

OWASP Projects and Tools to Secure Your SDLC

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OWASP NZ | JULY 23



Me



Raafey Khan

Application Security | CyberCX

Why?

OWASP is great



Too many
things



Guidance often
talks about what
not how



Everyone solves
"DevSecOps" now?

Why?

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Approach



Define the tools
/ processes
needed



Find **OWASP projects** to meet
each requirement

Find **OWASP endorsed projects** to meet
each requirement

Find **open-source projects** to meet
each requirement



(Later)

Test and build a
program using these
projects

Approach

1

Define the tools
/ processes
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2

Find **OWASP
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Find **OWASP
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(Later)

Test and build a
program using these
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1. Define the Tools / Processes

The Secure SDLC

Govern

Design

Requirements
definition

Architecture design

Build

Development

Deploy & Verify

Testing &
Integration

Deployment

Monitor / Protect

Dev/Test/Prod Environments

Collaboration and work tracking

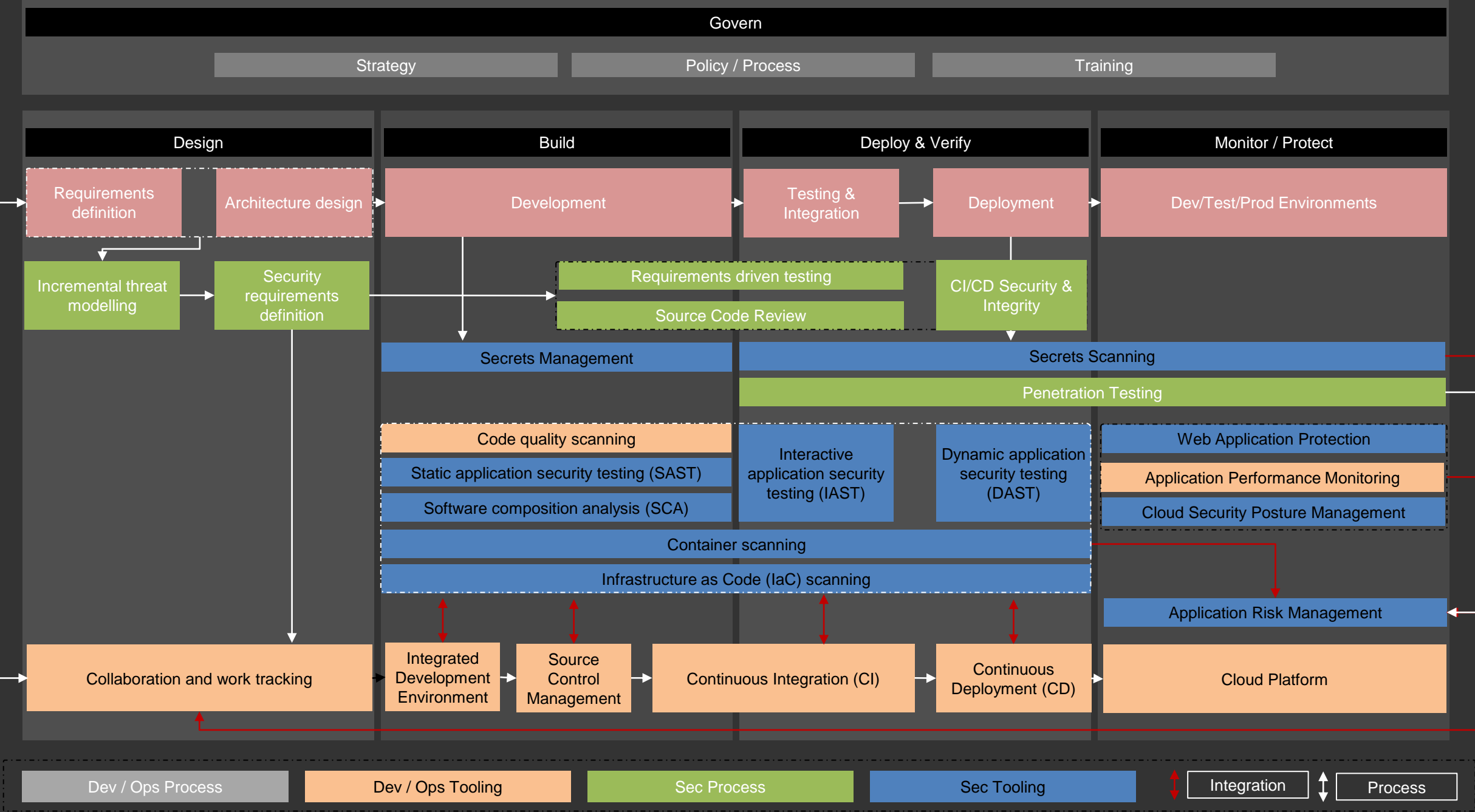
Integrated
Development
Environment

Source
Control
Management

Continuous Integration

Continuous
Deployment

Platform



Govern

Govern

Strategy

Policy / Process

Training

Govern

Strategy

Policy / Process

