

# ADD0

ALL DAY DEVOPS

OCTOBER 28, 2021

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Developer Advocate, PagerDuty

## DevSecOps and Secure Incident Response

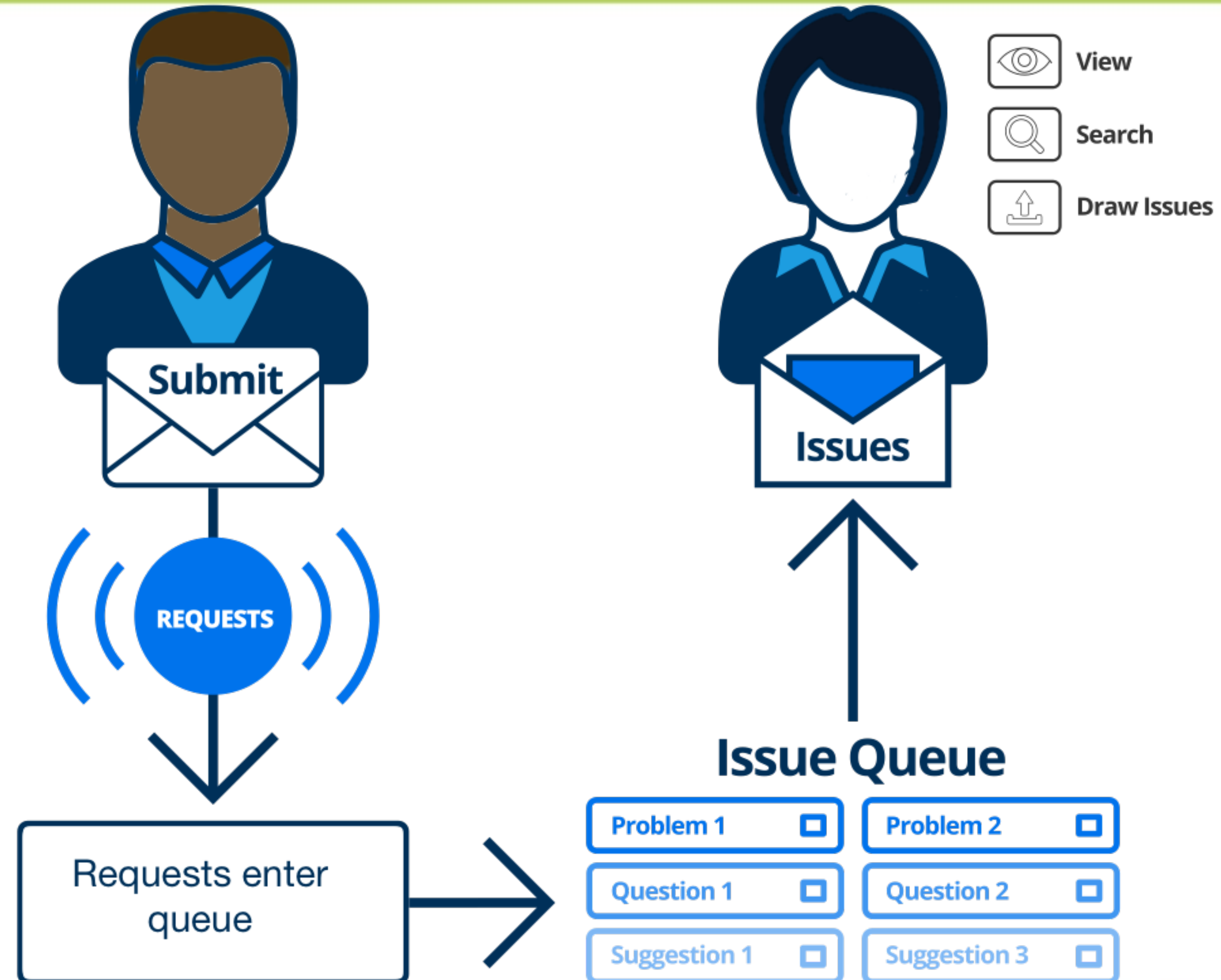




