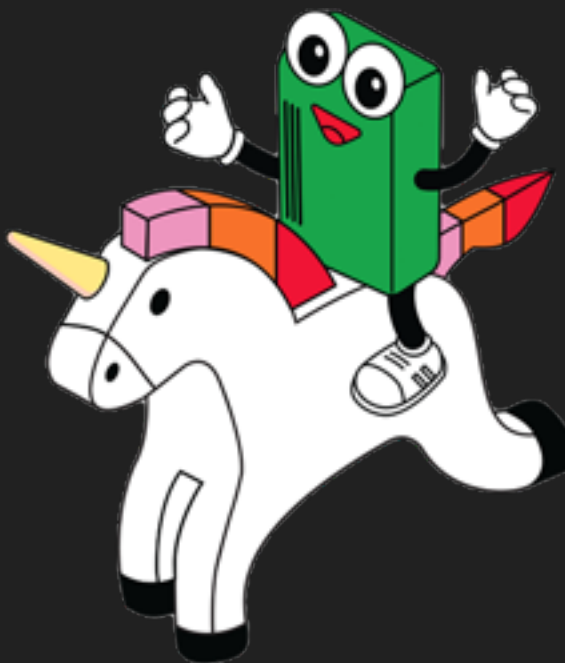


DevSecOps and Secure Incident Response

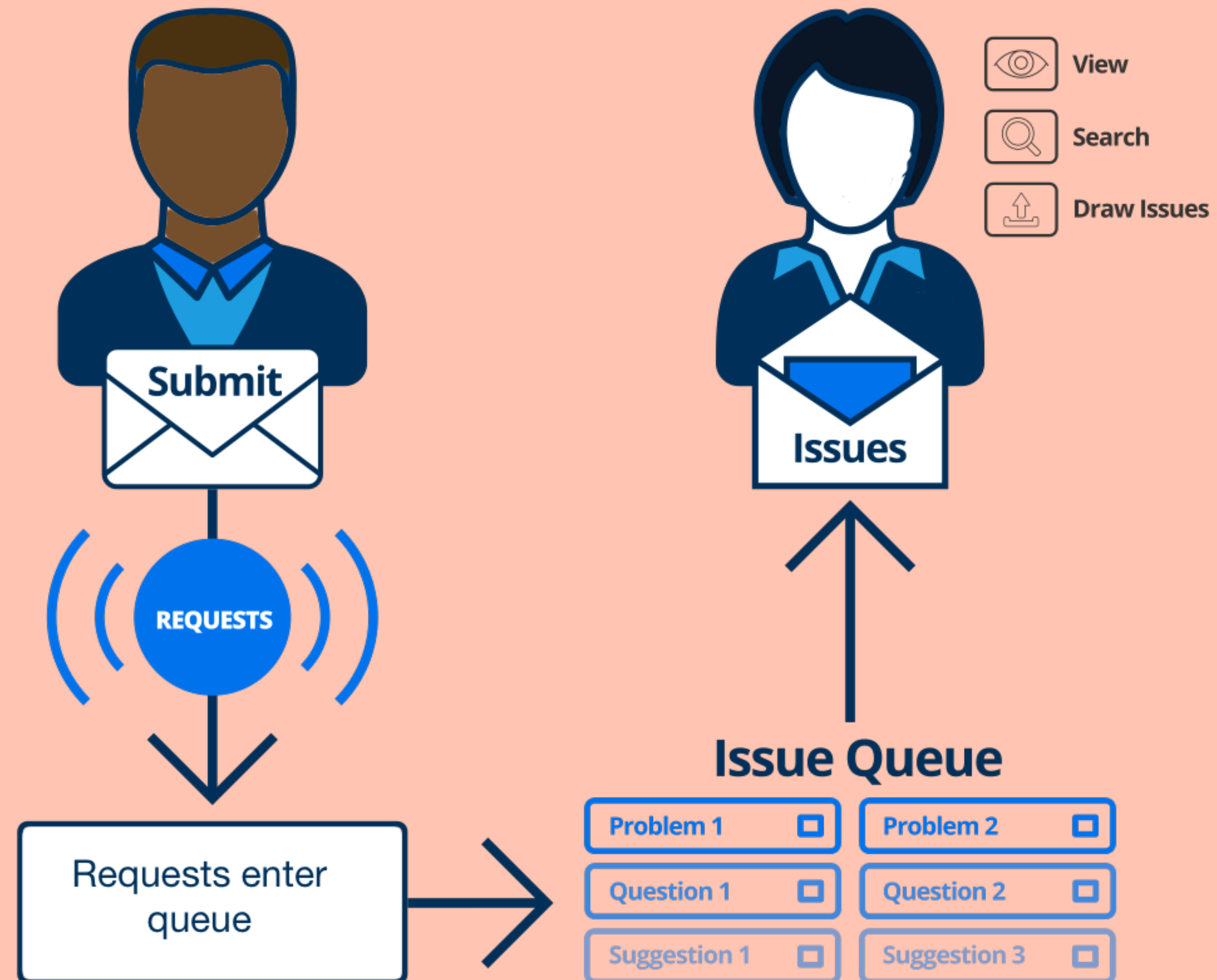
@QuintessenceAnx
Developer Advocate @ PagerDuty

