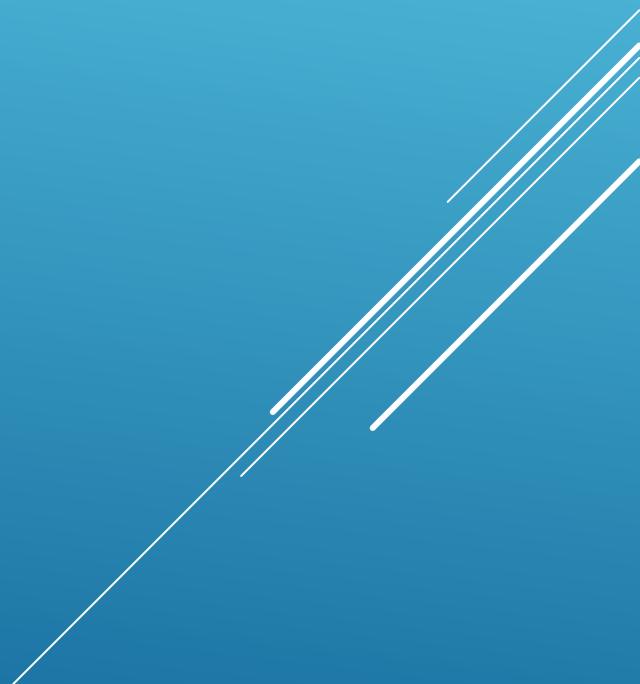


THREAT MODELLING

When you've never done it before

WHO AM I?

- ▶ Kade Morton
- ▶ Security Consultant with Quantum Security
- ▶ BA Criminology and Criminal Justice
- ▶ Mentor Mozilla Open Leaders



THIS IS THE STORY

- ▶ Of going from knowing nothing...
- ▶ To basic threat modelling
- ▶ This is the beginning but not the end



MOZILLA OPEN LEADERS

- ▶ <https://foundation.mozilla.org/en/opportunity/mozilla-open-leaders/>
- ▶ Mentees that have already been through OL are invited to be mentors
- ▶ You help mentees work through OL coursework
- ▶ Provide skills based assistance



WHO WAS I MENTORING?

- ▶ Asuntos del Sur
- ▶ ADS has the central objective of becoming a platform for deliberations and transformation actions to generate more democratic and inclusive societies in Latin America.



BASIC THREAT MODELLING

- ▶ Hacked together from Microsoft's STRIDE threat modelling approach
- ▶ Three questions:
 - ▶ What are you building?
 - ▶ What can go wrong? STRIDE
 - ▶ Spoofing of user identity
 - ▶ Tampering
 - ▶ Repudiation
 - ▶ Information disclosure
 - ▶ Denial of Service
 - ▶ Elevation of privileges
 - ▶ What are you going to do about it?



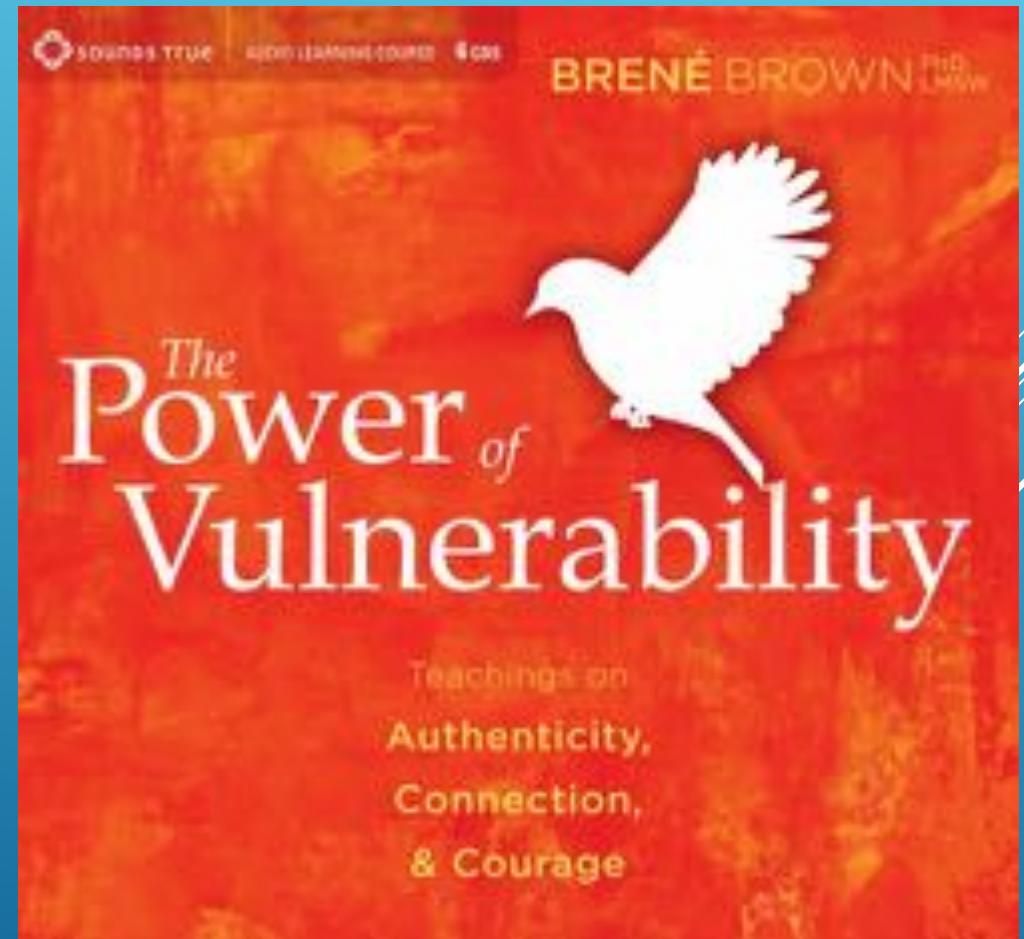
WHAT IS A RISK?

- ▶ A risk is the “possibility of loss or injury”
- ▶ An **event** that causes loss or injury



WHAT IS A VULNERABILITY?

- ▶ A vulnerability is “an opening to attack or damage”
- ▶ An **intrinsic aspect** about something that enables loss or injury



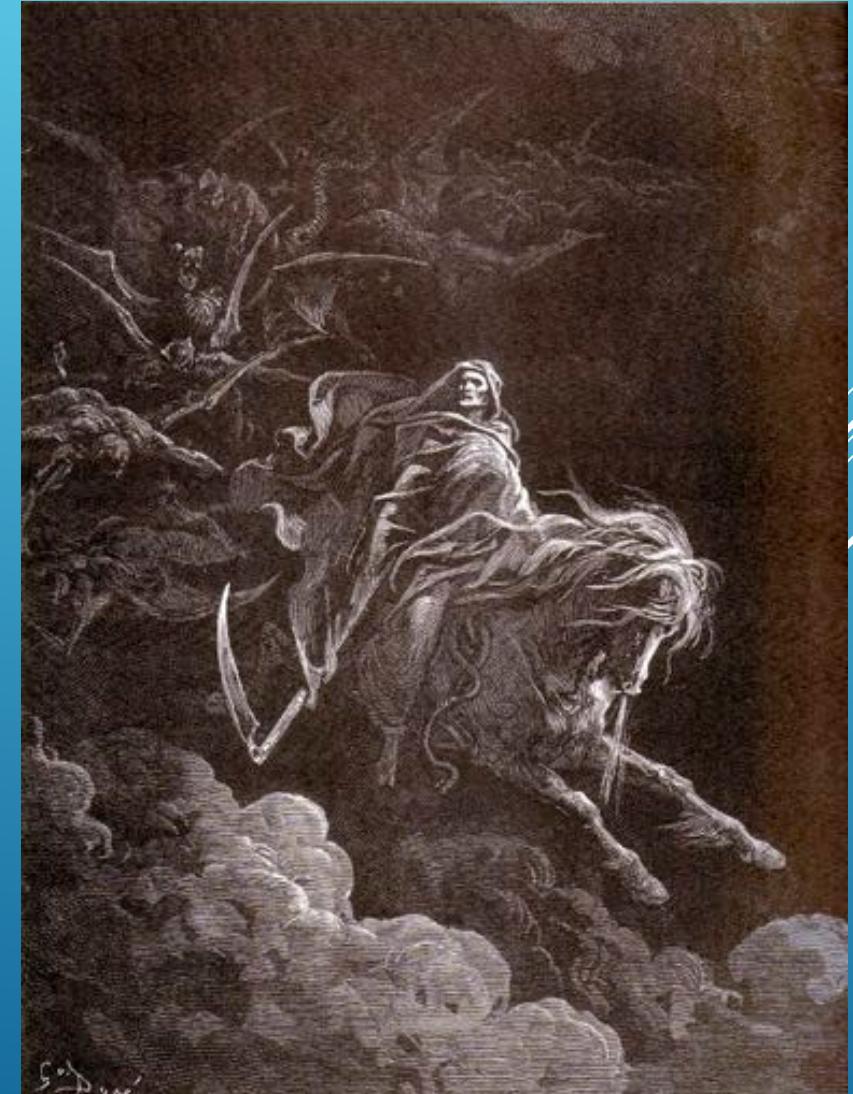
WHAT IS A THREAT?

- ▶ A threat is “an indication of something impending”
- ▶ **Something/someone** might inflict loss or injury



WHAT DO YOU GET WHEN YOU PUT ALL THAT TOGETHER?

- ▶ We may all die (event, risk) because we are malnourished (intrinsic aspect, vulnerability) and can't fight off the plague (something, threat)
- ▶ Our web app may disclose information about users (event, risk) because hackers (someone, threat) exploit the lack of sanitising entries to input fields (intrinsic aspect, vulnerability) in our web app



WHAT IS THREAT MODELLING AND WHY WOULD I WANT TO DO IT?

- ▶ Threat modelling: identifying the ways that something/someone can inflict loss or injury to us
- ▶ They will leverage vulnerabilities
- ▶ The event of loss and injury is the risk
- ▶ Why threat model? To put things in place to minimise the loss or injury

**STOP
INJURIES
BEFORE
THEY OCCUR**



REMEMBER! BASIC THREAT MODELLING

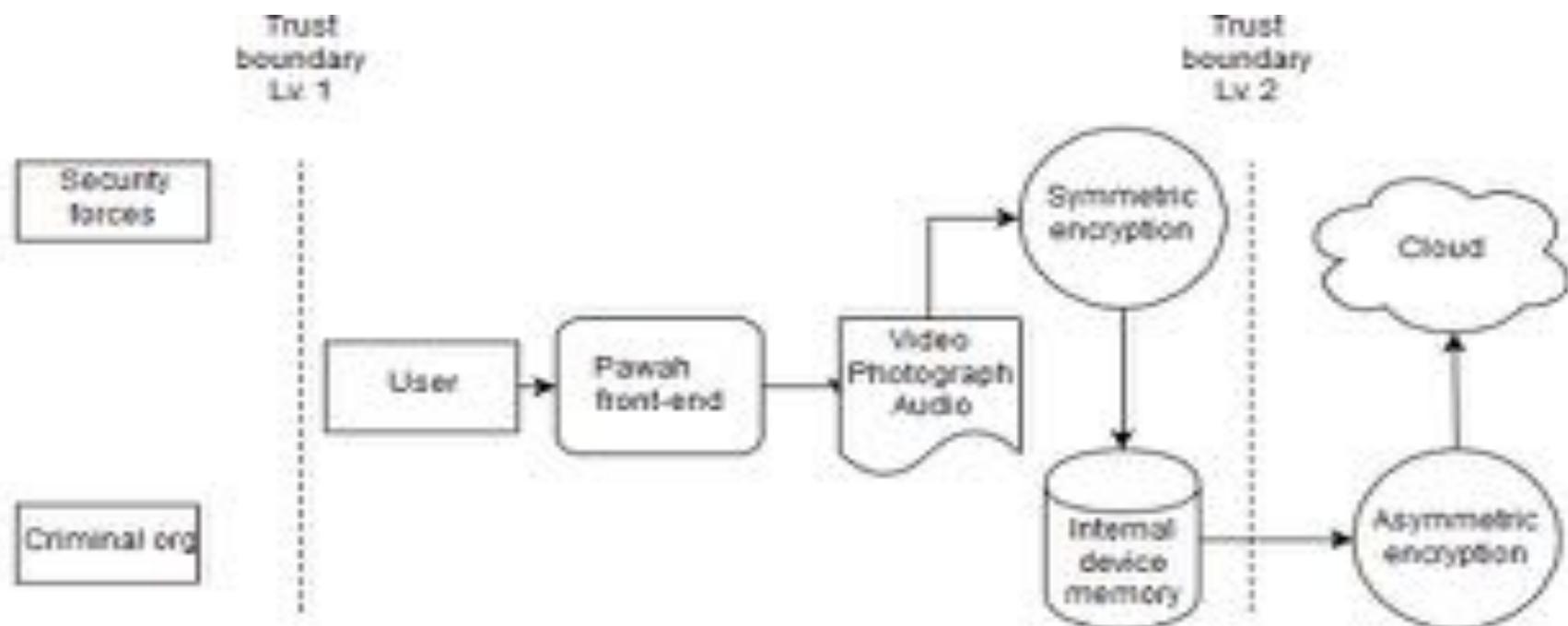
- ▶ Three questions:
 - ▶ **What are you building?**
 - ▶ What can go wrong?
 - ▶ What are you going to do about it?



WHAT WAS ASUNTOS DEL SUR BUILDING?



