FORRESTER®

The State of Application Security

Sandy Carielli, Principal Analyst, December 10, 2019

industrial internet®
CONSORTIUM

21 Days Until The End Of The Decade

I FEEL THE NEED
THE NEED, FOR SPEED!

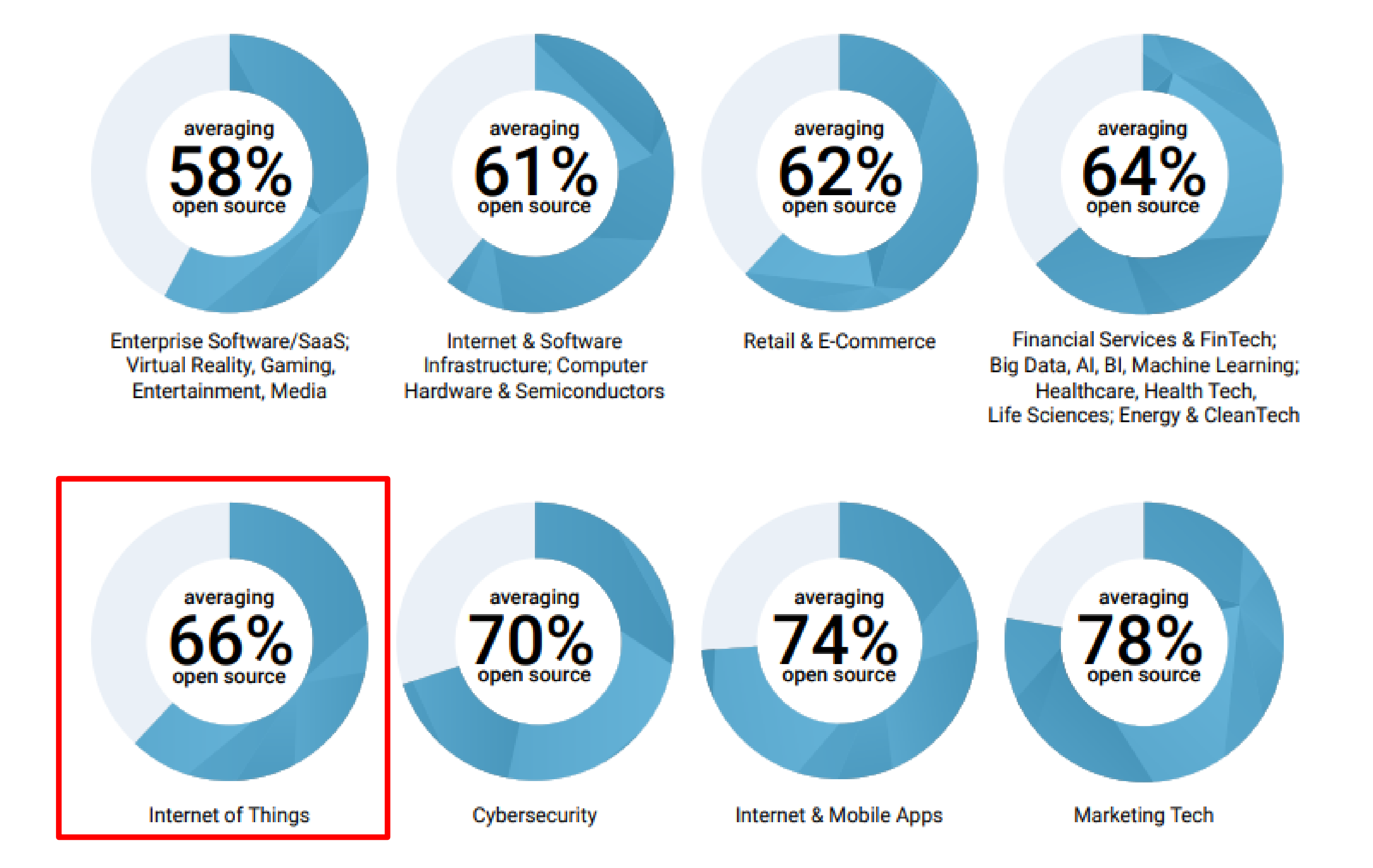
Development Teams Are Moving Faster

In 2018, **27%** of developers indicated that they released monthly or faster. In 2019, the number jumped to **38%**.