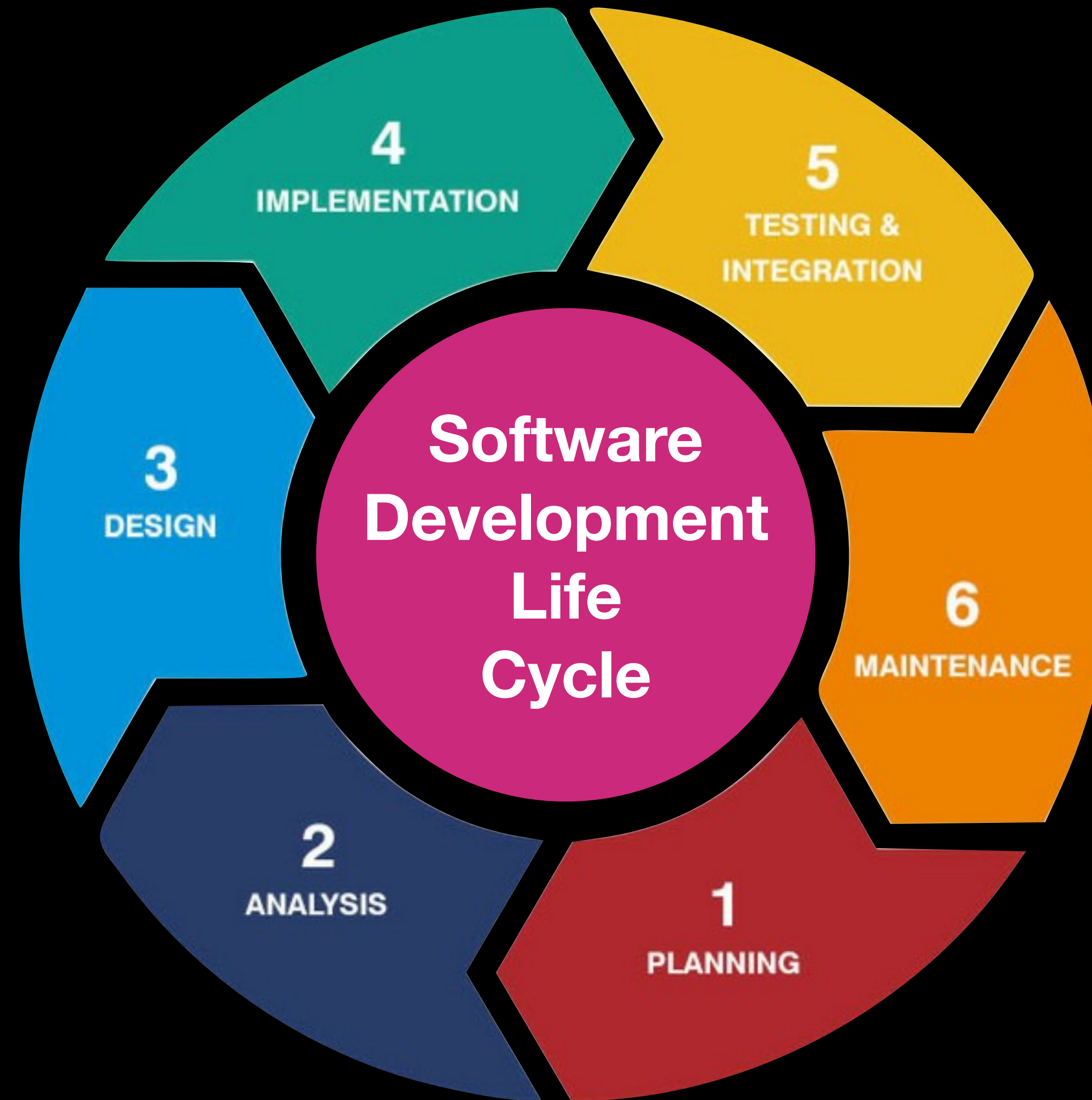




Don't panic

The Now

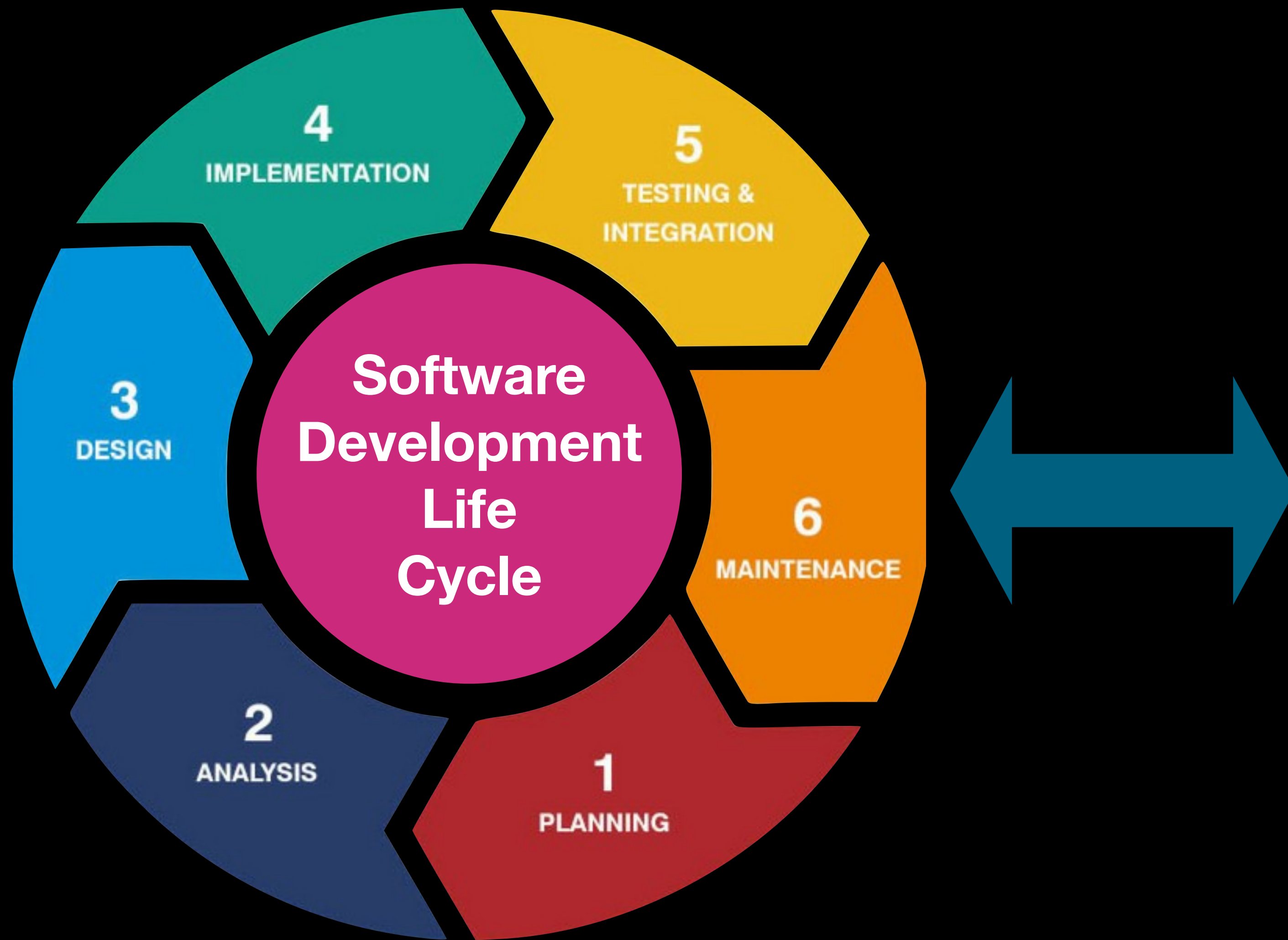




Vault over "The Wall"

for
Security Review









DevSecOps

What is DevSecOps?

**DevSecOps stands for development, security, and operations.
DevSecOps seeks to integrate security across the SDLC and
