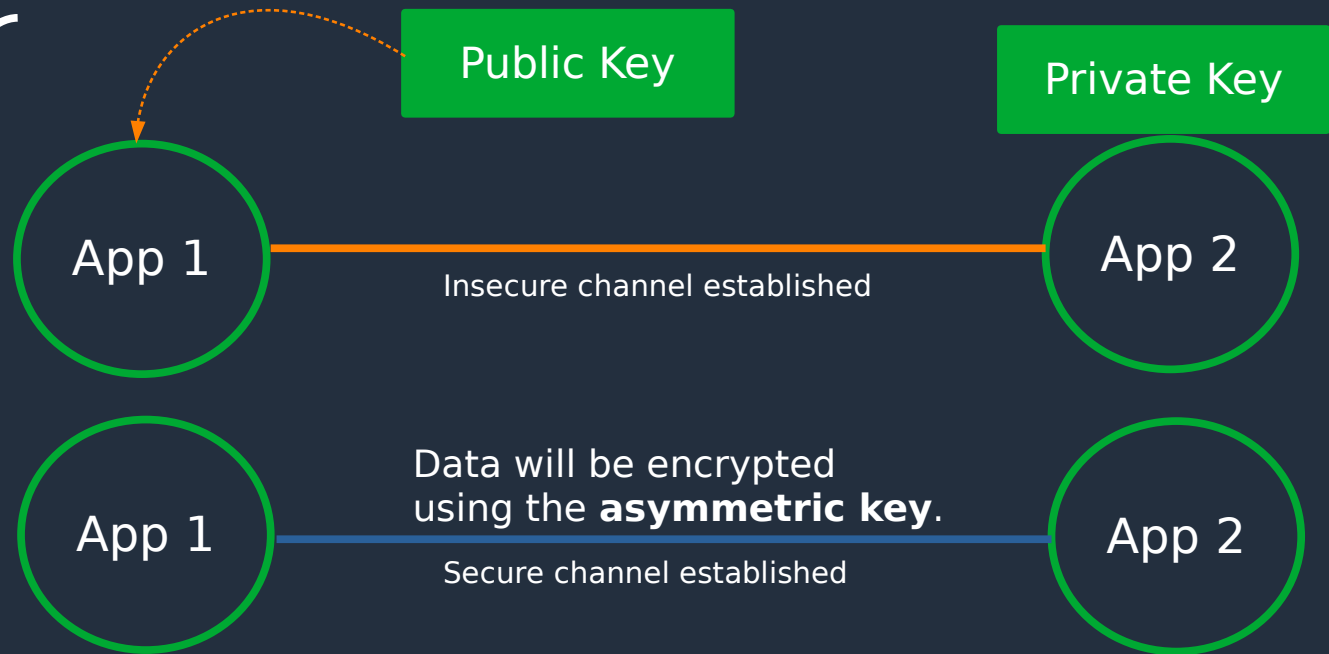
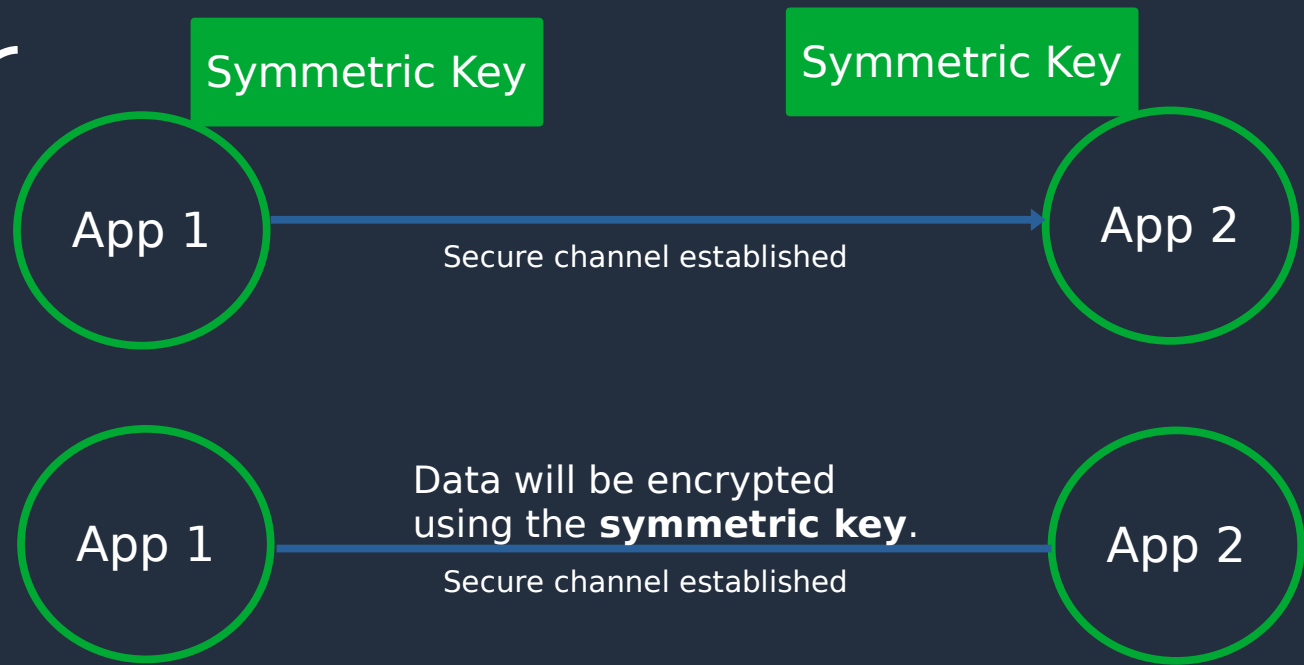
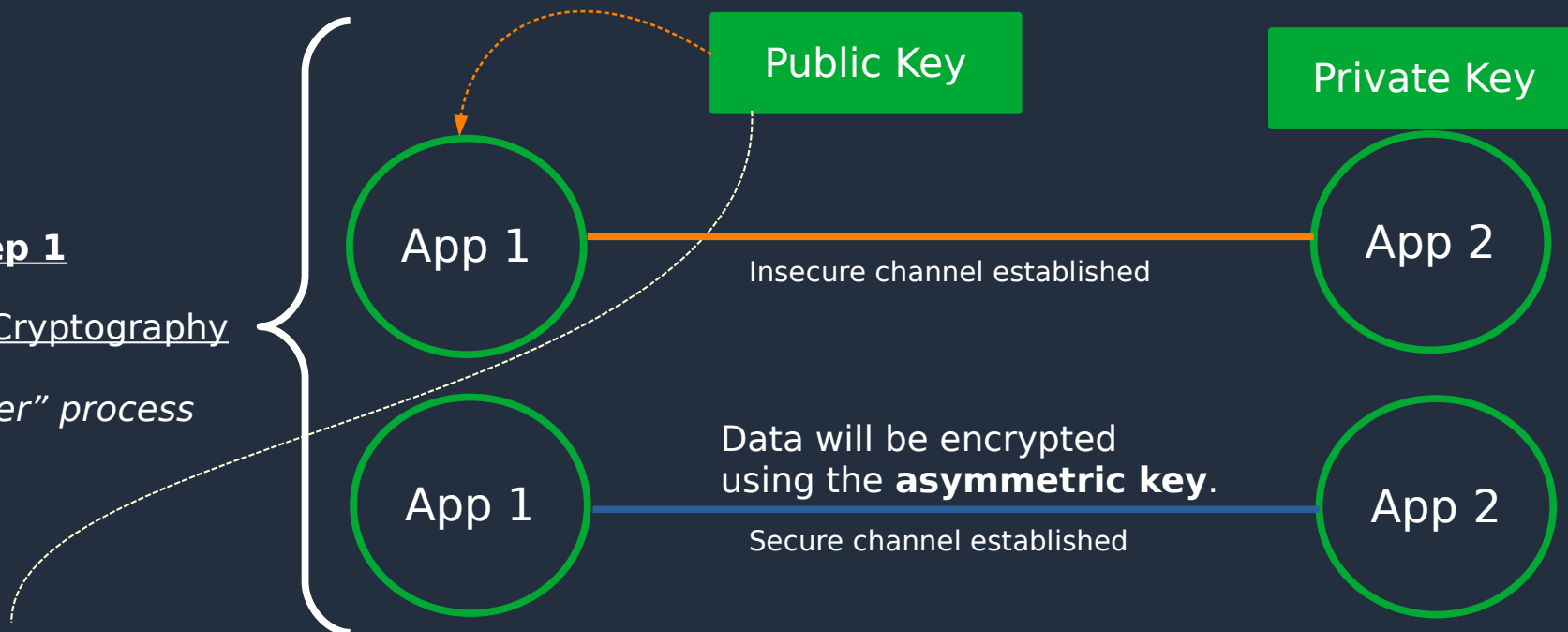
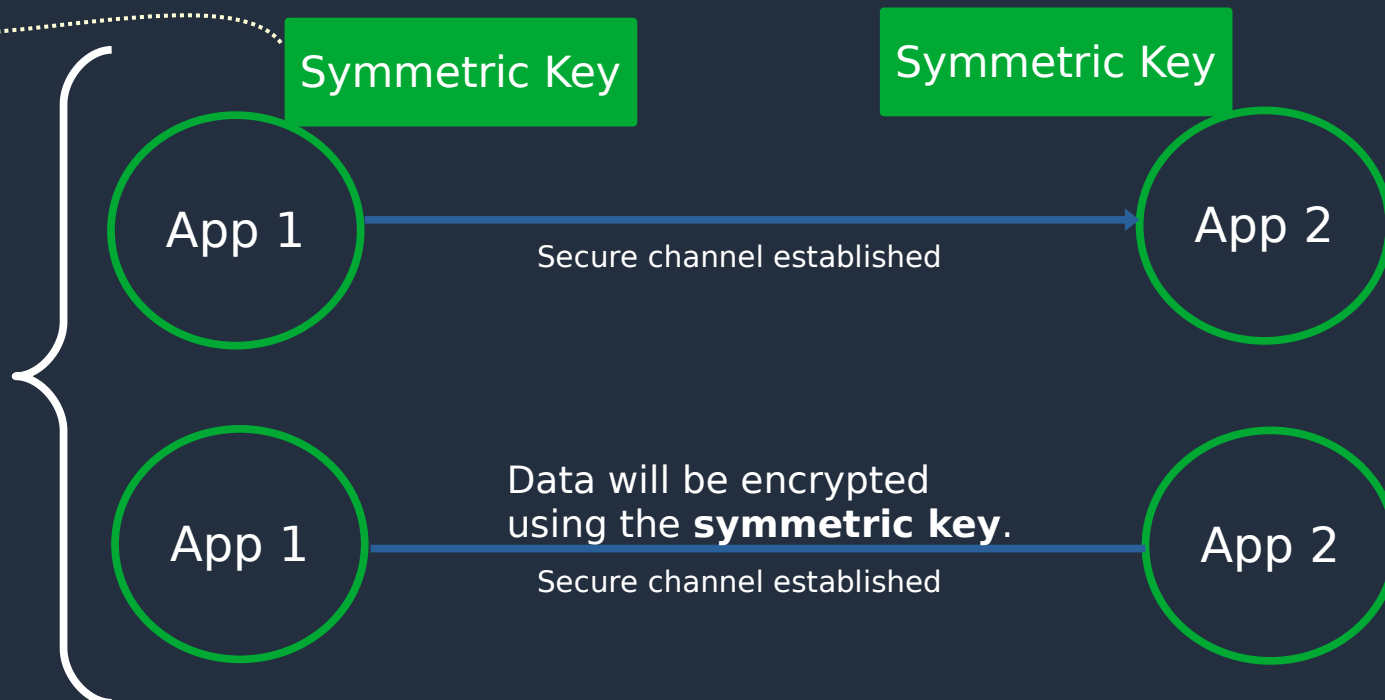