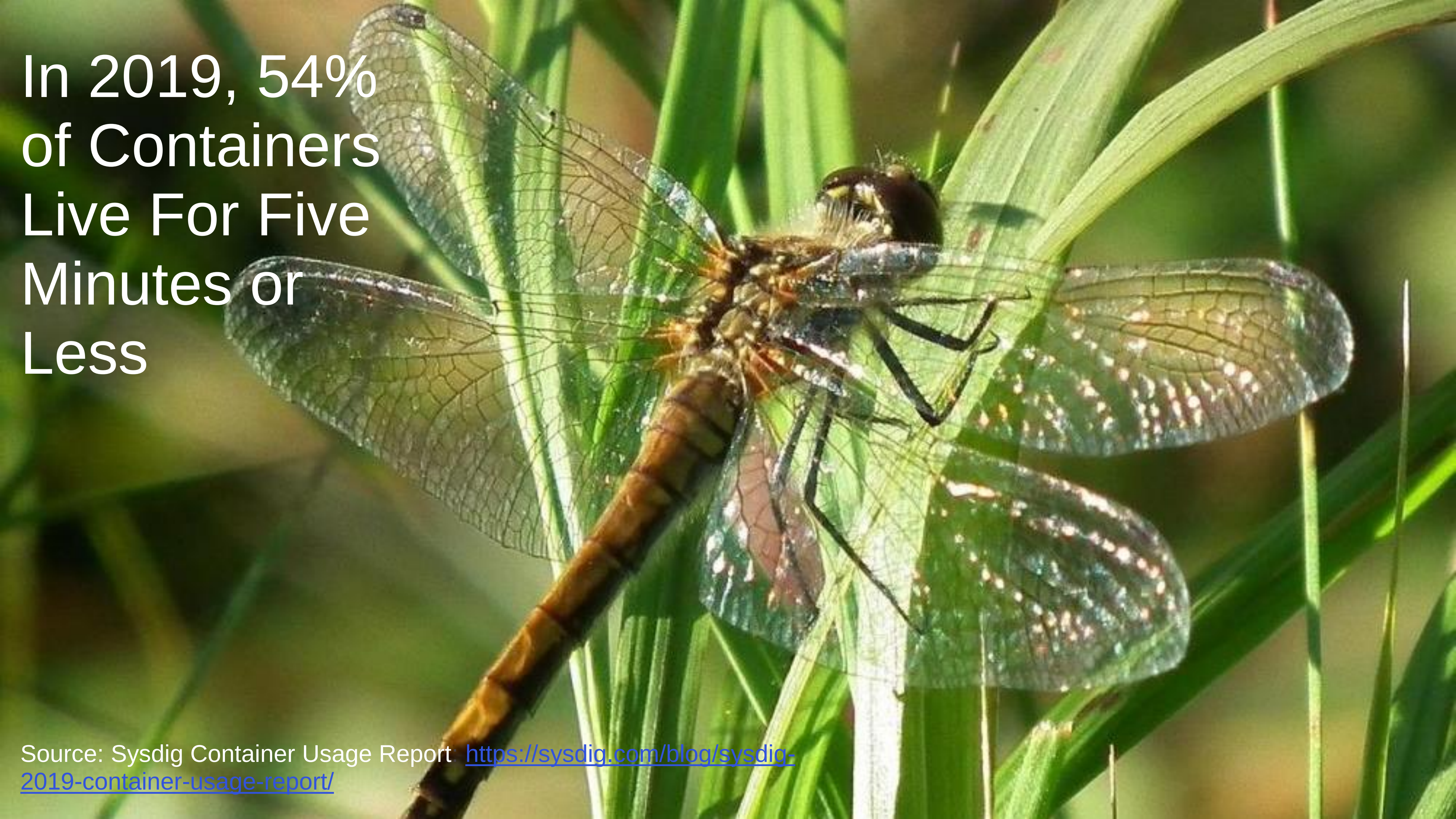
Base: 3,294 Developers
Source: Forrester Business Technographics Global Developer Survey, 2019

Base: 3,228 Developers
Source: Forrester Business Technographics Global Developer Survey, 2018