Training



Security Champions playbook



OWASP Secure Coding Practices
Quick Reference Guide

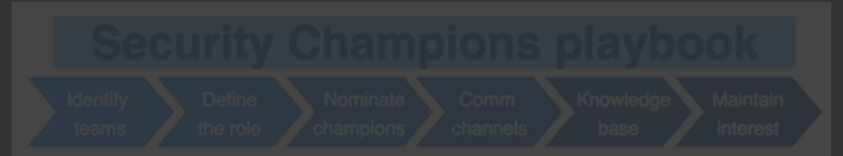
OWASP Cheat Sheet Series

Govern

Strategy

Policy / Process

Training



**OWASP Secure Coding Practices
Quick Reference Guide**

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Security Champions playbook



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Juice Shop

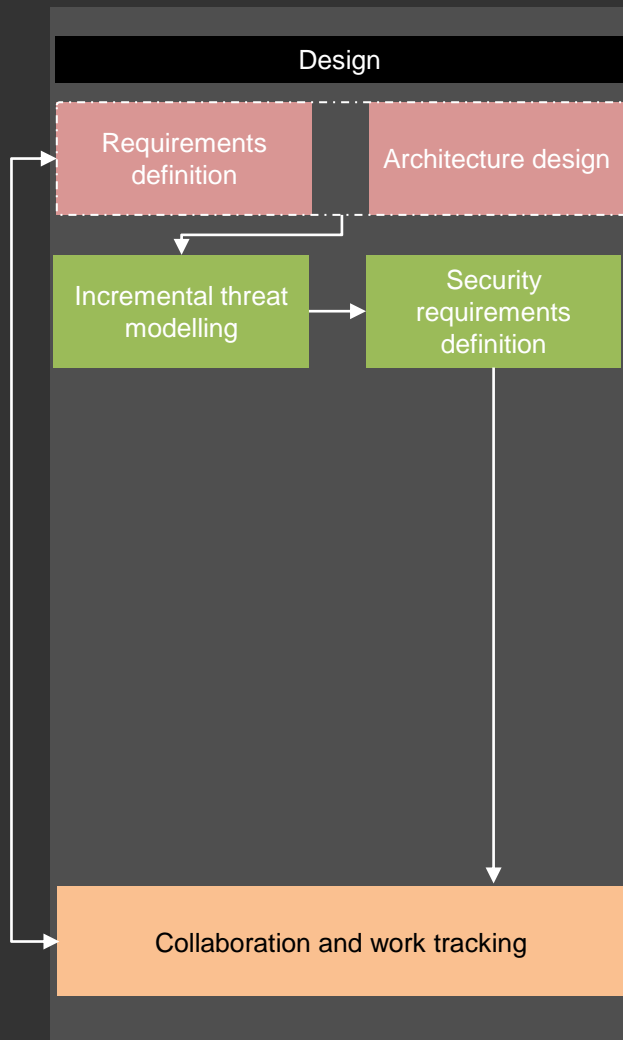


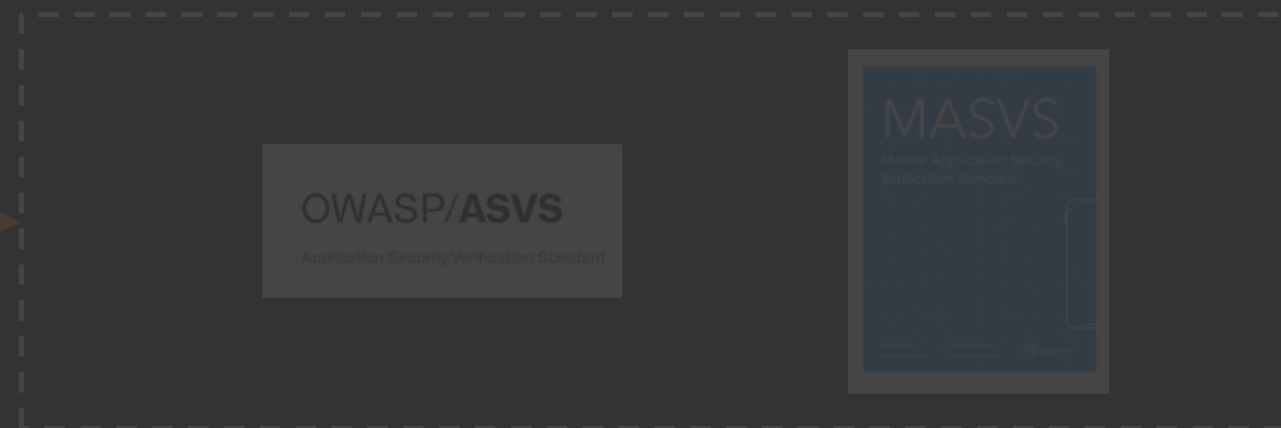
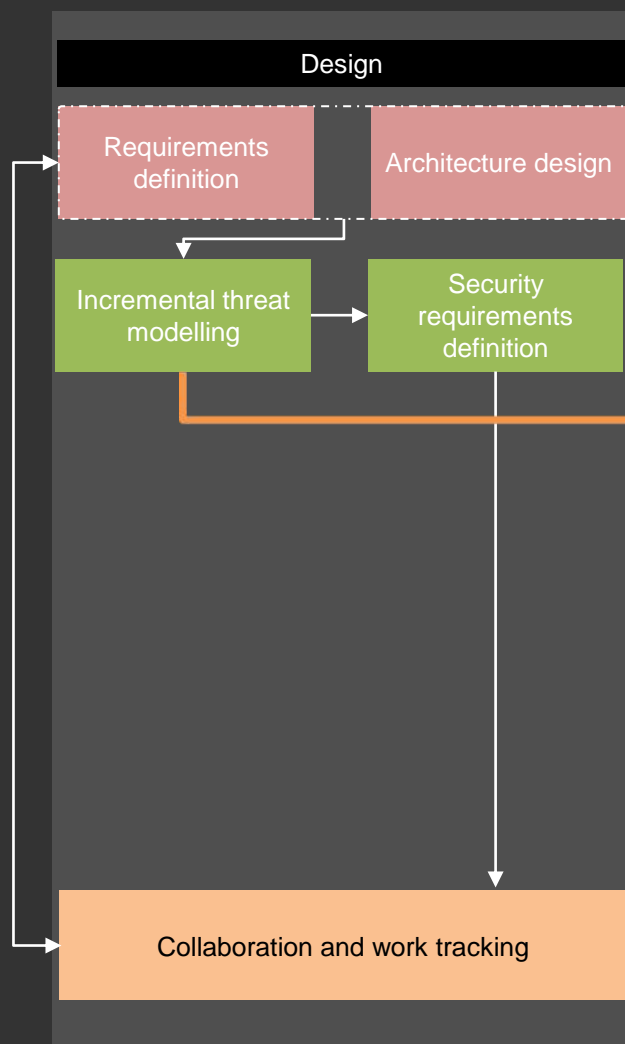
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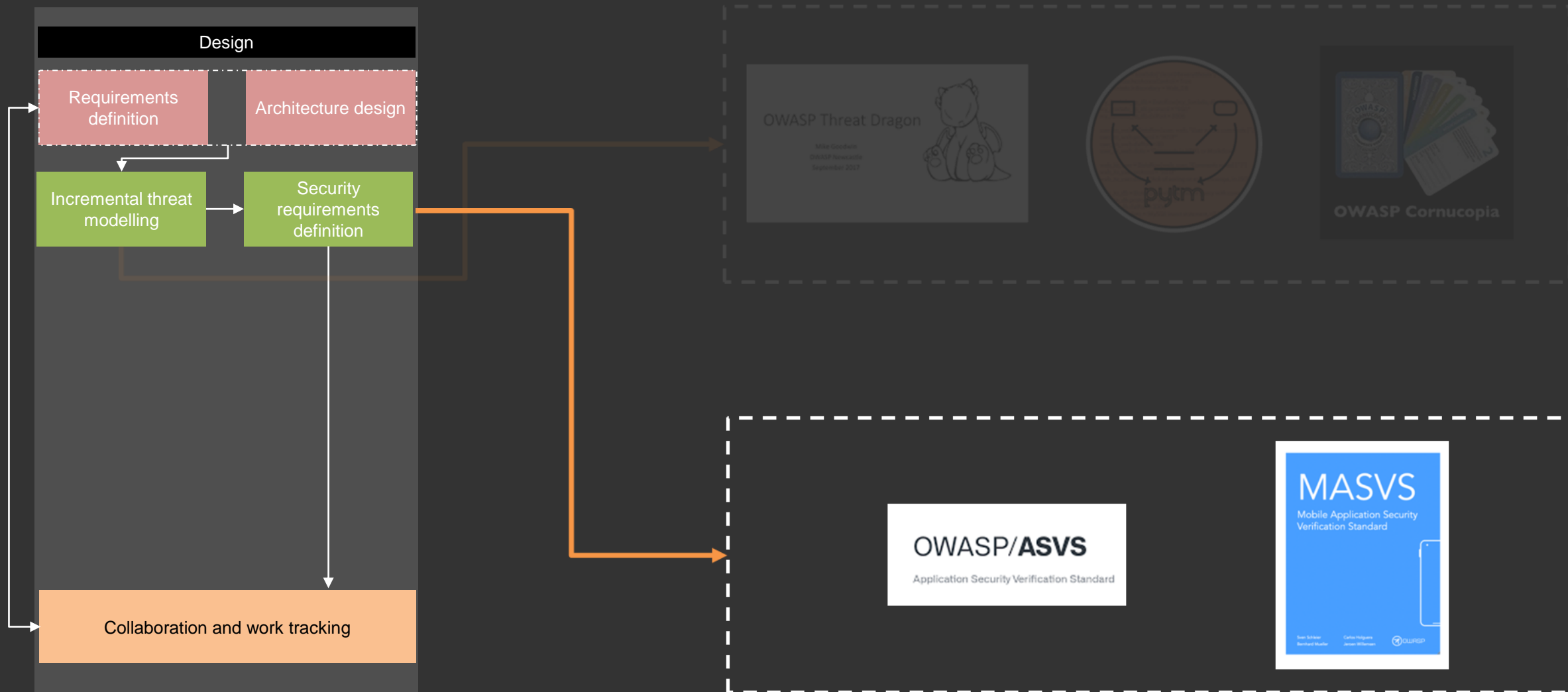
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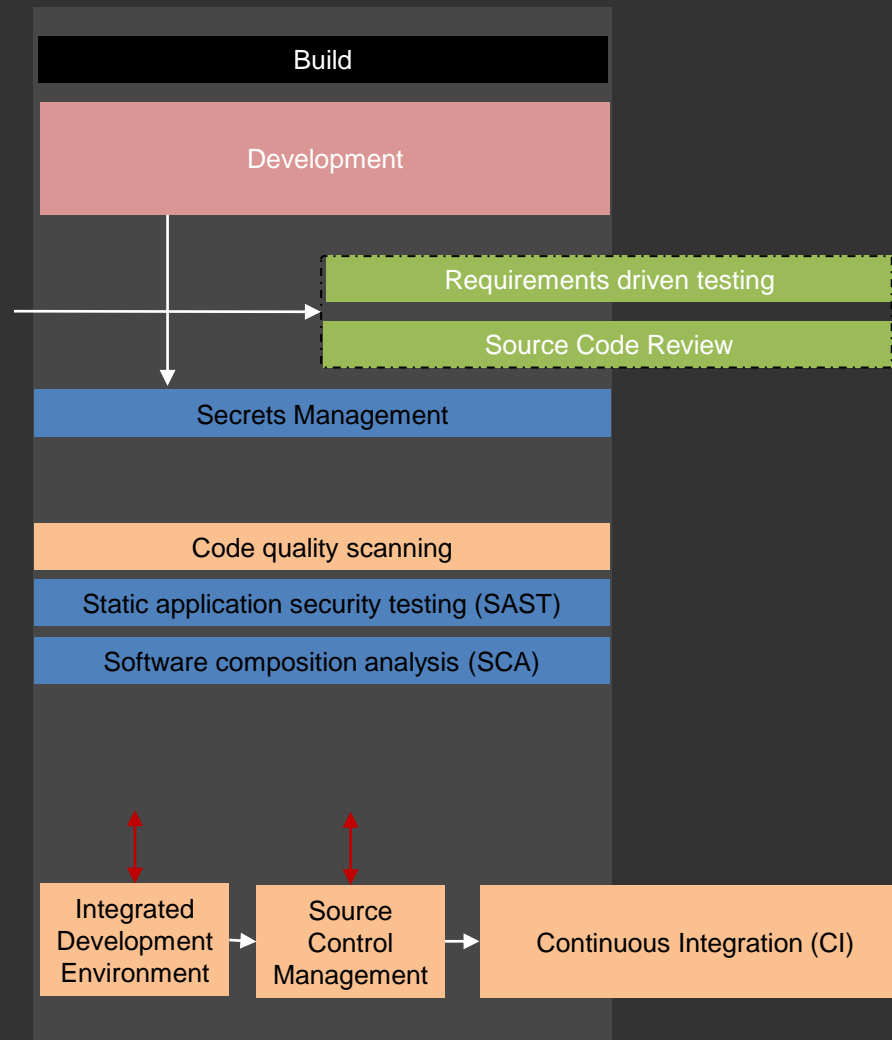
Design