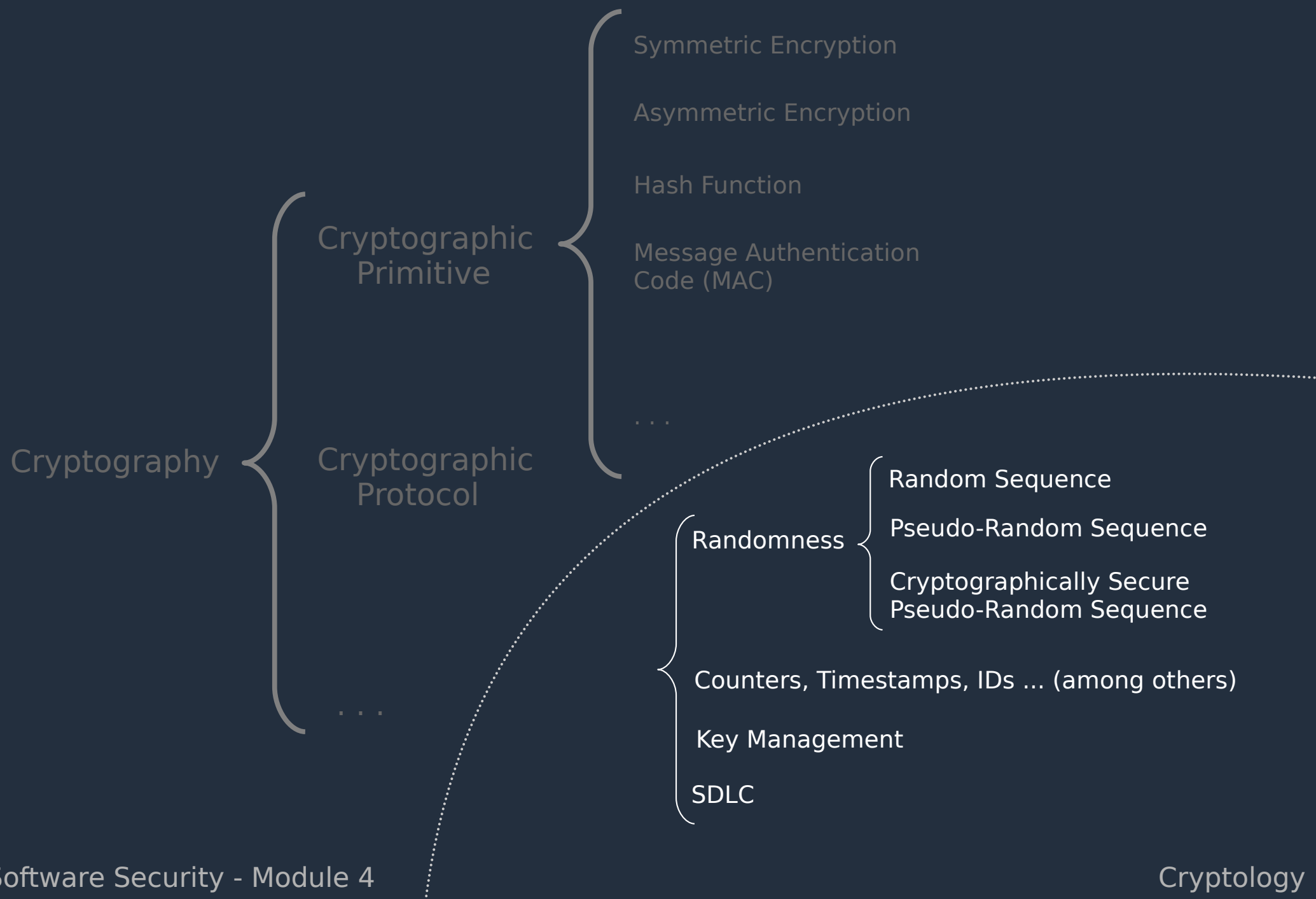
Welcome

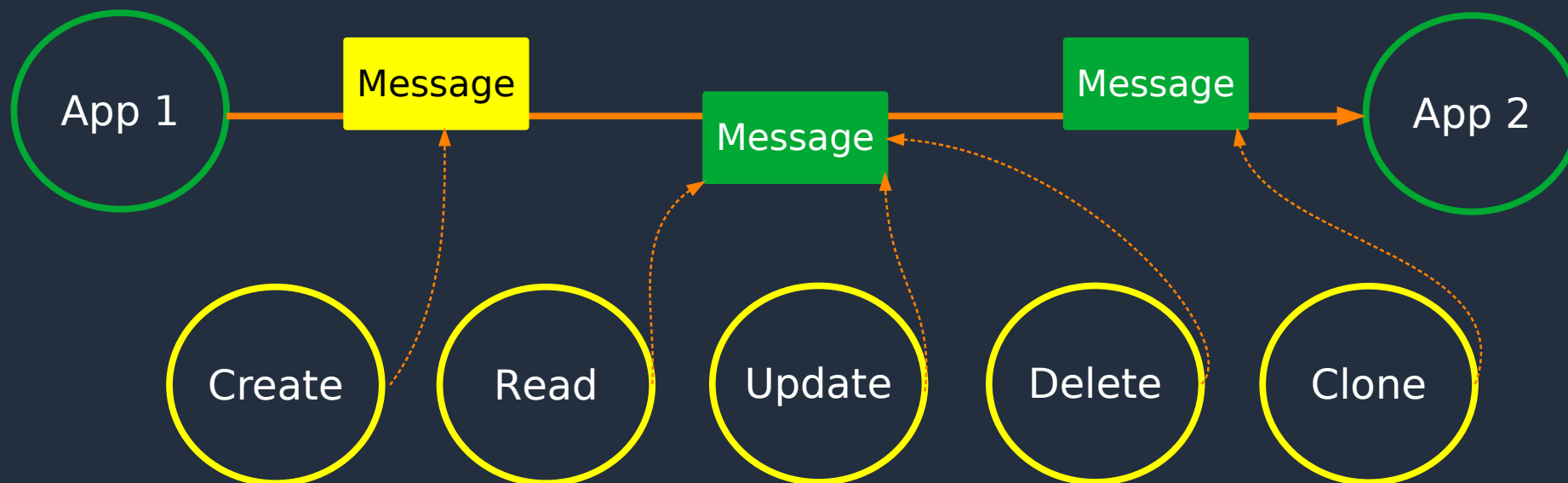
- About this adventure:
github.com/CuboCyberSecurity
- Consider all these modules as an introduction and as a way of sharing some key ideas (some *puzzle pieces*).
- It is a *free version* training:
 - Incomplete and imprecise information.
 - If you get confused, do not run away and make your own interpretations.
- Eventually, I'm going to share a much more complete and clear picture on the Wiki.

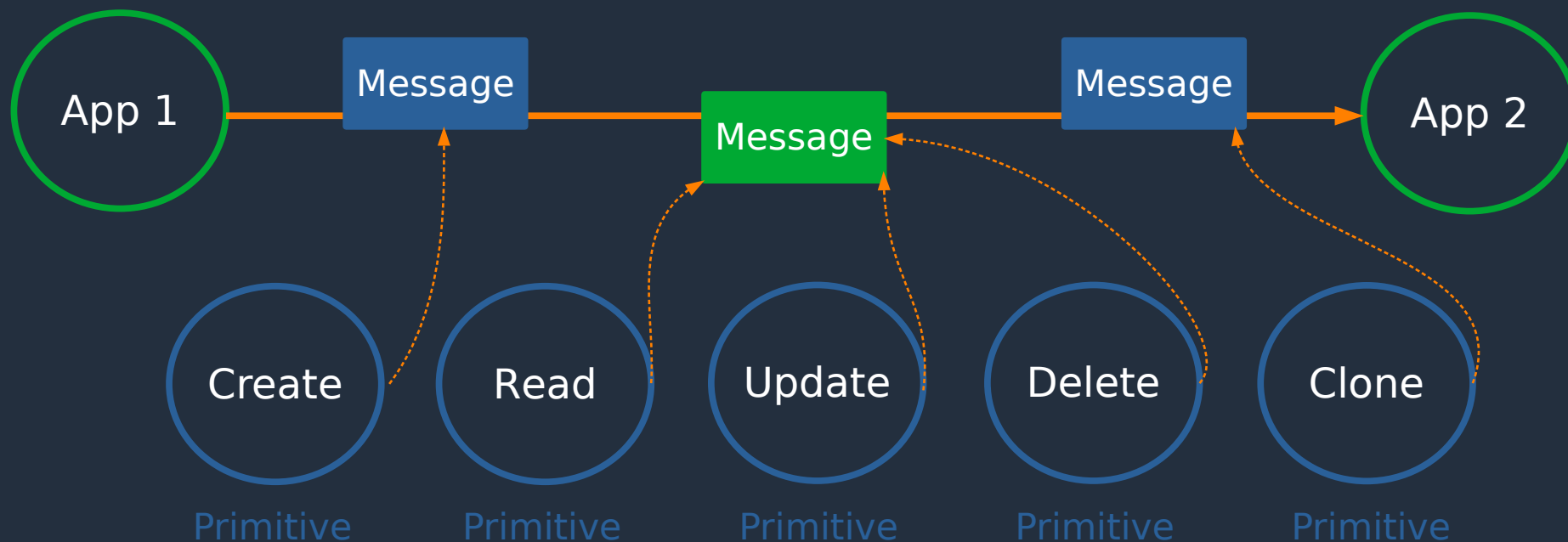


Step 1Asymmetric Cryptography*It's a "slower" process***Step 2**Symmetric Cryptography*It's a "faster" process*

Step 1Asymmetric Cryptography*It's a "slower" process***Key Distribution Problem***Chicken-or-Egg Problem?***Step 2**Symmetric Cryptography*It's a "faster" process*

