



DevSecOps для современных приложений

Подходы и процессы

Михаил Кадер, инженер

mkader@cisco.com

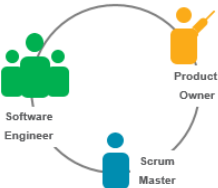
2 июня 2021

Cisco IT Transformation Journey

Architecture Led:
Services Orientated

Scaled Agile
Maturity

"We Develop, We Secure & We Operate"



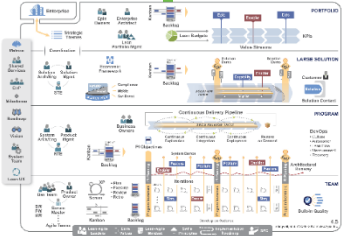
2007

2017

2019

Pervasive Agile
Mindset

DevSecOps



DevSecOps

“Empowered development team takes full ownership of how their application behaves in production including security”



DevSecOps is all about to get development teams to make certain mindset shifts and adopt security practices into their daily activities which requires healthy collaboration and mutual trust between development and security teams.



Some fundamental thoughts

“Mindset & Cultural Shift ”

How well you actually know what you are talking about ? (Credibility)

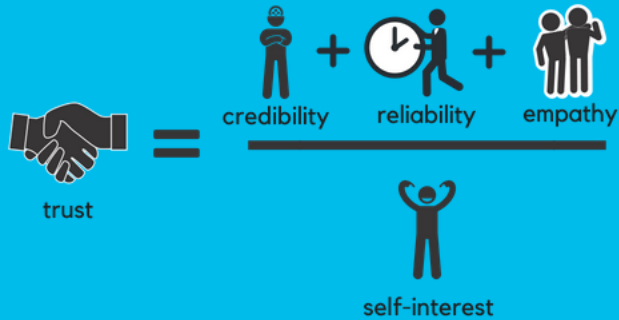
How often and quickly do you do what you say ? (Reliability)

How much you show that you care about someone else's interests ? (Empathy)

How apparent it is that your words and actions are in your own interest ? (Self-interest)

How much trust you have with each other ? (Trust)

DevSecOps via Trust & Empowerment



DSO Core
Team
Formation

Workshops
with IT
Service
Owners and
commitments

Consolidation
of models,
Enabling or
facilitating
capabilities,
filling gaps

Transformation
& Measurement

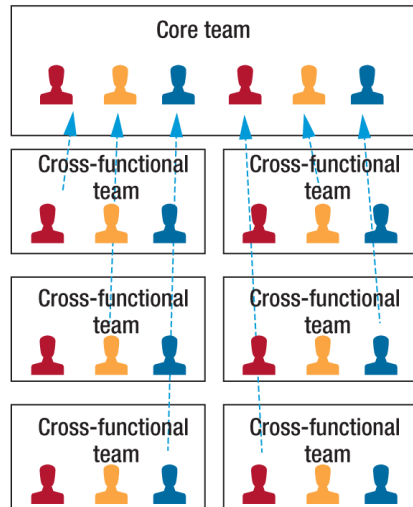
The DevSecOps Core team act as enabler and advisors, to make sure the development team has all the information necessary to make empowered decisions while trusting them for decision towards “the right thing” and help baking security via automated enabled security tools and process to their SDLC with the speed of business.

Cisco IT Transformation towards DevSecOps

"DevSecOps is cultural movement that furthers the movement of Agile and DevOps into Security"



(a)



