**Possible threats and attacks to information systems**

An information system is an integrated set of components that collect data, process data, store it and transmit information.

**Threats**

A threat is a possible danger that might exploit a vulnerability to breach security and can cause harm.

Physical

* Forces of nature

Fire, floods, earthquakes, lightening can destroy an information system.

* Sabo tour

Employees of a company can protest and destroy the information system.

* Technical hardware failures

The equipment of the information system can fail to work

* Thieves

They can break in and steal system components

* Open access to a computer system

Unauthorized people can also end up accessing the system and manipulate it.

* low quality assurance

Buying poor quality system components can lead to its failure

Digital

* viruses

These are malicious software when executed they can modify or manipulate information in a computer system.

* Hackers

these can utilize alternative system access methods to sabotage computer systems and networks.

**Attacks**

Act of exploiting volunabilities in an information system

Physical

* social engineering

Digital

* Compromise to intellectual property

The attacker can access the system and steal information which they can use for their own benefit.

* Data lose

An attacker can delete all the data in an information system

* Stealing information
* Denial of service
* Destributed denial of service
* spoofing
* Man in the middle
* Spam
* email bombing
* timing attack