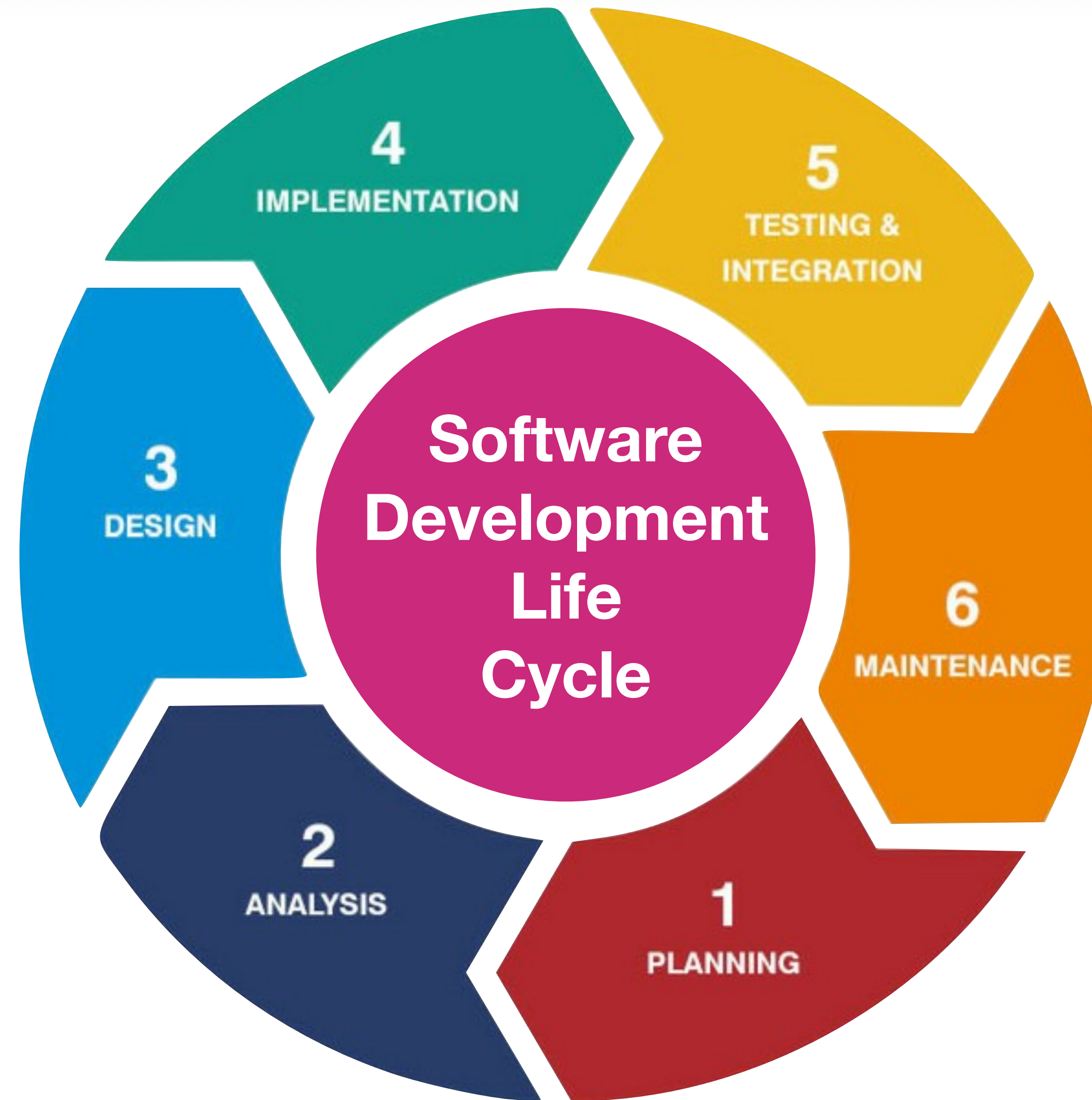
# Don't panic



# The Now







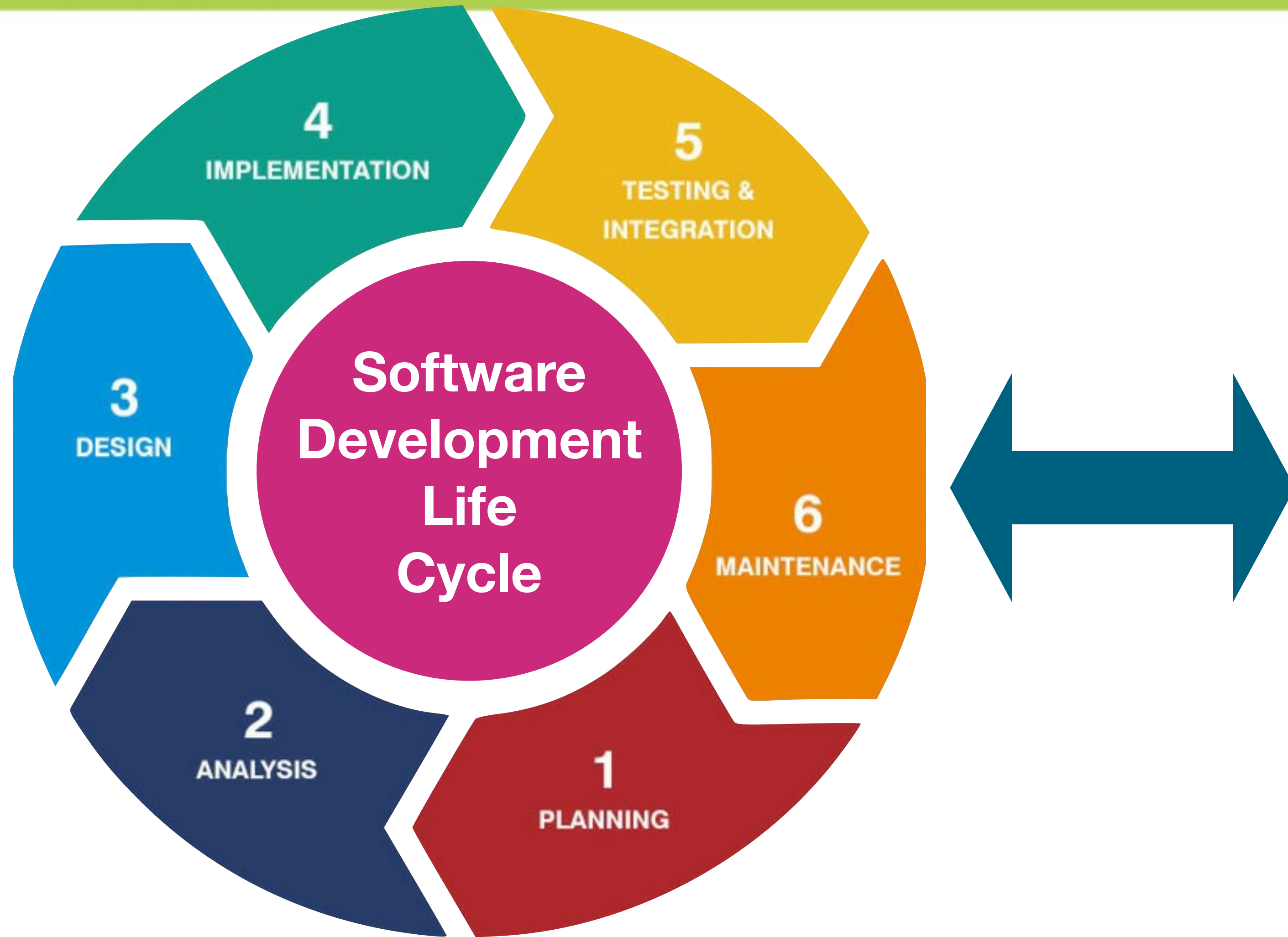


# Vault over "The Wall"

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.