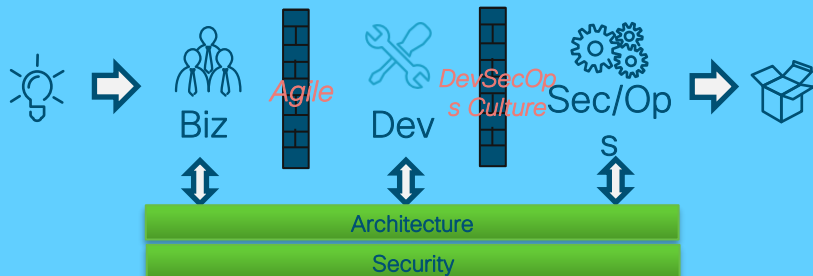
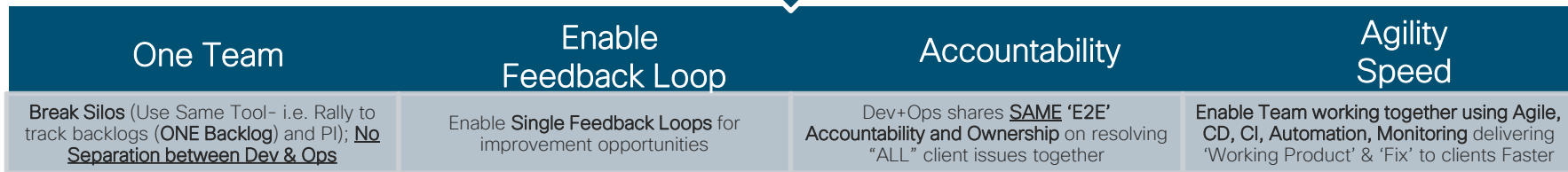
(b)



DevSecOps

DevSecOps mantra:
Start small & Build; Measure; Learn

Leadership & management commitment
to drive transformation is required



Outcome

- ✓ Security
- ✓ Break Down Silos
- ✓ Faster time to Release Product
- ✓ Improved Quality
- ✓ Operational stability
- ✓ Experience

