

SANS

NEW2CYBER

Summit 2022

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March 23–24 | Live Online




Why SecDevOps is the new way in Cybersecurity?



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- Cybersecurity Enthusiast
- Data Engineer - Macquarie Group
- Management Lead/Vice Chair of Board - BBWIC Foundation
- Committee member - OWASP WIA
- Volunteer Instructor - CyberPreserve
- Global Member - WiCyS
- Women In Cloud - Advisor and Ambassador

AGENDA

 What are the components?

 Different types of Culture (placements)


 DevOps -> DevSecOps Culture

 CI/CD Pipeline

 Why it is important to secure Development Environments?

 Parts of SecDevOps

 Where SECURITY comes in?

 Benefits of SecDevOps





Development



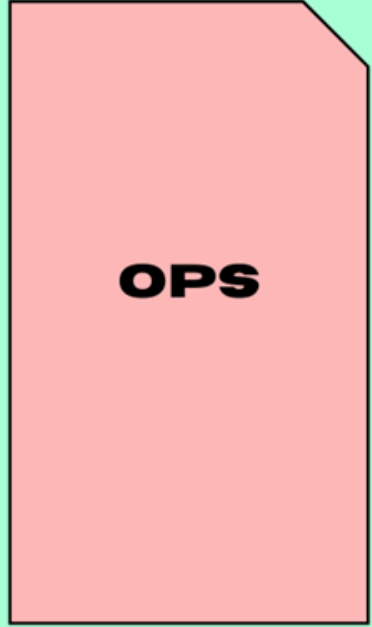
Security