Yes, Open Source Is Prevalent In IoT



Synopsys: 2019 Open Source Security And Risk Analysis

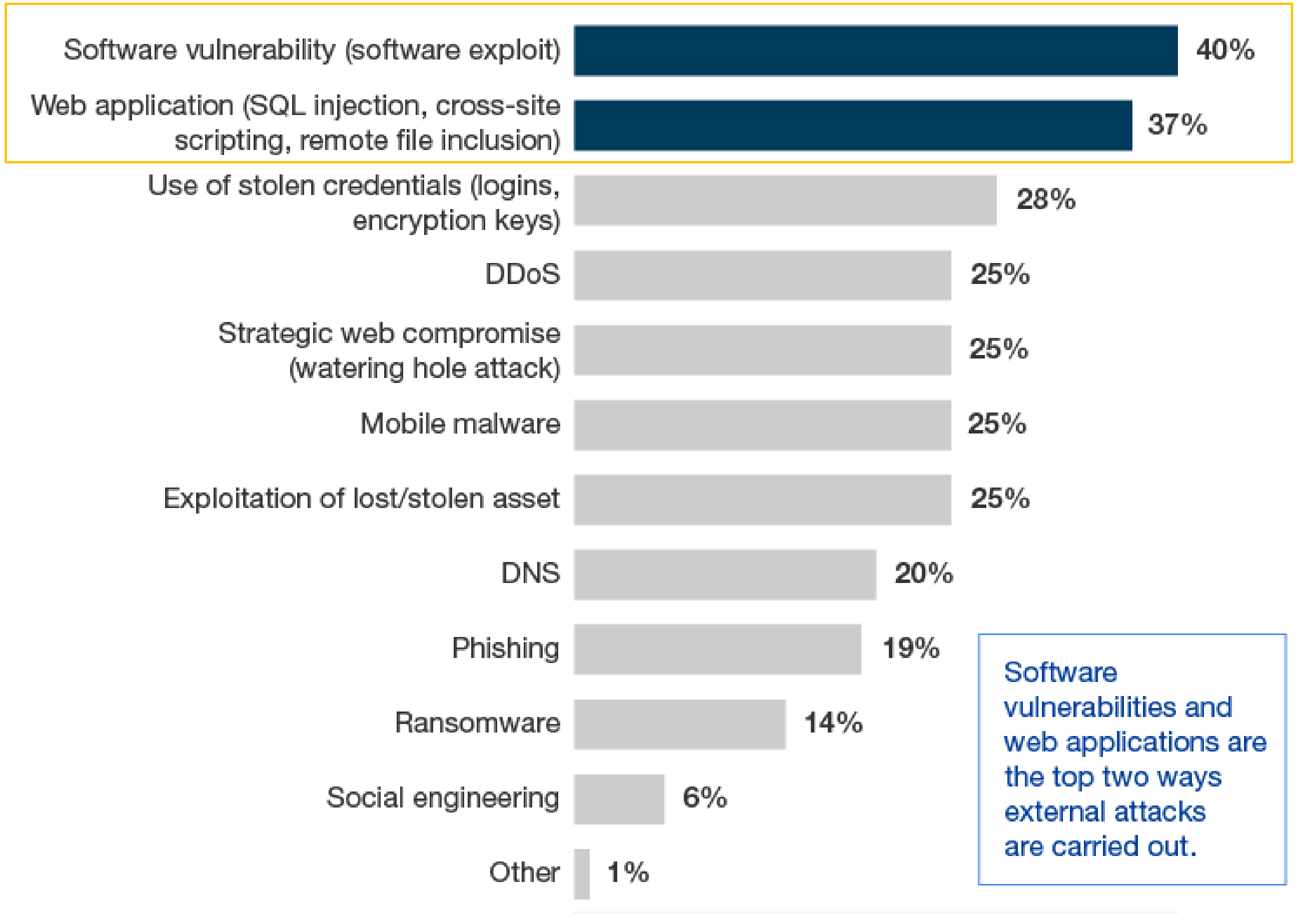


In 2019, 54% of Containers Live For Five Minutes or Less

Source: Sysdig Container Usage Report https://sysdig.com/blog/sysdig-2019-container-usage-report/

33% of firms suffered a breach as a result of an external attack. This is how.

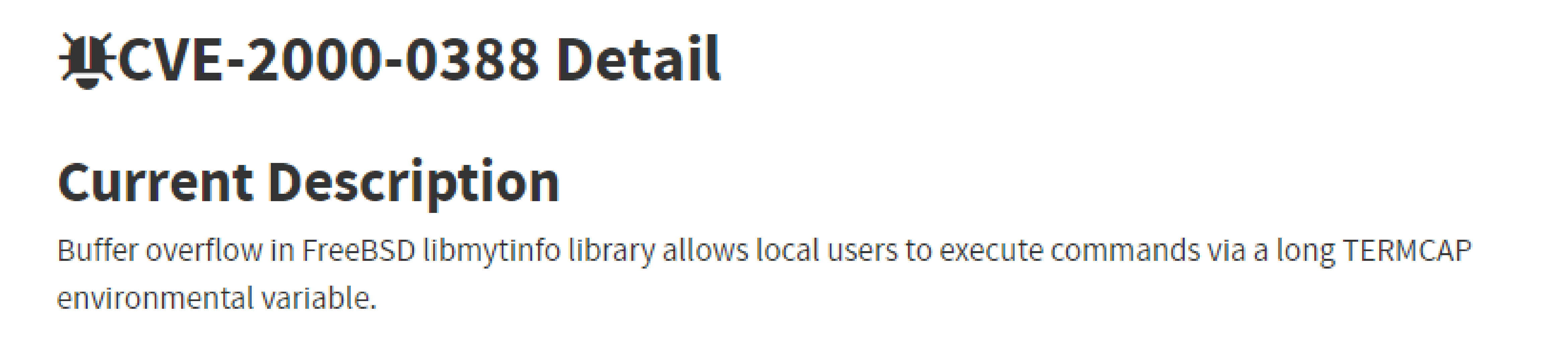
“How was the external attack carried out?”
(Multiple responses accepted)



Software vulnerabilities and web applications are the top two ways external attacks are carried out.