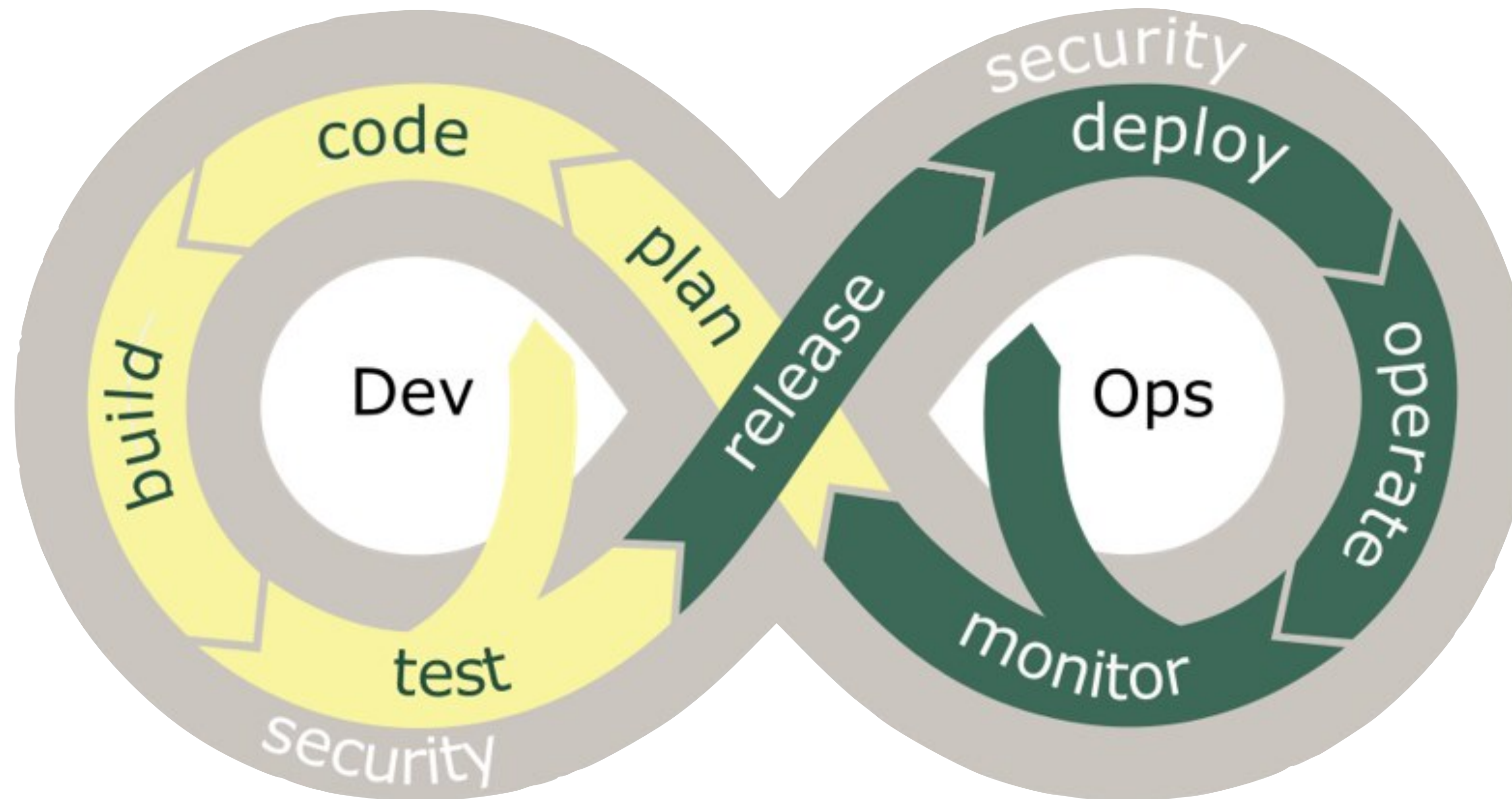
# How?

