

Information Security

Girindro Pringgo Digdo

Whoami

- Seven years in Information Security
- Lecturer
- Author

Agenda

- What is Information Security
- The Objective

What is Information Security?

“Set of business processes that protects information assets regardless of how the information is formatted or whether it is being processed, is in transit or is being stored.”

Information Security

Survey of Information Week (USA)

1271 systems or network managers, only 22% consider the information security as a important thing.

Low of security awareness

Information Security

- A government site was hacked and the portal has changed with the fake information.
- The internet banking get fraud from individual or groups.

Cyber Crime Increased

- Business apps use high end of technology
- Separating of servers / decentralization
- Increase of users skill with hacking tools
- Complicated systems
- Difficult to catch the criminals

Is there completely safe?

NO.

It's difficult to get 100% secure.

If you want to security, you have to get less convenience

Security >< Convenience

Two problems of InfoSec

- Threats
- Vulnerability

Threats

- Nature
 - Flood, Tsunami, Earth Quake, Volcano, etc
- Human
 - Virus, Cracking, DDOS, Social Engineering
- Environment
 - Pollution, Outage, Chemistry Component, Air Conditioning Failure

Threats

- Threats from individual, or groups that caused the broken of information
- There are internal and external threats

Vulnerability

- Firewall setting open non appropriate port
- There is no validation input for the apps

The Objective

- Confidentiality
- Integrity
- Availability