Base: 283 Enterprise global network path security decision makers who experienced an external attack when their company was breached

Sources: Forrester Analytics Global Business Technographics® Security Survey, 2019



CVE-2000-0388 Detail

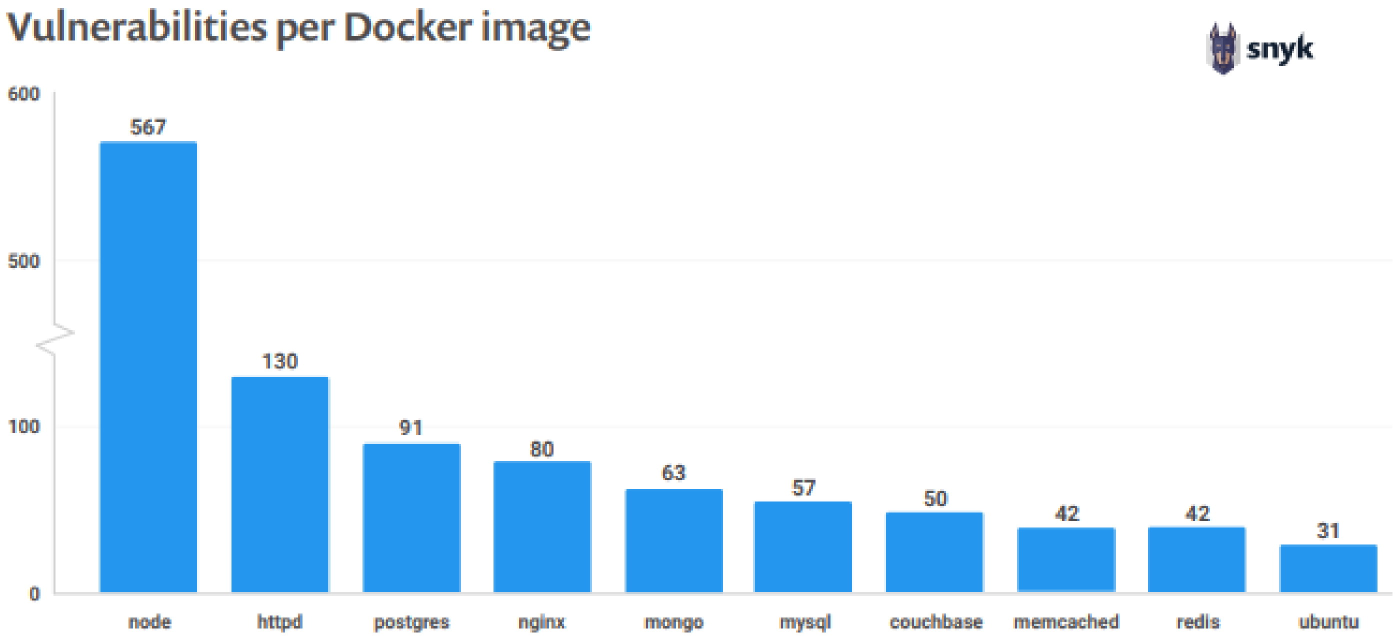
Current Description

Buffer overflow in FreeBSD libmytinfo library allows local users to execute commands via a long TERMCAP environmental variable.