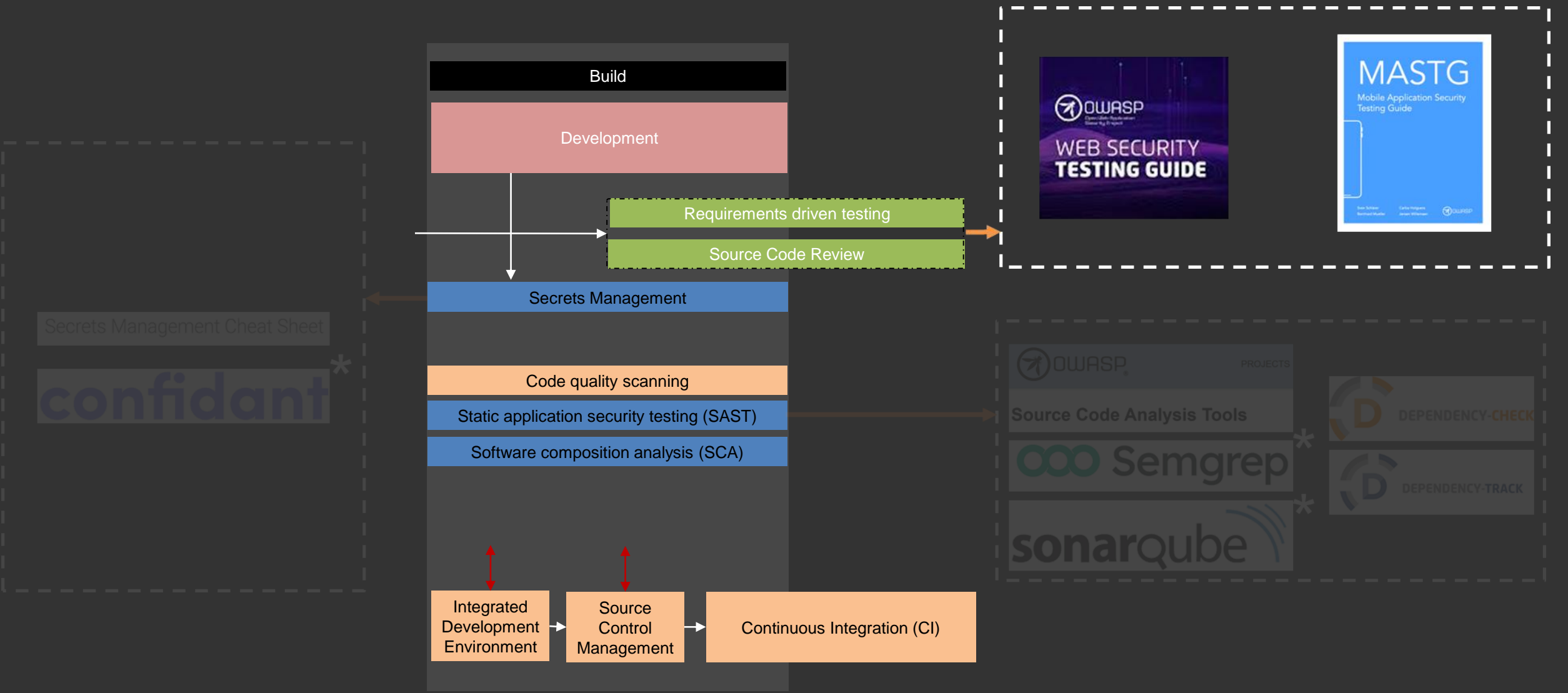


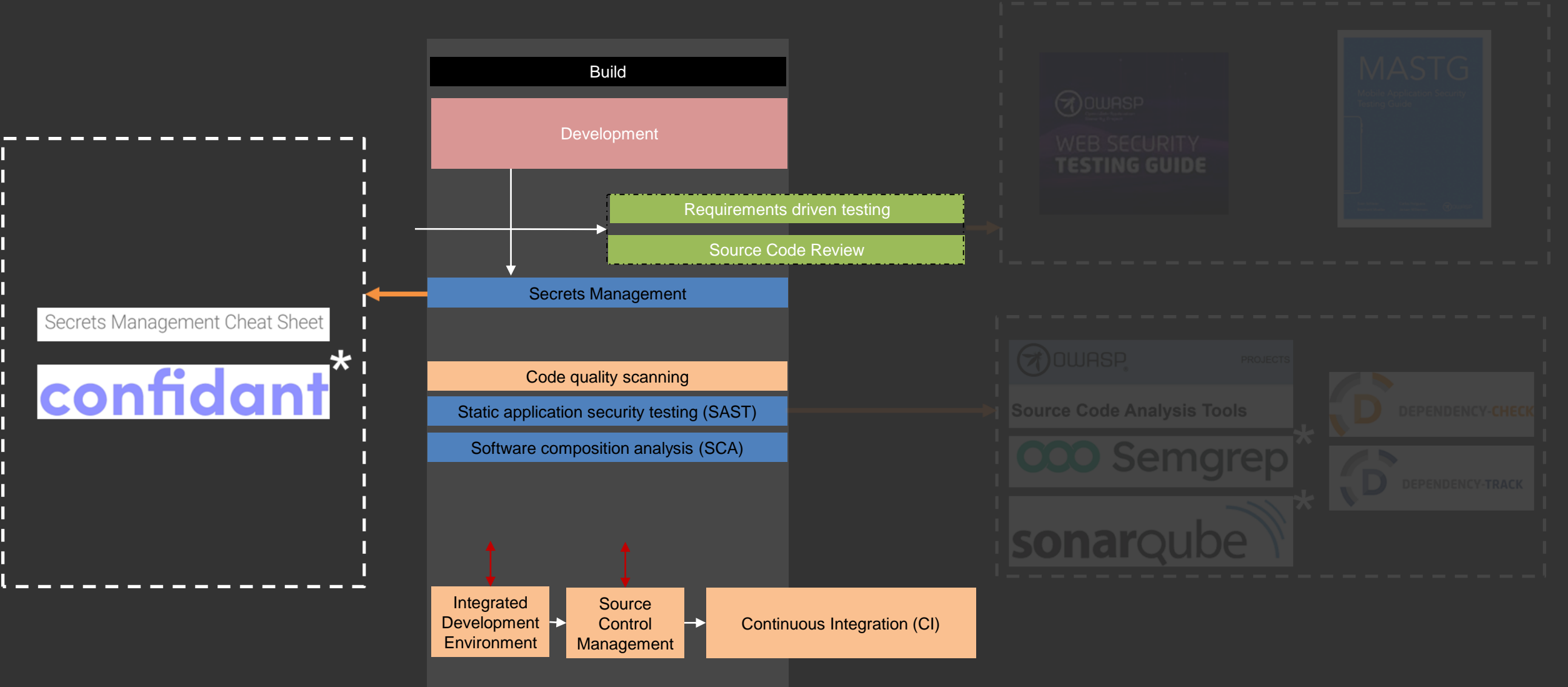


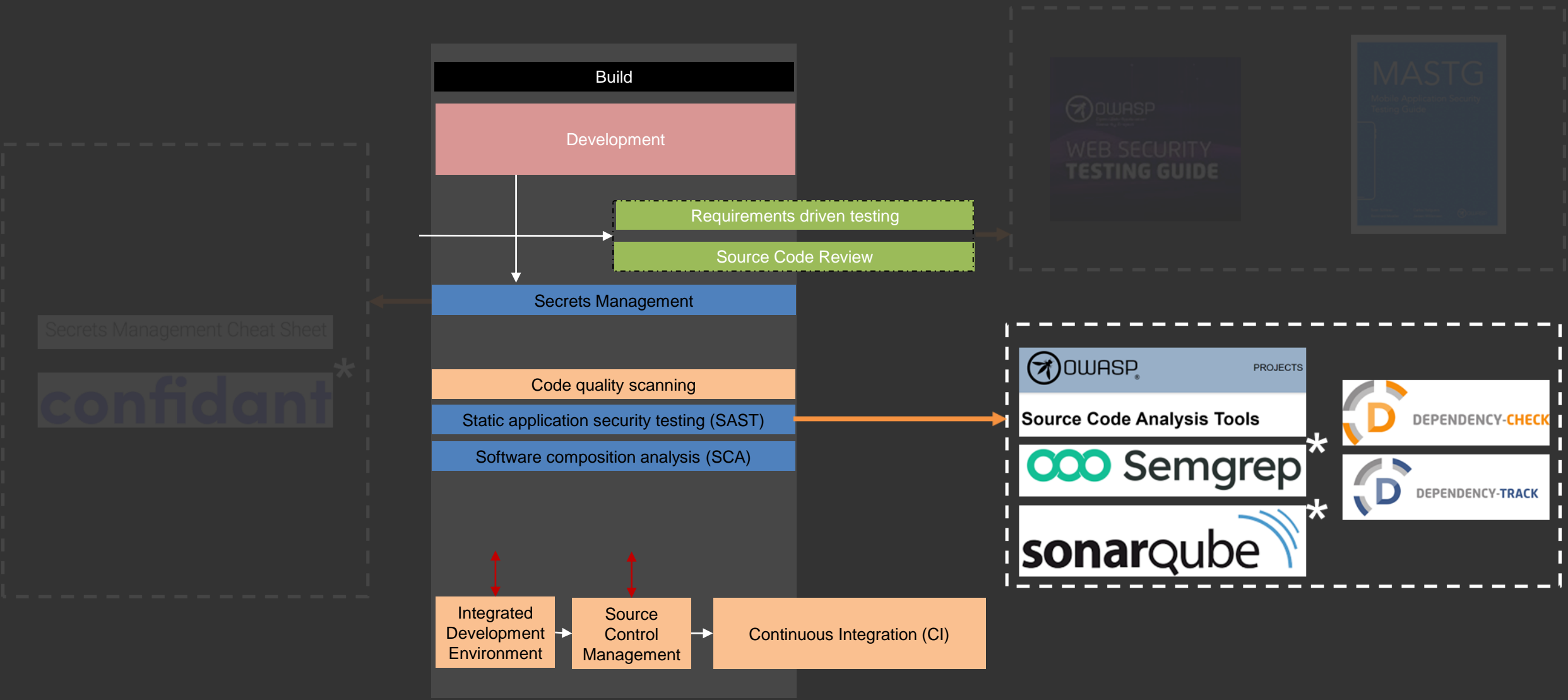


Build

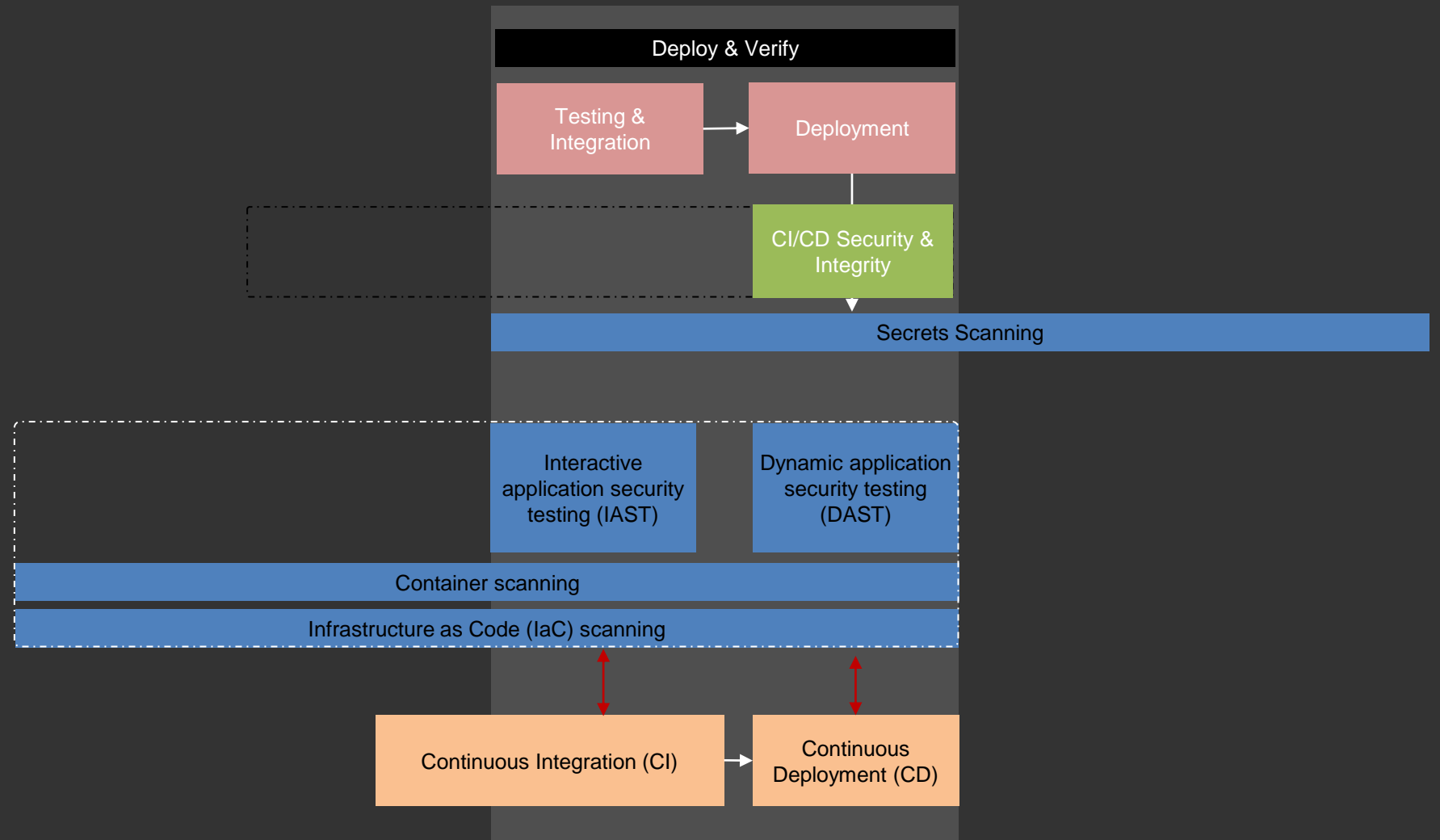








Deploy and Verify



Top 10 CI/CD Security Risks



SLSA

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Deploy & Verify

Testing & Integration

Deployment

CI/CD Security & Integrity

Secrets Scanning

Interactive application security testing (IAST)

Dynamic application security testing (DAST)

Container scanning

Infrastructure as Code (IaC) scanning

Continuous Integration (CI)

Continuous Deployment (CD)