- ▶ an app designed to defend the right to social protest
- ▶ ...an application that allows the confidential and comprehensive recording of evidence of acts of human rights violations so that they can be subsequently reported



Threats

- Violent repression
- Intimidation
- Physical attack
- Kidnapping
- Imprison

Threats

- Device seizure
- Intimidation
- Device hacking

Threats

- Network intervention
- Cloud hacking
- Impersonation
- Social engineering
- DDoS

Trust boundaries – data shifts environment

Boundary around the app on the phone and cloud storage

THIS IS ALL VERY HIGH LEVEL

- ▶ Need to go lower
 - ▶ Enumerate
 - ▶ Technology
 - ▶ Protocols
 - ▶ Functionality that can be abused (PIN reset)
 - ▶ Flesh out connected systems
 - ▶ Cloud storage
 - ▶ Spoiler alert: Code repository
 - ▶ Spoiler alert: Log server

"You can't just copy-pase pseudocode into a program and expect it to work"



REMEMBER! BASIC THREAT MODELLING

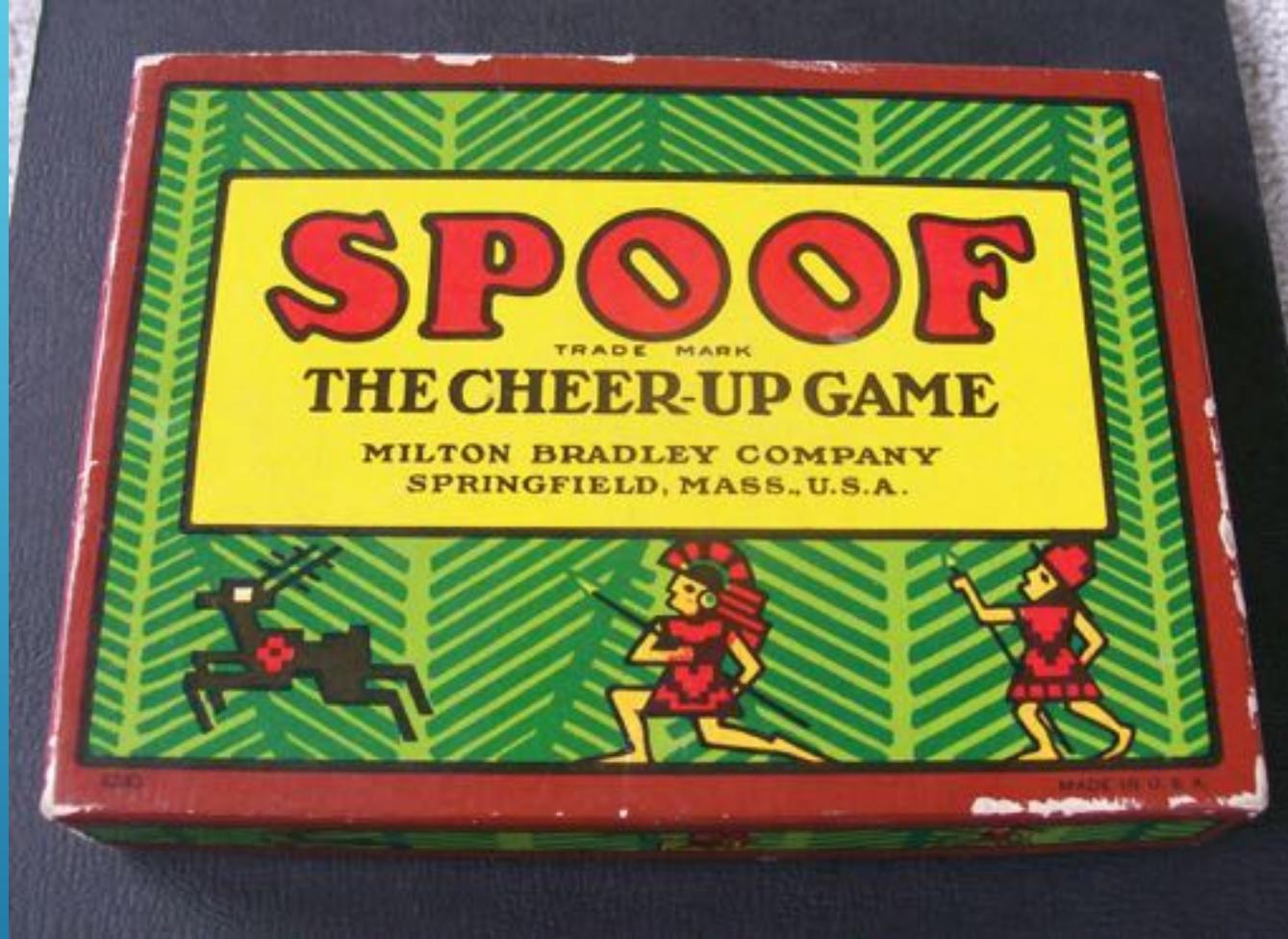
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 - ▶ What are you building?
 - ▶ **What can go wrong?**
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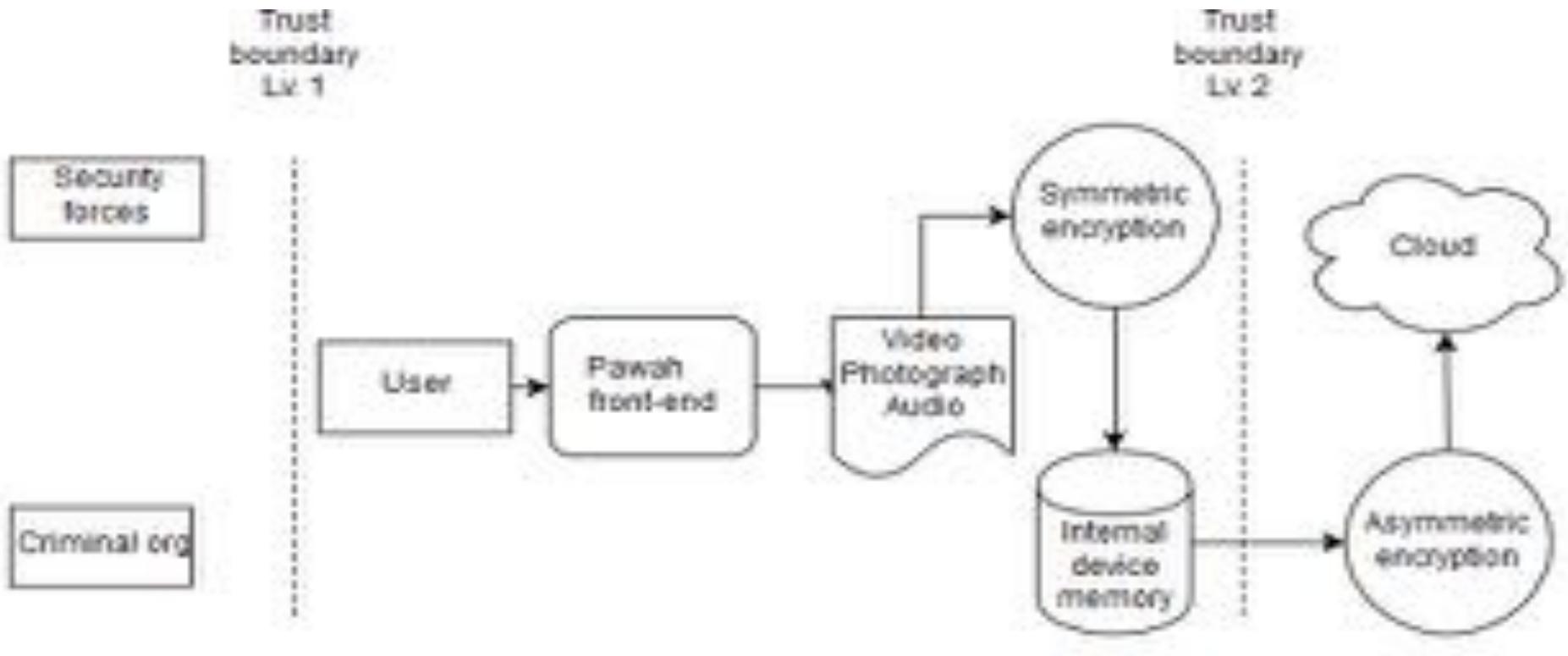
STRIDE

- ▶ Spoofing of User Identity
- ▶ Tampering
- ▶ Repudiation
- ▶ Information disclosure
- ▶ Denial of Service
- ▶ Elevation of privileges
 - ▶ Created by Microsoft
 - ▶ <https://web.archive.org/web/20070303103639/http://msdn.microsoft.com/msdnmag/issues/06/11/ThreatModeling/default.aspx>





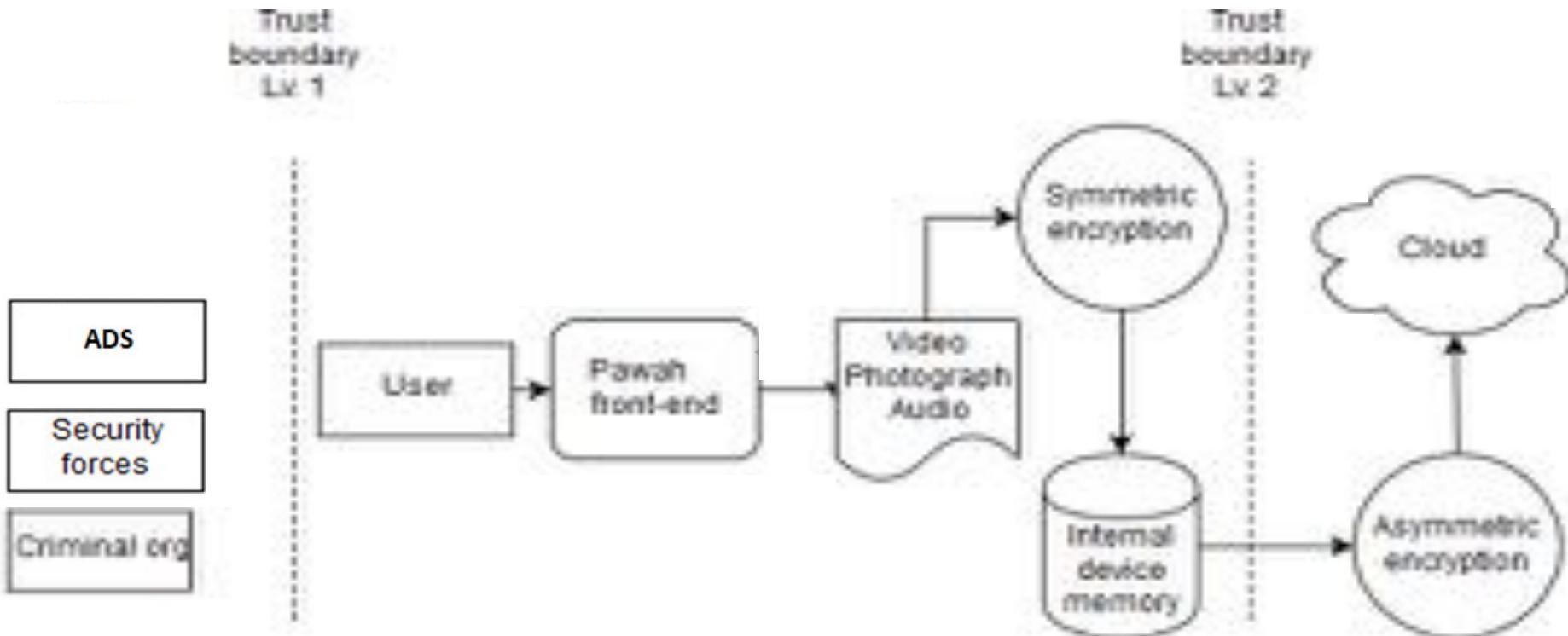
STRIDE - SPOOFING OF USER IDENTITY



Threats

Threats

Threats



Threats

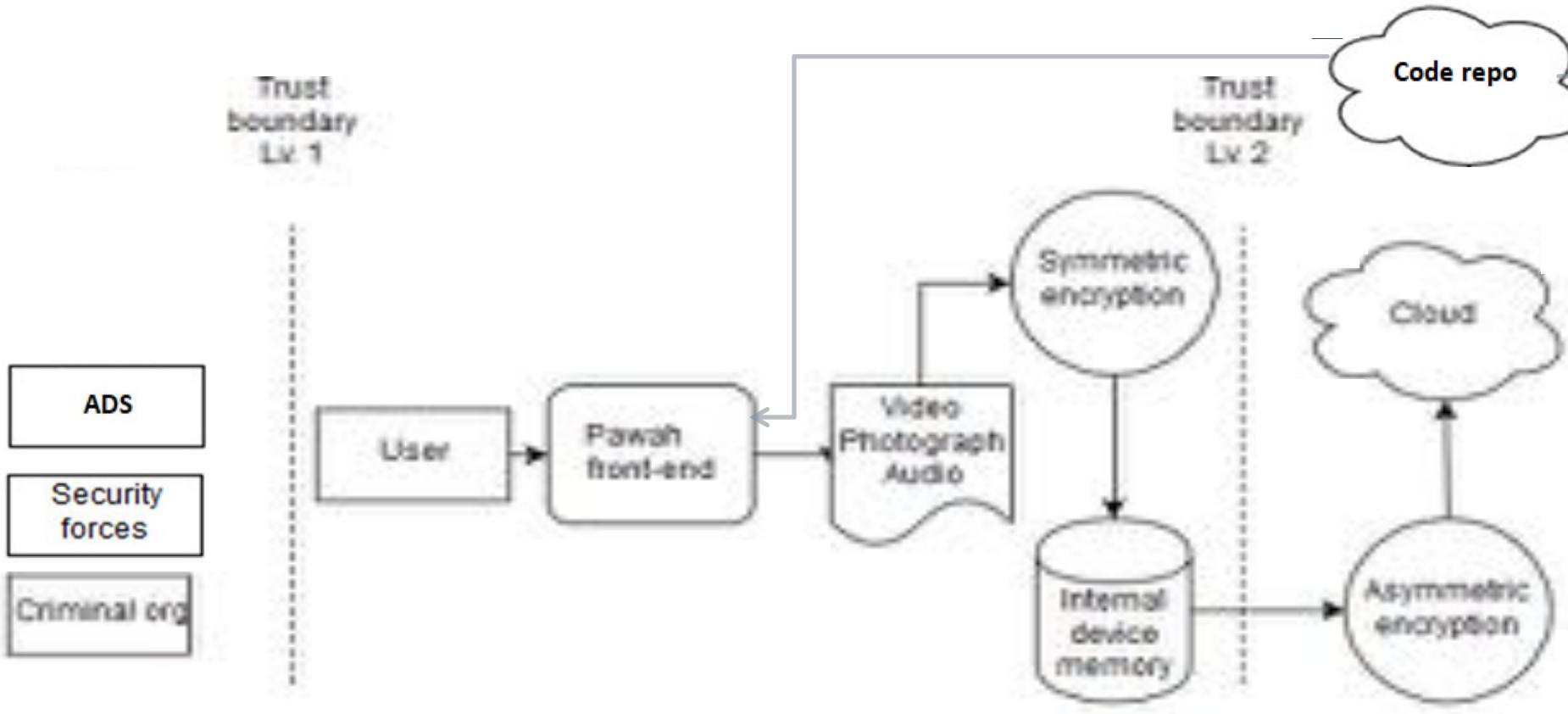
- External attacker impersonating user to access app
-
-
-

Threats

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Threats

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Threats

- External attacker impersonating user to access app
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Threats

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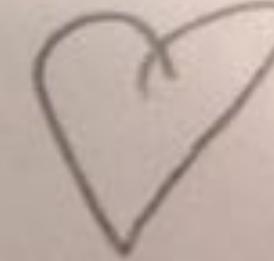
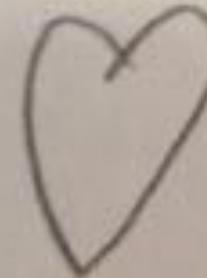
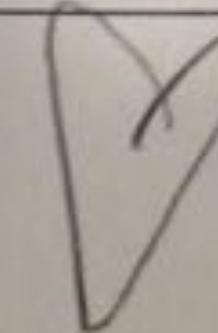
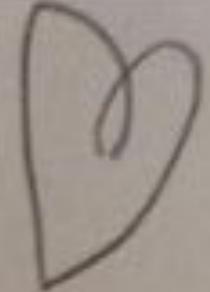
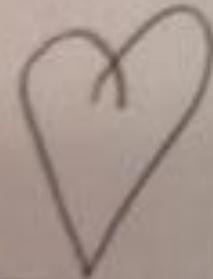
Threats

- External attacker impersonating staff to access code repository
- External attacker impersonating staff to access cloud storage
-
-
-