# The Secure SDLC + Shifting Left











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

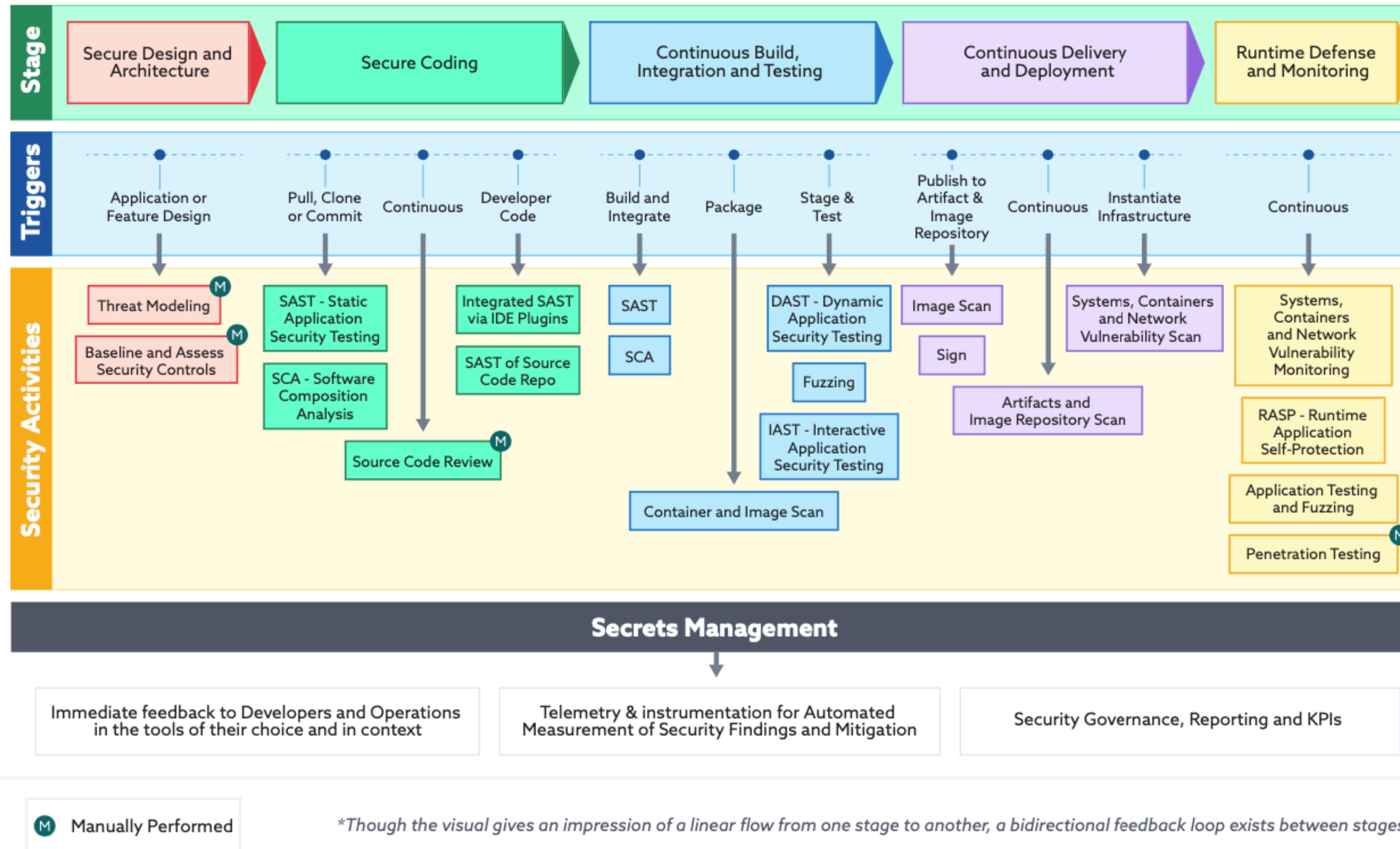


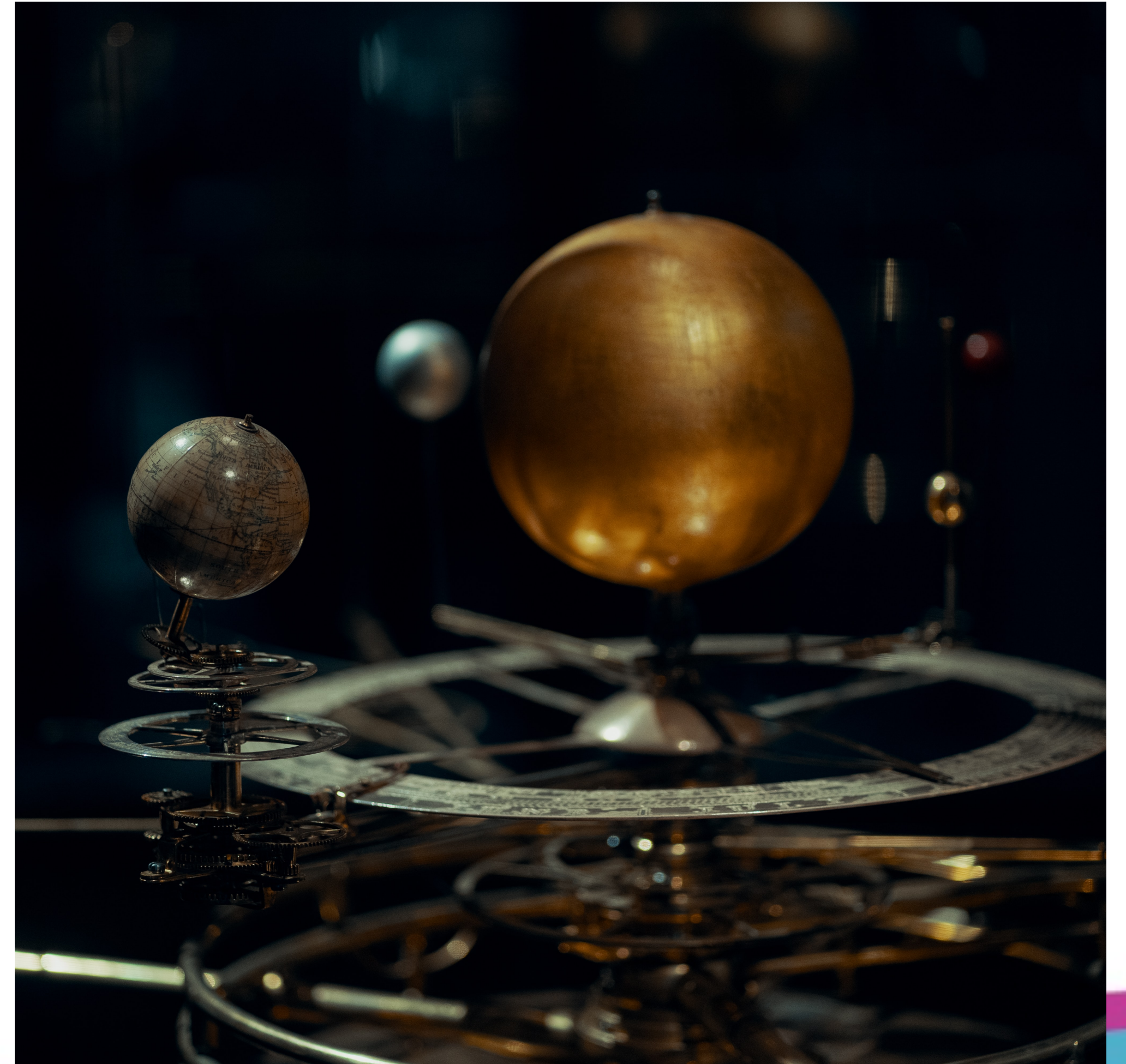
Figure 1: The CSA DevSecOps Delivery Pipeline