PROJECTS

Source Code Analysis Tools



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OWASP
Zed Attack Proxy



PROJECTS

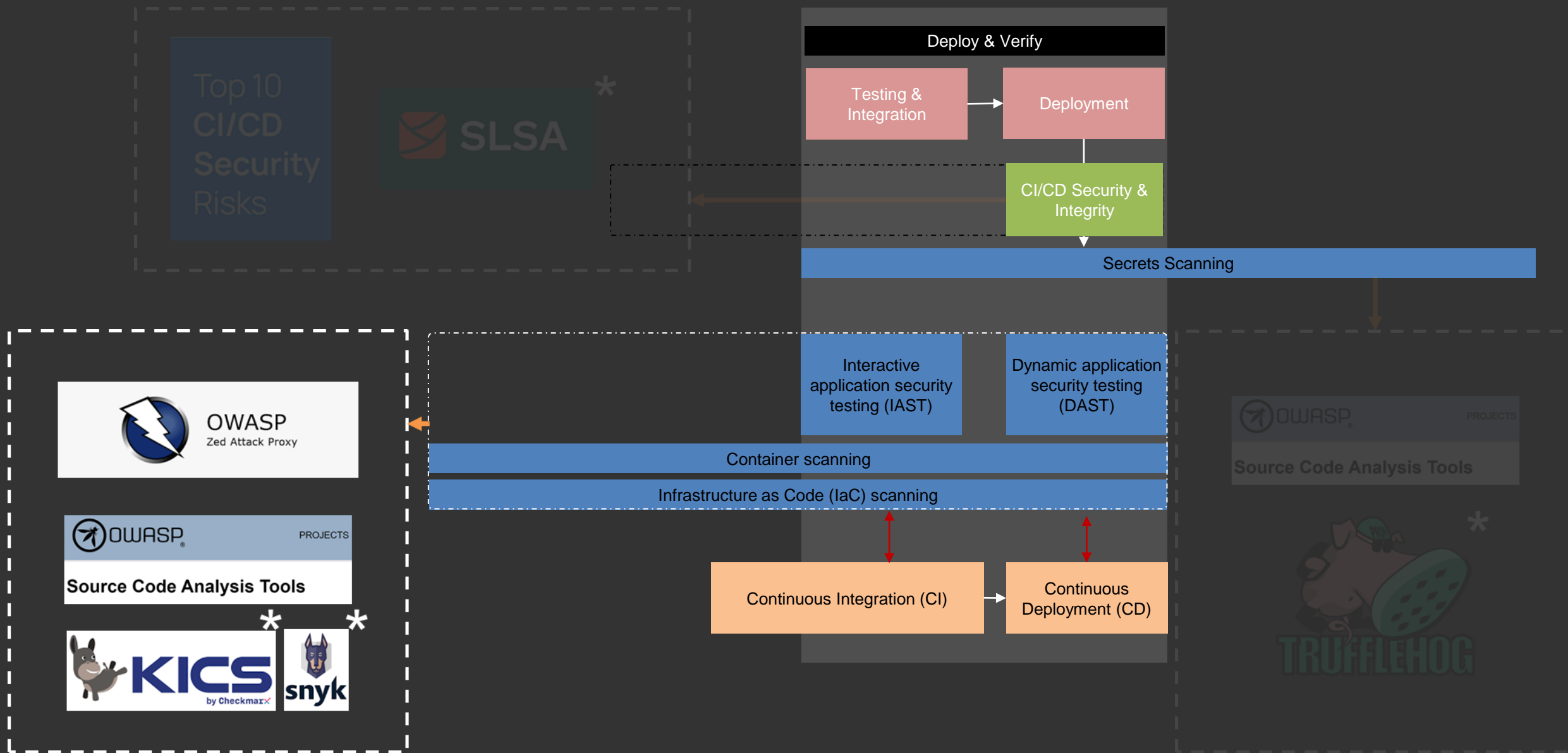
Source Code Analysis Tools

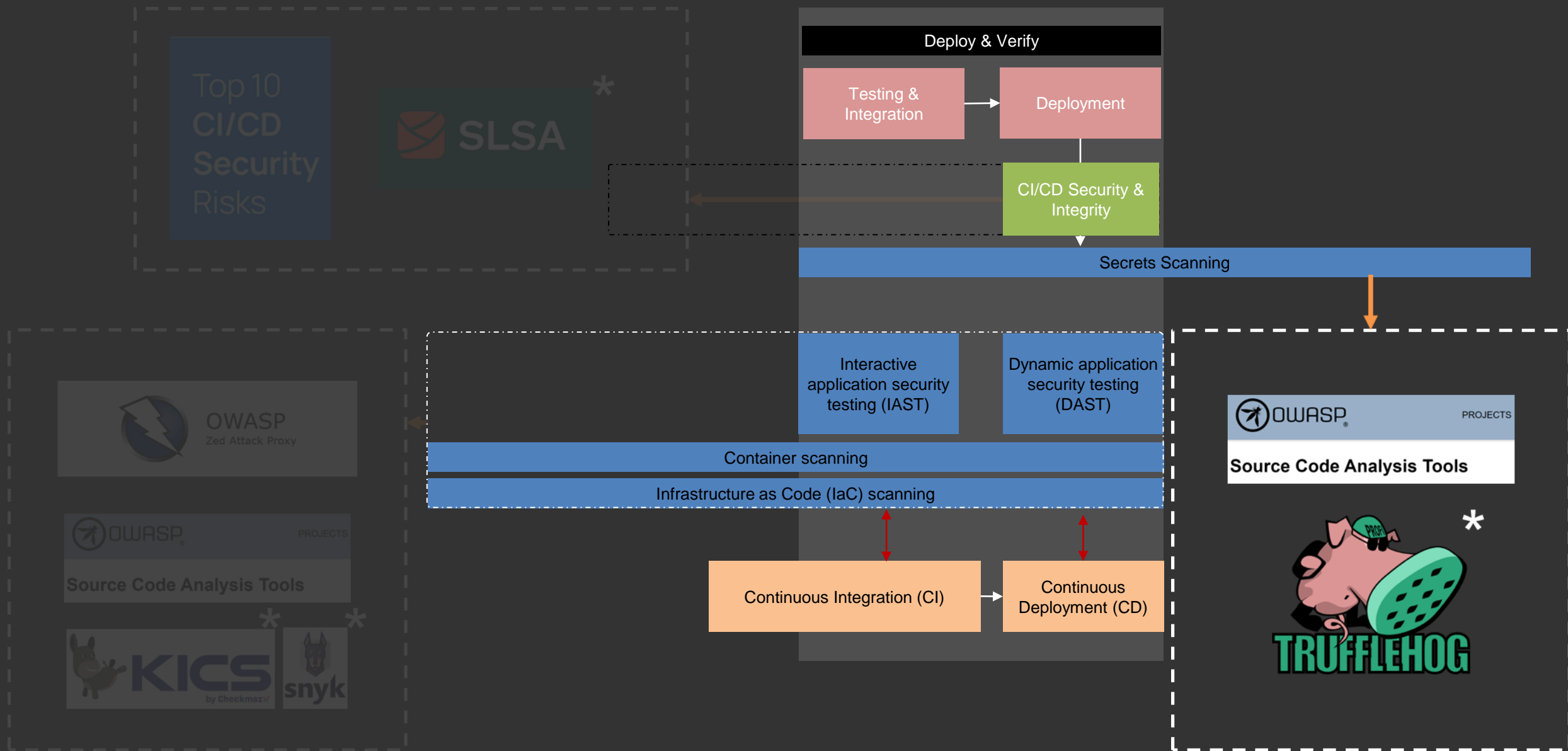


KICS
by Checkmarx