https://nvd.nist.gov/vuln/detail/CVE-2000-0388

Synopsys: 2019 Open Source Security And Risk Analysis

Containers And Images Are Not Immune

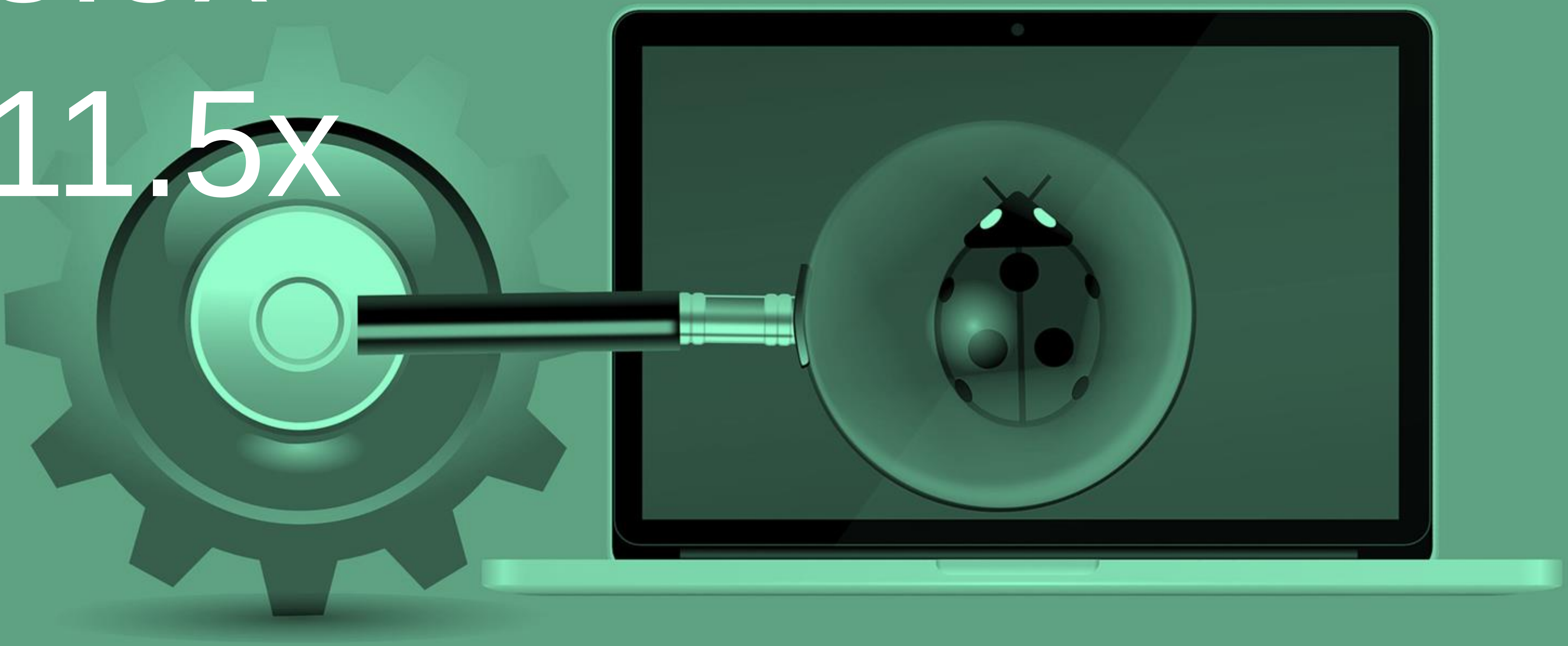


Source: Snyk: Shifting Docker Security Left: https://snyk.io/blog/shifting-docker-security-left/