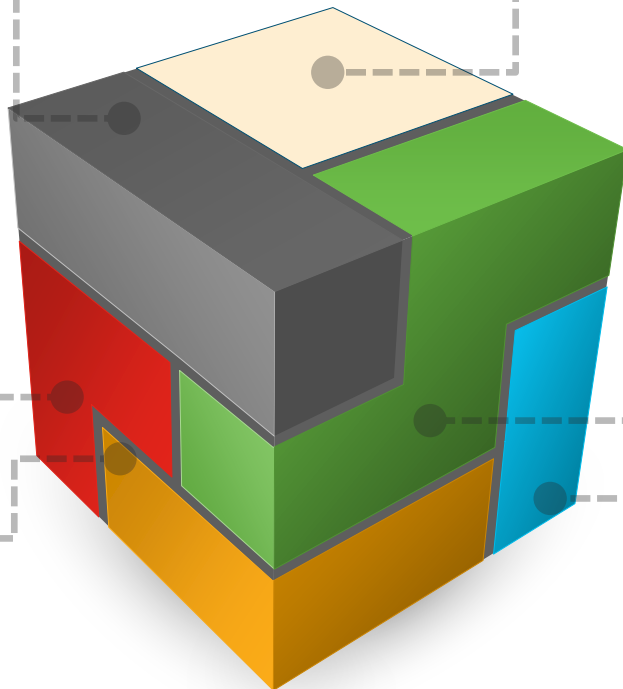
DevSecOps Cisco IT Focus Areas



Leadership Support in
People/Workforce
Culture Transformation

Agile Methodology

Enable Security in
Architecture, Code,
and Operations

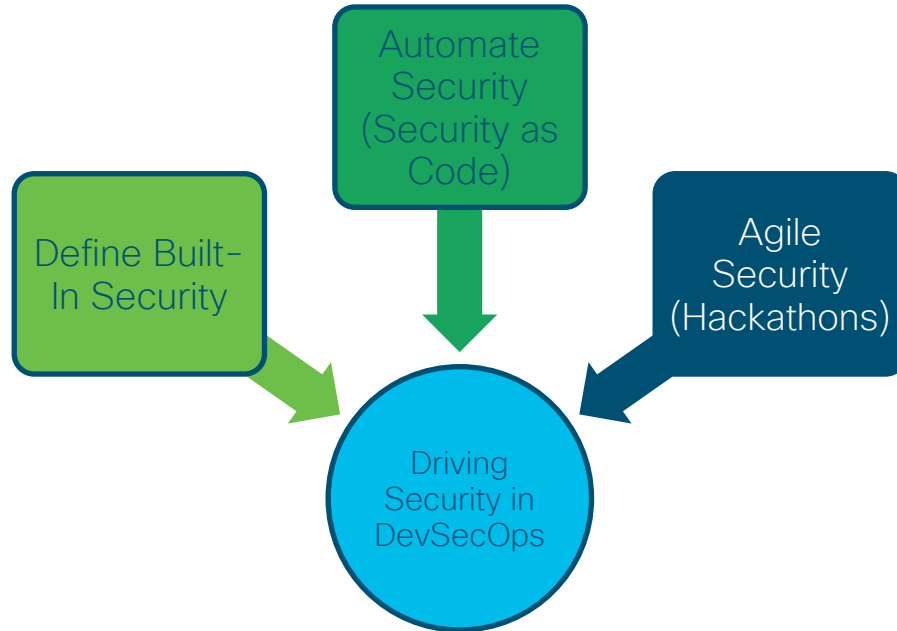


Enable Automation
Everywhere-
Automated Testing,
Deployment

Use DevOps Tools,
Continuous Delivery(CD) &
Continuous Integration(CI)
Toolset- Docker, Git, Jenkins,
Puppet etc...

Enable E2E
Monitoring- AppD,
Splunk etc

How we are driving Security in DevSecOps



Continuous Security Buddy

Why Security is different in DevSecOps



“Security in DevSecOps is all about built-in security instead of standalone function as a perimeter around data and apps”

Build Security In more than bolt it on

Rely on empowered development Teams more than security specialists

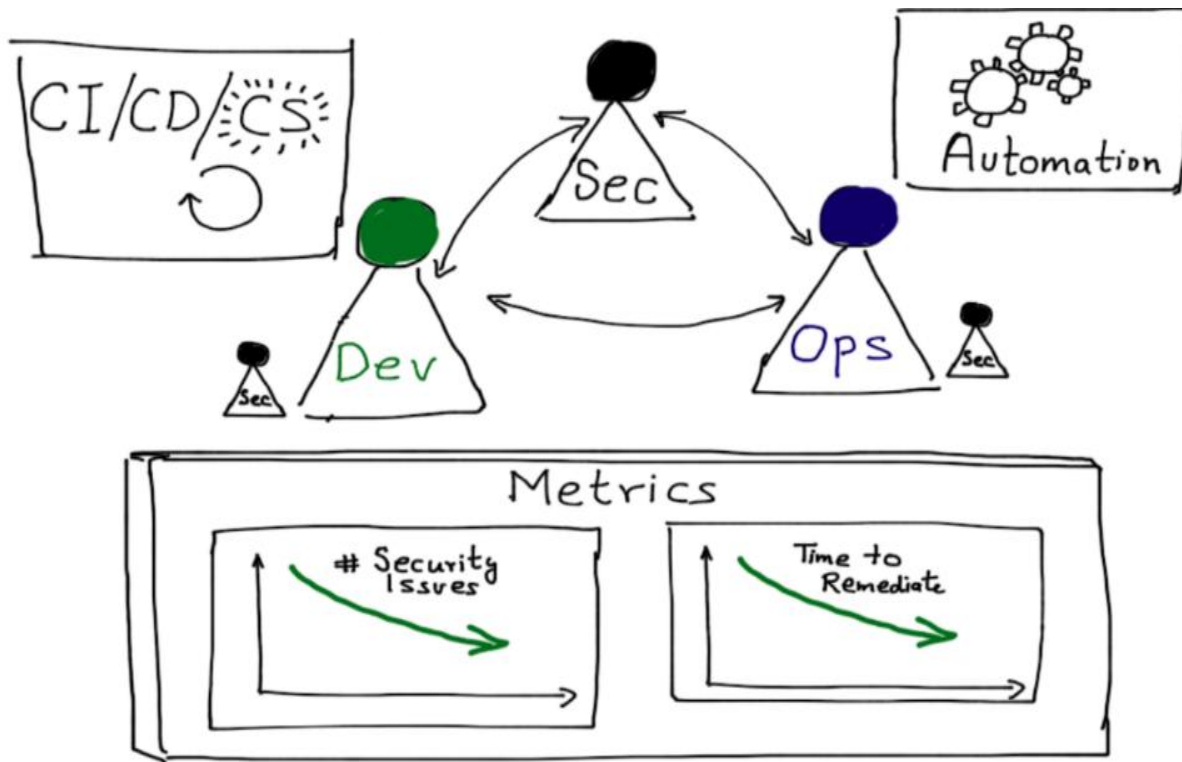
Implement Features securely more than security features