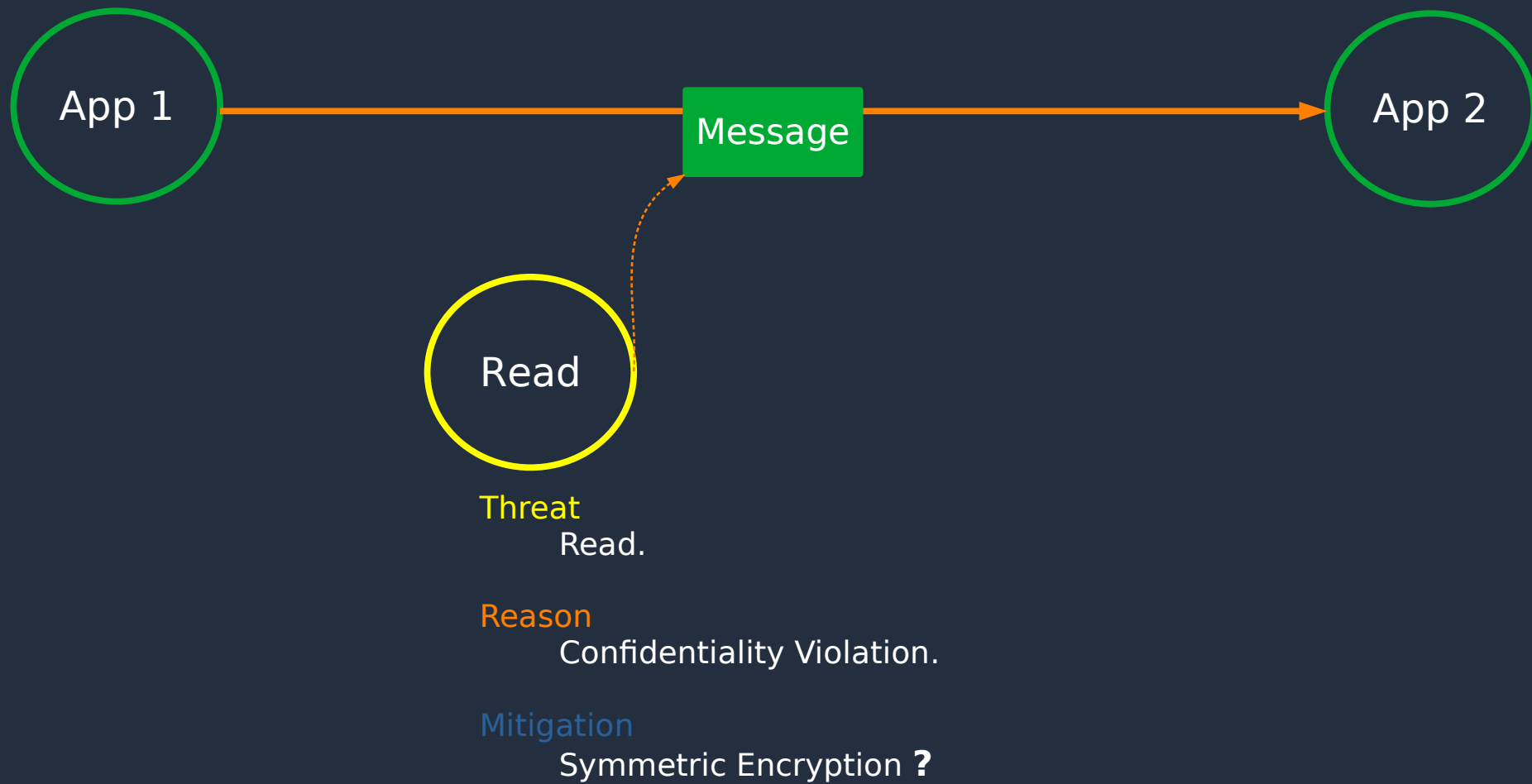


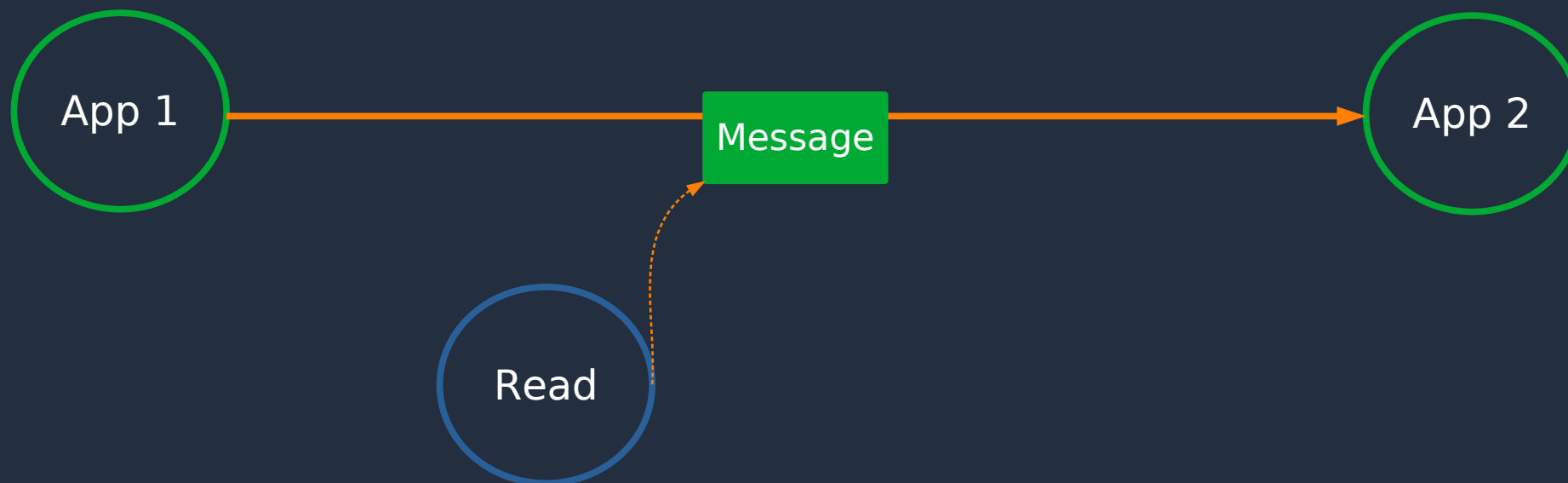


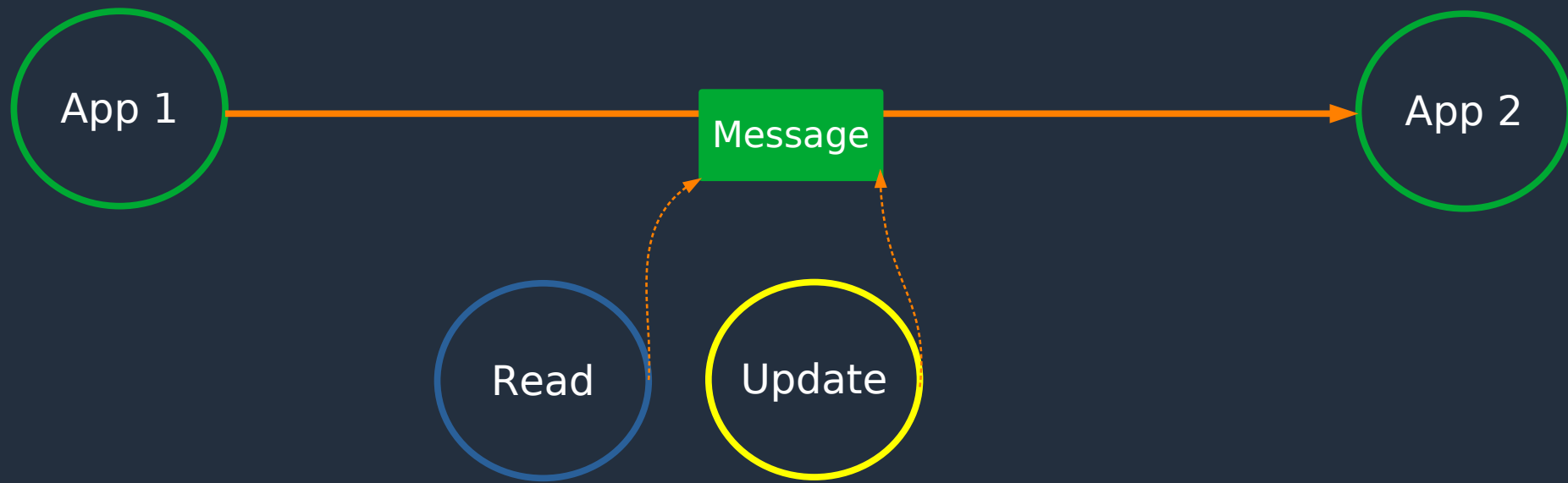


Task

Use Cryptographic Primitives to mitigate these threats.



