

49 JS 4 Y 6
Information, Computer, Network — security
any kind of confidential info
device → unauthorized

net info
person security.

unauthorized person info viral or other
confidentiality. —

Privacy and data
info person security
etc.

Integrity — data वा alter, change, corrupt नहीं
protection means integrity maintain करो

Data integrity — data वा नहीं change

System integrity — System वा impairment नहीं होना

Goal

Prevention — intellectual property must be protected

Detection — detect करो

Recovery — data को आकर्षित recover

Security management process.

Identify what data is important

then fix bridging points to identify any

Previous storage data loss 2012, corrupt 2018

try out

HIDS - . . .

ISC - identify security controls

Implement security controls - no install cost

Monitoring security controls

software upto date अवृत्ति रखना ग्राहण करना
attack 2012

CIA Triad - info security 3 विनियम
integrity
availability
confidentiality
address
authorization करने का लक्ष्य

CIA
OTR

authenticity, Accountability

प्राप्ति ग्राहण करना

verifying who they are claim to be

जोनल person को रखने के लिए
जिसका जो person को trace
back कर सकता है।

- ① software bug
 - ② misuse of protocol (open port)
 - ③ poor designed networks.
 - ④ poor physical security - (data centers etc)
 - ⑤ insecure pass
 - ⑥ unchecked user input
- for more access attack by ATUR

Threats

Policy → violence 2nd threat.

Potential threat

intentional or unintentional data change

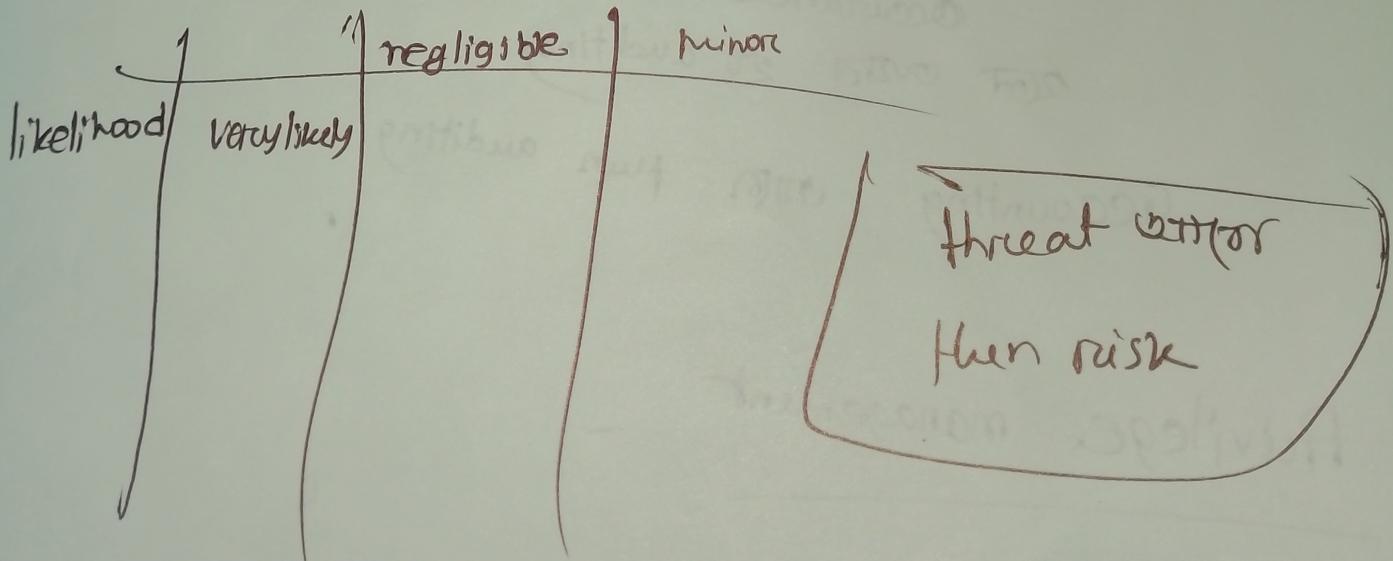
interruption of service

Damage to hardware

Risks

threat 23% vs. 10% damage / loss

damage 23% HIGH



$$\text{Risk} = \text{likelihood} \times \text{impact}$$

$$\text{Risk} = \text{vulnerability} \times \text{threat}$$

Hack

used to exploit a vulnerability in any application without authorization is called attack

Security control -

prevention control

Detection close

connection control

Non-repudiation / नो-रिप्यूडिशन

- Authentication - वाहन के Person का नाम वाला Proof कर

Authorization - Service (ଏହି Power କେତେ ମର୍ଦ୍ଦୀ ପାଇଁ କିମ୍ବା
(ମର୍ଦ୍ଦୀ ପାଇଁଥିଲୁ କିମ୍ବା) authorized କିମ୍ବା

Access control

→ access control over

accounting and auditing - activities track cost

Occurrence

एक ऑडिट द्वारा auditing

Accounting (with) financial auditing

privilege management

Least Privileged model -

minimal access requirement

privilege bracketing -

time limit at remote func. calls
privilege bracket over

resource alteration
Denial

DAD → CIA op. opposite

CIA

website may leak info to potential attacker

alteration

snooping - passive attack

modify - active attack

Denial - AT process follow 2nd pr. 3 service in ATBUT

destruction → defeat of availability.

DLP - Data loss prevention

Sensitive data identify & then prevent any

Sensitive Data - Source code

formulas -

Diagrams, videos,

Data beauty (etc.)