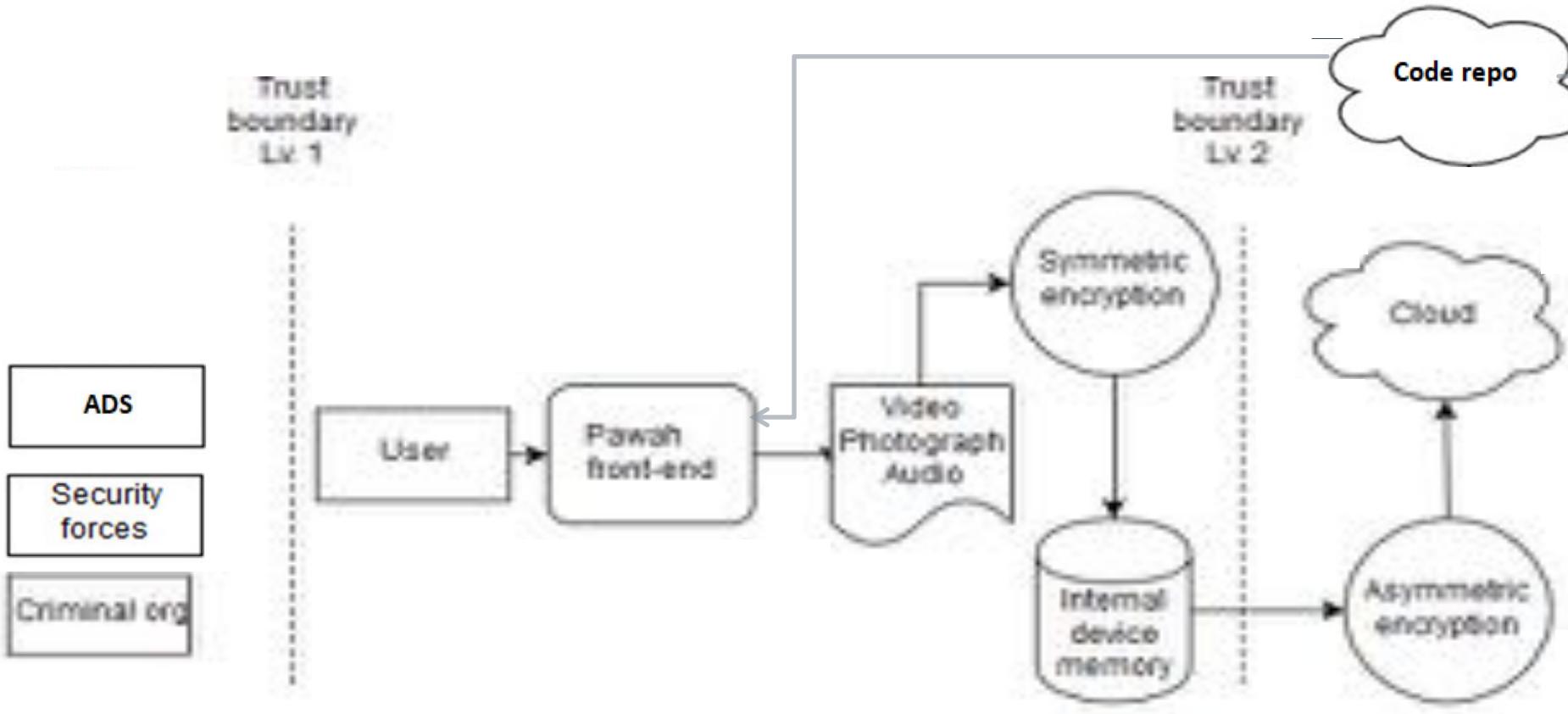
Parent Signature

MOMMY

Any questions or comments:



STRIDE - TAMPERING



Threats

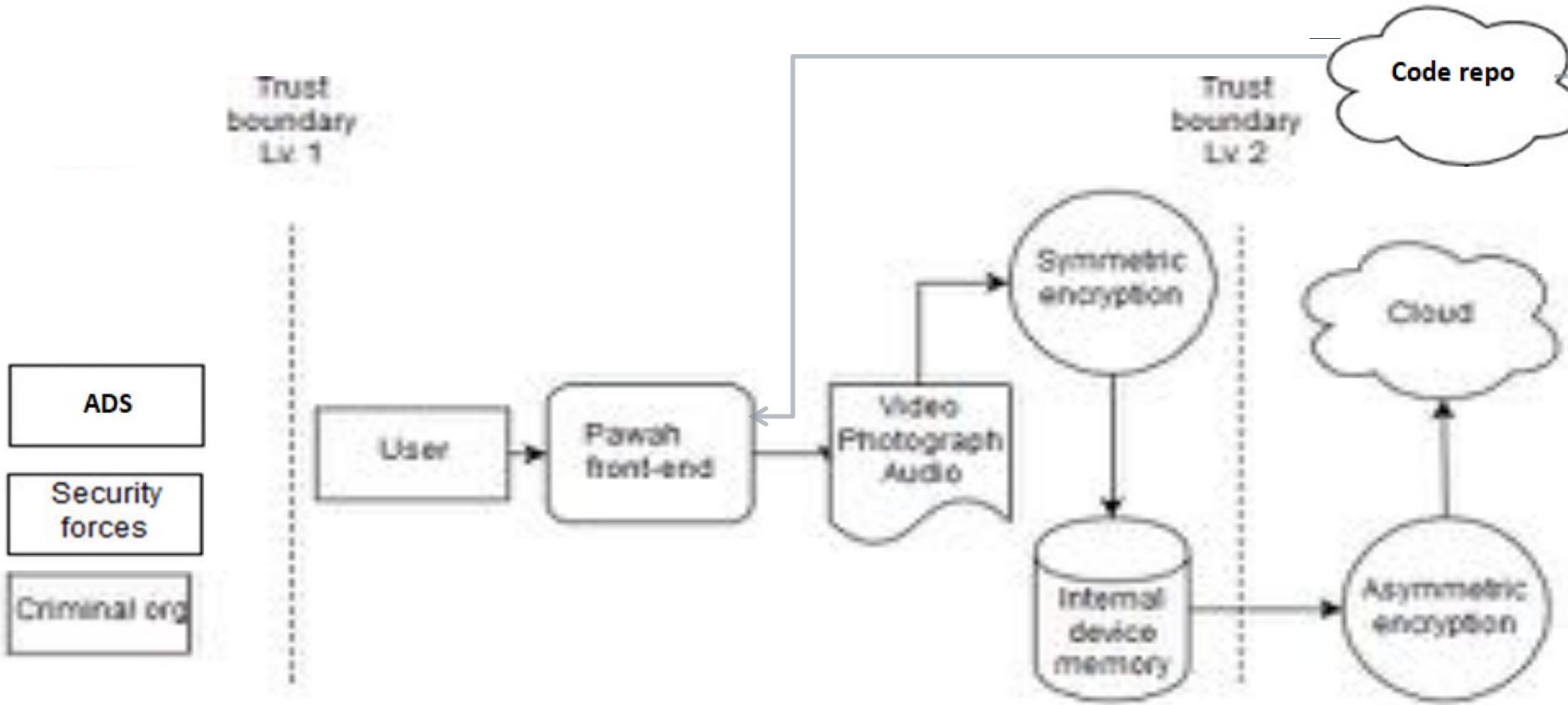
- External attacker impersonating user to access app
-
-
-

Threats

-
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Threats

- External attacker impersonating staff to access code repository
- External attacker impersonating staff to access cloud storage
-
-
-



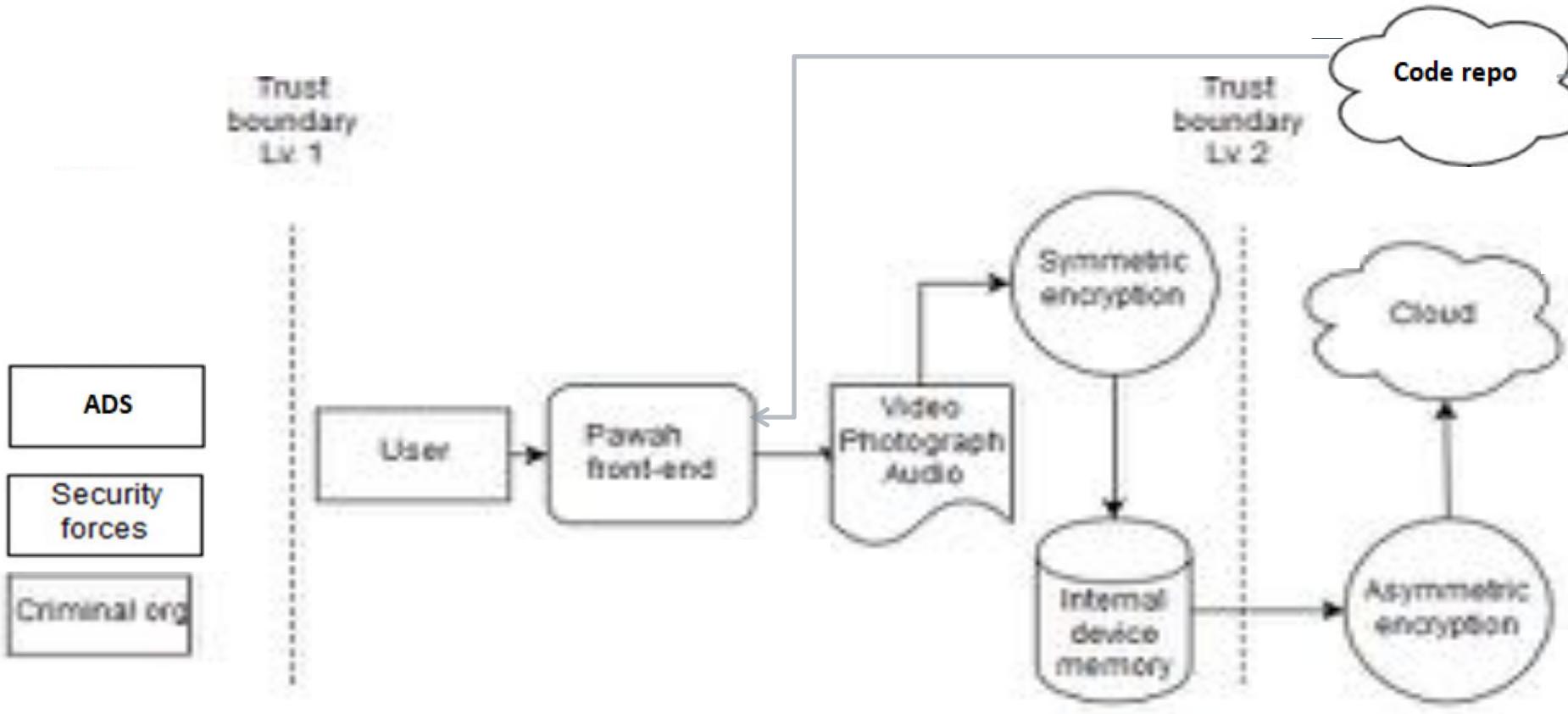
Threats

- External attacker impersonating user to access app
- External attacker modifying saved information
- External attacker intercepting traffic to modify information
-

Threats

Threats

- External attacker impersonating staff to access code repository
- External attacker impersonating staff to access cloud storage
-
-
-



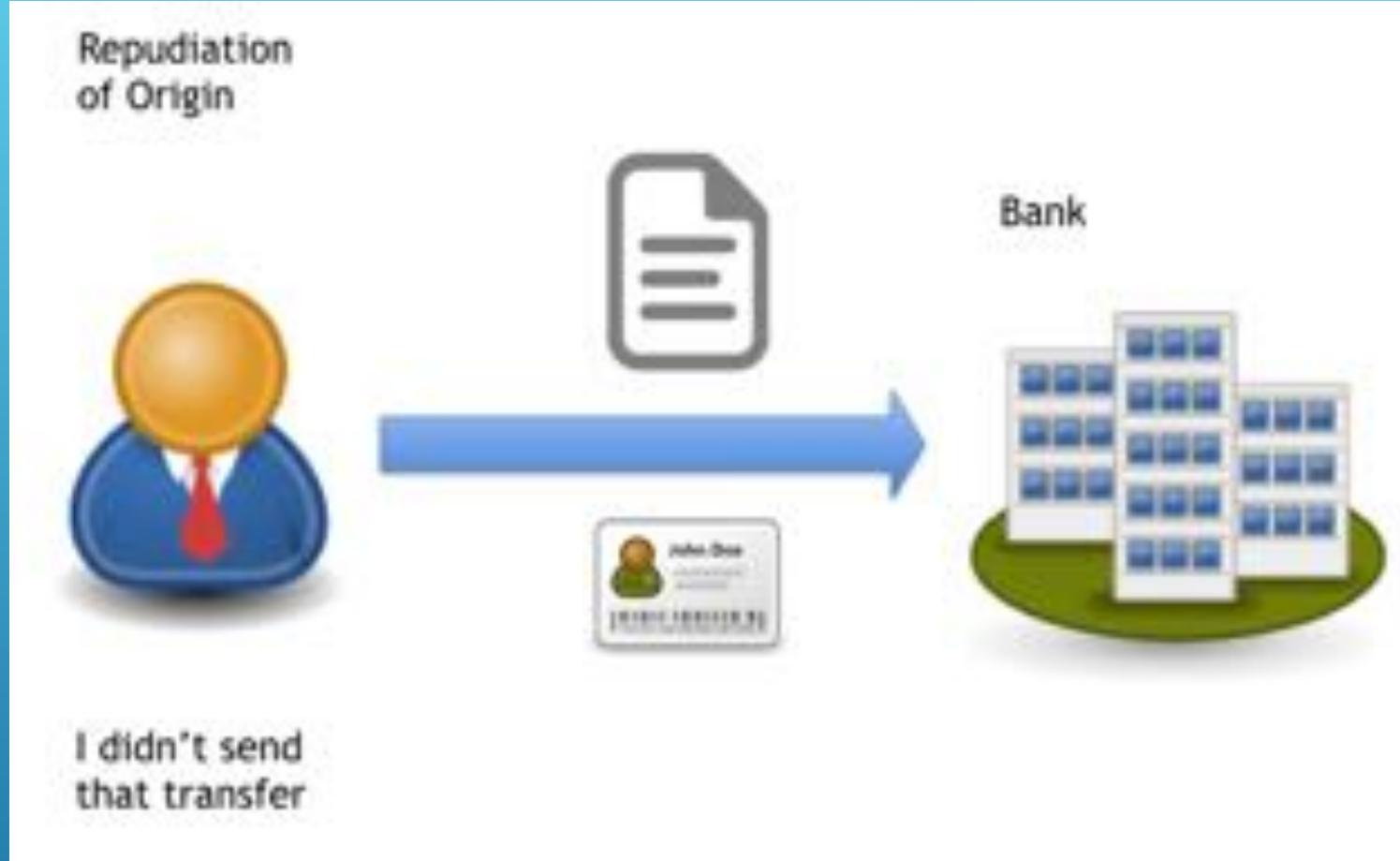
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Threats

Threats

- External attacker impersonating staff to access code repository
- External attacker impersonating staff to access cloud storage
- External attacker/malicious insider tampers with source code
- External attacker/malicious insider tampers with saved information
-