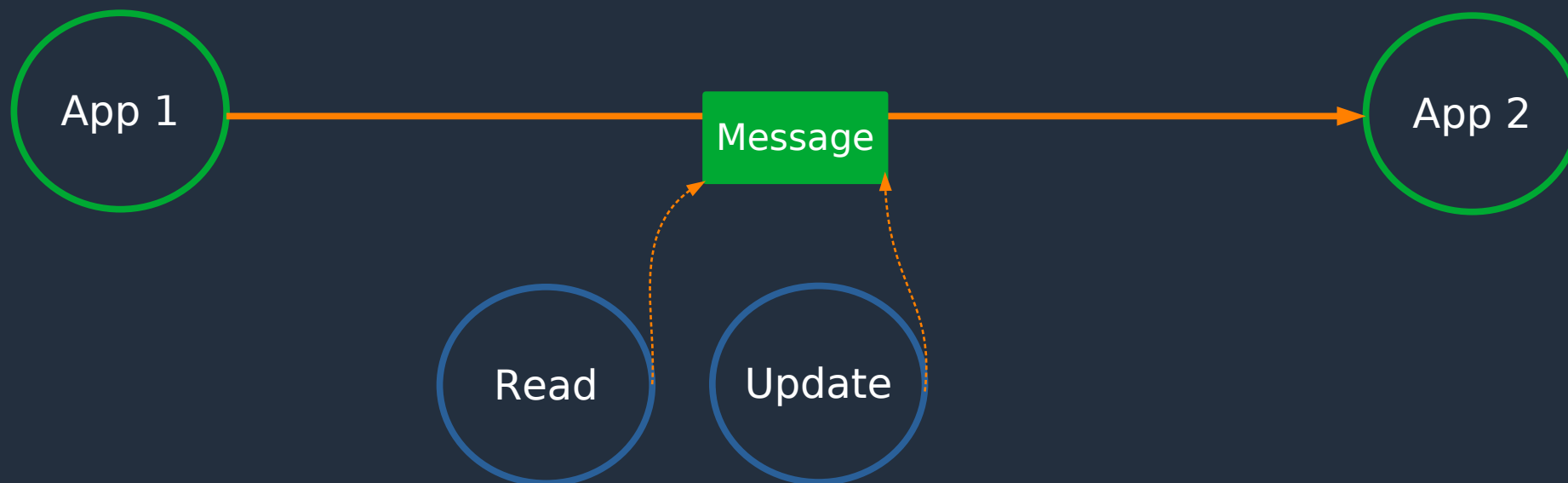


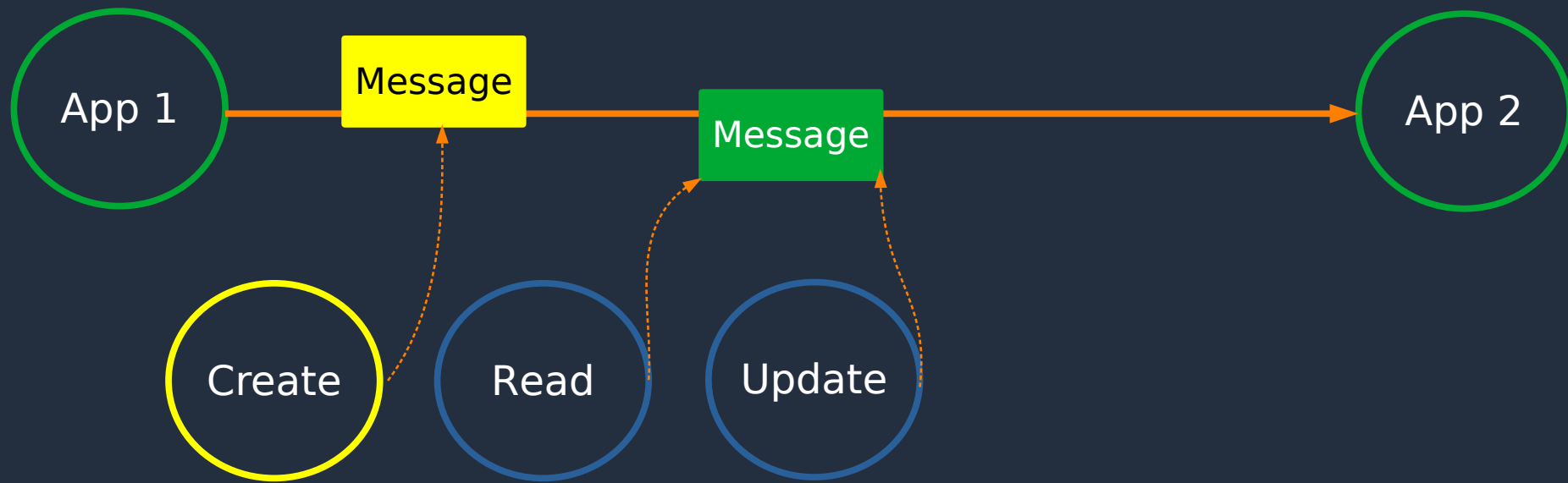


Threat
Update.

Reason
Integrity Violation.

Mitigation
Hash Function ?
Message Authentication Code (MAC) ?





Threat

Create.

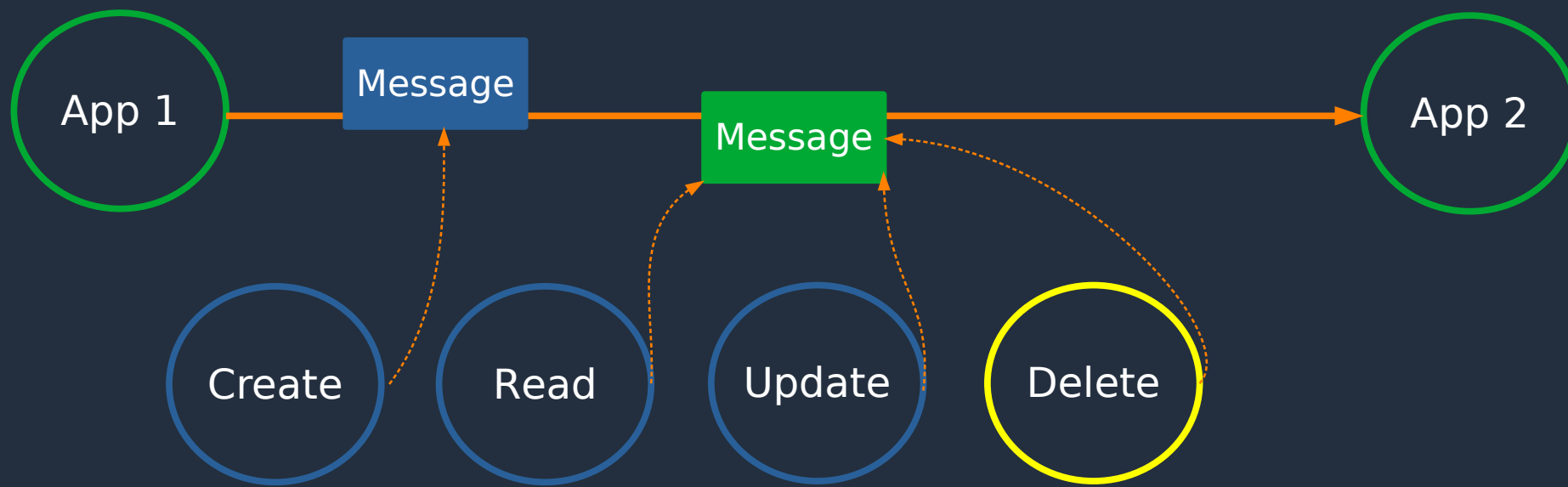
Reason

Authentication Violation.

Mitigation

MAC + counter ?

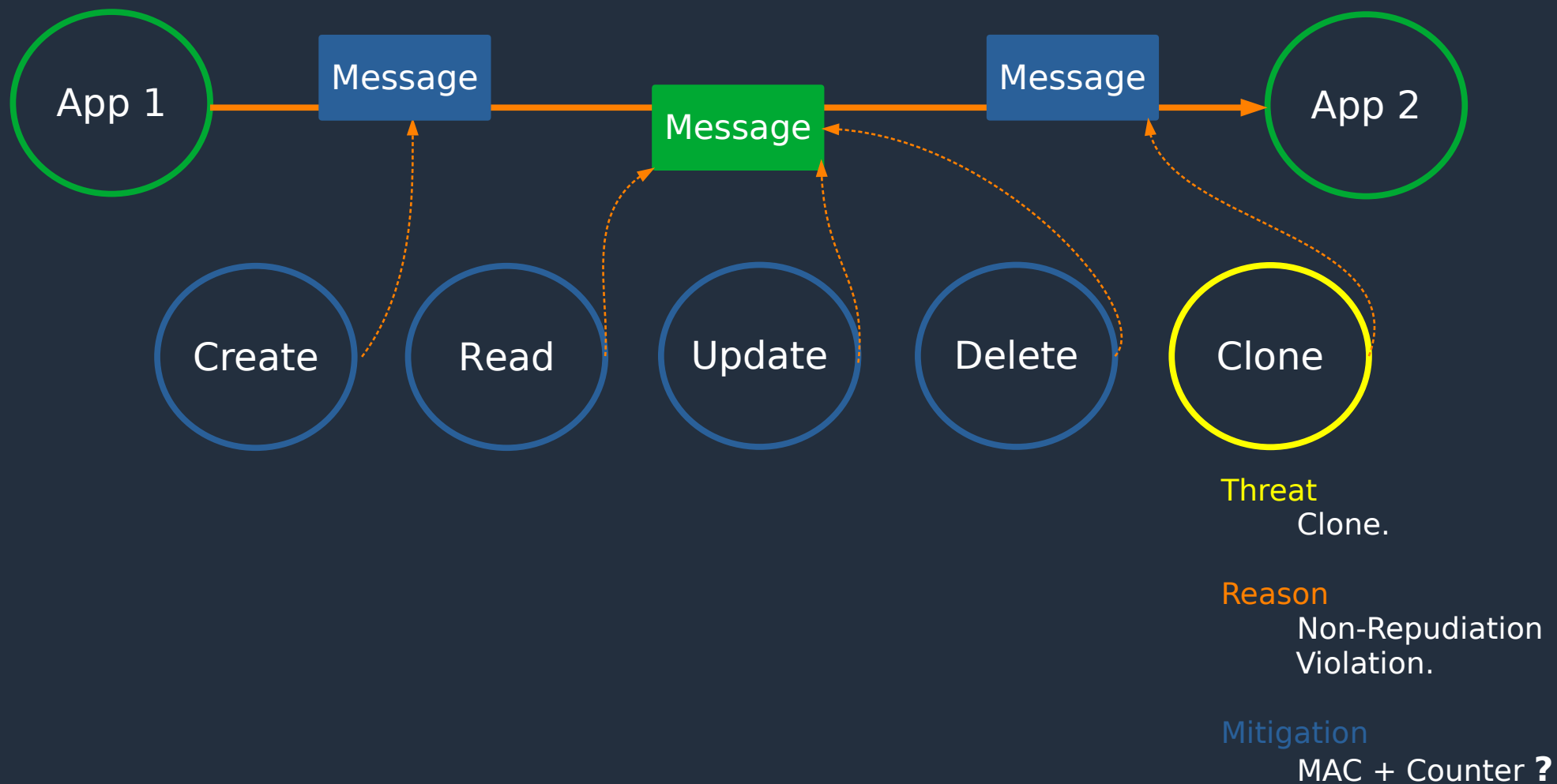
Signature ?