streamline the workflows between dev, sec, and ops.**

What DevSecOps is not

DevSecOps is not replacing security with dev and/or ops, or expecting dev and/or ops to become security specialists, or expecting security to become devs and/or ops.

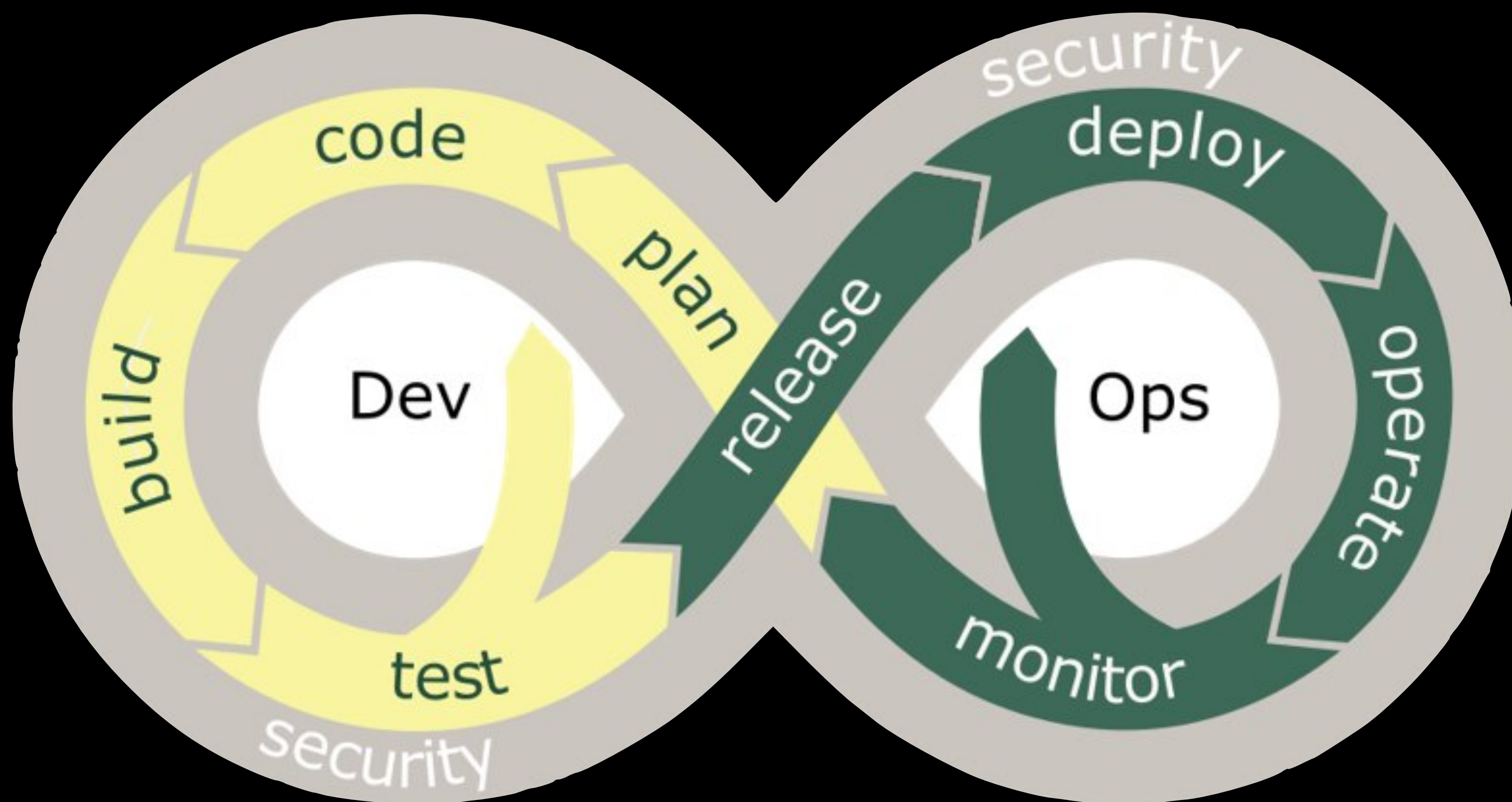
Phew.



