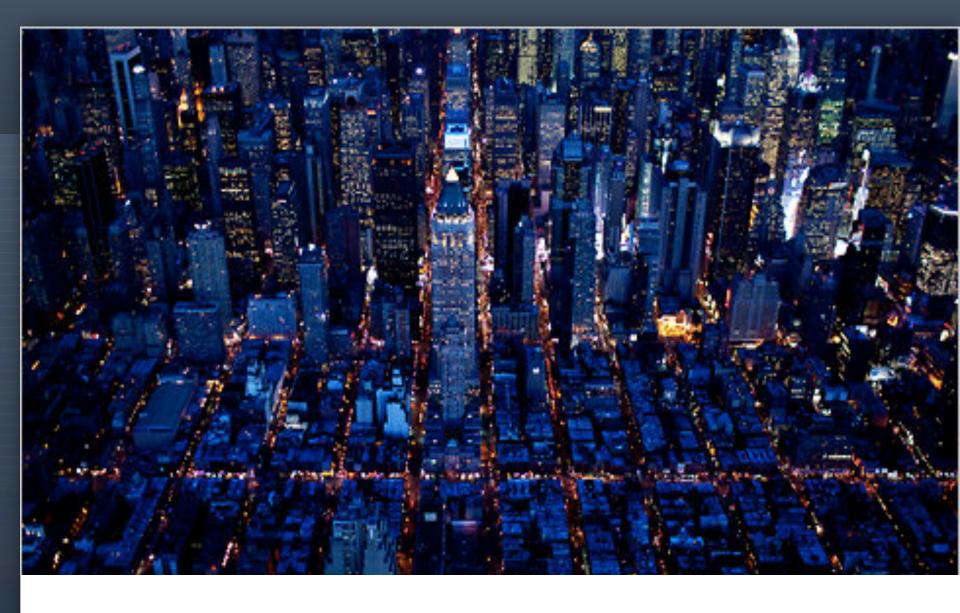
But still very cool.











"Application security is eating security" – Alex Stamos (Yahoo CISO)

How Are We Doing?

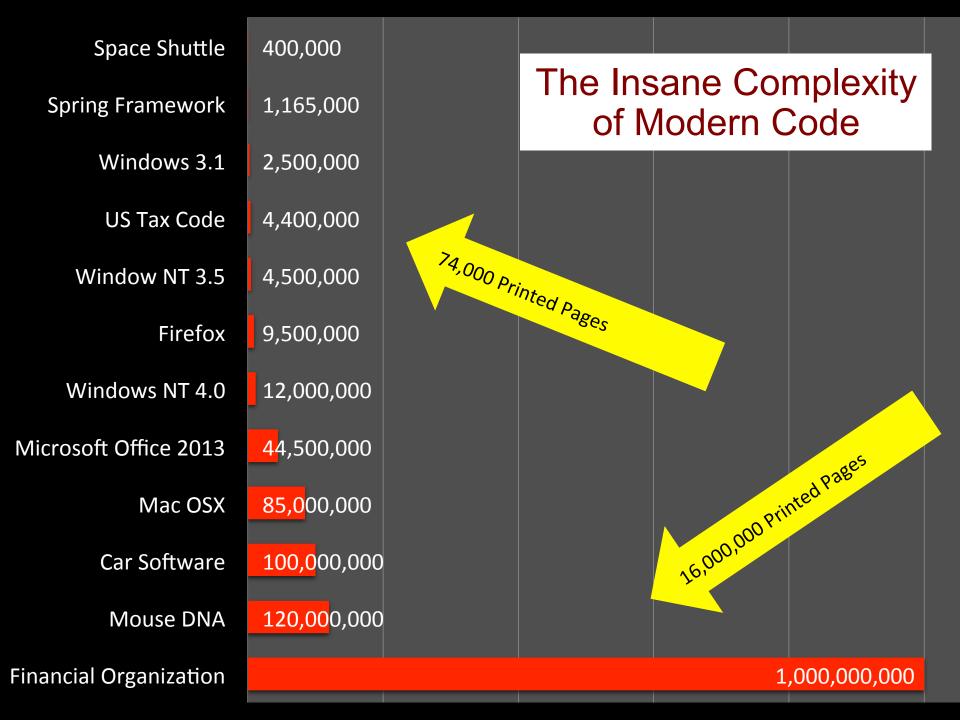
1. Assurance?