Rely on continuous learning more than end-of-phase gates

Build on culture change more than policy enforcement



Security in DevSecOps



DevSecOps: Embed Security

Security in DevSecOps

Security bridges
Dev & Ops

Automation in
Scale

Promotes Self-
Service

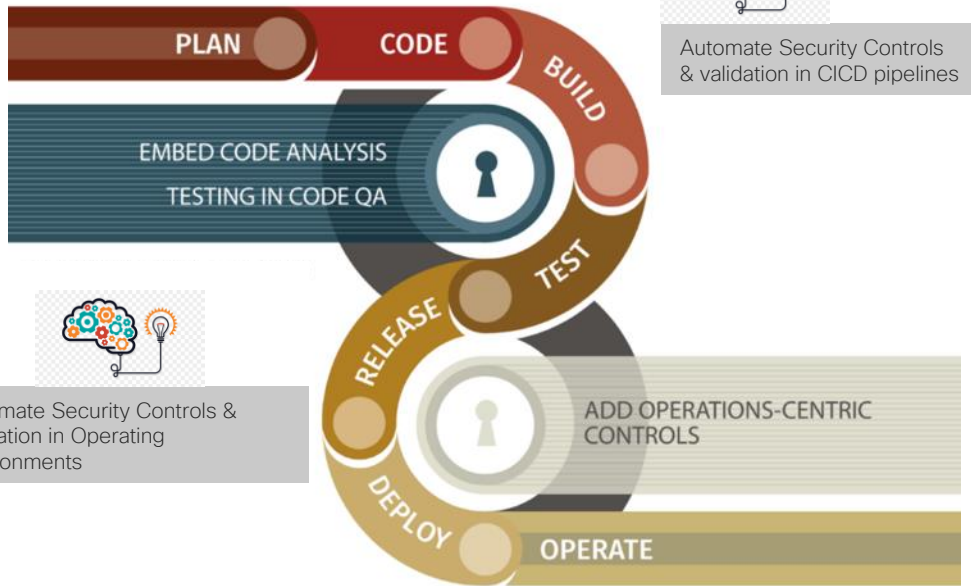
Trust & Verify

Value Add Real
Time Metrics

DevSecOps: Security Implementation as Code



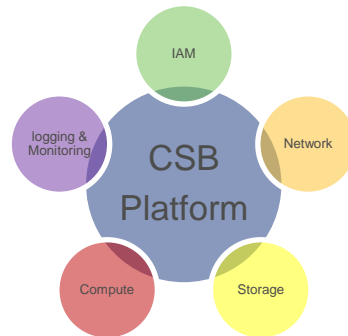
Continuous Security Buddy (CSB)