STRIDE - REPUDIATION

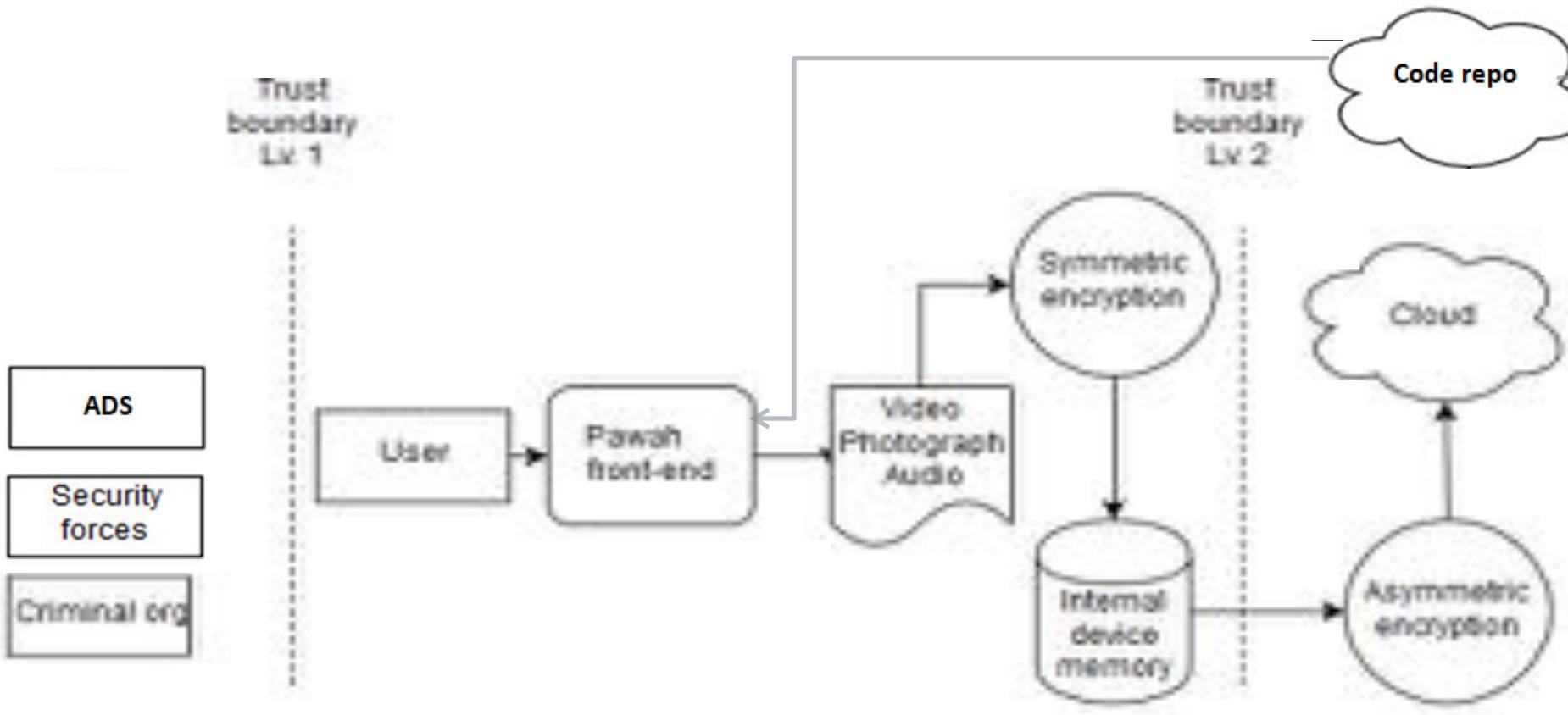
THIS IS A HARD ONE

- ▶ Someone claims the footage is false or of someone else
 - ▶ Other than a forensic chain of custody we can't do much about that
- ▶ For your app could someone perform an action and claim it wasn't them?





STRIDE - INFORMATION DISCLOSURE



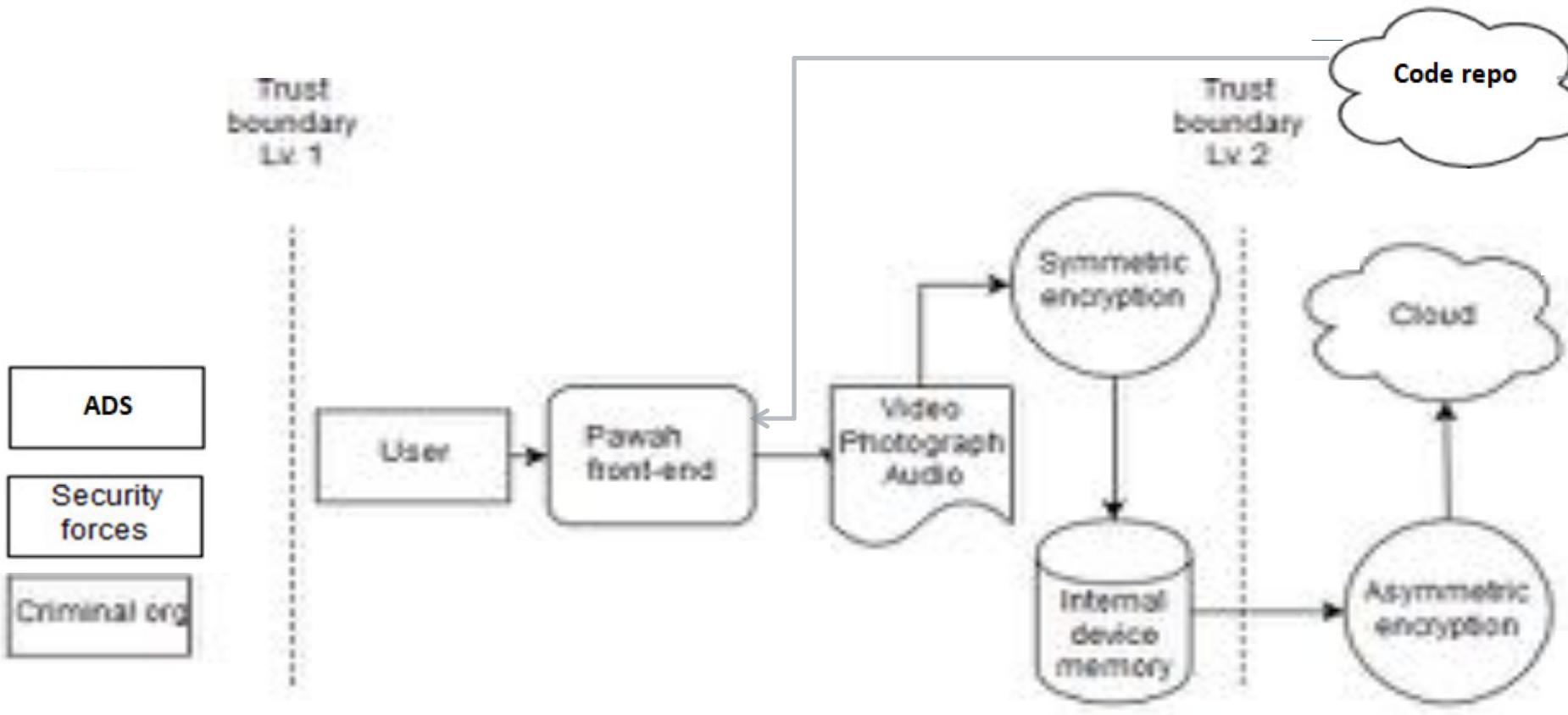
Threats

- External attacker impersonating user to access app
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Threats

Threats

- External attacker impersonating staff to access code repository
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Threats

- External attacker impersonating user to access app
- External attacker modifying saved information
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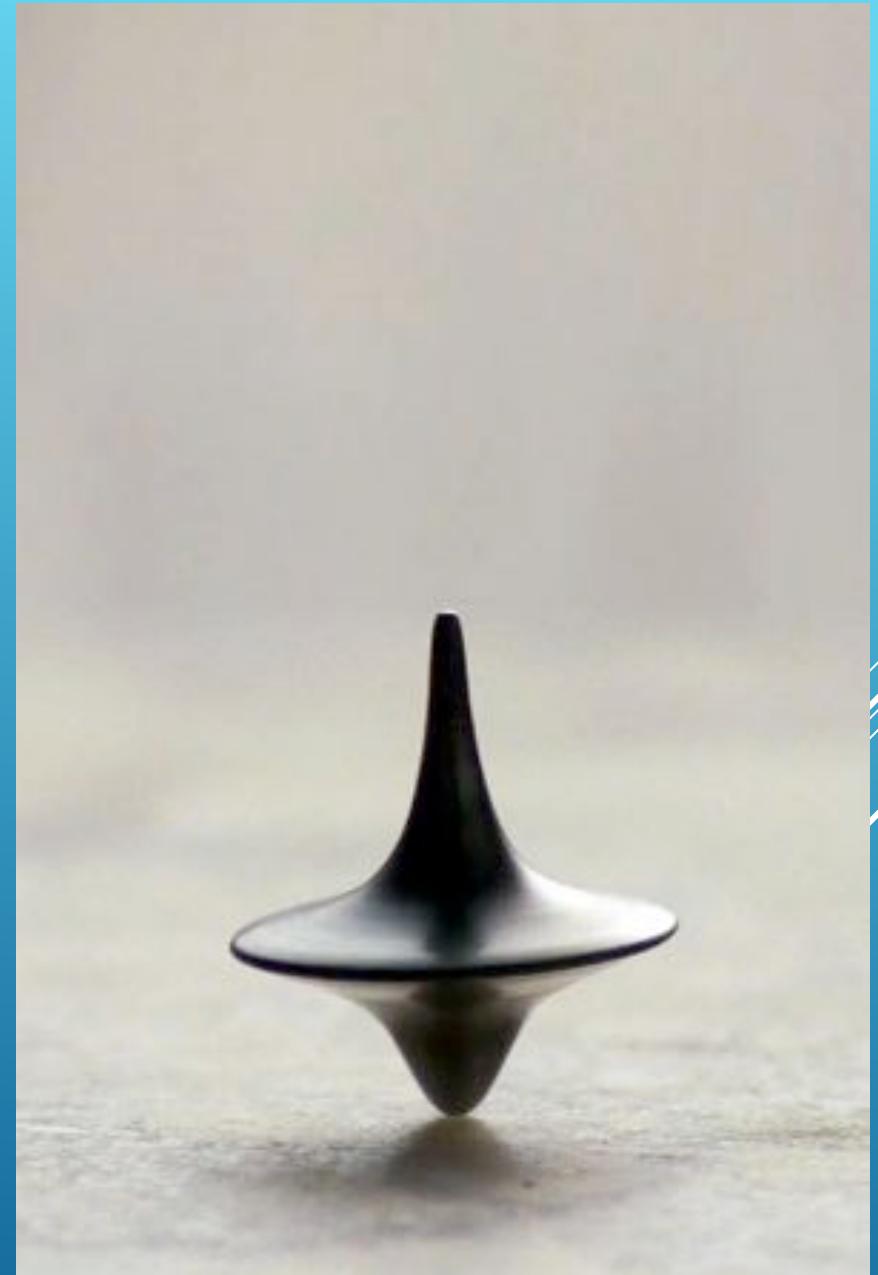
Threats

Threats

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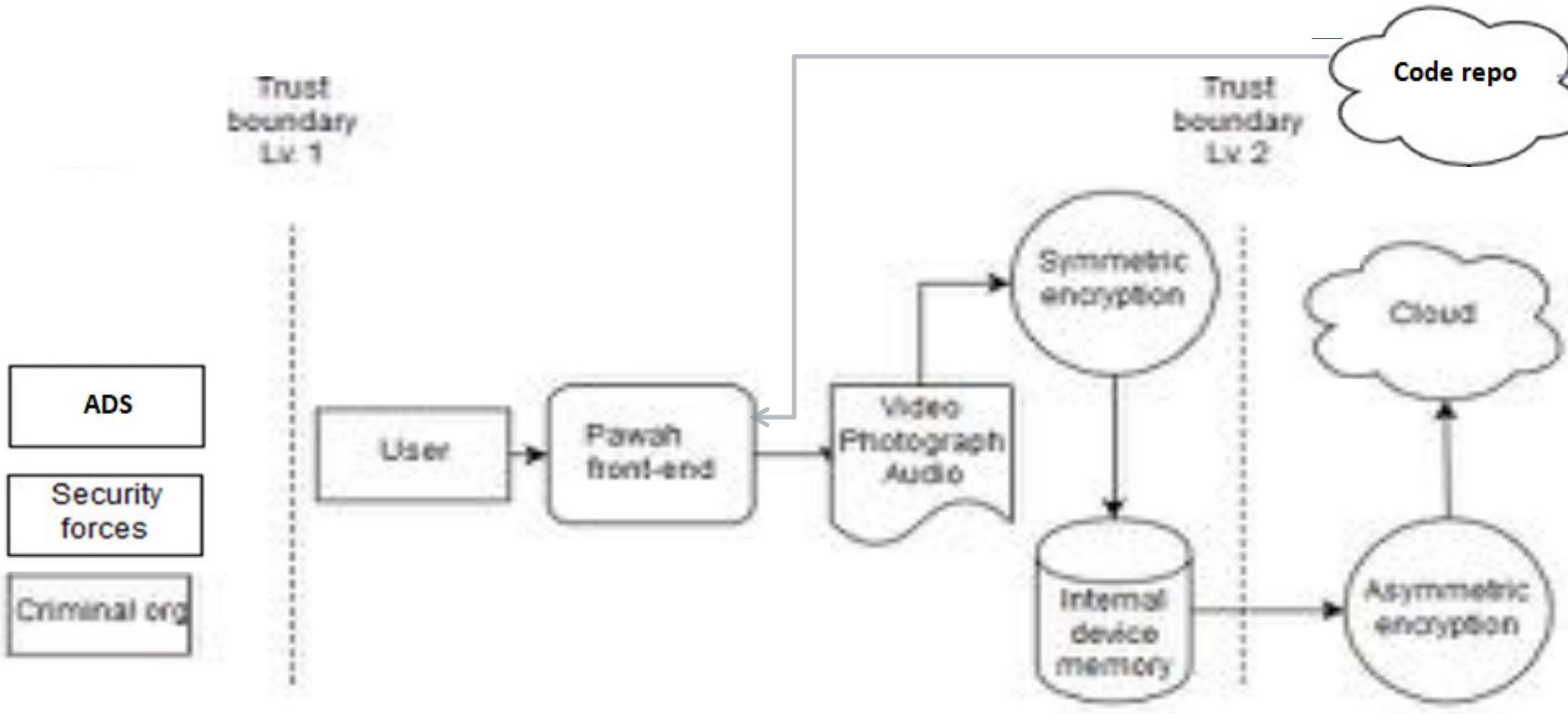
WE NEED TO GO DEEPER

- ▶ Enumerate
 - ▶ Technology
 - ▶ Protocols
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- ▶ Flesh out connected systems
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 - ▶ Cloud storage
 - ▶ Log server