How?

The Secure SDLC + Shifting Left





Secure Development Lifecycle - Policies, Standards, Controls and Best Practices

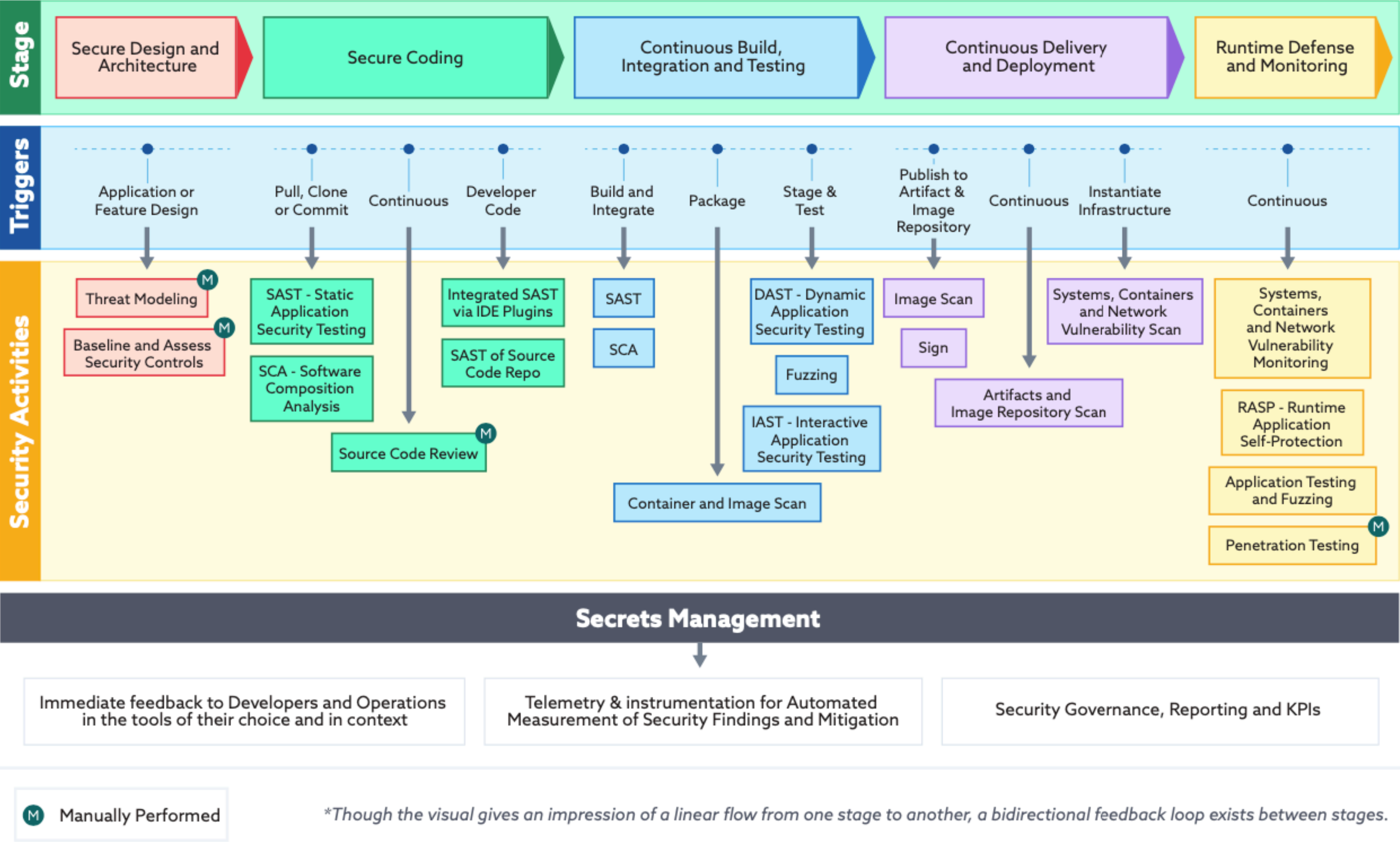
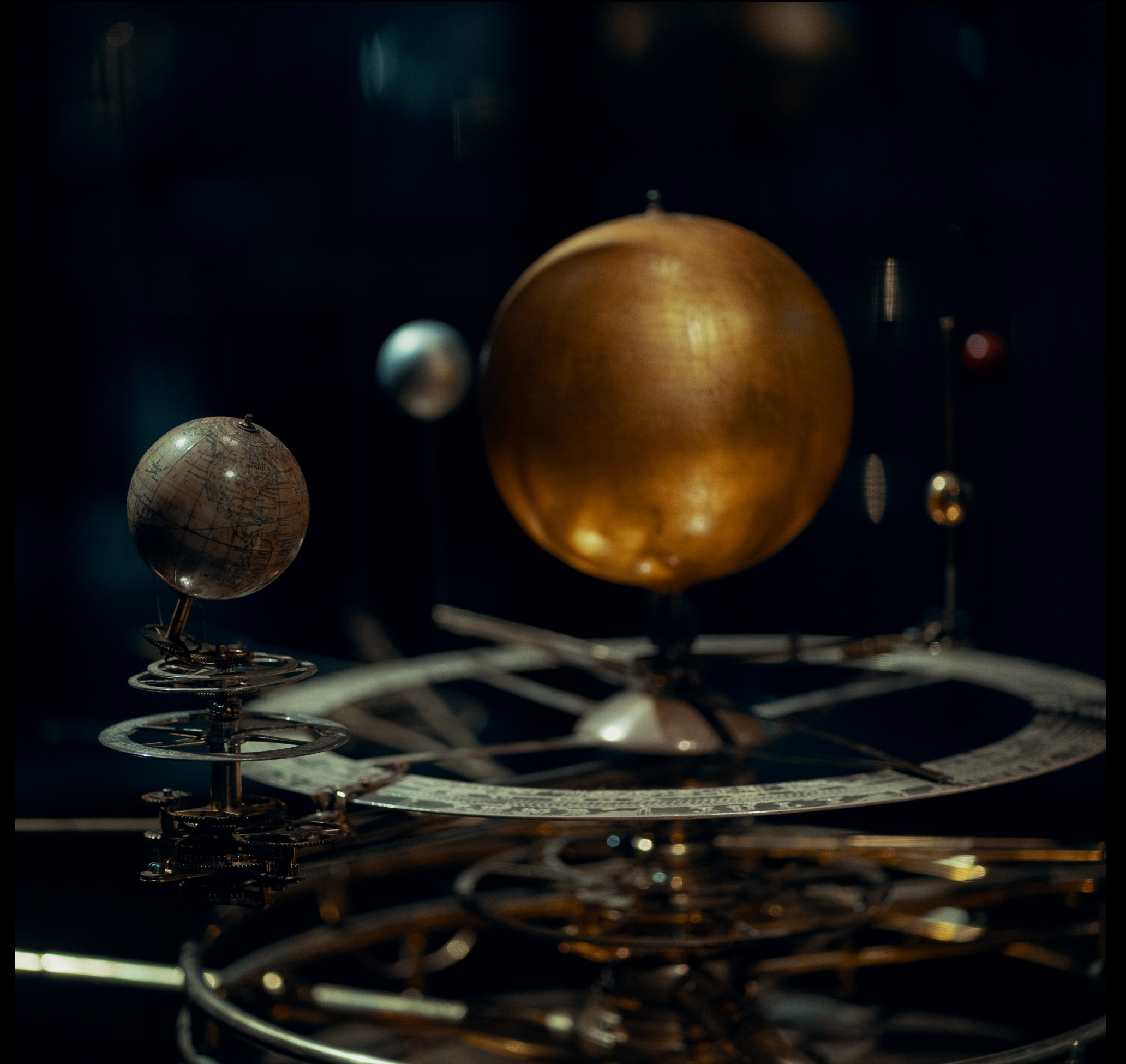


