INTRO TO COMP-SEC

SECURITY PROPERTIES

1) Confidentiality

- → is the avoidance of the unauthorized disclosure of information
- Tools to protect sensitive into use the ff. concepts:
 - · Encryption
- · Authonzation
- · Access control
- · Physical Security
- · Authentication

2) Integrity

- → is about making sure the info. has not been corrupted, changed or added to by human activity either during transit/in storage
 - · Backups
 - · Checksums
 - · Data correcting codes

3) Availability

in a timely fashion by those authorized to do so.

4) Assurance

- refers to how trust is provided and managed in comp. systems

5) Authenticity

→ is about being certain tht. info received/accessed by us is from the entity we believe it to be from

6) Anonymity

→ is the property the certain records/transactions not to be attributable to any individual

TRUST

- Generally, we trust when we have:
 - 1) Assurance
 - 2) Reliability/Resilience
 - The sys. shid operate intact in the face of natural disaster & human launched attacks
 - 3) Accountability
 - is about having the means to verify that the sys. is operating as designed
 - Log files, etc.

COMMON DEFENCE METHODS

- 1) Prevent
- 2) Deter make it look like bad things will happen to you if you attack the sys.
- 3) Deflect try to show another target to the adversary
- 4) Detect If all the above fails, you can tell the attack is happening
- 5) Recover An attack has happened, how do you know you're now back in good state?