STRIDE - DENIAL OF SERVICE



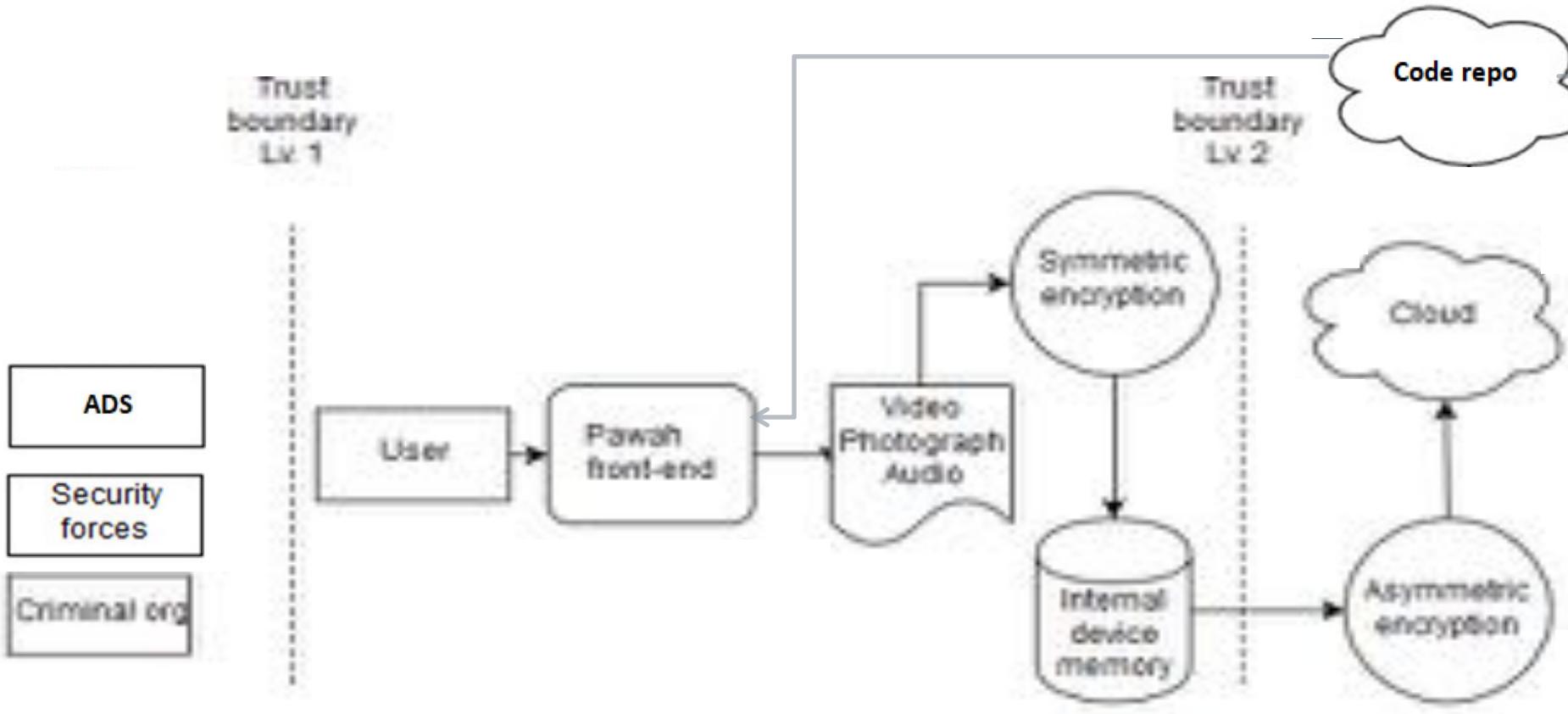
Threats

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Threats

Threats

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Threats

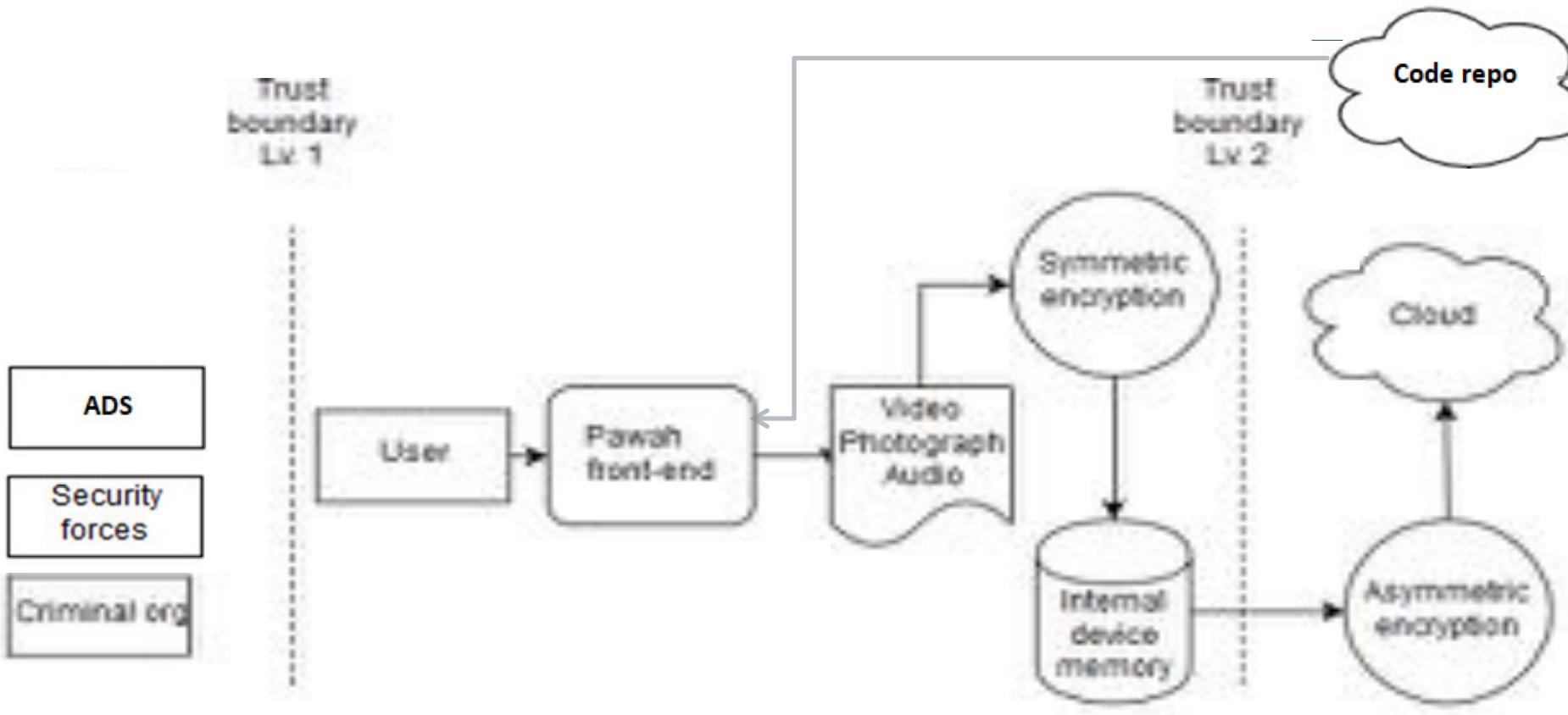
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Threats

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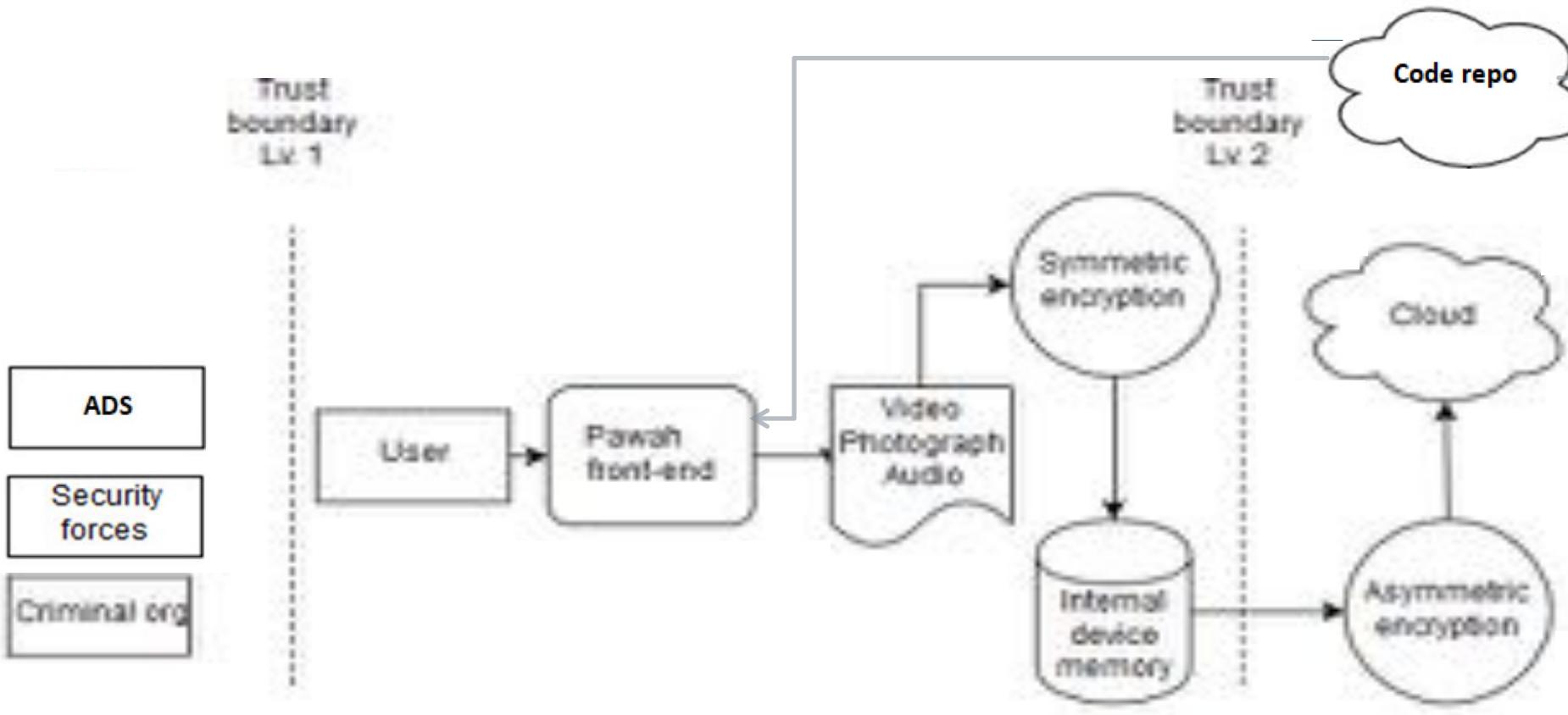
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- External attacker/malicious insider tampers with saved information

sudo

Suck it Up 'n Do as Ordered

STRIDE – ELEVATION OF PRIVILEGES



Threats

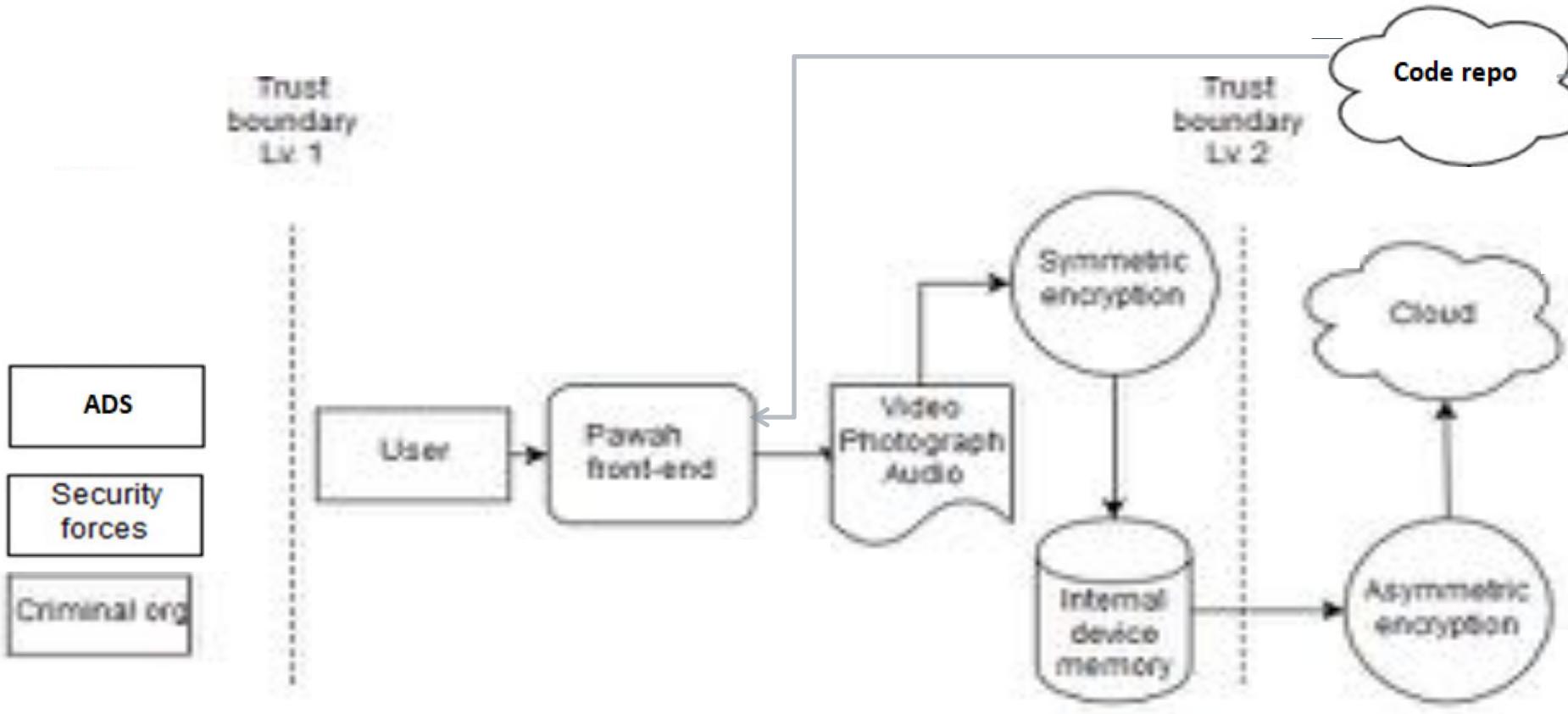
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Threats