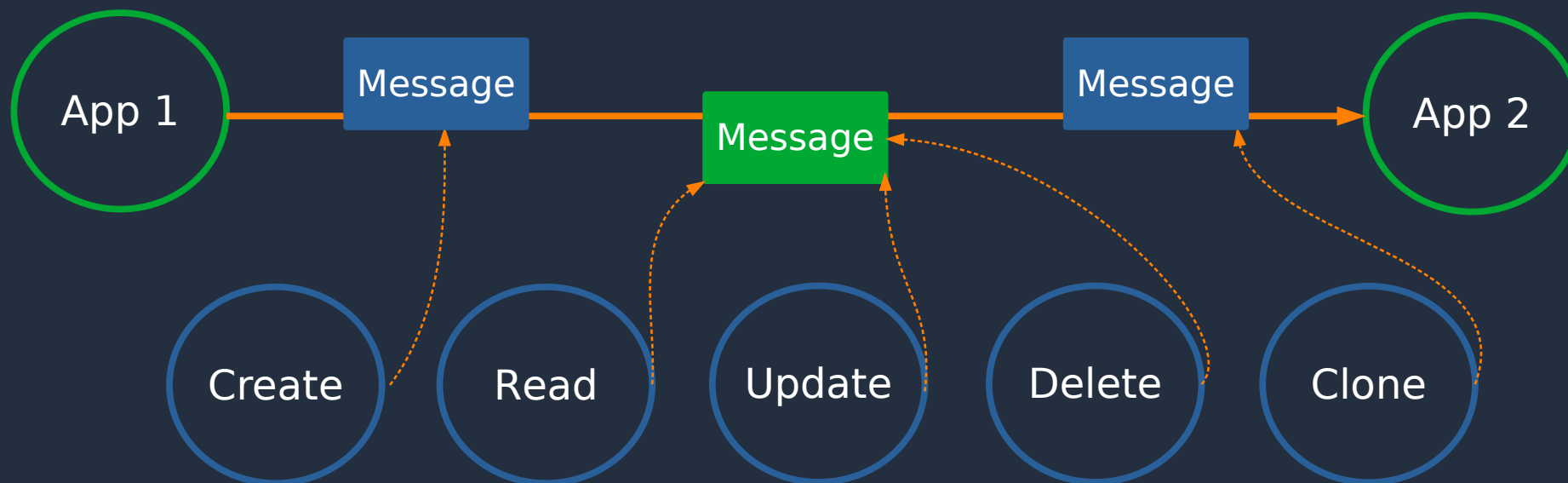


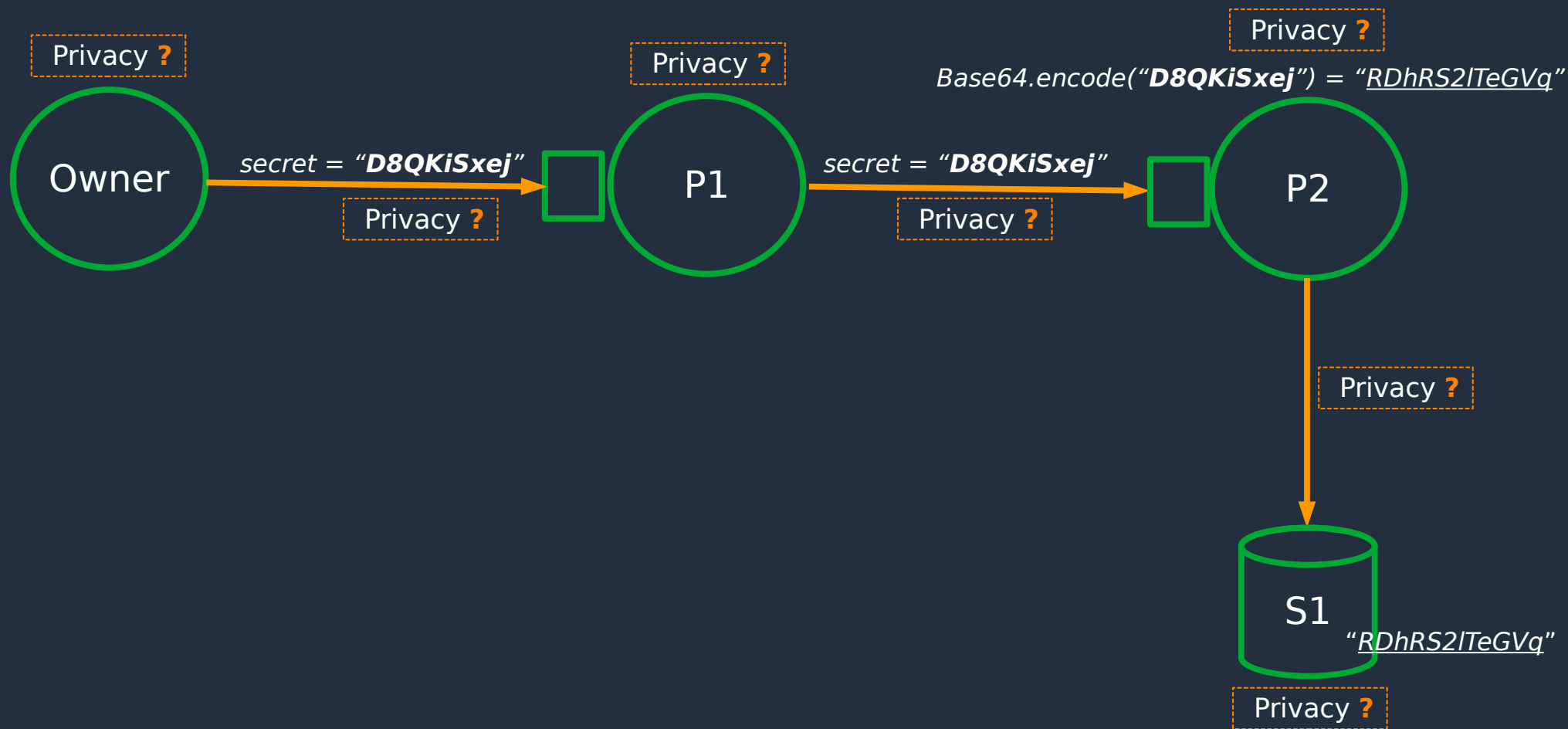
Threat
Delete.