Figure 1: The CSA DevSecOps Delivery Pipeline

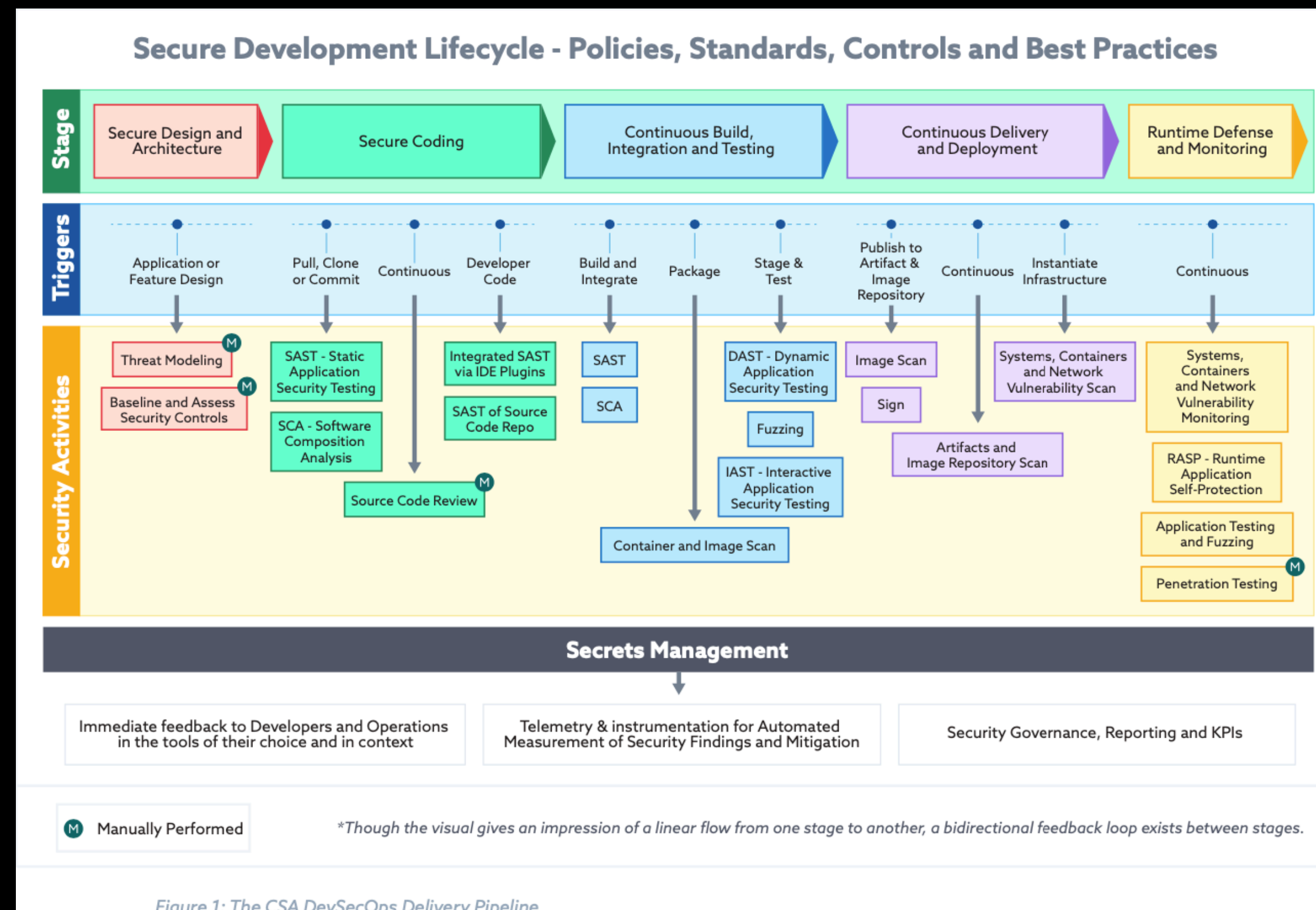


SecOps Activities

- Secure architecture / design
- Threat modeling
- Testing, e.g. SAST and DAST
- Scanning images and dependencies
- Fuzzing
- And more!



