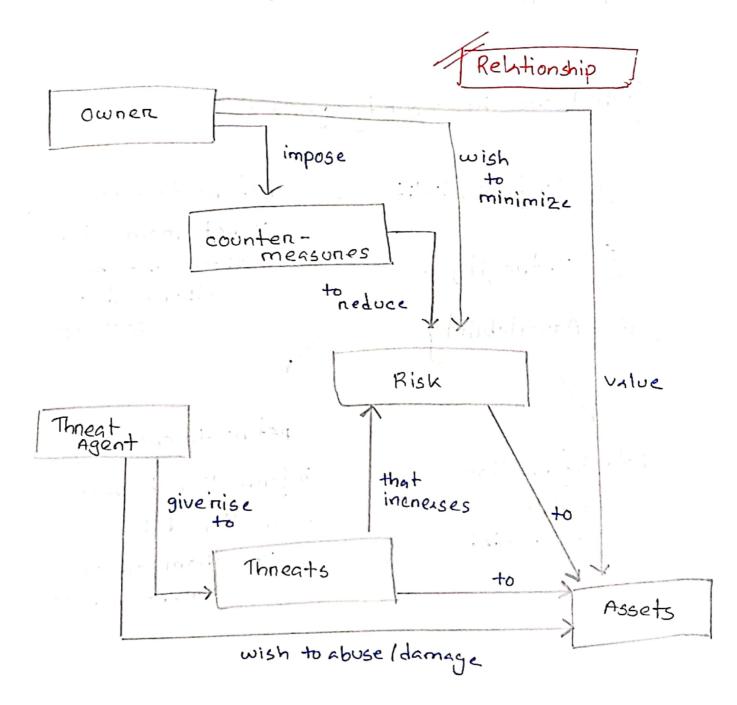
what is common criteria (cc)?

-> cc is a set of guidelines that provides a transmonk ton evaluting and centifying the security features and capabilities of IT product and service.



what is security?

Trefens to within systems, application,
protocols relies on specfic properties intend to
prevent unauthonized access, alternation, destruction,
disnuption.

what are the security goals?

Confidentiality ->

3 Intregity

3 A vailability

Datal information is available when needed

what is availability

what is confidentiality
nefens to keeping info.
secret from all but
those who are
athonised can
access if

what is Intresity

information hasnot been altened by uncuthonized or unknown means Q. with nespect to the C.I.A and A.A.A concept what nisks are posed by Trojan Honse?

Final-17

1 confidentiality:TH allows unauthonize access
to sensitive into. disquised
as legitimate software. cansteal
on copy confidential data without
usen knowledge

Intregity; - data and system are compromised due to TH. modify, délete data, alter system configuration

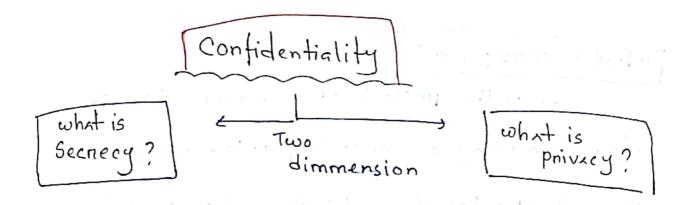
Availability: impact the availability
of system networks by

consuming system nesounce on

disrupting network operation

make system unavailable

to usen.



Secrecy is about Keeping sensitive information hidden from people shouldn't have access to it (protection from unauthonize)

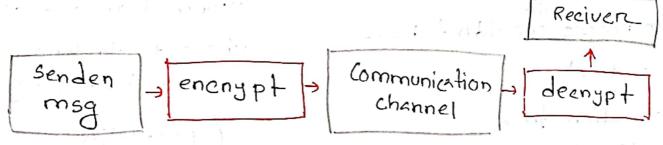
Privacy is about having control over your personal Information and deciding who gets to know what about you (protecting pensonal into)

what ane Tools of confidentiality?

- Encryption
- Access control limiting access using Rules and policies
- Authentication
- (4) Authonization
- S) Physical security

what is enemyption?

information using a scenet key called encryption key and the transformed information can only be need using another secret called deenyption key.