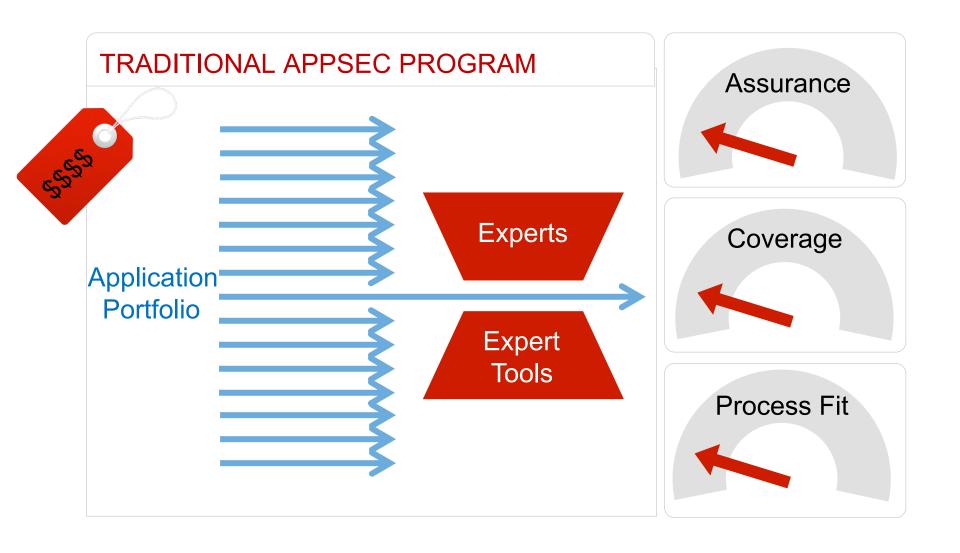
22.4

Assurance

2. Coverage?
10%
Coverage





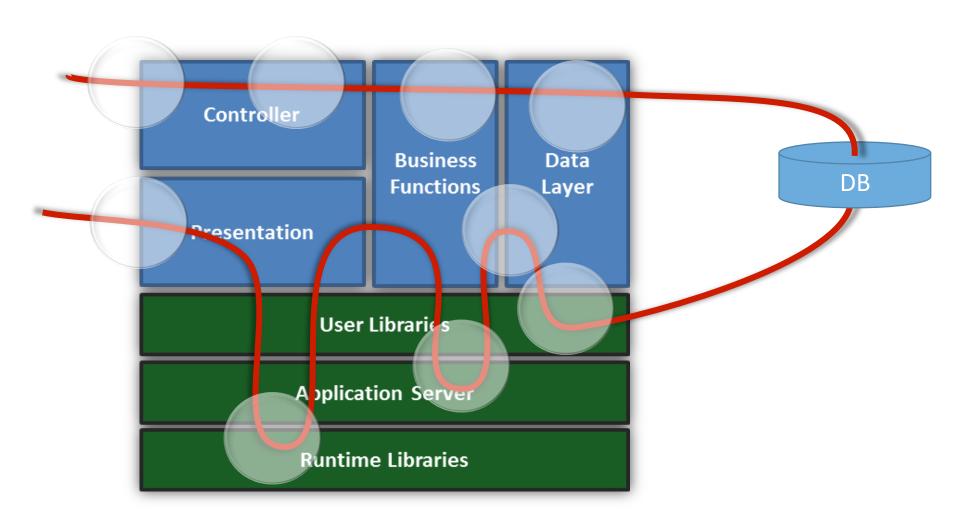


Development organizations interpret DELAYS as DAMAGE and route around them.



CONTEXT CONTENT IS KING!