Shift Left

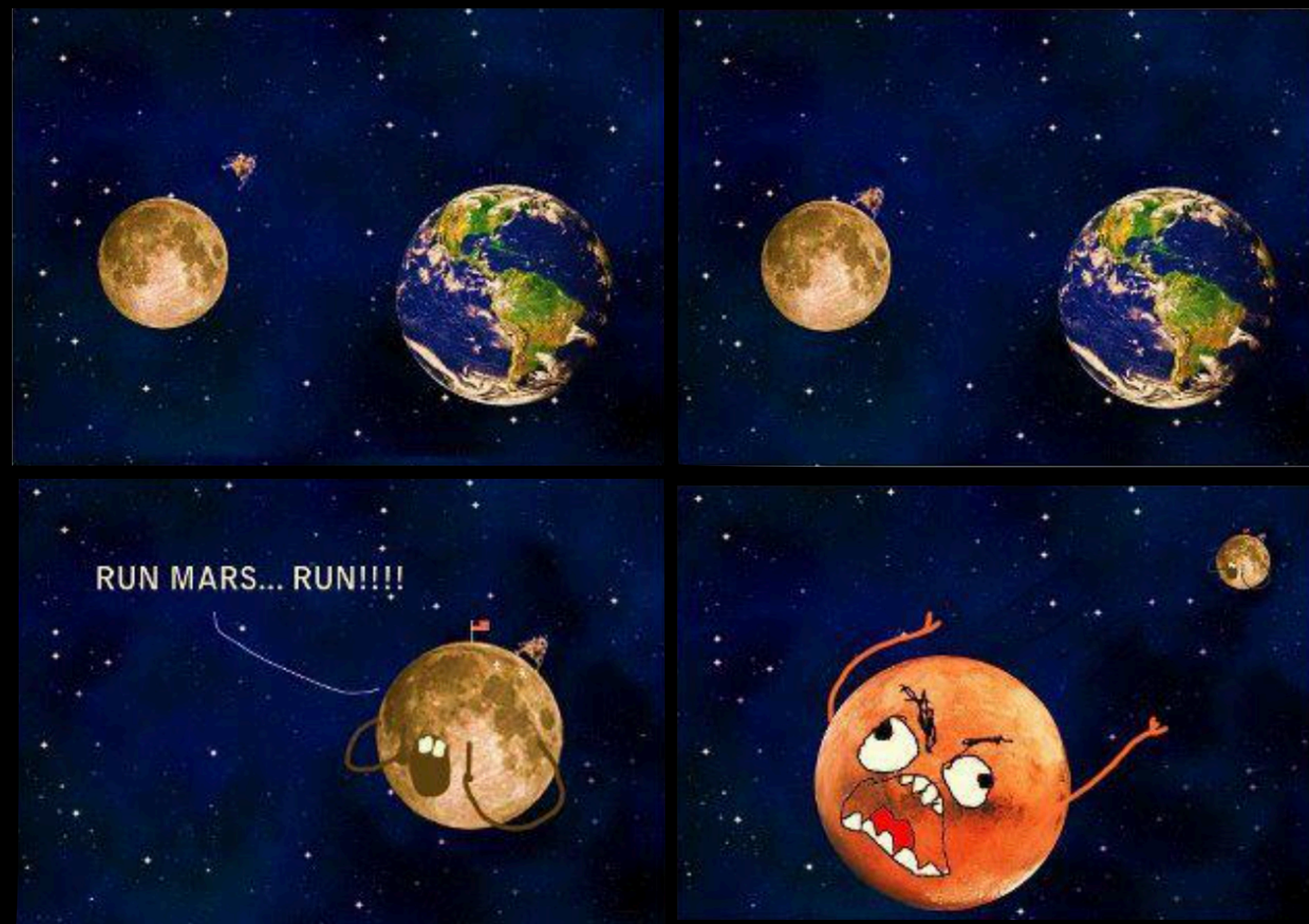


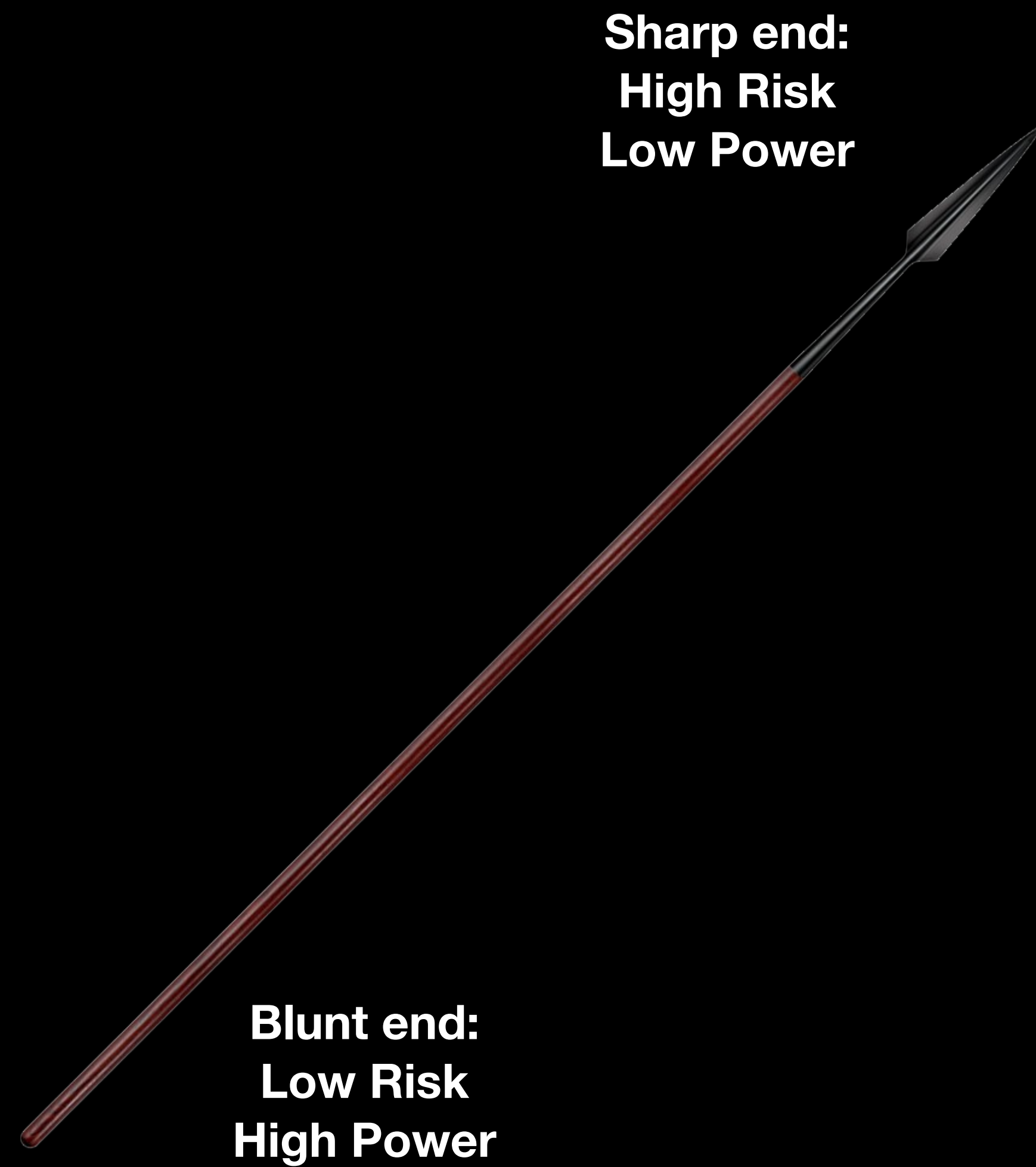


How?

Cultural Support

Humans.





Blunt end:
Low Risk
High Power

Sharp end:
High Risk
Low Power

Exec Buy-in

Never trick staff, ever.

Training



Full Service Ownership



Capture the Flag

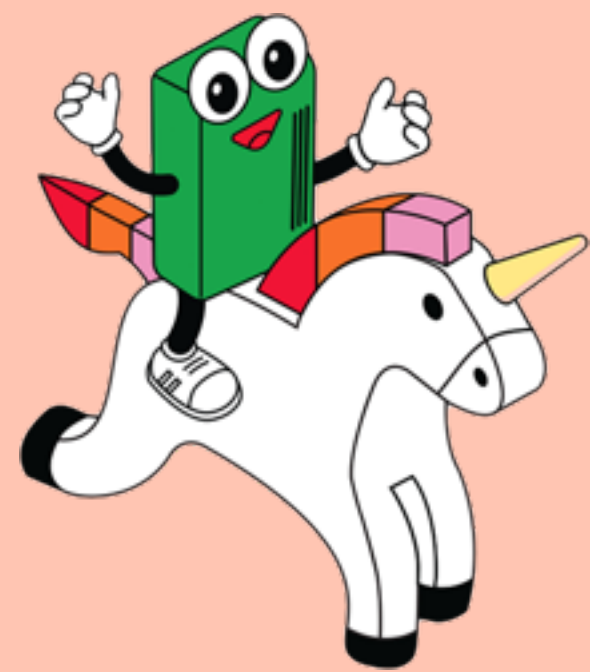


Threat Modeling





Secure Incident Response



1. Stop the attack in progress.
2. Cut off the attack vector.
3. Assemble the response team.
4. Isolate affected instances.
5. Identify timeline of attack.
6. Identify compromised data.
7. Assess risk to other systems.
8. Assess risk of re-attack.
9. Apply additional mitigations, make changes to monitoring, etc.
10. Forensic analysis of compromised systems.
11. Internal communication.
12. Involve law enforcement.
13. Reach out to external parties that may have been used as vector for attack.
14. External communication.