KEEP
CALM
AND
SHIFT
LEFT
KeepCalmAndPosters.com

3.5x

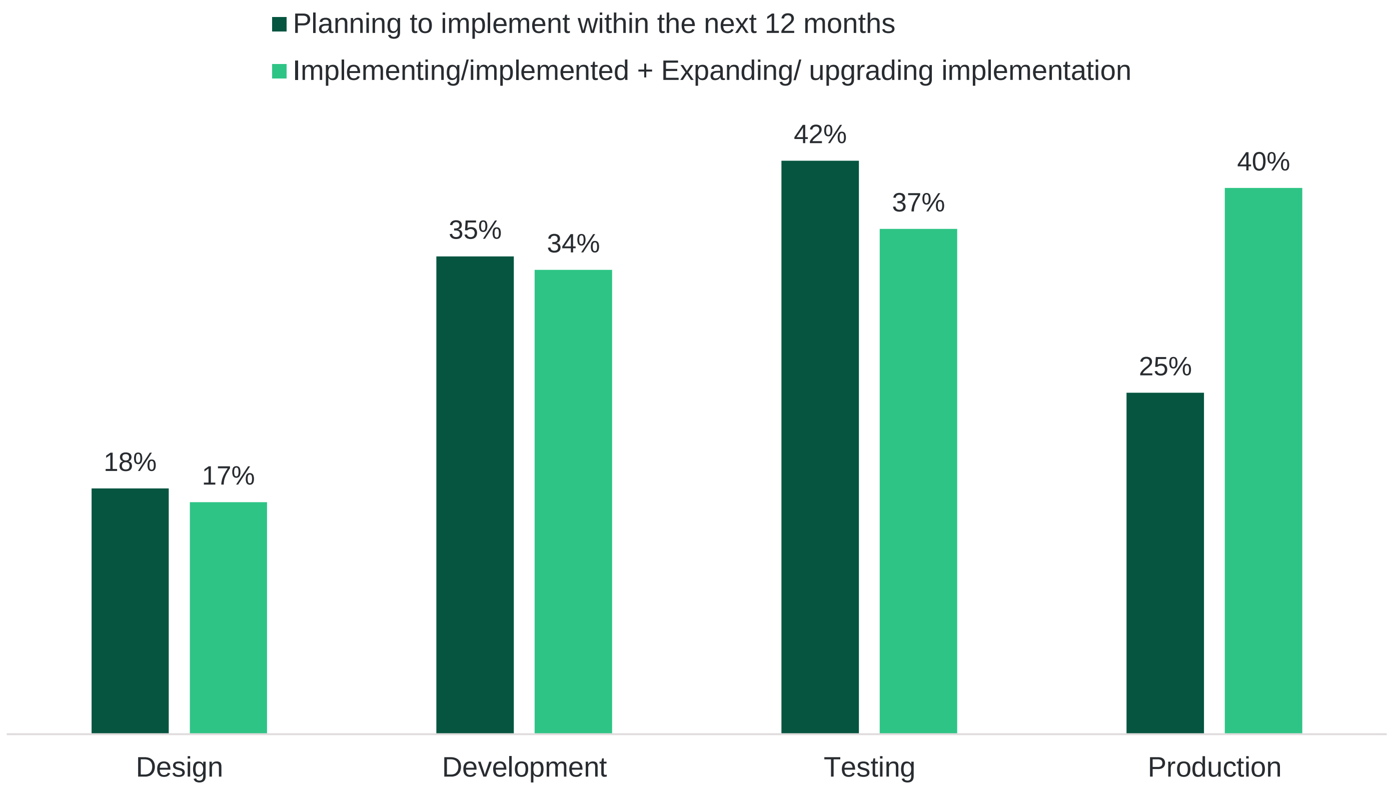
11.5x



Source: "State Of Software Security," Veracode (https://www.veracode.com/state-of-software-security-report).

SAST adoption

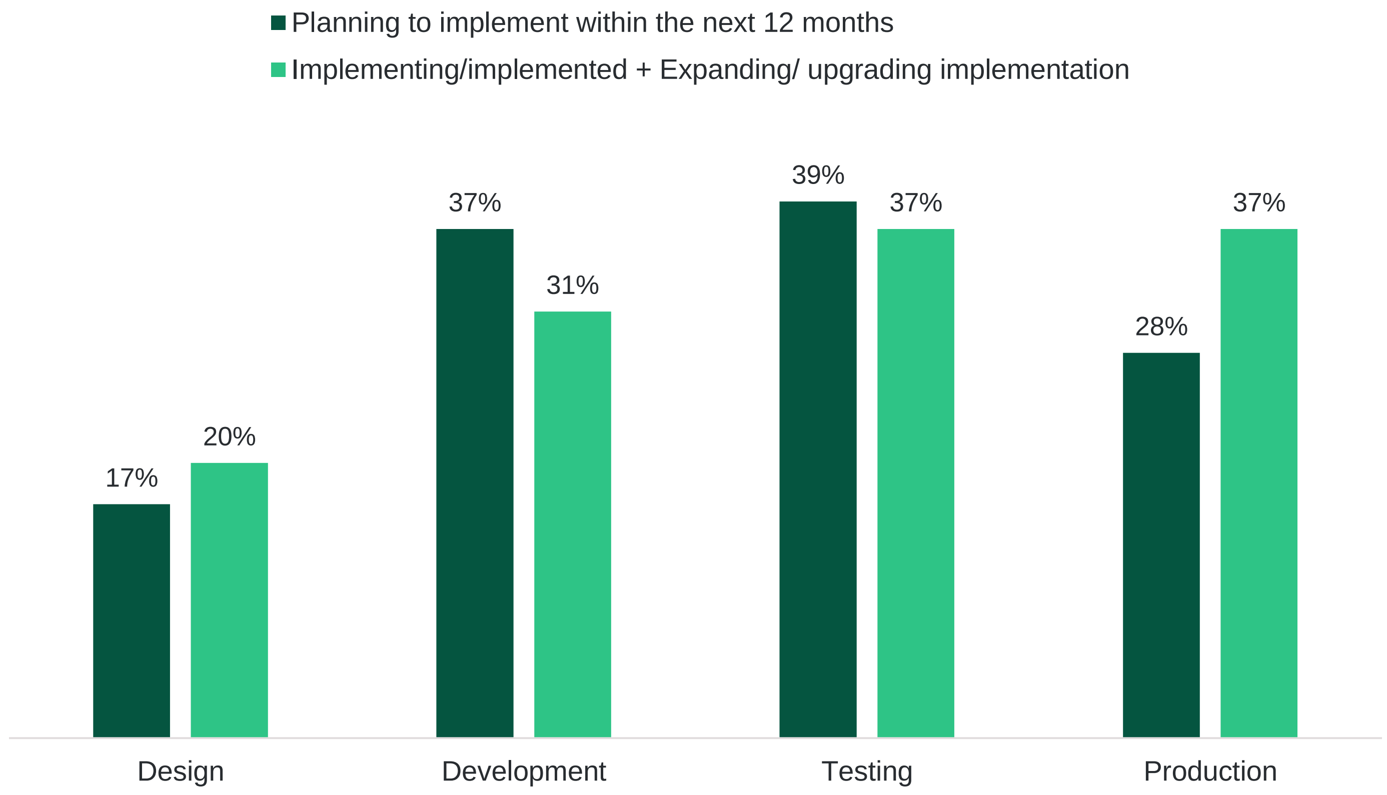
Phase of the SDLC in which SAST is implemented