A Vulnerability Is a Pattern of Events



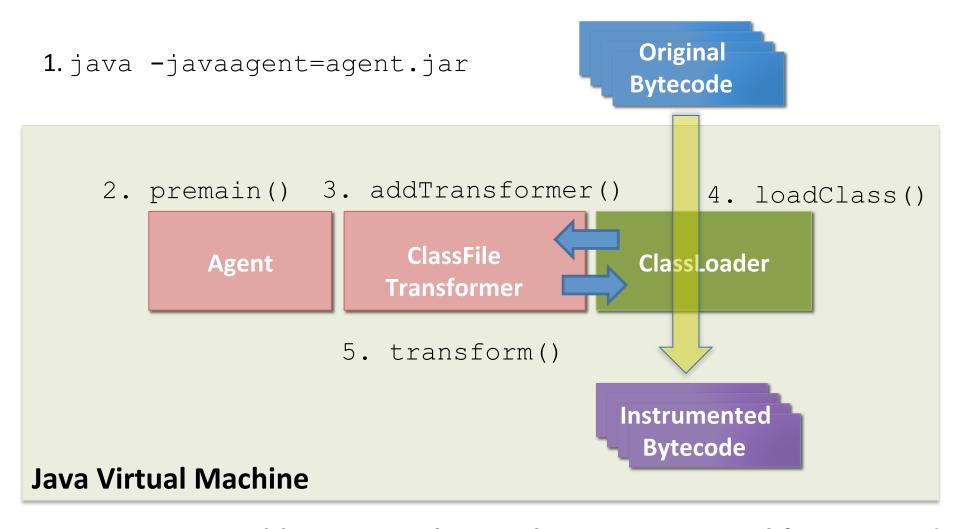
Rootkits Aren't Always Evil!

"Enterprise Java Rootkits" - BlackHat 2009

- The holy grail of backdoors
- The Java Instrumentation API

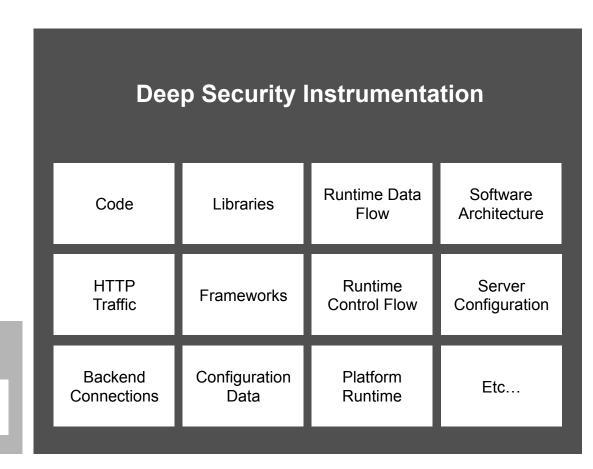


Instrumentation



Add sensors.... bytecode is instrumented for security!

DEEP SECURITY INSTRUMENTATION HAS UNFAIR ADVANTAGES...