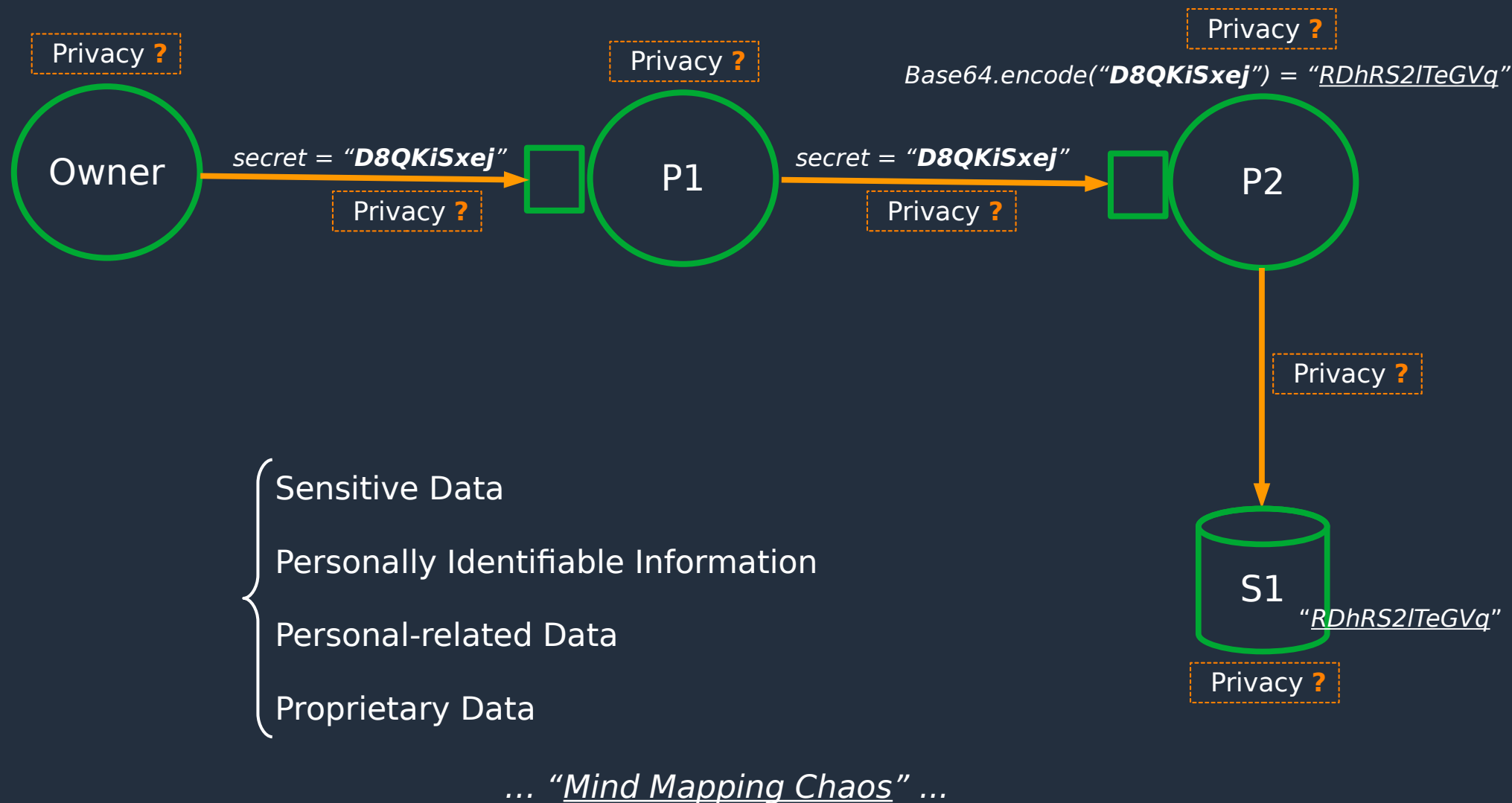
Reason
Integrity Violation.
Availability Violation.

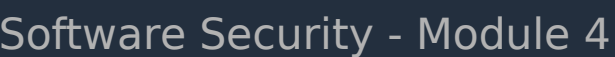
Mitigation
MAC + Counter + more ?