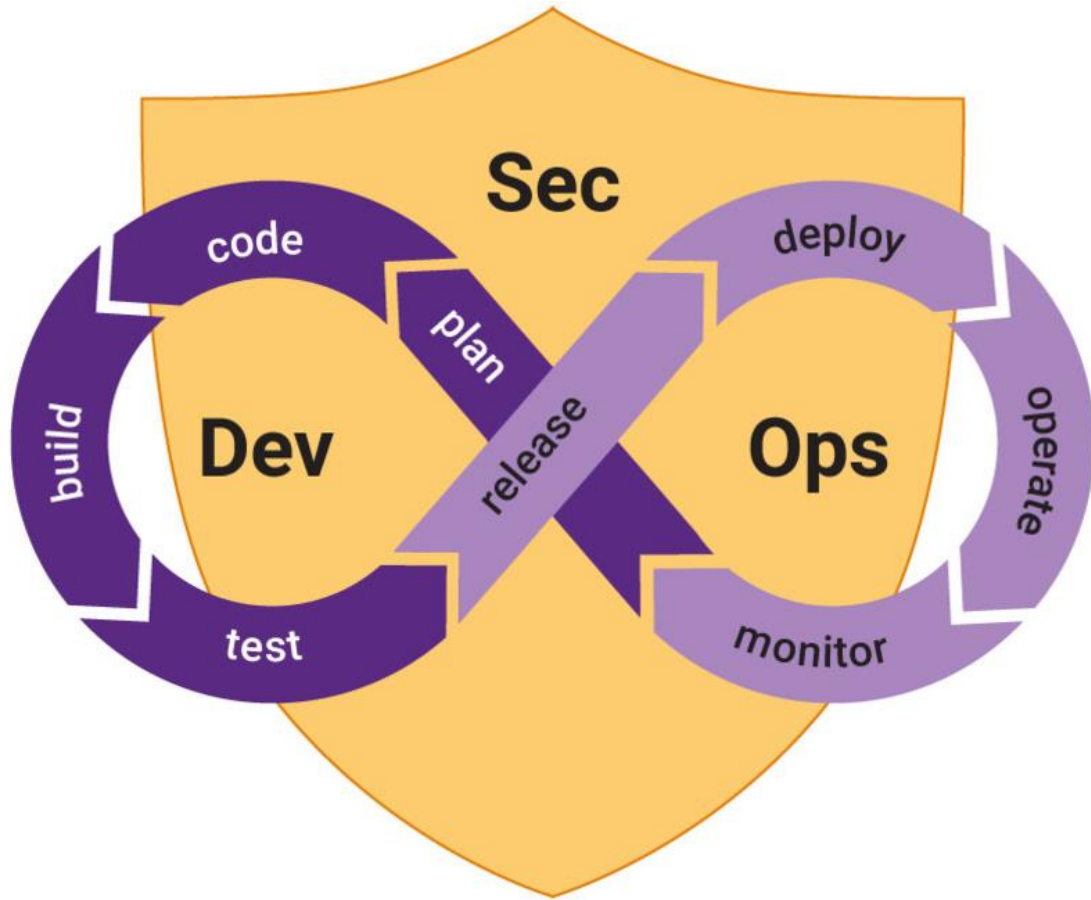


Operations







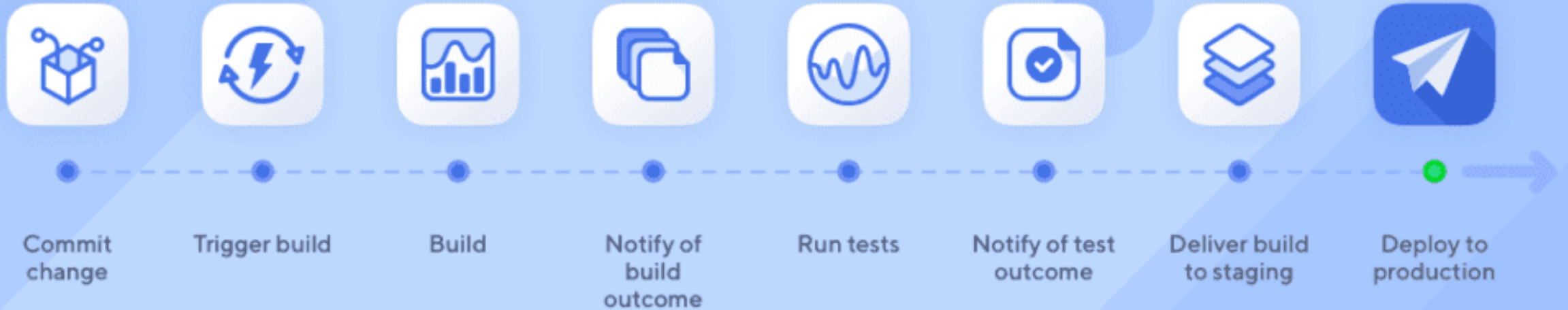


DevOps



DevSecOps

CI/CD PIPELINE



But where are SECURITY Tests???

Cybercrime To Cost The World \$10.5 Trillion Annually By 2025

Robinhood hack: data of seven million investors stolen by threat actors

Puma hit by data breach following Kronos ransomware attacks, information of about half of its employees stolen

Apple Hurries Patches for Safari Bugs Under Active Attack



Viewpoint by iV4

Cybersecurity issues on the rise in global coronavirus pandemic



Why it is important to secure Development Environments?





Developers use Privileged access to write, test, provision the codes



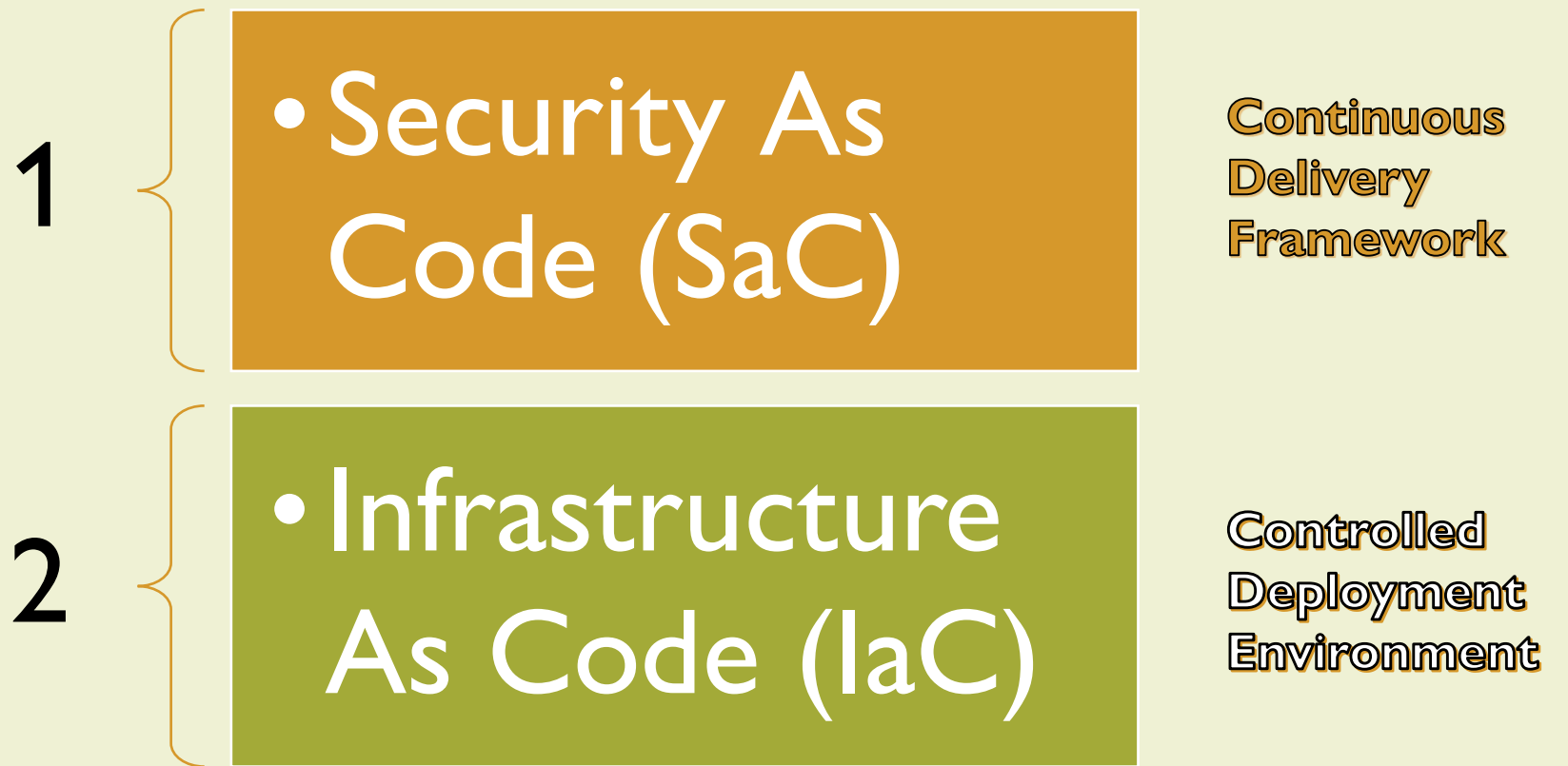
Google has registered
2,145,013 phishing sites as
of Jan 17, 2021.