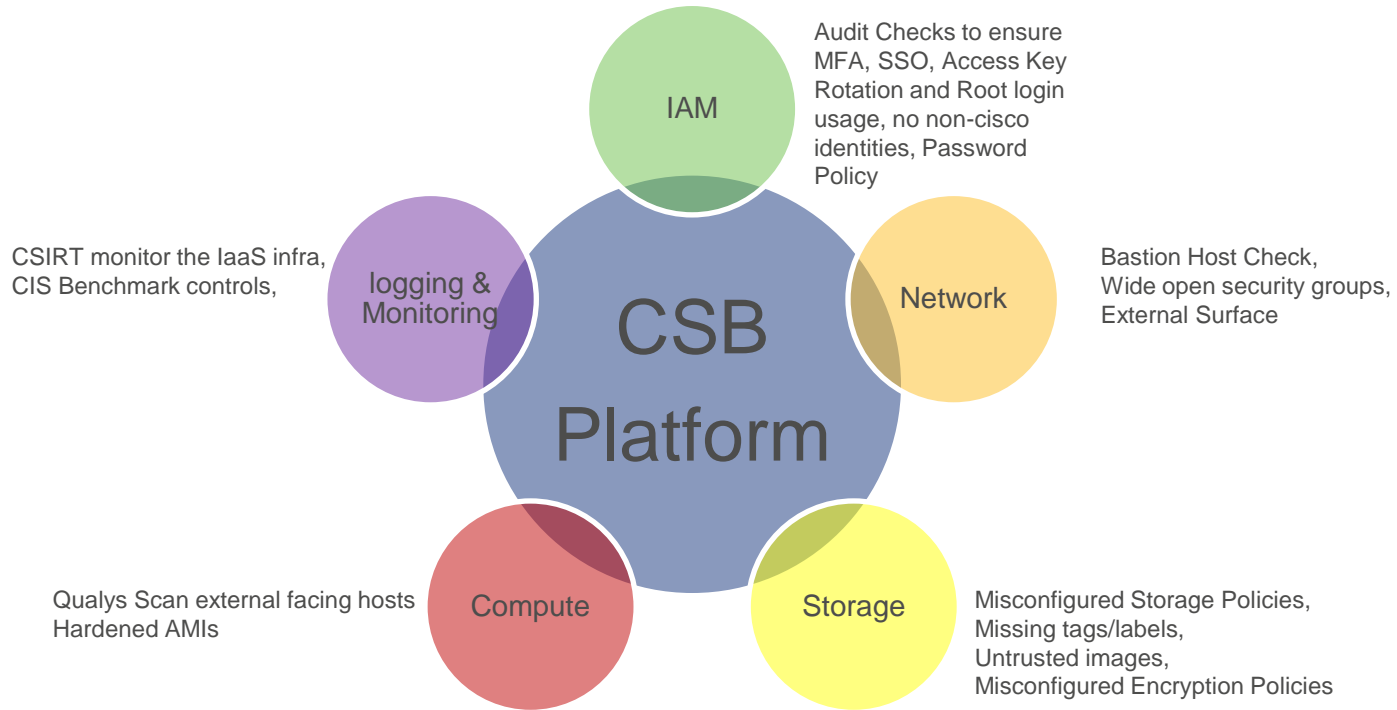
CSB: Pipeline Edition



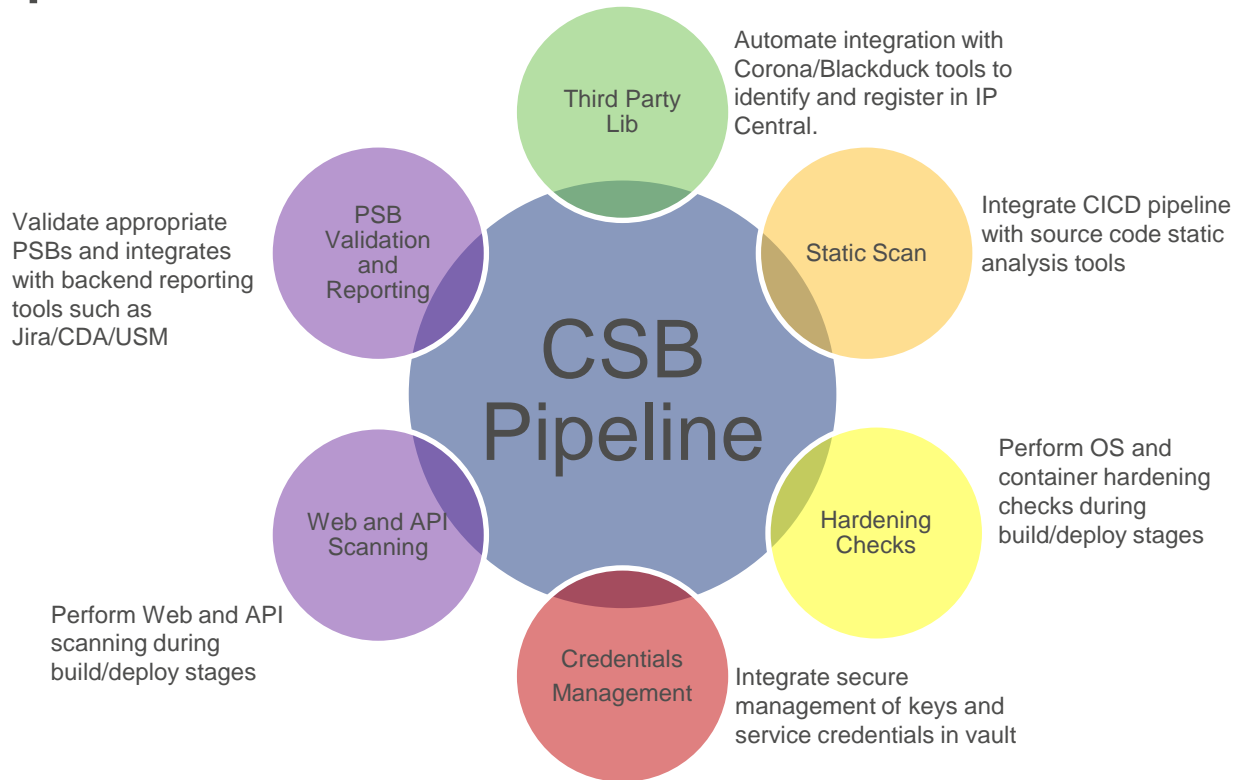