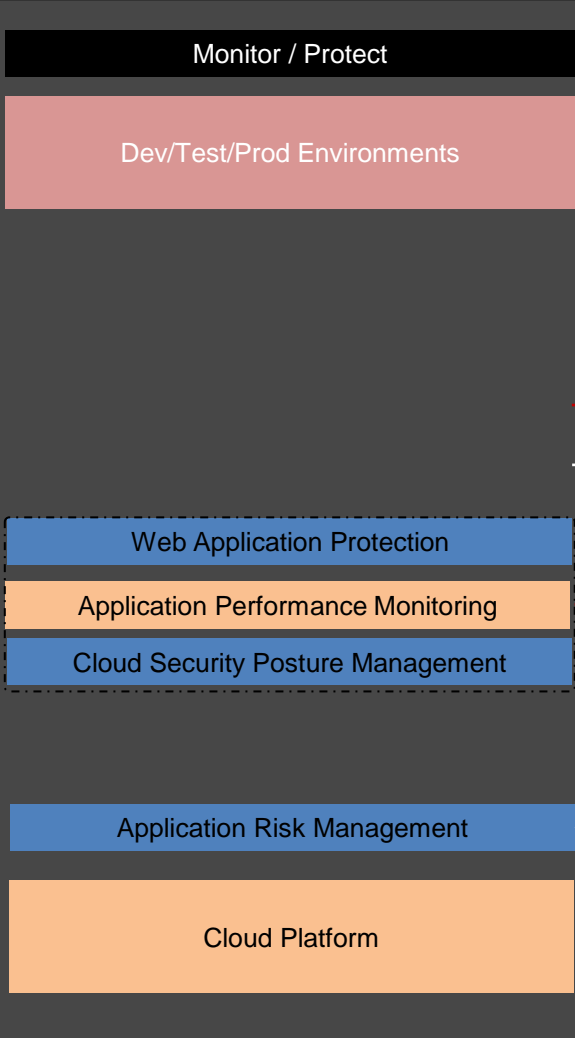


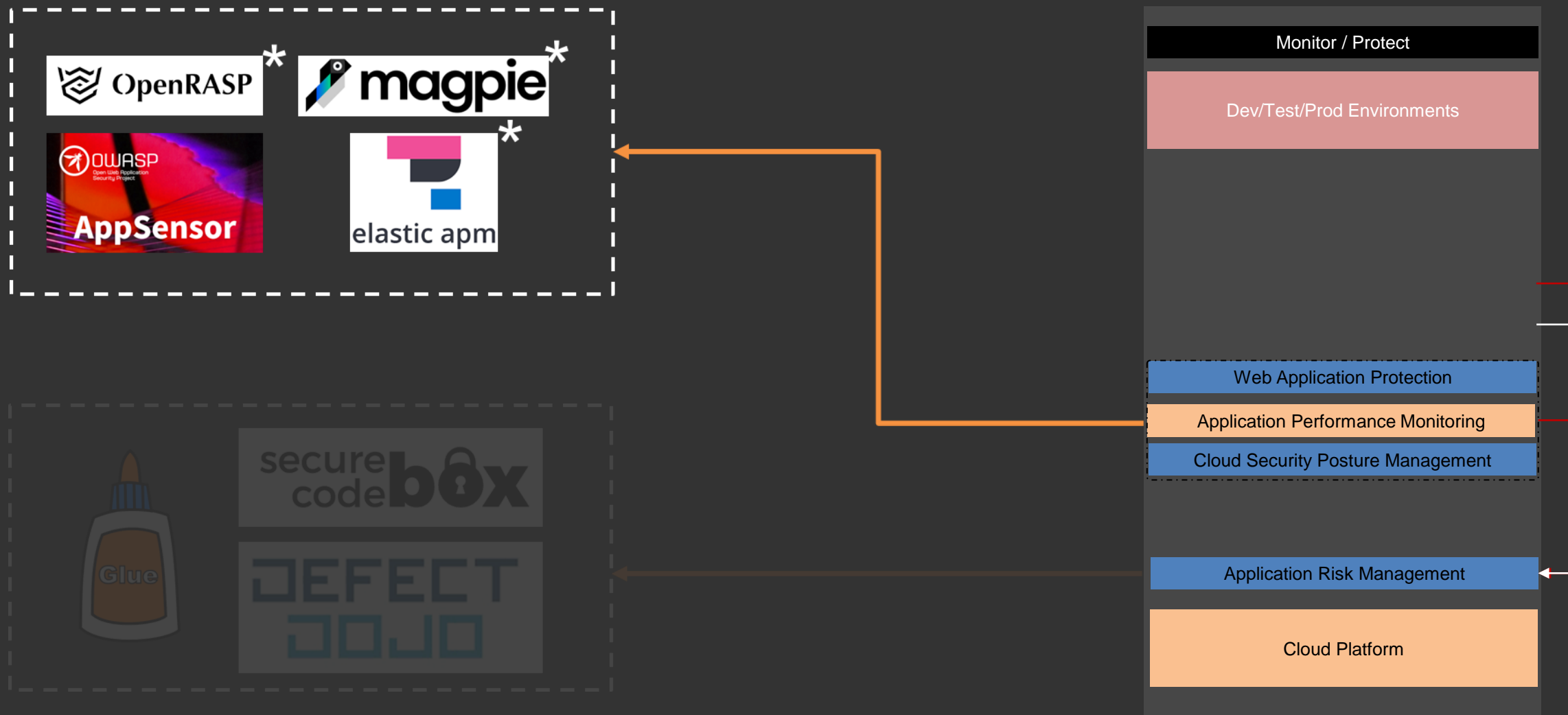
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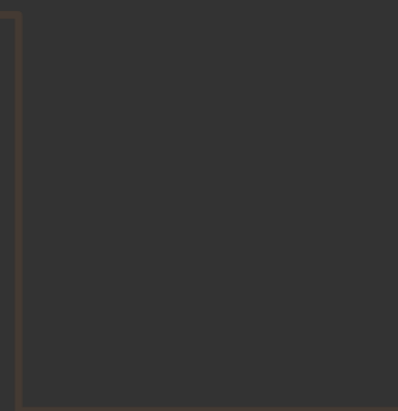
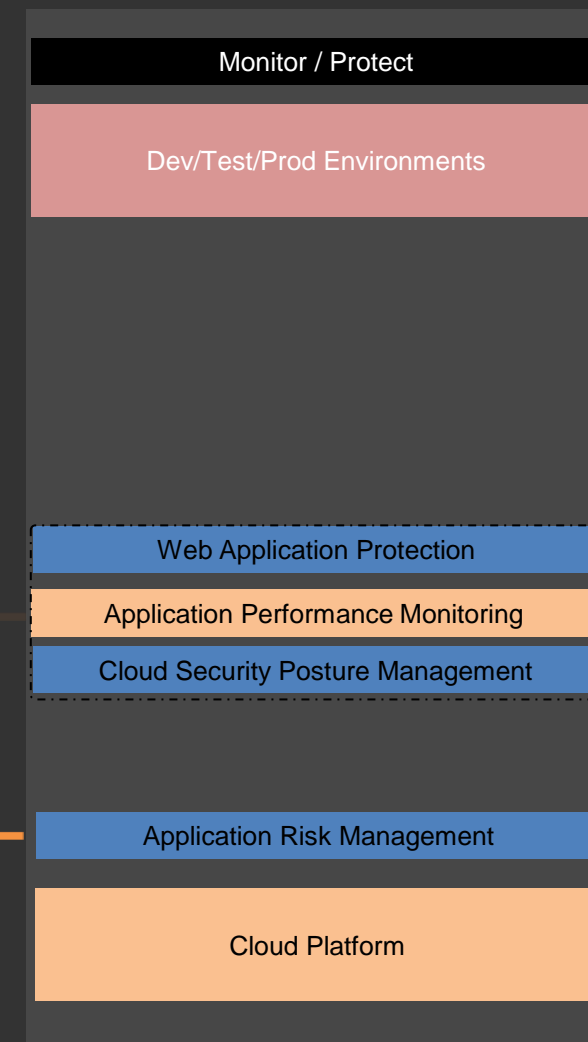
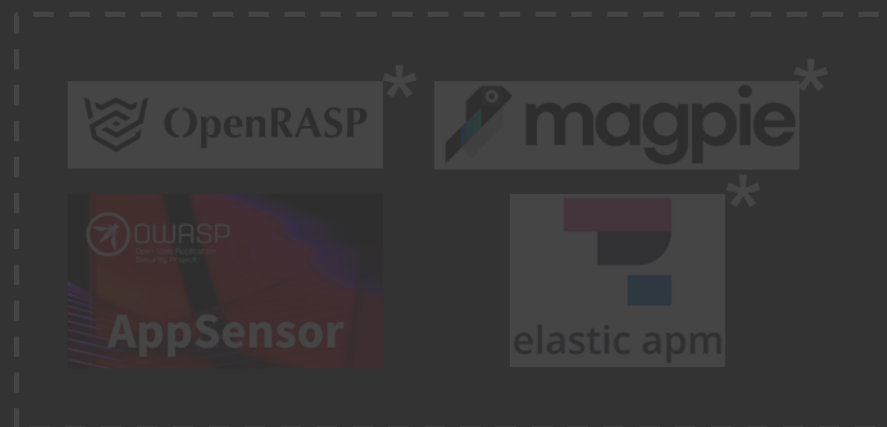