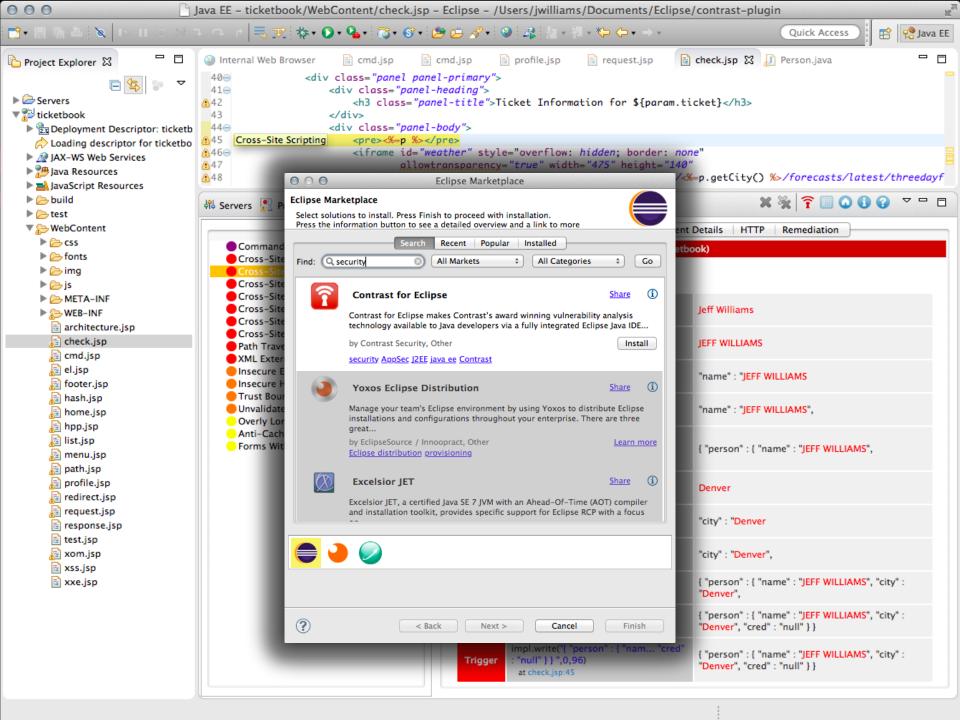
SAST

Code

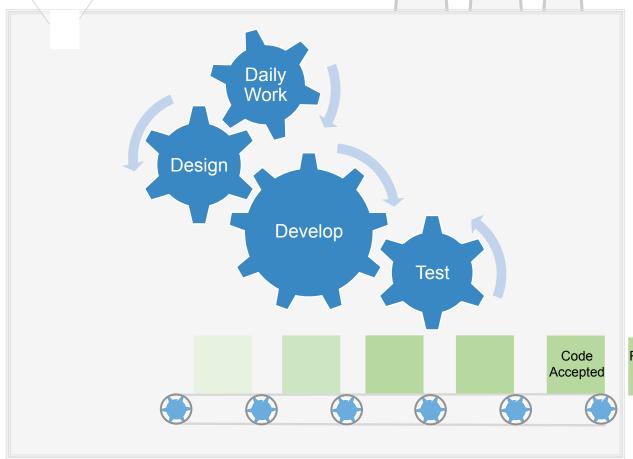
DAST

HTTP Traffic WAF

HTTP Traffic



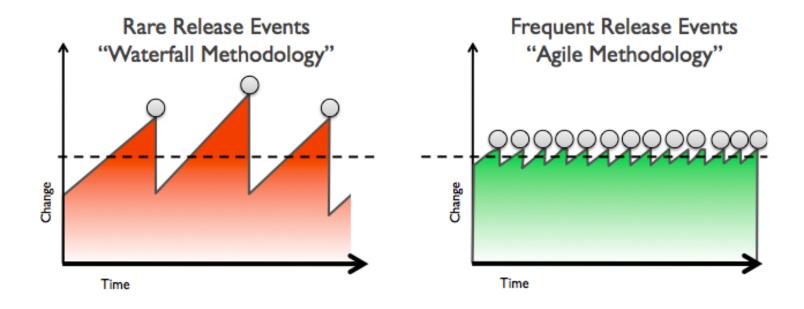
Business No.