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Threats

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Threats

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Threats

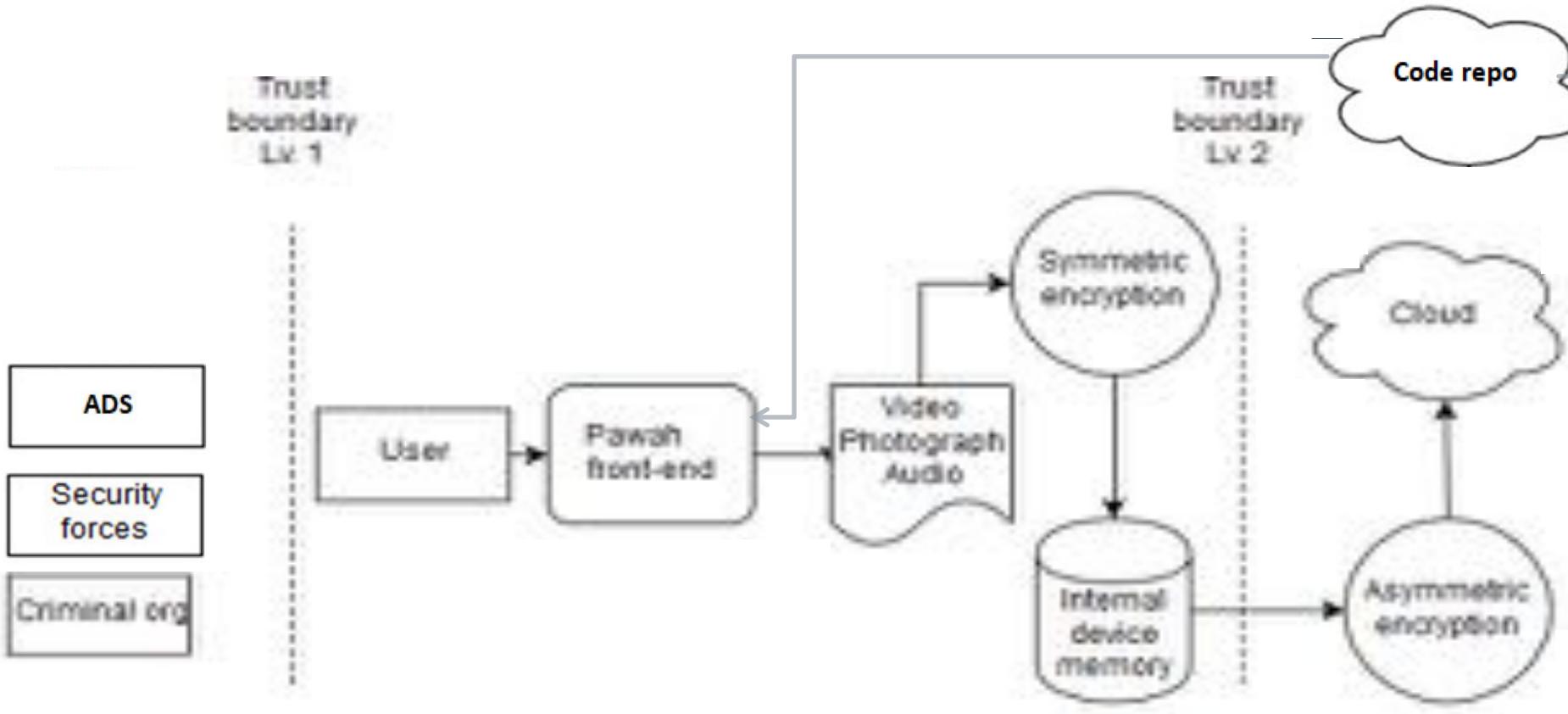
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Threats

- External attacker impersonating staff to access code repository
- External attacker impersonating staff to access cloud storage
- External attacker/malicious insider tampers with source code
- External attacker/malicious insider tampers with saved information
-



BUT WAIT, THERE'S MORE!



Threats

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- External attackers linking footage to real identity

Threats

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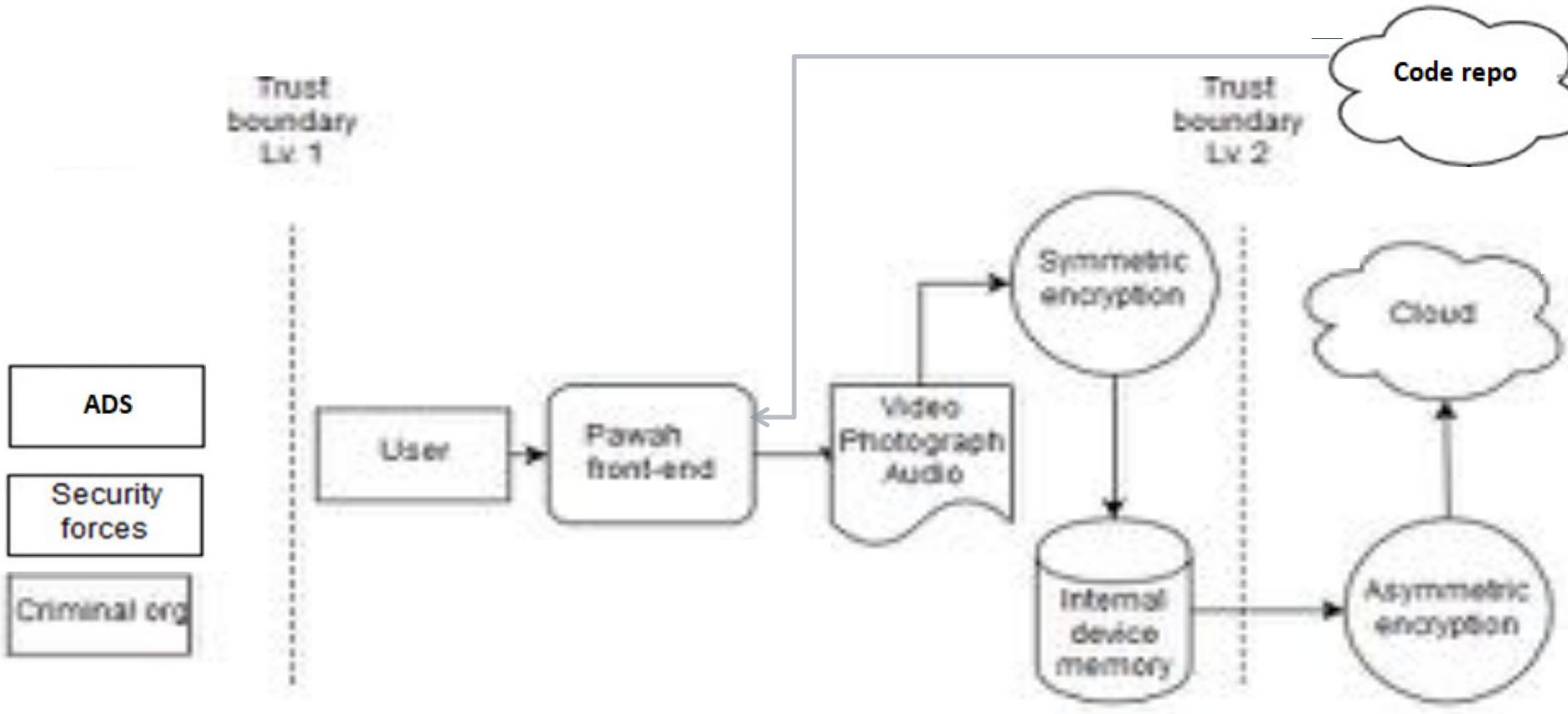
Threats

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- Also consider compliance with legislation

REMEMBER! BASIC THREAT MODELLING

- ▶ Hacked together from Microsoft's STRIDE threat modelling approach
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- ▶ **What are you going to do about it?**





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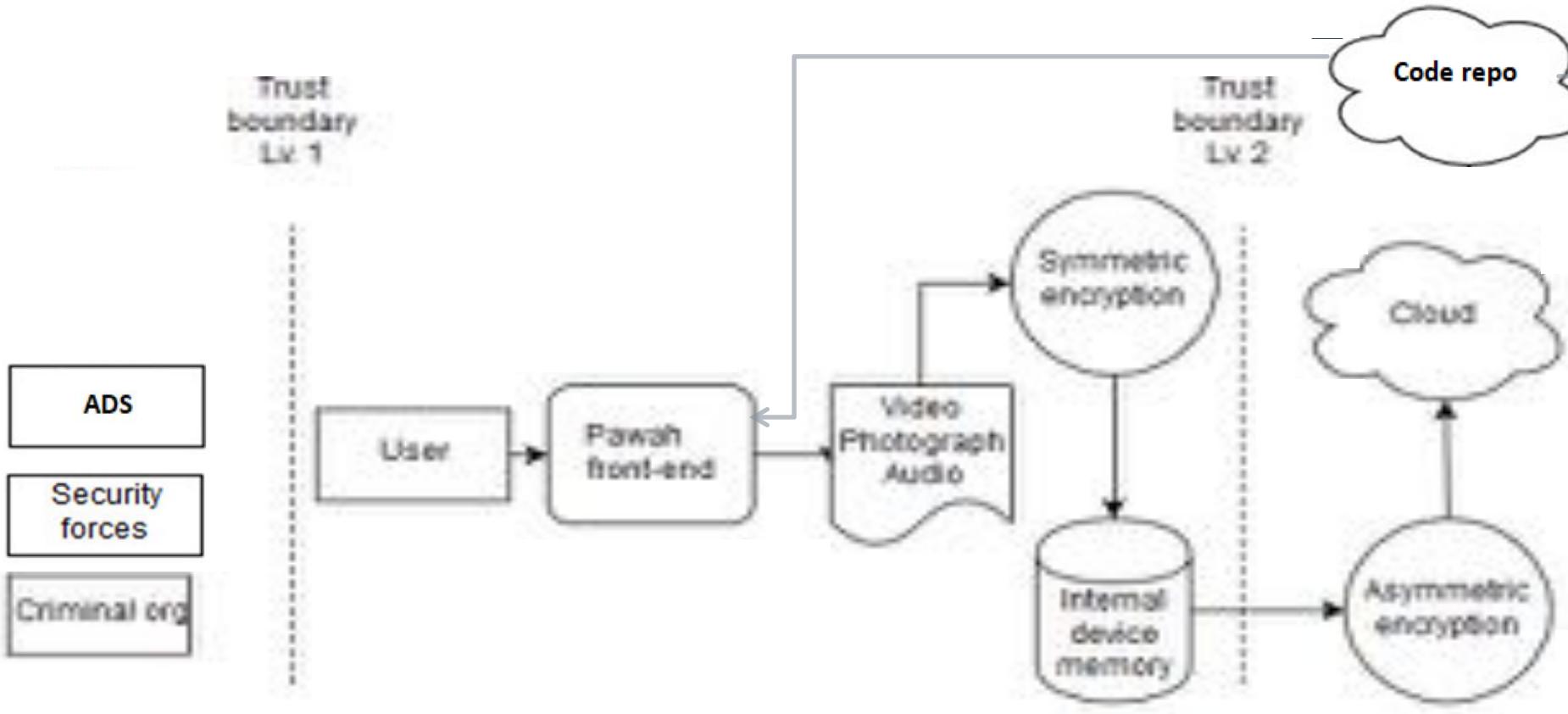
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- External attacker impersonating staff to access cloud storage
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- External attacker/malicious insider tampers with saved information
- Also consider compliance with legislation

STRIDE – SPOOFING

- ▶ Someone impersonating a user to access data on phone, code repository, cloud storage
 - ▶ Credentials hashed with secure algorithm
 - ▶ Two factor authentication on code repository and cloud storage
 - ▶ IP whitelisting to access code repository and cloud storage if possible
 - ▶ Access Control Policy
 - ▶ Accounts are tied to identity
 - ▶ Permission only given if the user needs it
 - ▶ Accounts are revoked when user leaves
 - ▶ Accounts regularly audited
 - ▶ Someone is responsible for all this





Threats

- External attacker impersonating user to access app
- External attacker modifying saved information
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- External attackers linking footage to real identity

Threats

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Threats

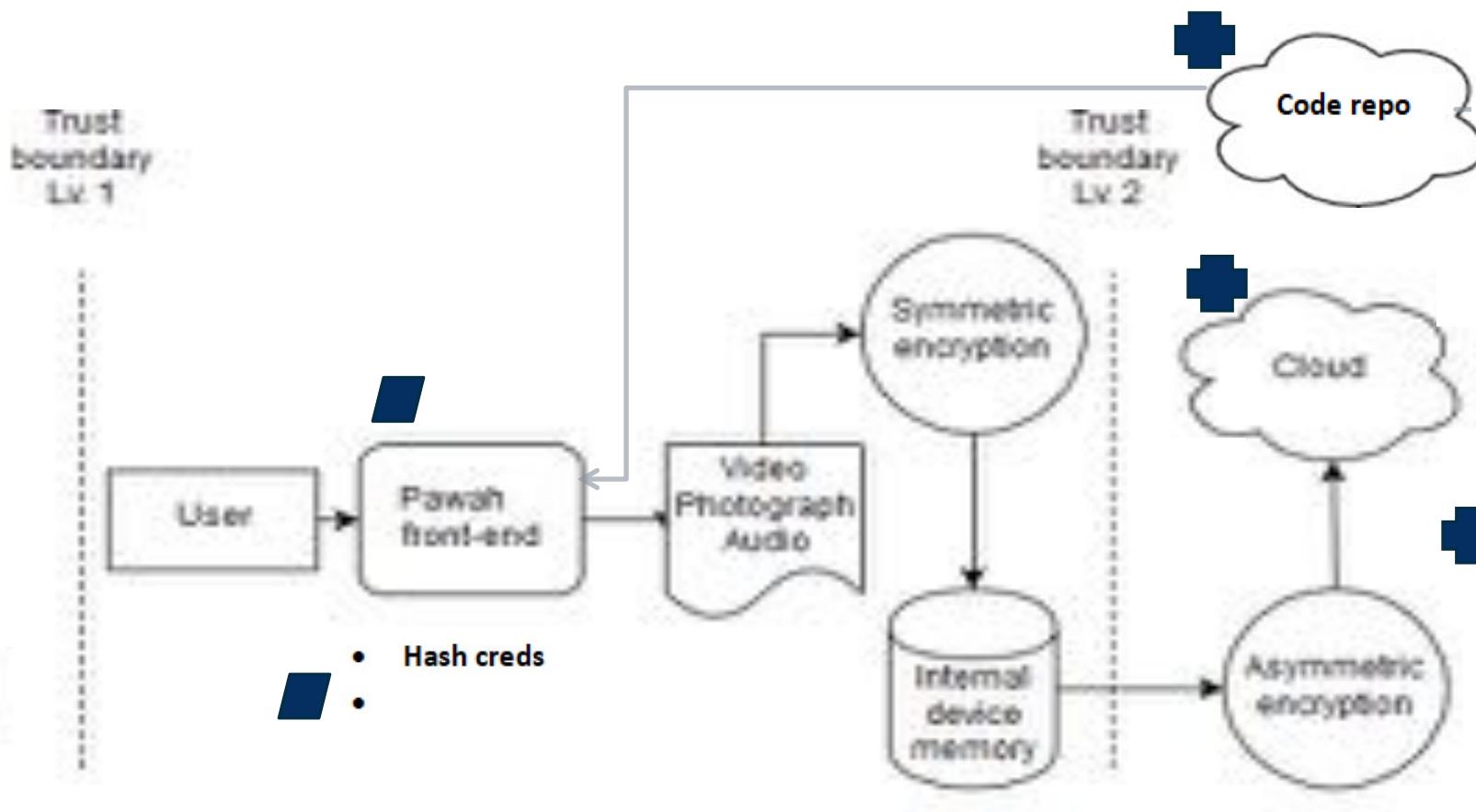
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- Access Control Policy
-
-
-



- ADS
- Security forces
- Criminal org



Threats

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- External attacker/malicious insider tampers with saved information
- Also consider compliance with legislation