# SecOps Activities

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





# Shift Left

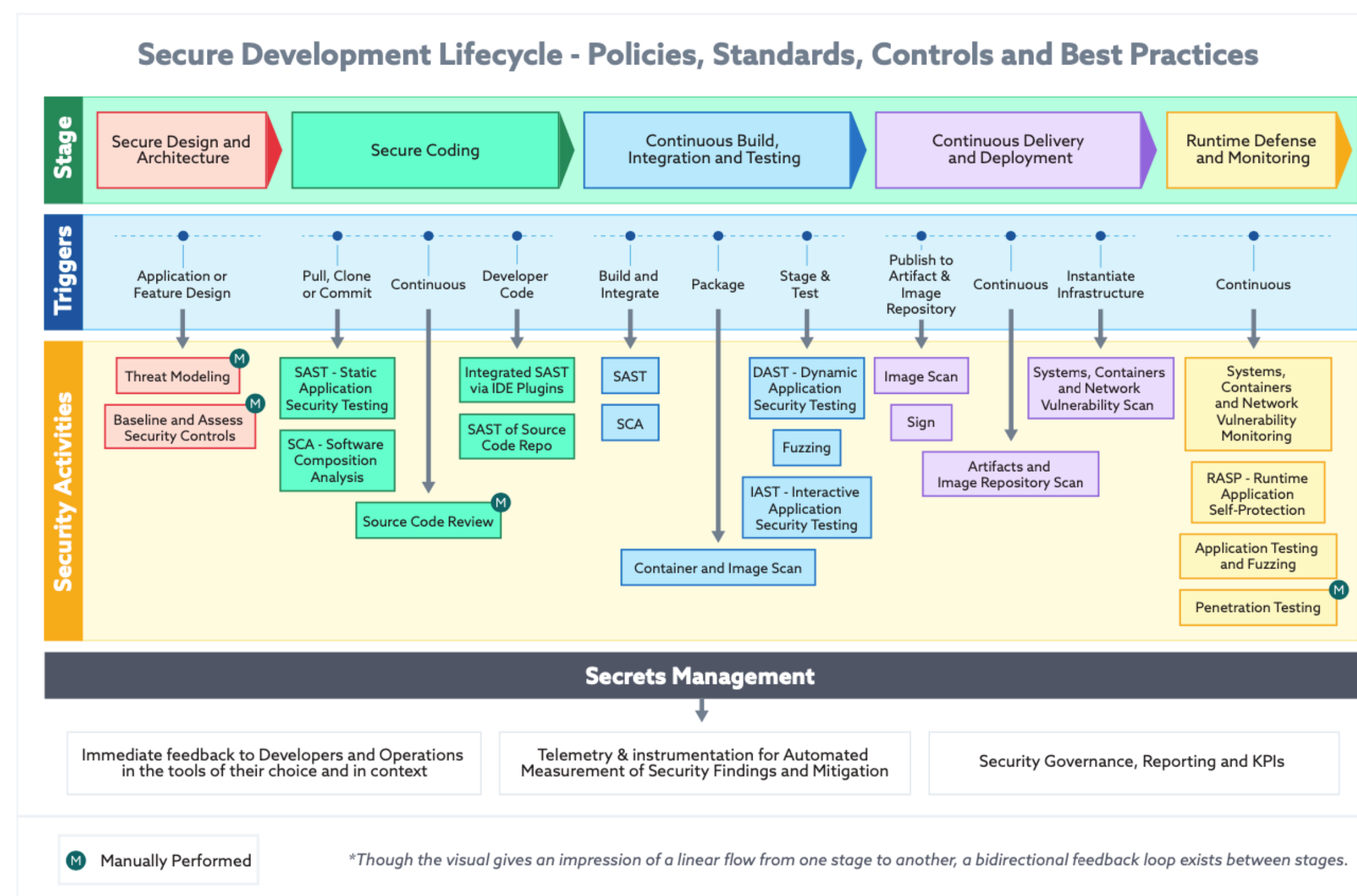