Stop the attack in progress

Cut off the attack vector

Assemble the response team

Isolate the affected instances

Identify timeline of the attack

Identify compromised data

Assess risk to other systems

Assess risk of re-attack

**Apply additional mitigations,
additions to monitoring, etc.**

Forensic analysis of compromised systems

Internal communication

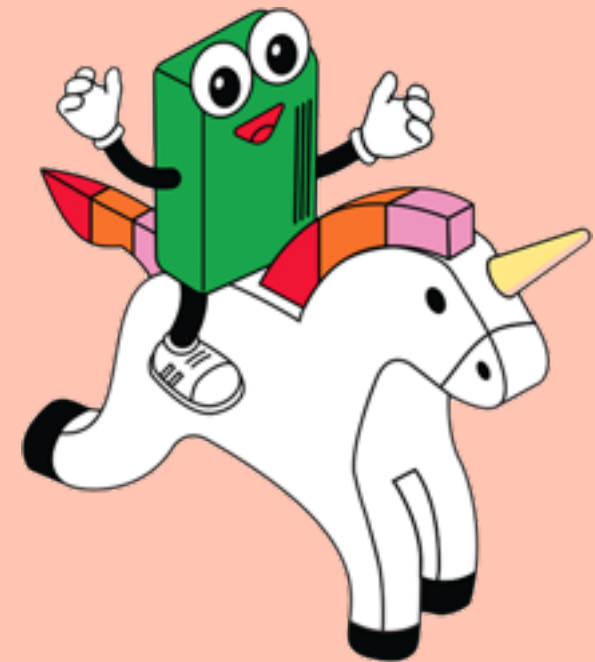
Involve law enforcement

Reach out to external parties that
may have been used as attack
vectors

External communication

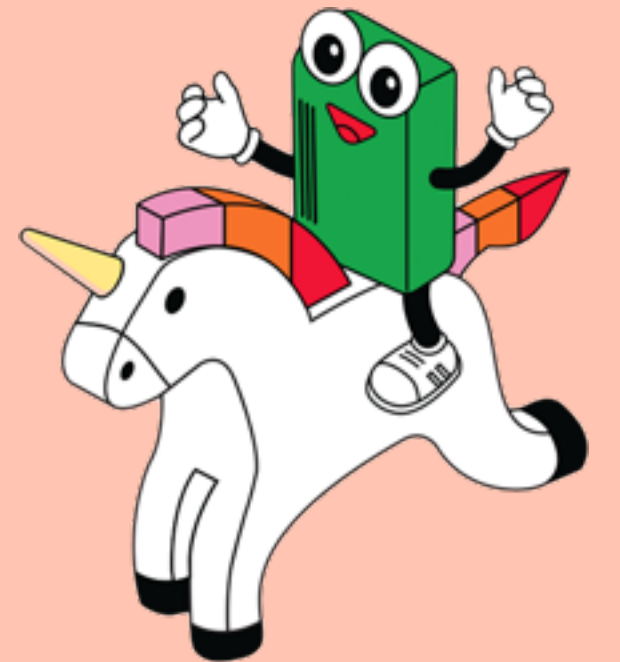
1. Stop the attack in progress.
2. Cut off the attack vector.
3. Assemble the response team.
4. Isolate affected instances.
5. Identify timeline of attack.
6. Identify compromised data.
7. Assess risk to other systems.
8. Assess risk of re-attack.
9. Apply additional mitigations, make changes to monitoring, etc.
10. Forensic analysis of compromised systems.
11. Internal communication.
12. Involve law enforcement.
13. Reach out to external parties that may have been used as vector for attack.
14. External communication.





Resources & References

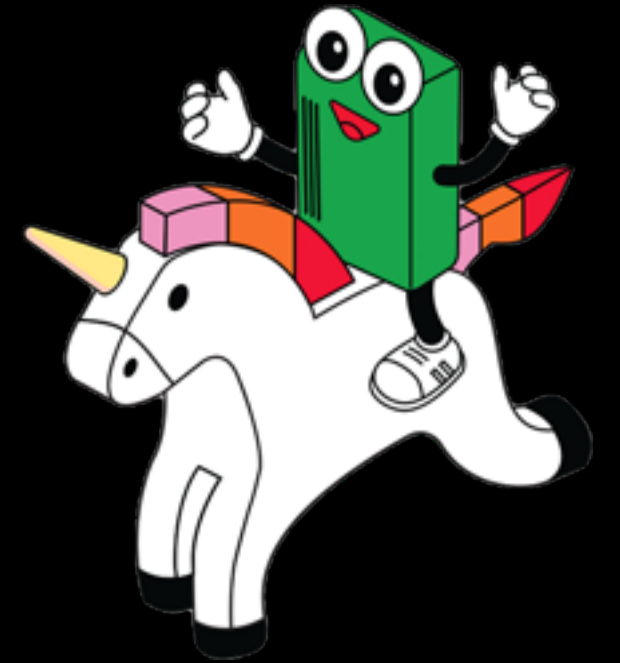
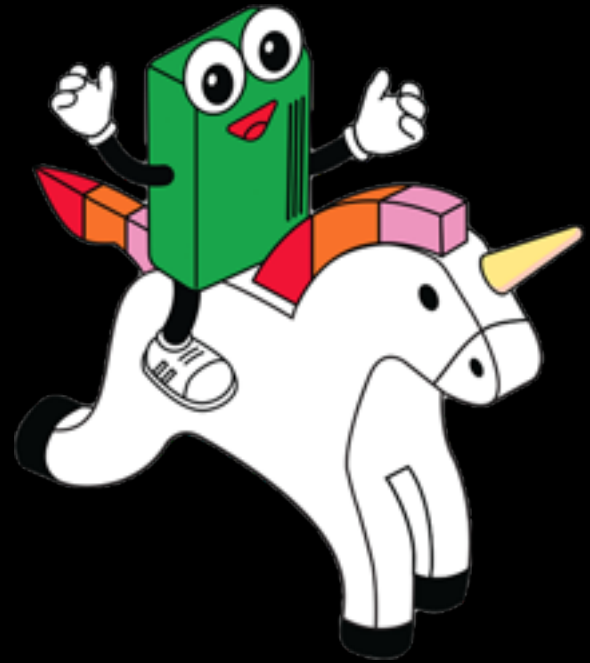
noti.st/quintessence





PagerDuty Summit

22-25 June



Register: <http://bit.ly/PDsummitCAD>





Questions?

Quintessence Anx
Developer Advocate

PagerDuty

noti.st/quintessence