STRIDE – TAMPERING

- ▶ Data being modified on the phone, cloud storage, anywhere in between
 - ▶ File integrity by matching hashes of files at different stages
- ▶ Tampering with source code or logs
 - ▶ Log all actions of users
 - ▶ State in employee contracts what is unacceptable so they have no recourse
 - ▶ Forward logs to centralised, hardened log server with strong access control

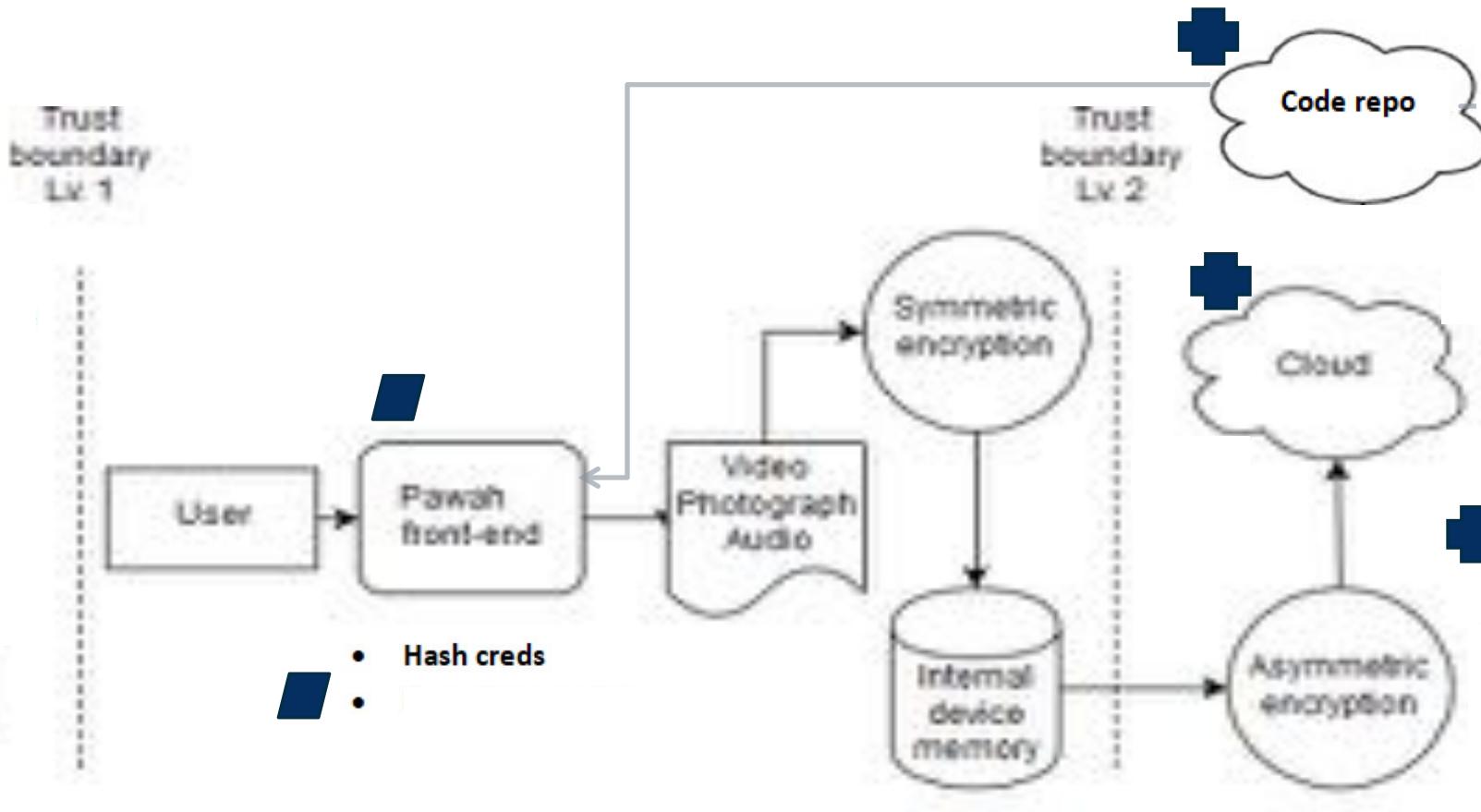




- Access Control Policy
-
-
-



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Threats

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- Access Control Policy
- Employee contracts
-
-

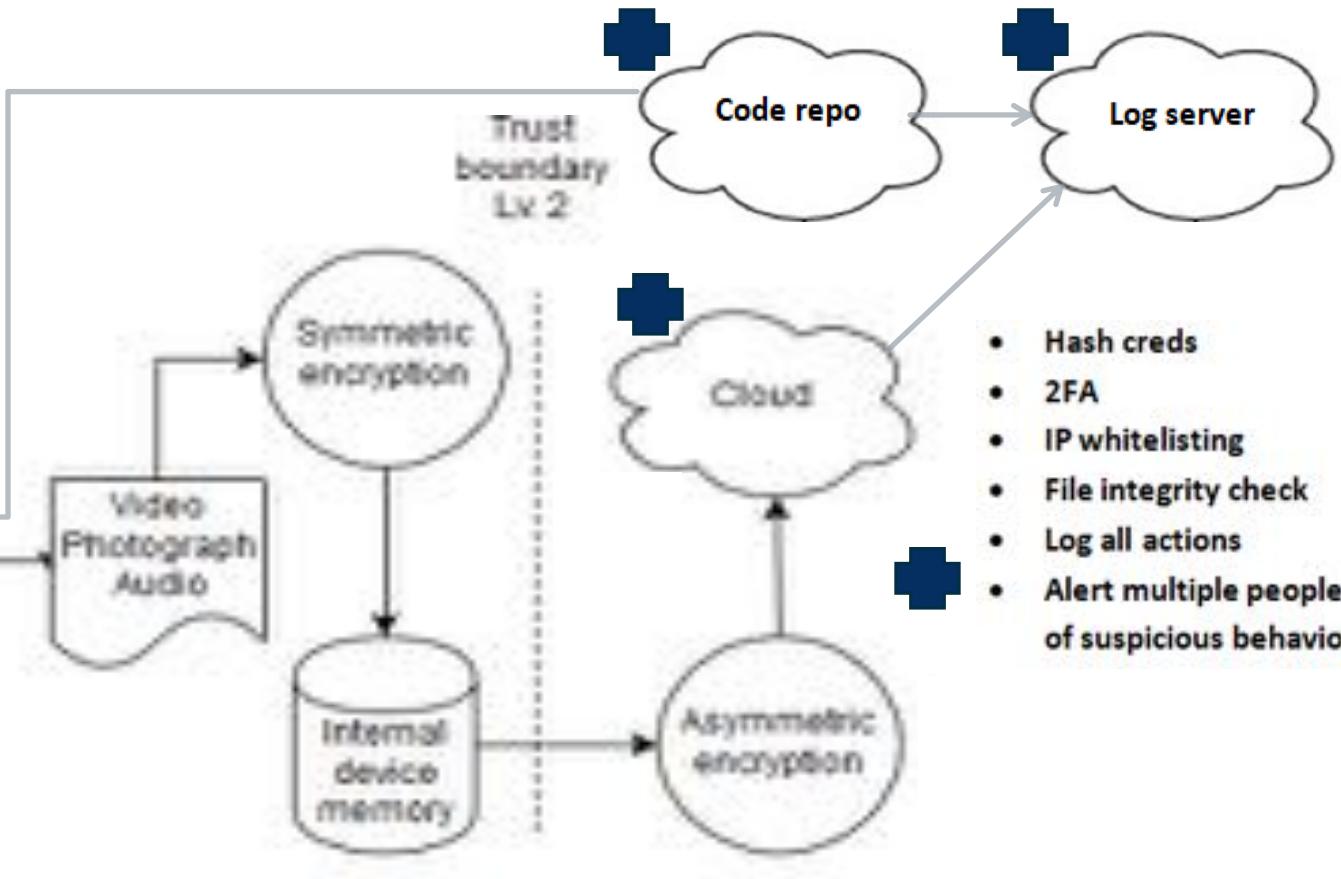


ADS
Security forces
Criminal org

Trust boundary Lv 1

User → Pawah front-end

- Hash creds
-



Threats

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STRIDE - REPUDIATION

- ▶ Someone claims the footage is false or of someone else
 - ▶ Other than a forensic chain of custody we can't do much about that
- ▶ For your app could someone perform an action and claim it wasn't them?



STRIDE –INFORMATION DISCLOSURE

- ▶ Footage is tied to particular users
 - ▶ Policy to review footage with lawyers before being submitted as evidence
 - ▶ Remove metadata so footage can be posted online anonymously
 - ▶ Need further controls once done a deep dive





- Access Control Policy
- Employee contracts
-
-

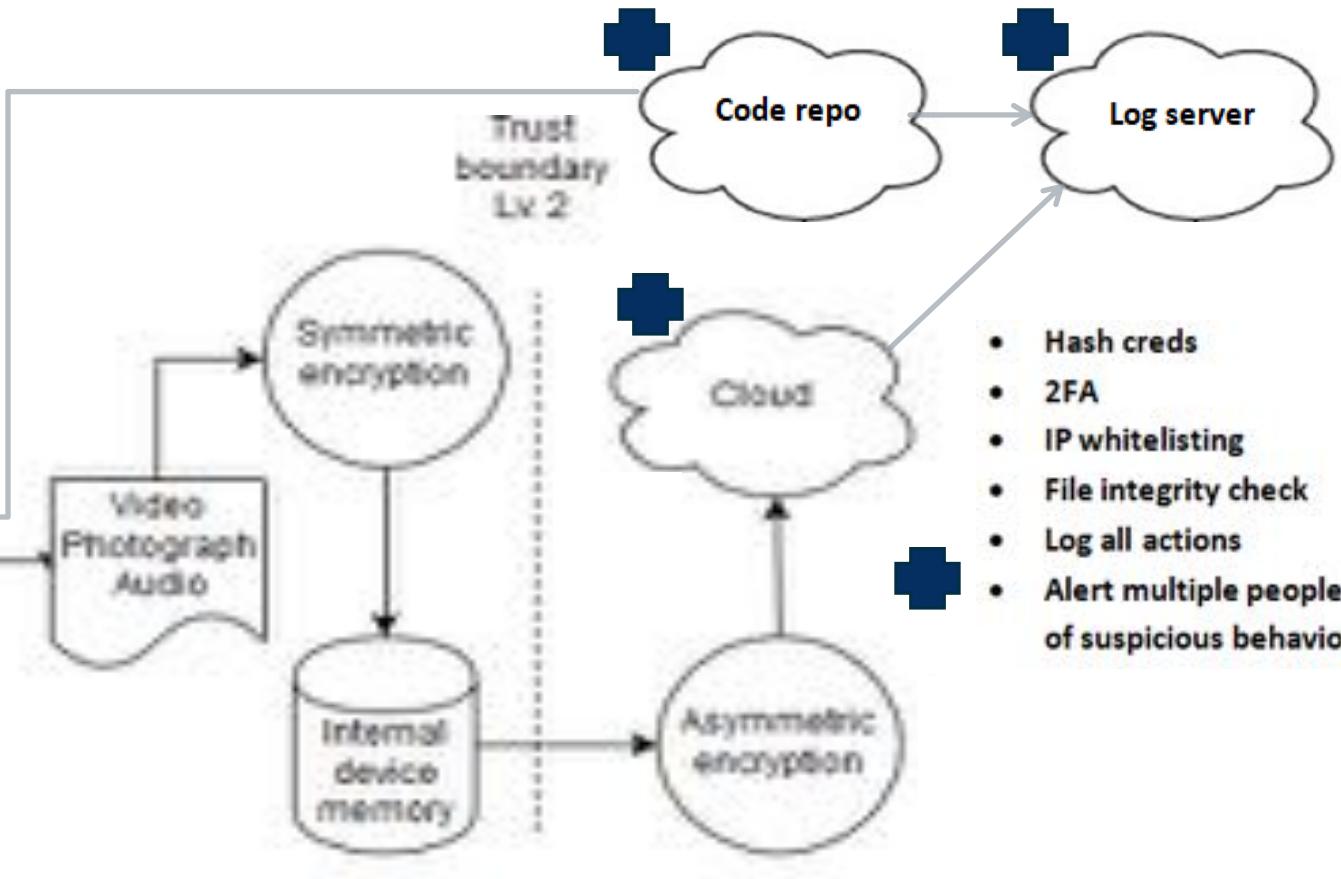


ADS
Security forces
Criminal org

Trust boundary Lv 1

User → Pawah front-end

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- Access Control Policy
- Employee contracts
- Review footage before release
-

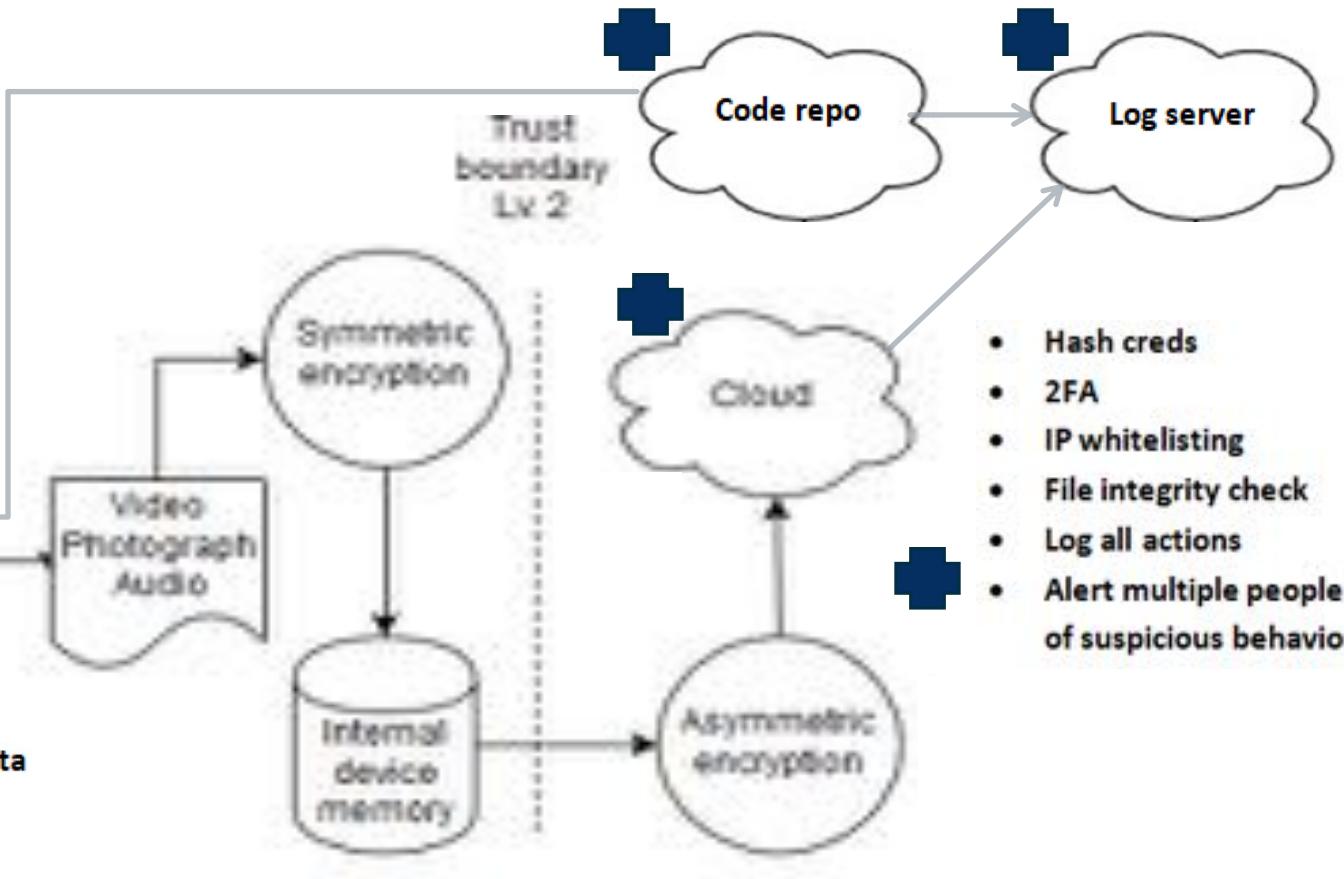


ADS
Security forces
Criminal org

Trust boundary Lx 1

User → Pawah front-end

- Hash creds
- Remove metadata



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STRIDE – DENIAL OF SERVICE

- ▶ DDoS attack against the cloud storage (however that may be)
 - ▶ Employ DDoS mitigation services like Cloudflare
 - ▶ Cap how much footage a user can upload





