

Information Security

Securing Information Start from You

Girindro Pringgo Digdo

girindropringgodigdo.net

girindigdo@gmail.com

Whoami

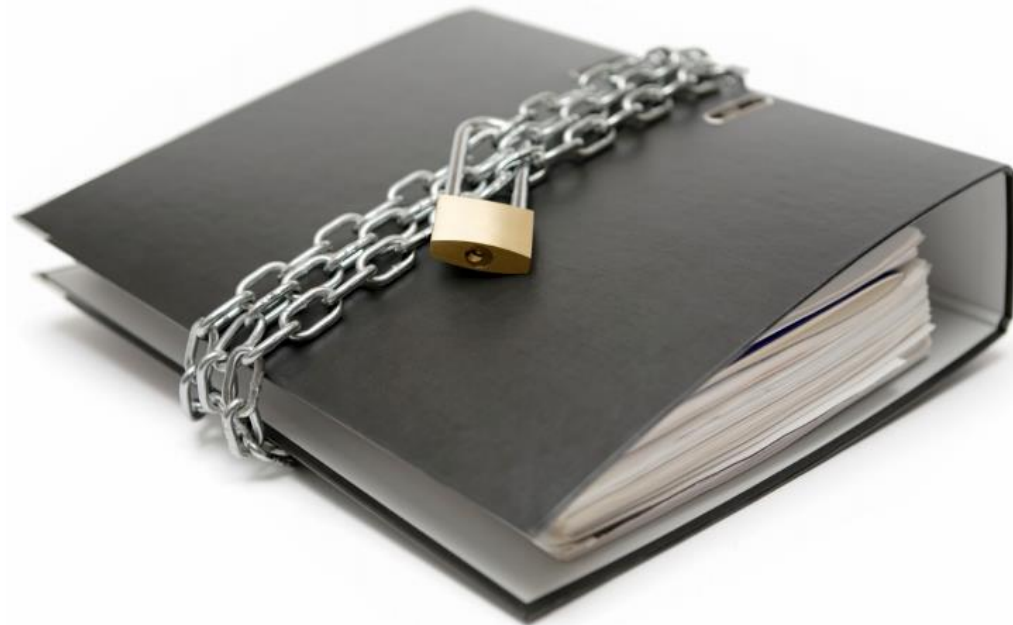
- Eight years in Information Security
- Lecturer
- Author

Agenda

- Introduction
- Information Security Problems
- Information Security Fundamentals

Information Security

"Protecting information and information systems from unauthorized access, use disclosure, disruption, modification, or destruction."



Information Security

According to a Deloitte's Technology, Media, and Telecommunications (TMT) Global Security Study, 70% of the TMT organisations surveyed rate their employees' lack of security awareness as an "average" or "high" vulnerability. **Lack of information security awareness**

Lack of Sufficient Security Awareness is one of the Top vulnerabilities (perceived as average or high threat)



70%

Lack of sufficient awareness with employees

Information Security

It's completely safe?

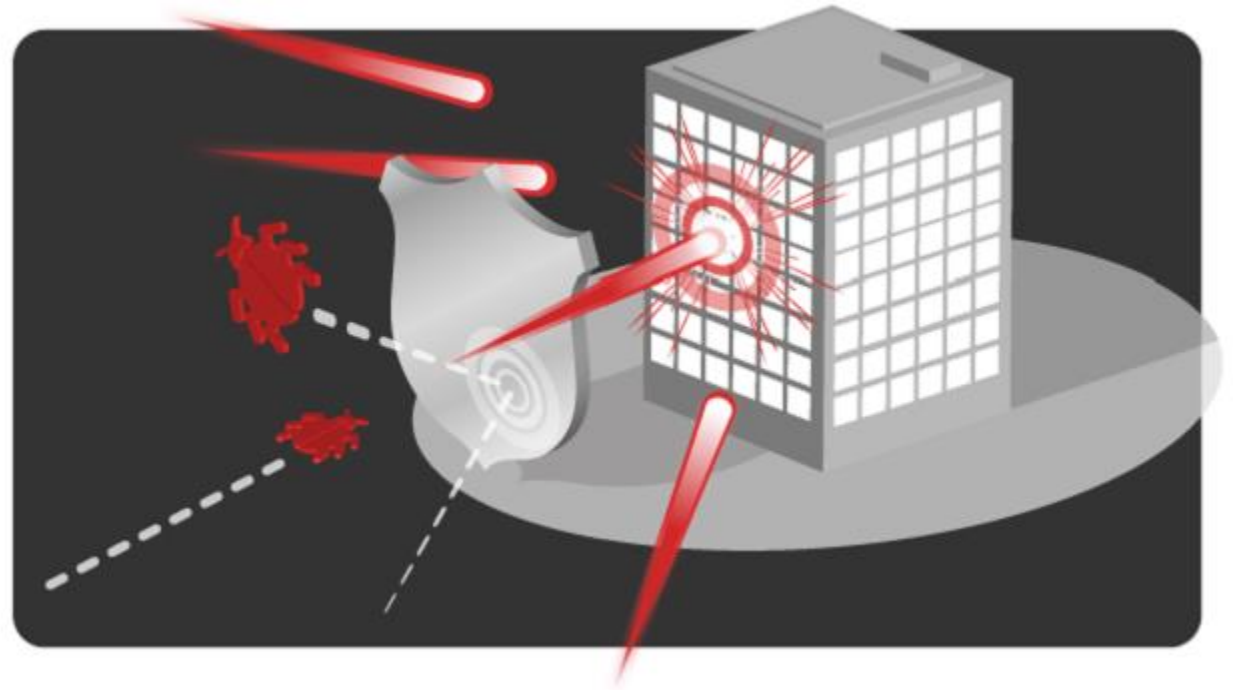
No.