Figure 1: The CSA DevSecOps Delivery Pipeline







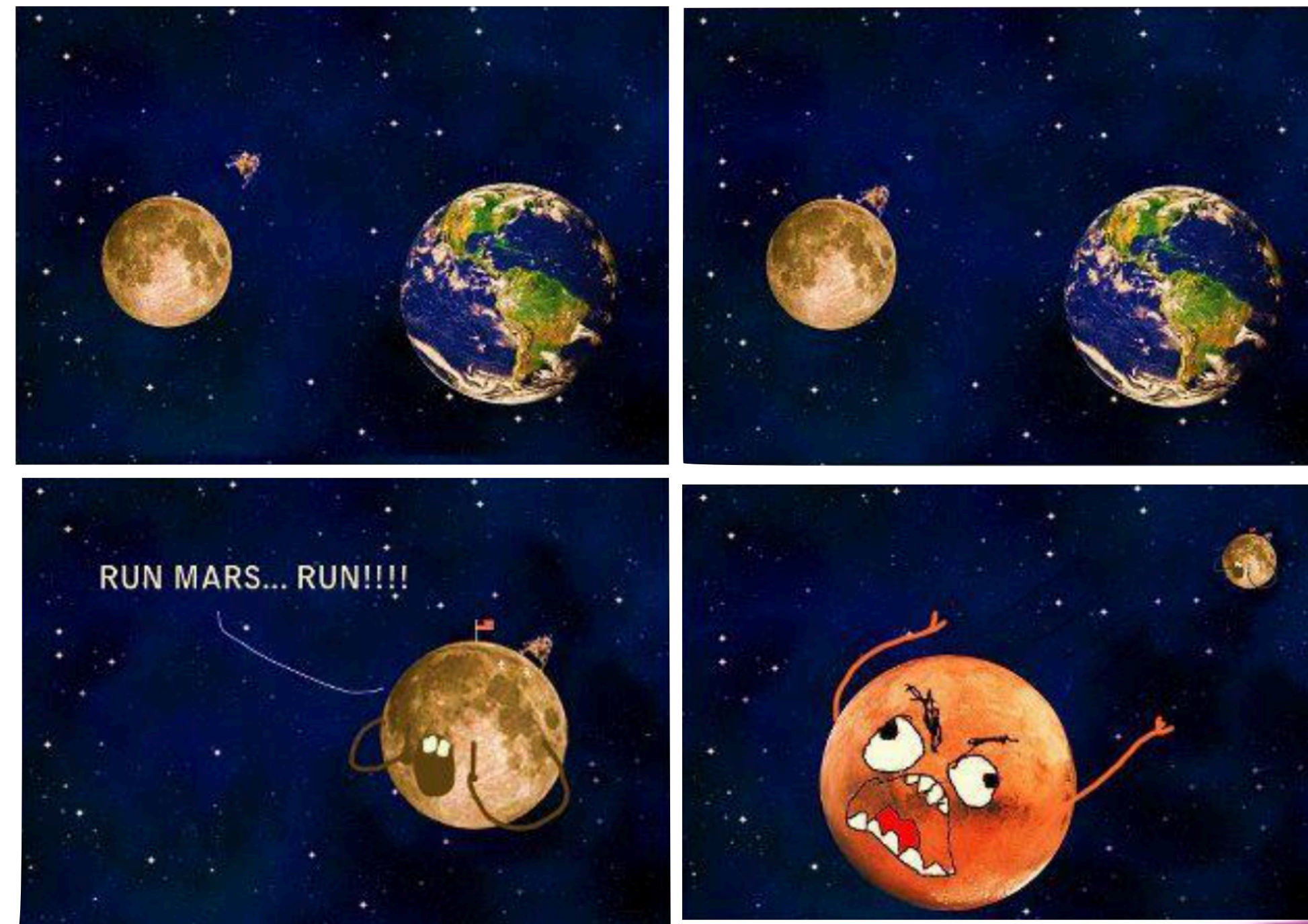
# How?