CSB: Platform Edition



Continuous Security Buddy (CSB) Platform edition

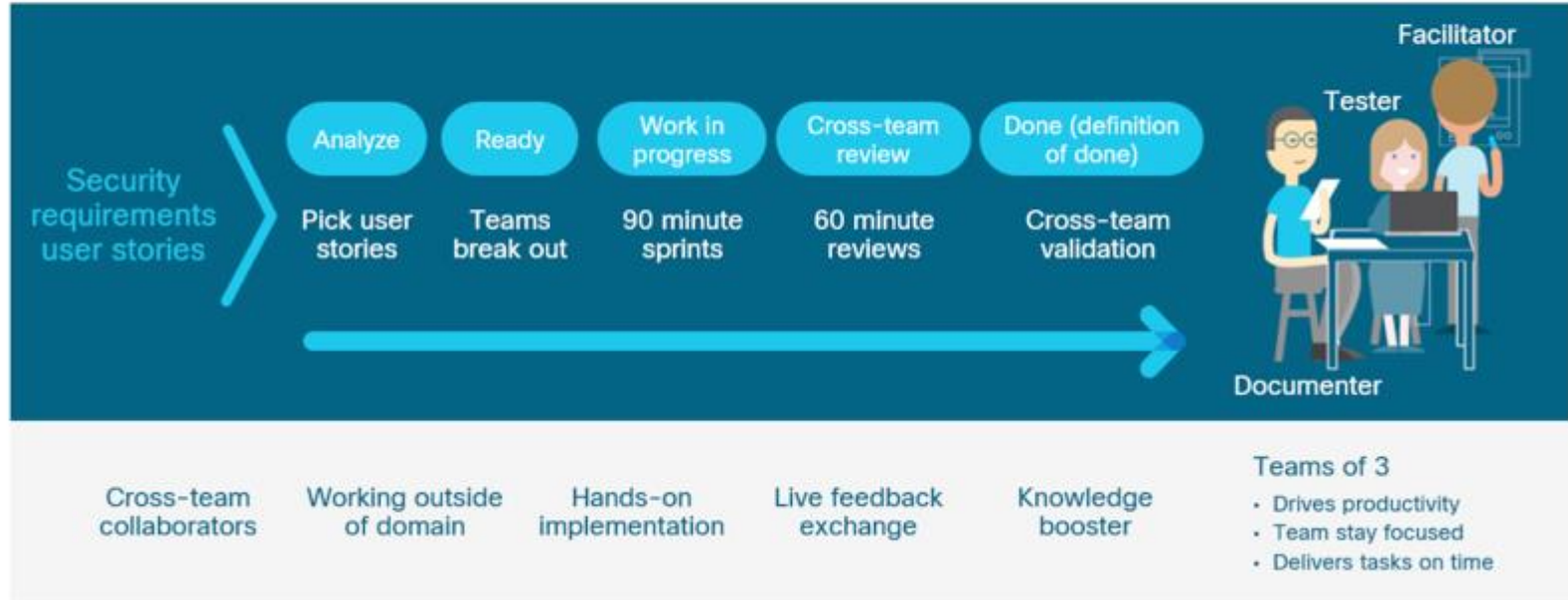