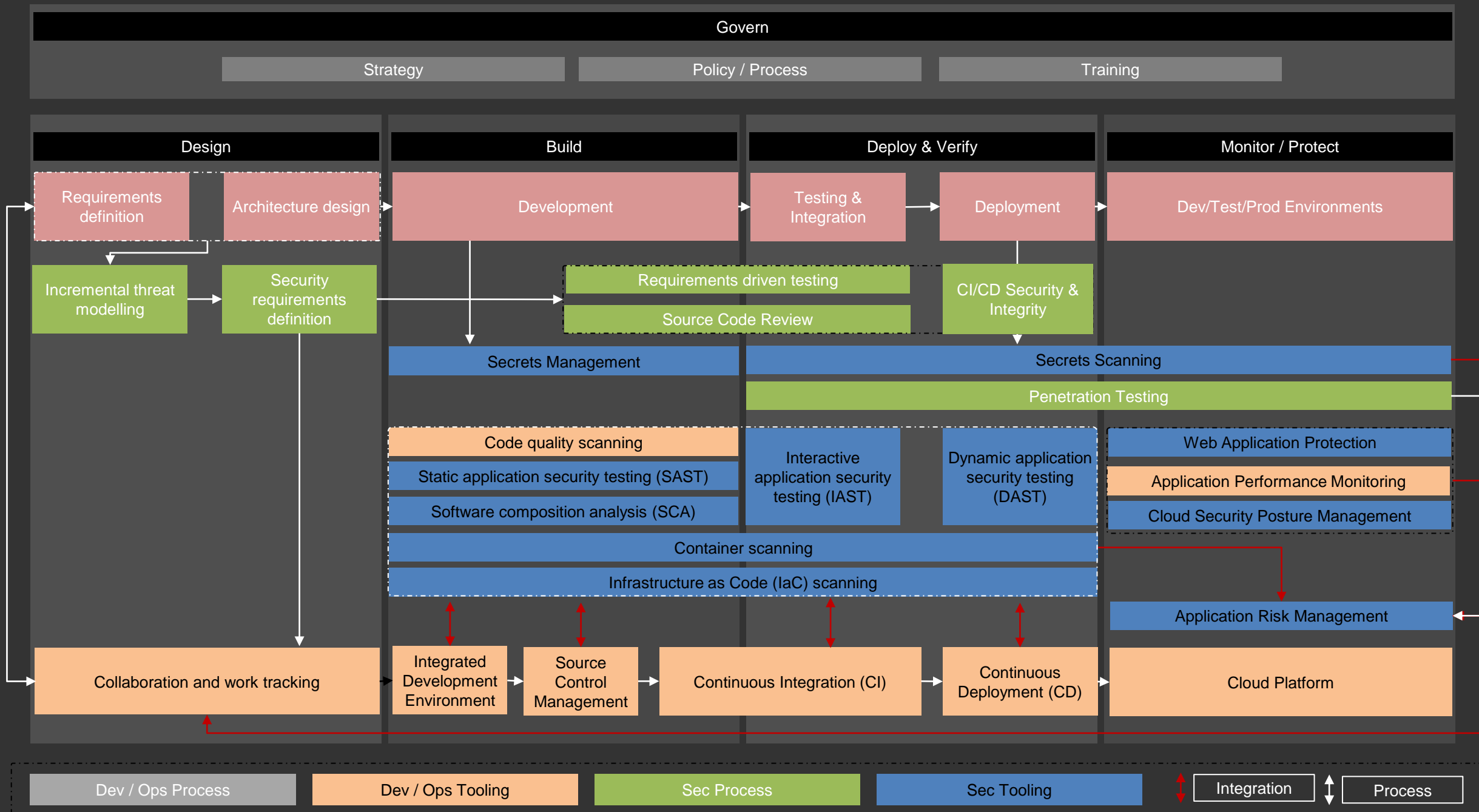
Monitor & Protect







All Together Now



Govern



OWASP Cheat Sheet Series



Design

Requirements definition

Architecture design



Build

Development

OWASP/ASVS

MASVS

Secrets Management Cheat Sheet



Deploy & Verify

Testing & Integration

Deployment



Monitor / Protect

Dev/Test/Prod Environments



MASTG



elastic apm



Collaboration and work tracking

Integrated Development Environment

Source Control Management

Continuous Integration (CI)

Continuous Deployment (CD)

Cloud Platform

DEFECTDOJO

Dev / Ops Process

Dev / Ops Tooling

Sec Process

Sec Tooling

Integration

Process

Now what?



Too many
things

**Figure out
what's most
important**



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**There's quite a
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Try before you buy

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Questions?

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Raafey
- LinkedIn
Raafey Khan
- Email
Raafey.khan@cybercx.com.au)