Authentication us Authonization

- 1 who are you?
- (3) is the process of venifying the identity of a usen on entity.
- 1) what are you allowed to do?
- Disthe process of

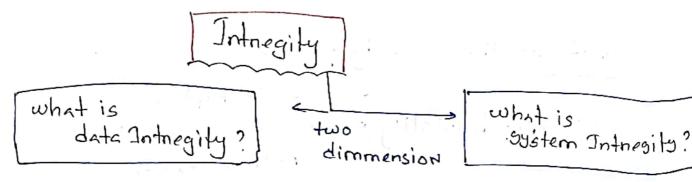
 determing what actions or

 nesounce a user is

 allowed to access or

 perform after

 they have been authenticated.



-) means keeping info. and.

program. safe trom any changes

unless they're allowed and
approved

Some a compoten/ System does itsjob

properly without

interference

what are tools of . Intregity?

- 1 Backups
- 3 Checksoms
- 3 Data connecting codes

what is checksom?

a checksum is a simple way to check if a file has been changed on connupted:

on the entine content, as imaly change to the file will nesult in a different output value.

1 confidentiality

Access controll

Authentication

Authonization

Physical security

- 3 Intragity schecksom

 Data connecting codes
- 3) Auxilability physical protection computional Redundanices
- Authenticity The property of an entity
 on sounce of data being
 geniume and being
 able to verified & trusted
- (5) Accountability
- (c) Anonymity -:- ne fens to the condition whene centain neconds/actions

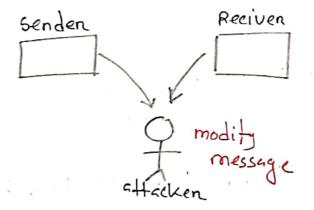
 /thansaction cannot be directly

 linked to any specific Individual.

Diftenence between passive and active security attack?	
Mettive attack	Passive attack
1) Active attack is dangen to Intregity & Availability	(1) danget to confidentiality
a modification information takeplace	3 No modification
3 attention is on prevention	3) is on detection.
9 due to this attack, execution is a lways damaged	9 no hann to system
(3) system nesounces also can be changed	system nesounce
6) can easily detected	7 veny difficult to defect
F) punspose is to hamm the ecosystem	Pounpose is to learn about the ecosystem

- (8) duration :- short
- @ Complexity:- High
- (10) def: what is active attack?

 Active attack is an attack where the attackers attackers attackers to modify /alter the content of message on the system itself.



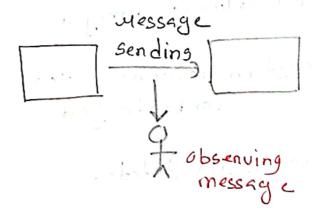
1) Type

1 Dos

3 Modification

3 Masquenade

- (8) dunation :- long
- 3 complexity: 1000
- passive attack is an attack that involve the attacken observing/monitoring the system without making any changes to it



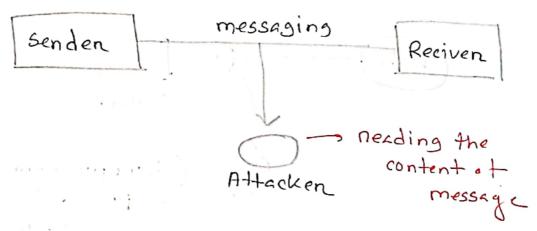
1) Type:
(1) Eaves Inopping

(3) Traffice analysis

(3) Replay

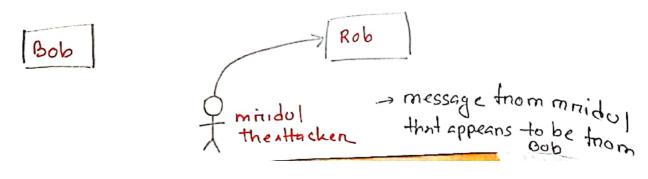
(*) what is Eaves dropping Attack?

and needs data that is than smitted between two device without the knowledge on consent of the panties involved.



* [what is masquenading Attack?]

-) it is a type of active attack where attackens pretends to be someone else (a legitimate useral system) to gain unauthonized access to system/data.



what is Dosattack?

Denial of senvice is a type of active affack where attackens aim to nender a computer I device unavailable to its intended usens by interpting the devicers normal tonctionality.