CSB Pipeline Edition

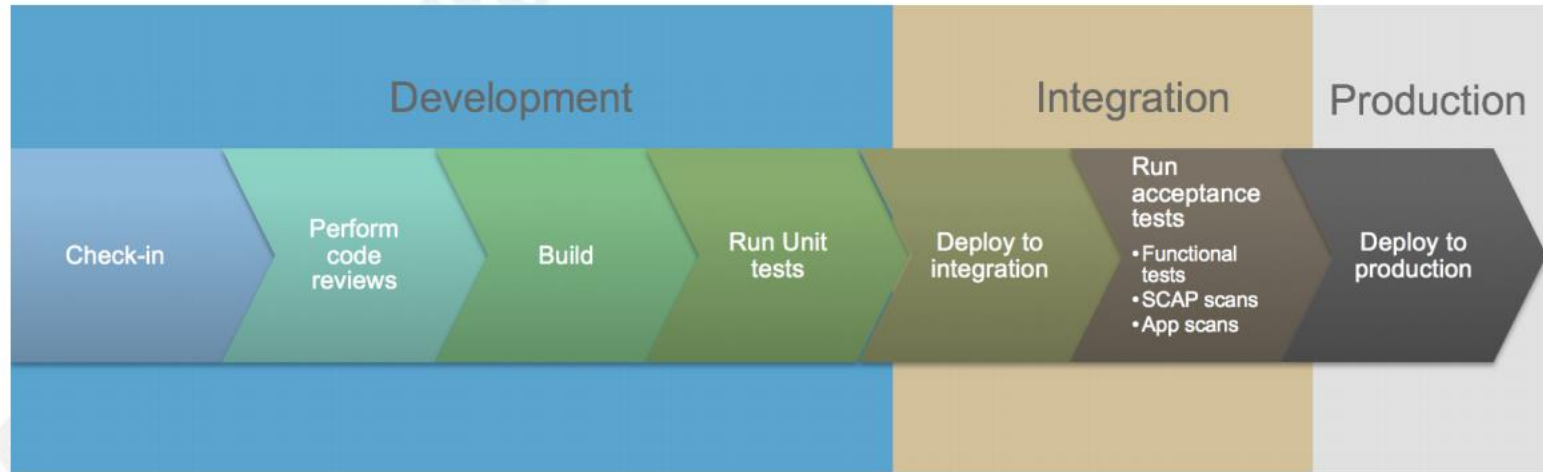


Agile Hackathons (Security)