Base: 1,014 global network path security decision makers who are adopting SAST
Source: Forrester Analytics Global Business Technographics Security Survey, 2019

SCA adoption

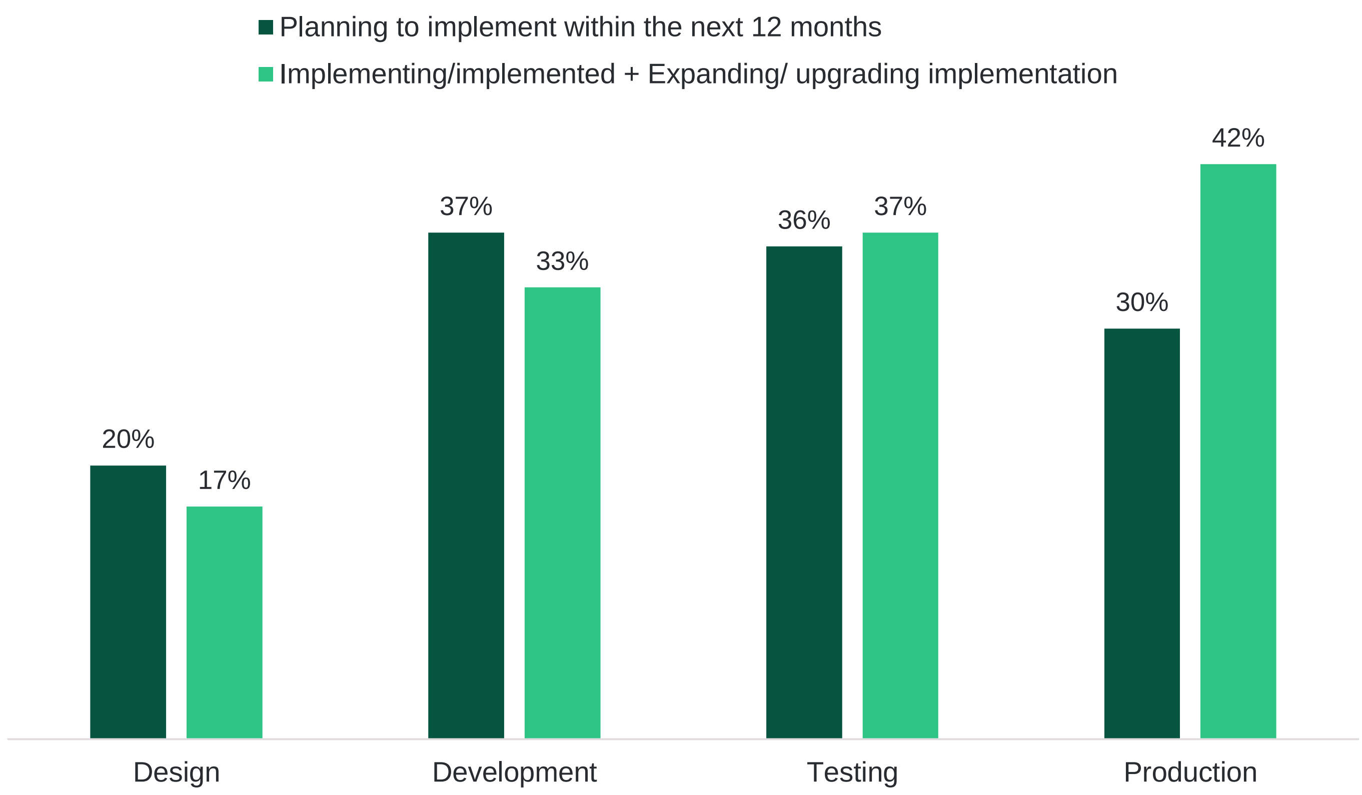
Phase of the SDLC in which SCA is implemented