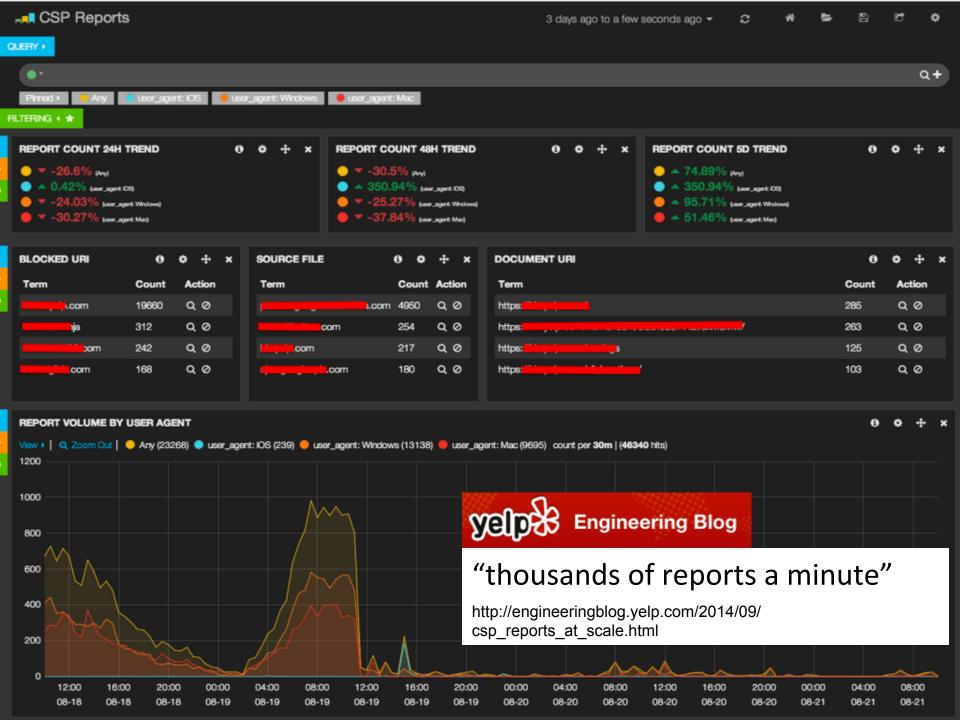


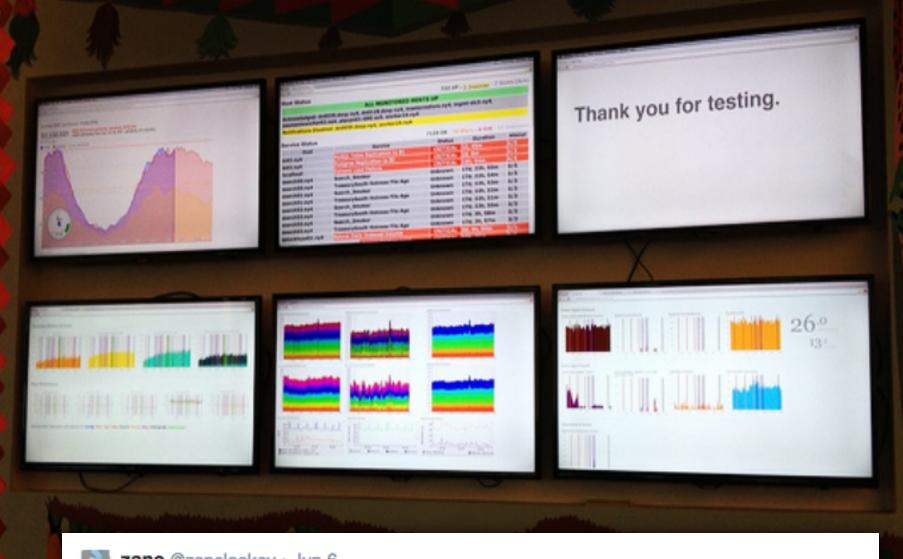
Released Product

> Released Product

Continuous AppSec







zane @zanelackey · Jun 6

"Surface security info for everyone, not just the security team"