# Cultural Support



# Humans.









# Exec Buy-in



Never trick staff, ever.



# Training





# Full Service Ownership





# Capture the Flag





# Threat Modeling

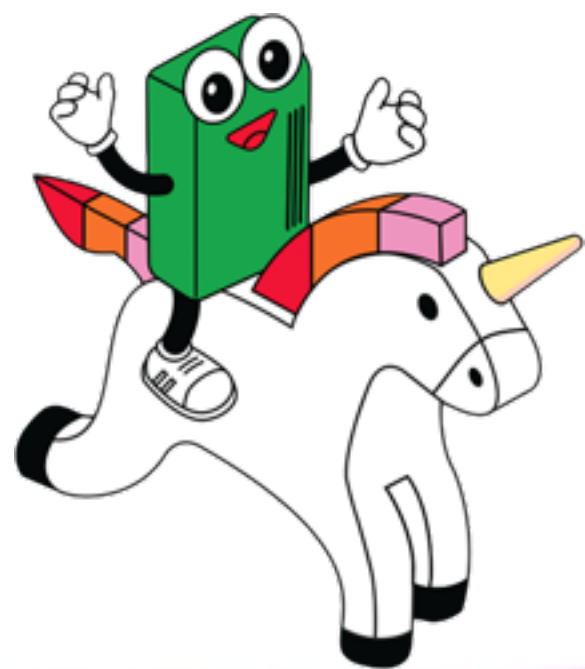








# Secure Incident Response





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**



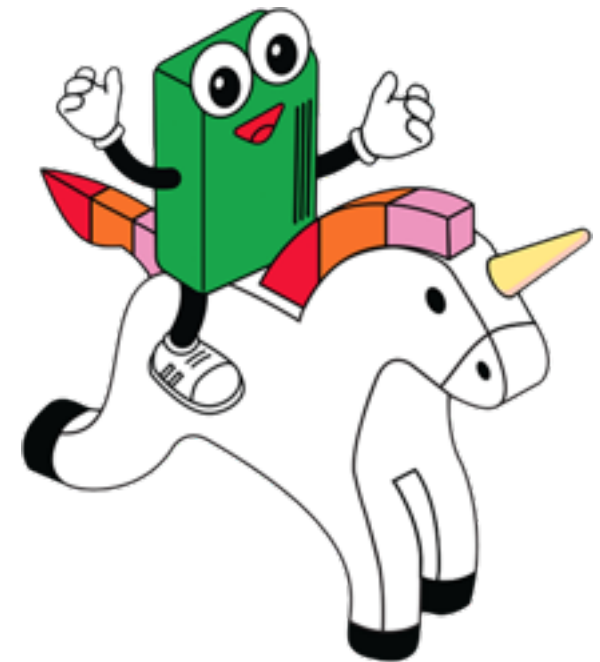
# External communication



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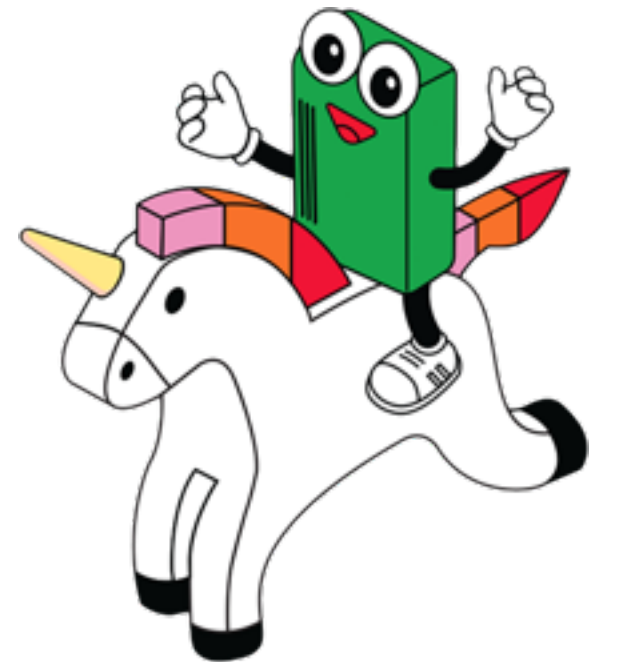






# Resources & References

[noti.st/quintessence](https://noti.st/quintessence)





# Questions?

Quintessence Anx  
Developer Advocate

PagerDuty

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