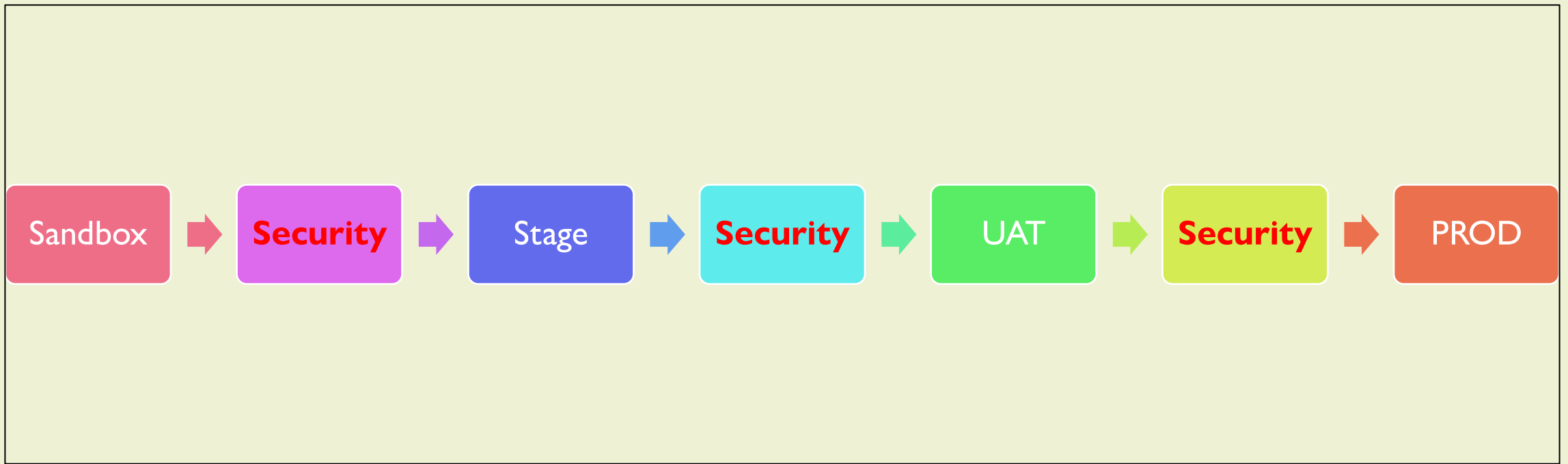


kubernetes

Containerized Applications
use credentials to access
Enterprise Data

2 Distinct parts of SecDevOps:





CAUSES

1. Vulnerable/Outdated third party libraries
2. Sensitive data leaked
3. Vulnerable docker based images
4. Licensing issues

Benefits of SecDevOps

Proficient Team

More Production Releases

Early identification of vulnerabilities

Automation

**Making Security
most Important
as part of the
DevOps Culture**

The Google logo, consisting of the word "Google" in its characteristic multi-colored font (blue, red, yellow, blue, green, red).The Netflix logo, featuring the word "NETFLIX" in a bold, red, sans-serif font, centered within a black rectangular background.



SECURITY is not a **PRODUCT**
but a **PROCESS.**

- Bruce Schneier

References

1. <https://www.altexsoft.com/blog/what-is-secdevops/>
2. <https://techbeacon.com/security/how-devsecops-enables-high-velocity-digital-transformation>

Any questions?

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THANK

YOU !