- Access Control Policy
- Employee contracts
- Review footage before release
-



ADS
Security forces
Criminal org

Trust boundary Lx 1

User

Pawah front-end

Video
Photograph
Audio

Internal device memory

Symmetric encryption

Code repo

Log server

Trust boundary Lx 2

Cloud

- Hash creds
- 2FA
- IP whitelisting
- File integrity check
- Log all actions
- Alert multiple people of suspicious behaviour

- Hash creds
- Remove metadata

Threats

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- Access Control Policy
- Employee contracts
- Review footage before release
-



ADS
Security forces
Criminal org

Trust boundary Lx 1

User

Pawah front-end

Video
Photograph
Audio

Internal device memory

Symmetric encryption



Code repo



Log server



Cloud



- Hash creds
- Remove metadata



Asymmetric encryption

- Hash creds
- 2FA
- IP whitelisting
- File integrity check
- Log all actions
- Alert multiple people of suspicious behaviour

- Cloudflare
- Cap footage upload

Threats

- External attacker impersonating user to access app
- External attacker modifying saved information
- External attacker intercepting traffic to modify information
- External attackers linking footage to real identity

Threats

- External attacker launching DoS against cloud storage infrastructure
- External attacker launching DoS against cloud storage itself
- External attacker gained admin rights to code repository
- External attacker gaining admin rights to cloud storage

Threats

- External attacker impersonating staff to access code repository
- External attacker impersonating staff to access cloud storage
- External attacker/malicious insider tampers with source code
- External attacker/malicious insider tampers with saved information
- Also consider compliance with legislation

STRIDE – ELEVATION OF PRIVILEGES

- ▶ Someone gaining administrator rights to the code repository or cloud storage
 - ▶ Log all actions by users
 - ▶ Flag multiple people of new admins being created
 - ▶ Flag multiple people of admins performing anomalous behaviour like logging in outside of work hours.





- Access Control Policy
- Employee contracts
- Review footage before release
-



ADS
Security forces
Criminal org

Trust boundary Lx 1

User

Pawah front-end

Video
Photograph
Audio

Internal device memory

Symmetric encryption



Code repo



Log server



Cloud



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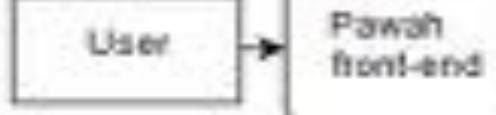
- Access Control Policy
- Employee contracts
- Review footage before release
- Review relevant legislation

ADS

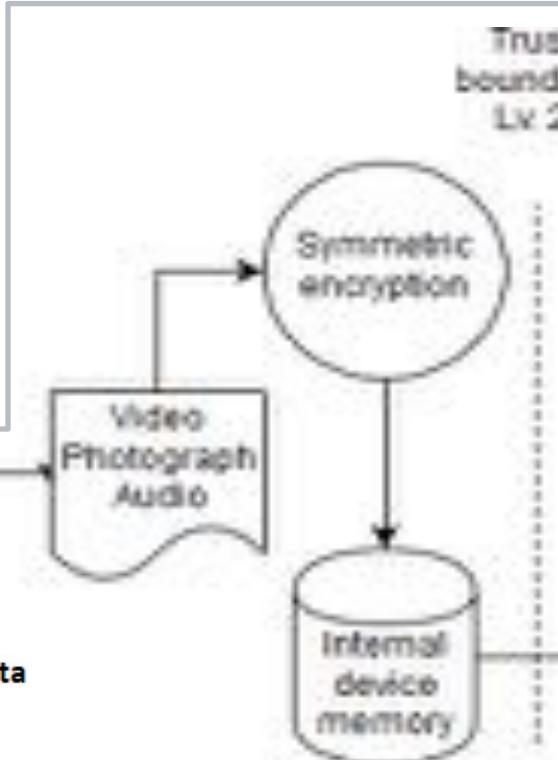
Security forces

Criminal org

Trust boundary
Lv 1



- Hash creds
- Remove metadata



Trust boundary
Lv 2

Code repo

Log server

Cloud

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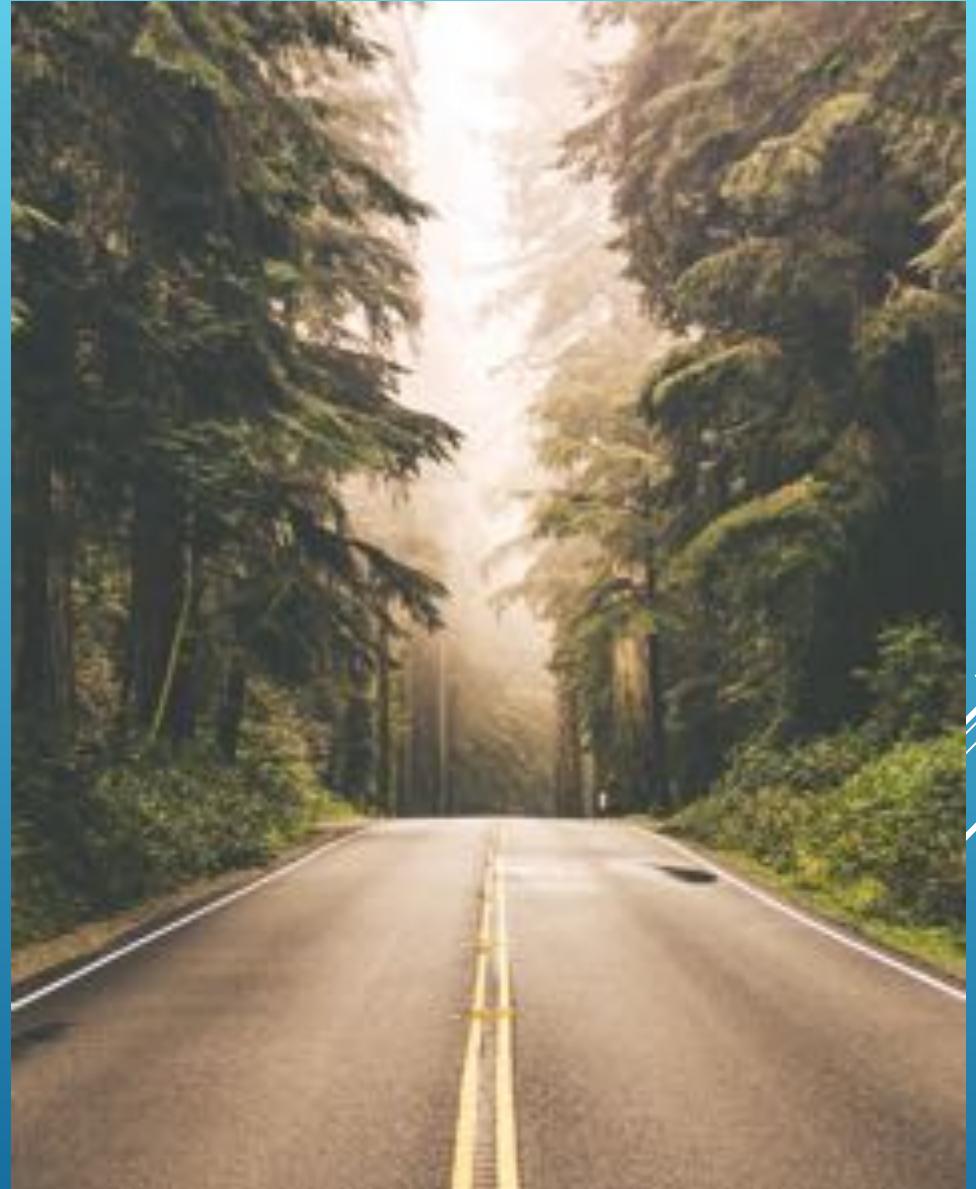
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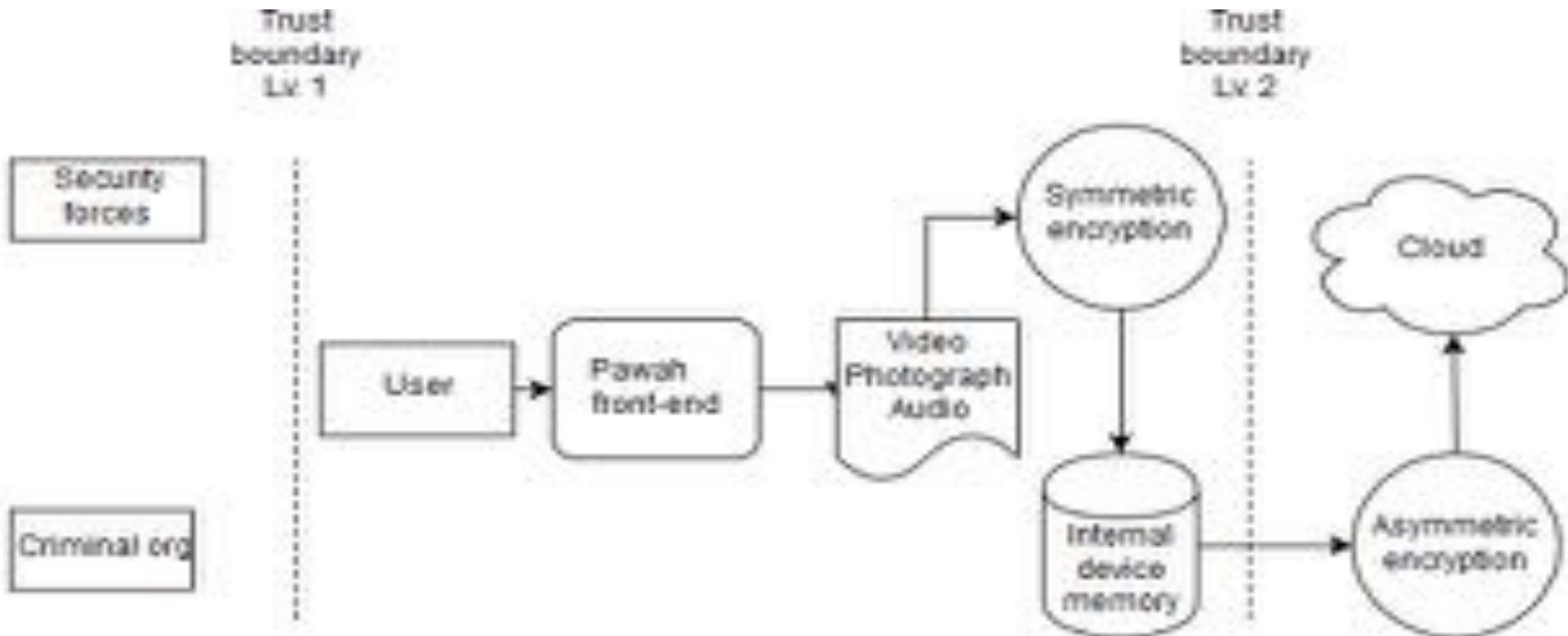
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TAKING THIS FURTHER

- ▶ These are basics
- ▶ Need to go lower
 - ▶ Technology
 - ▶ Protocols
 - ▶ How can each functionality be abused?
- ▶ How can attackers bypass the controls we already have?
- ▶ Make threat modelling iterative
- ▶ Assign responsibility





Threats

- Violent repression
- Intimidation
- Physical attack
- Kidnapping
- Imprison

Threats

- Device seizure
- Intimidation
- Device hacking

Threats

- Network intervention
- Cloud hacking
- Impersonation
- Social engineering
- DDoS

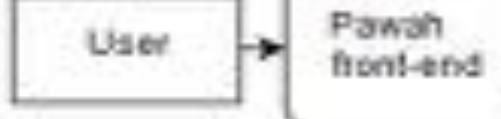
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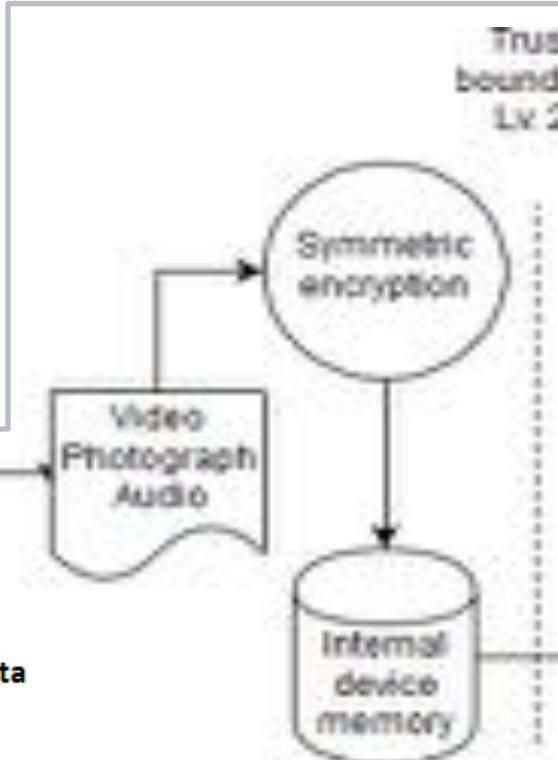
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IF YOU KNOW NOTHING...

- ▶ What are we building?
- ▶ What can go wrong? STRIDE
 - ▶ Spoofing
 - ▶ Tampering
 - ▶ Repudiation
 - ▶ Denial of Service
 - ▶ Elevation of Privileges
- ▶ What are you going to do about it?
- ▶ This is the beginning but not the end



RESOURCES USED

- ▶ <https://users.encts.concordia.ca/~clark/courses/1601-6150/scribe/L04c.pdf>
- ▶ Threat Modelling with STRIDE adapted from Threat Modelling: Designing for Security (Wiley, 2014) by Adam Shostack
- ▶ [https://docs.microsoft.com/en-us/previous-versions/msp-n-p/ff649749\(v=pandp.10\)](https://docs.microsoft.com/en-us/previous-versions/msp-n-p/ff649749(v=pandp.10))
- ▶ Walkthrough: Creating a Threat Model for a Web Application