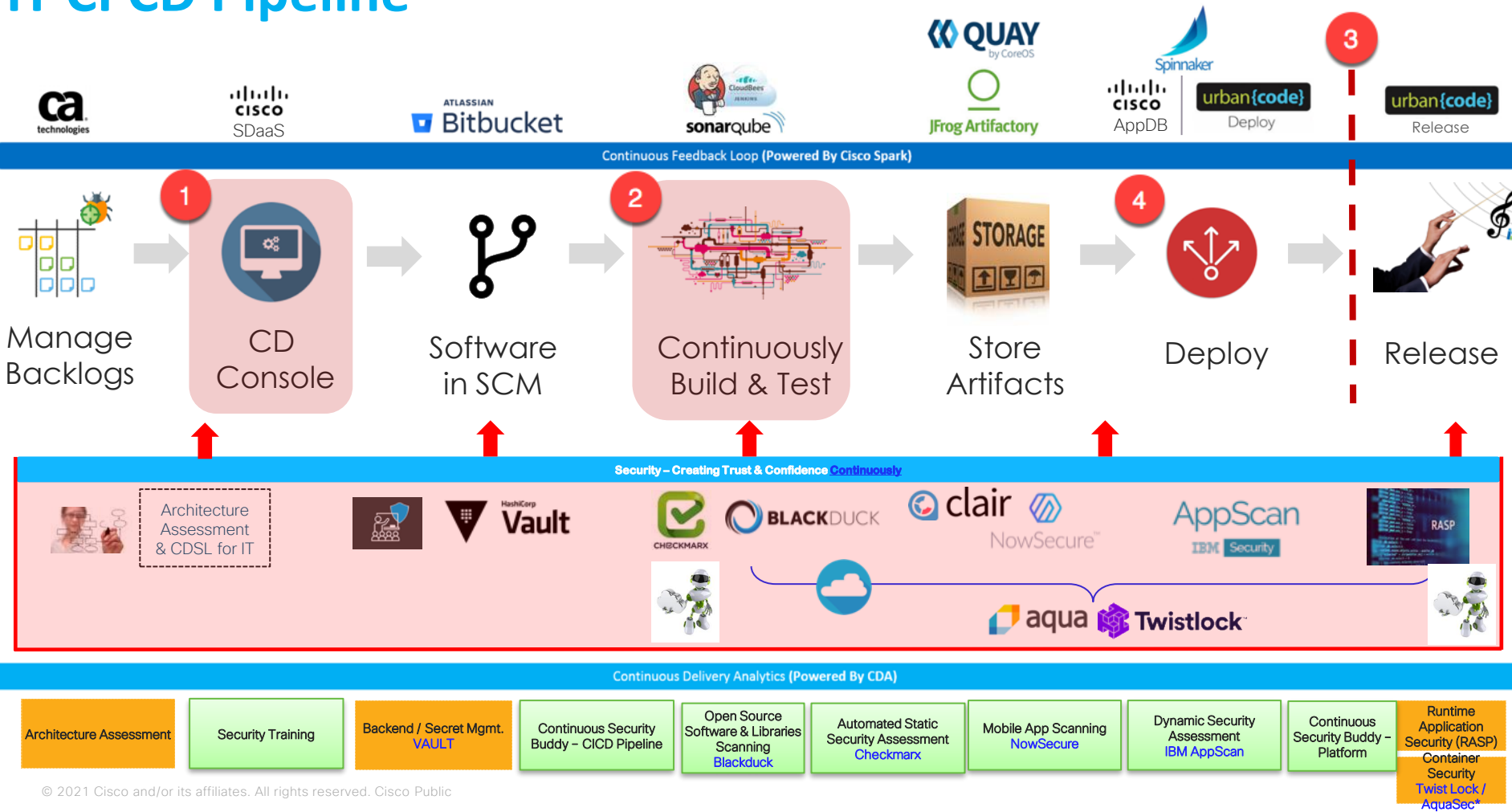
Agile Hackathon: Testing real use cases



Security Testing and Continuous Deployment



IT CI CD Pipeline



DevSecOps Business Outcome



Вопросы?