Base: 1,035 global network path security decision makers who are adopting SCA
Source: Forrester Analytics Global Business Technographics Security Survey, 2019

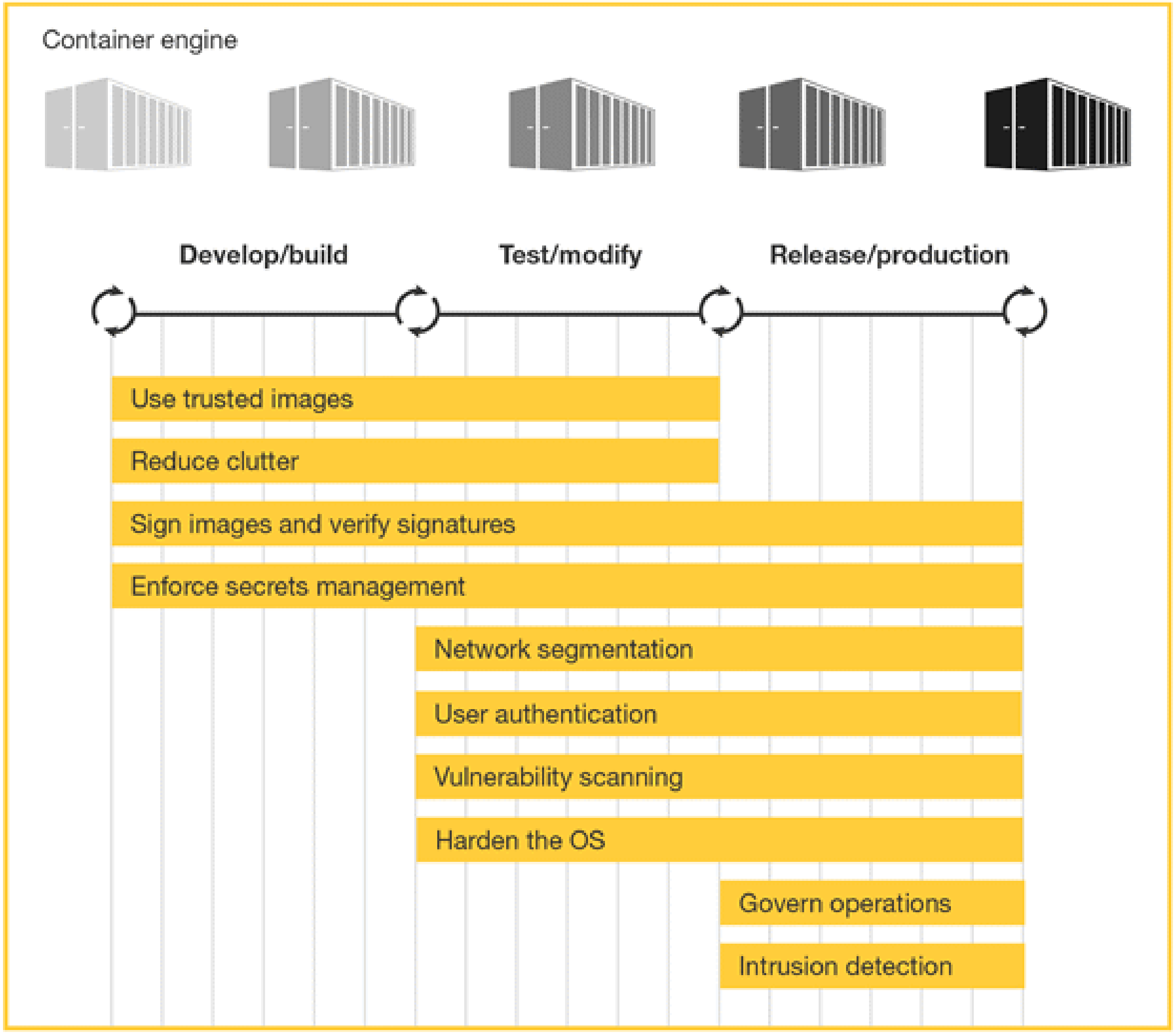
Container Security adoption

Phase of the SDLC in which Container Security is implemented



Base: 1,033 global network path security decision makers who are adopting Container Security
Source: Forrester Analytics Global Business Technographics Security Survey, 2019

10 Steps To Secure Containers In Software Delivery Life Cycle



136406 Source: Forrester Research, Inc. Unauthorized reproduction, citation, or distribution prohibited.

Source: “Ten Basic Steps To Secure Software Containers” Forrester report

Recommendations For Trustworthy IoT

Embrace open source and modern deployment methodologies

Shift left and scan often

Engage development in the security process

Thank You.

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