Security > < Convenience



Information Security Problems

- Threats
- Vulnerability



Information Security Problems

- Threats

Threats are actions that occur both within the system and outside the system that could disrupt the information system.

- Nature
- Human
- Environment

Information Security Problems

- Nature
 - Floods, tsunami, sea water intrusion, high humidity, storms, melting snow,
 - Landslides, earthquakes, volcanic eruption,
 - Forest fires, lighting, tornadoes, hurricanes.
- Environment
 - The voltage drop or power surges suddenly and in a period of time long enough,
 - Pollution,
 - Chemicals effects such as insect spray, anti-fire spray,
 - Leaks; such as air conditioning, roof leaks.

Information Security Problems

- Human
 - Virus, Trojan horse, Worm, active contents,
 - Social engineering,
 - Hacking, cracking, unauthorized access, DDOS, backdoor,
 - Crime,
 - Stealing, piracy, fraud, vandalism,
 - Terroris,
 - Anonymous letter, information warfare, destruction.

Information Security Problems

- Threats

In fact, the threat comes from internal, that is coming from within the company, and externally or from outside of the company. Threats may also occur intentionally or unintentionally.



Information Security Problems

- Vulnerability

Weakness of a system that may arise when designing, establishing procedures, implement and weaknesses on the existing control system triggering violations by players who are trying to infiltrate the system.



Information Security Problems

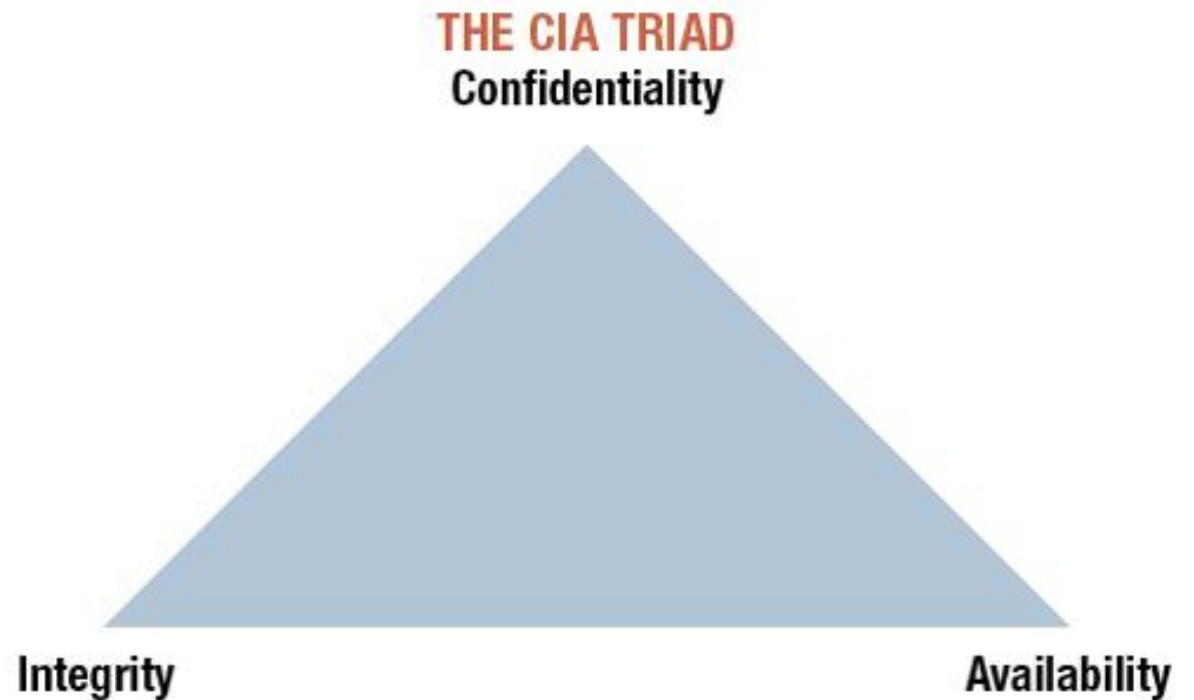
- Vulnerability

System defects can occur in procedures, equipment, and software owned.

- Telnet service opened therefore it can be accessed from the outside
- Password settings are not followed by the strong encryption

Information Security Fundamentals

- Confidentiality
- Integrity
- Availability



Information Security Fundamentals

- Confidentiality

Protect data and information from misuse by people who do not have the authority. Executive information systems, human resources, and transaction processing systems, are systems that should receive attention, especially in security.

Information Security Fundamentals

- Integrity

The entire system must provide information or provide an accurate picture of the physical systems they represent.

- Availability

Company data and information available to the parties that have the authority to use them.

Thanks to Google for any references and images 😊

Question?