APPLICATION SECURITY – TWO SEPARATE WORLDS

Development

Operations

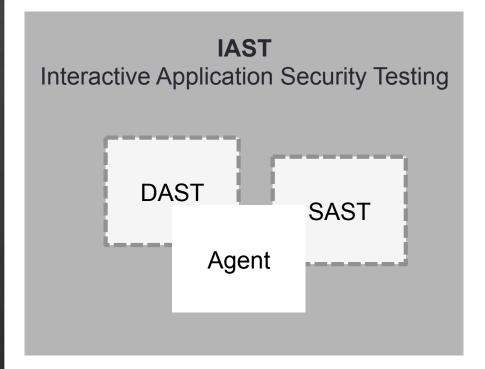
Tools to detect vulnerabilities

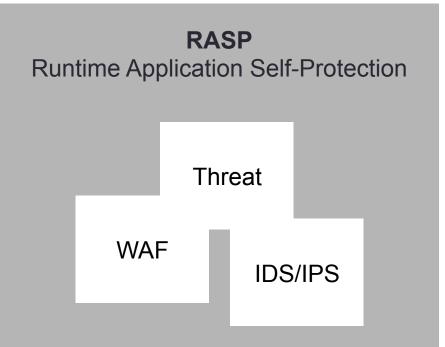
Tools to stop attacks

TODAY – EVOLUTIONARY ADVANCES

Development

Operations

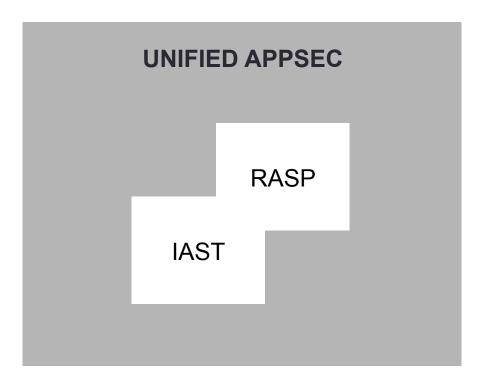




"Must have technologies" – Joseph Feiman (Gartner)

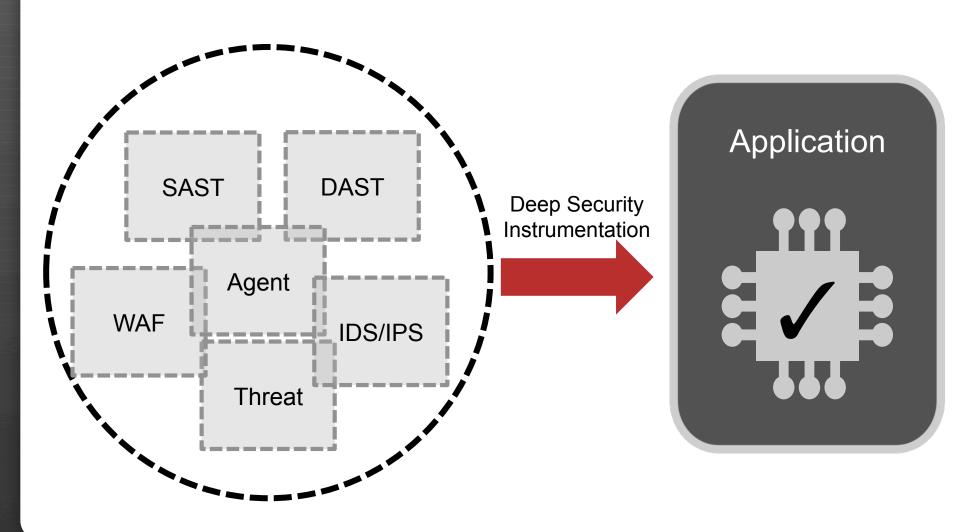
TOMORROW – UNIFIED APPSEC

Development AND Operations



A single appsec technology across the entire lifecycle

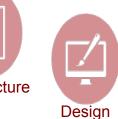
INFUSE SECURITY TECHNOLOGIES INTO APPLICATIONS



EXAMPLE: CODE VULNERABILITIES (SQL INJECTION)



















Generate accurate security architecture diagrams

Provide instant vulnerability feedback

Add security testing to existing test efforts

Identify and block attacks and exploits

EXAMPLE: THIRD PARTY LIBRARIES (SPRING EL INJECTION)

Employee Apps

Third Party
Apps

Public Apps

Cloud Apps "Rogue" Apps











Automatically collect library inventory

Notify projects of library vulnerabilities

Ensure that developers use libraries safely

Shield applications from attacks on known vulnerabilities



"If you have code that's important enough to deploy, it's important enough to instrument"



The world's fastest application security.