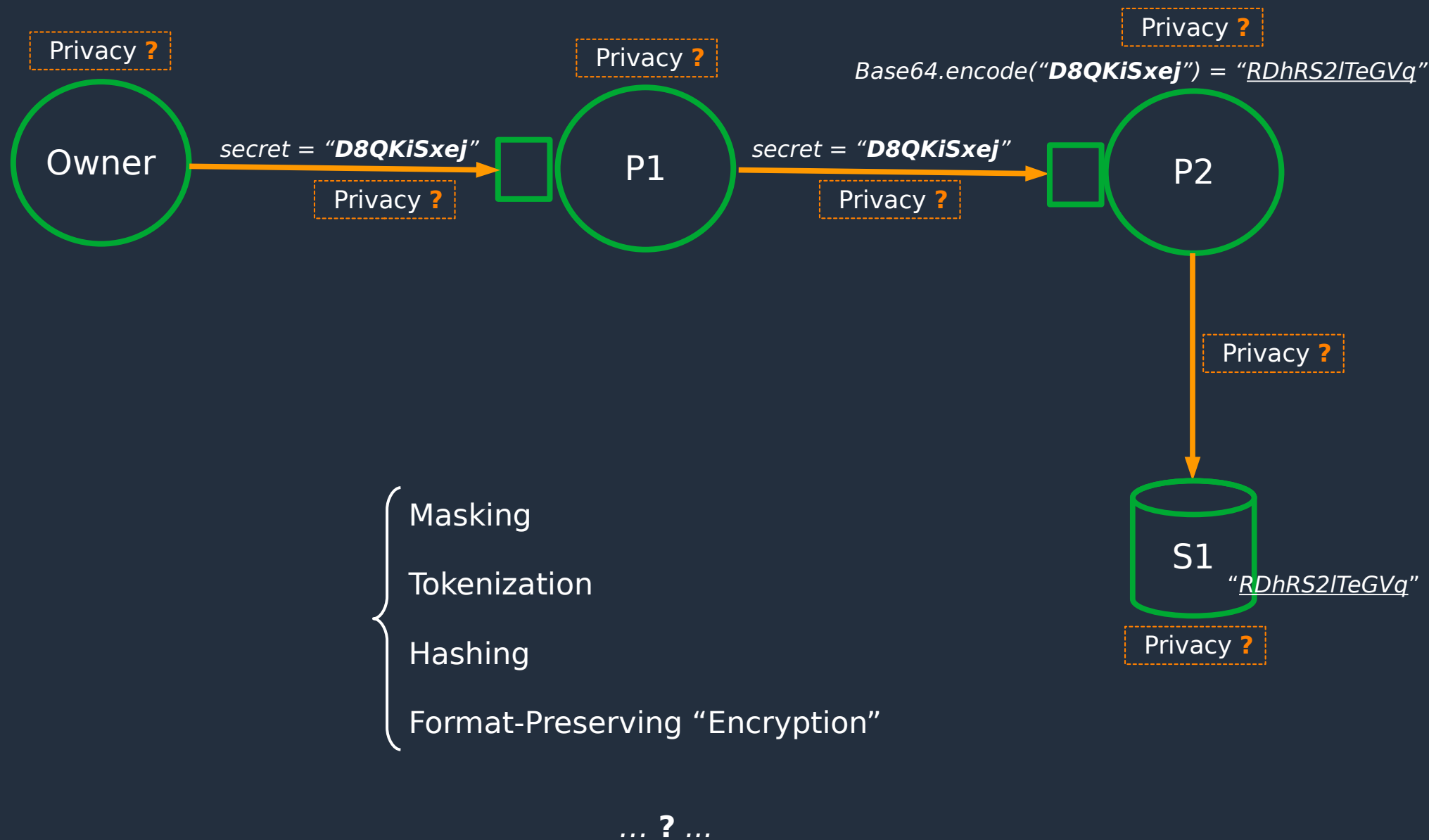


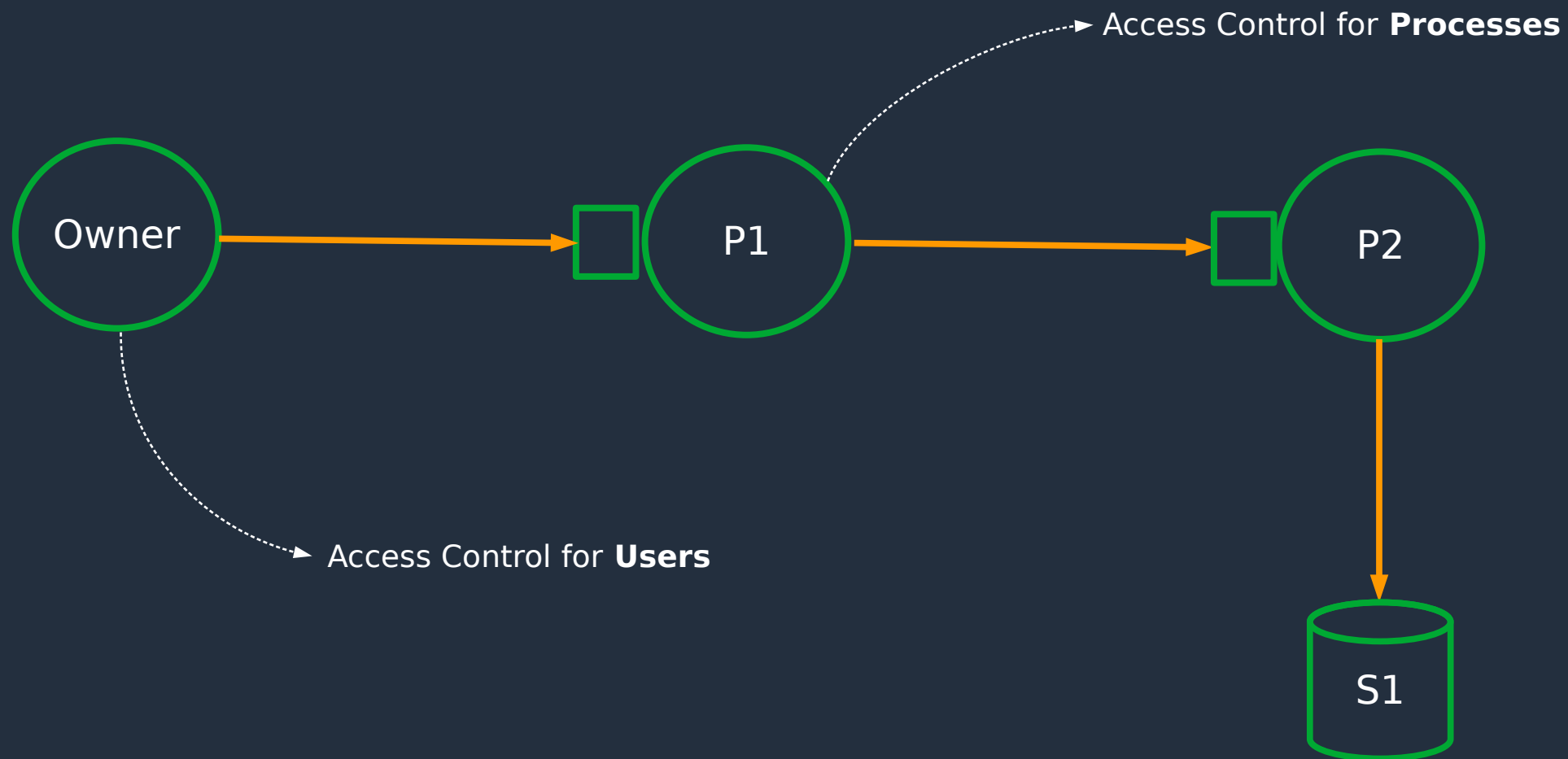


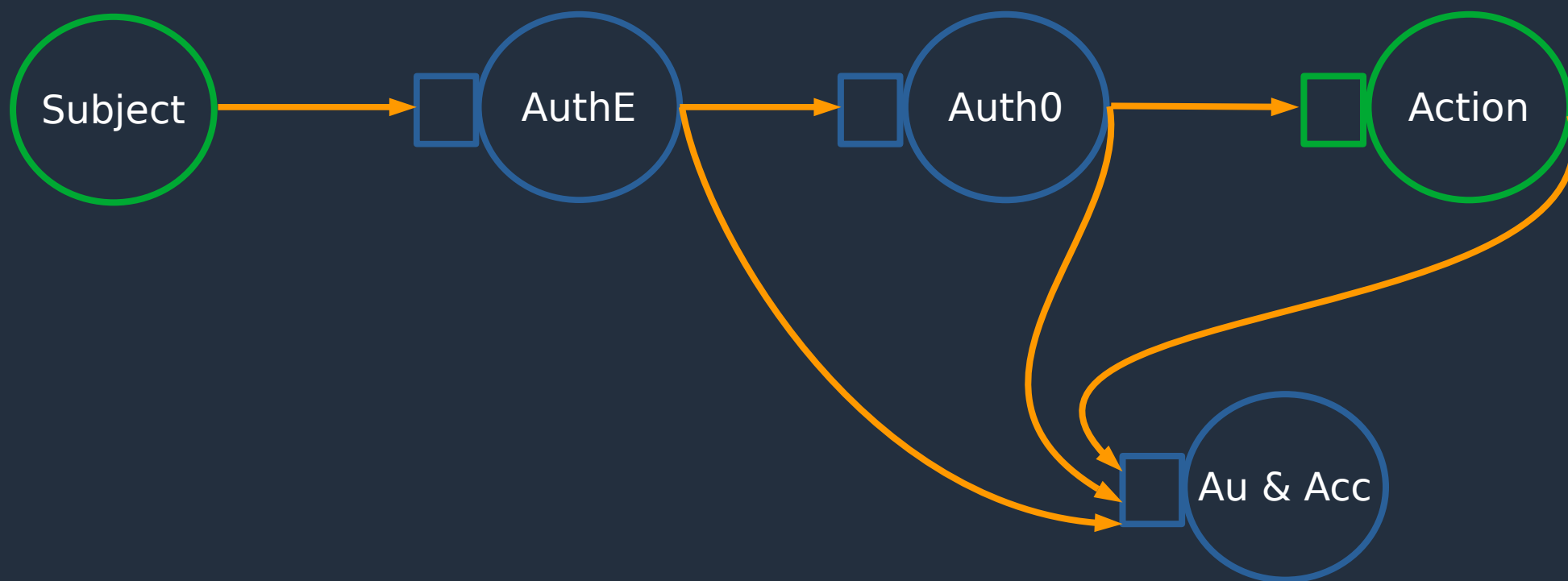
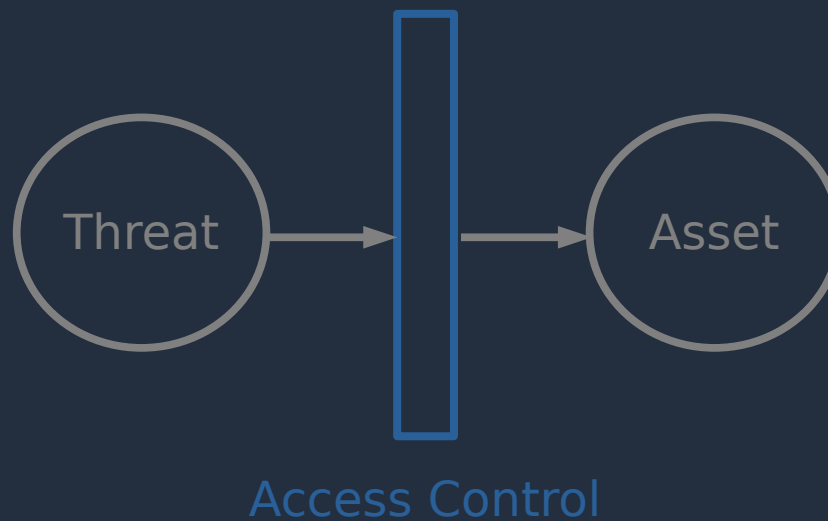












Security Framework - Access Control

1) Identification

... *"Creating Subject's Identity"* ...

2) Authentication

... *"Verifying Identity"* ...

3) Authorization

... *"Verifying Permissions"* ...

4) Auditing

... *"Monitoring"* ...

5) Accountability

... *"Saving evidence"* ...

	NIST Framework				
<i>Asset_Name</i>	Identify	Protect	Detect	Respond	Recover
<u>C</u> R U D					
€ <u>R</u> U D					
€ R <u>U</u> D					
€ R U <u>D</u>					

Keep it simple.