

## Lecture 1:

- 1-**what is a security mindset?** Threats ,vulnerability and attacks.
- 2-**Threat source:**who wants to do harm to us in our lives.
- 3-**hacktivists** :activists who do not like something you are or something you do.
- 4-**Cyber Criminals** : want to profit from our sensitive data for financial gain.
- 5-**Nation states:** countries do it for political advantage or for espionage.
- 6-**threat actor:** exploit vulnerabilities to launch attack.
- 7-**attacks:** leads to compromises or security breaches.
- 8-**vulnerabilities:** can be found in software,networks and humans.
- 9-**security quiz:**



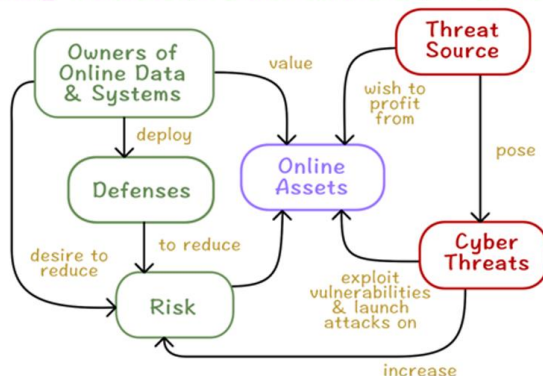
### Sony Pictures Quiz

With regards to the “The Interview” (2014) related hack, answer the following questions. Put the number of the correct answer in the box next to the question:

- The threat source was:**   
[1] cybercriminals, [2] Hacktivists, or ~~[3] Nation-State~~
- Goal of the attack was:**   
[1] Monetize stolen information, ~~[2] Stop Sony from releasing the movie “interview”~~, [3] Extort money from Sony
- What did the attack accomplish:**   
~~[1] Disclosed sensitive data~~, [2] Destroyed Sony computers

## 10- Relationship of key cyber security concepts: (midterm diagram)

### Revisiting Threats, Vulnerabilities, Attacks, and Risk



### Relationship of Key Cyber Security Concepts

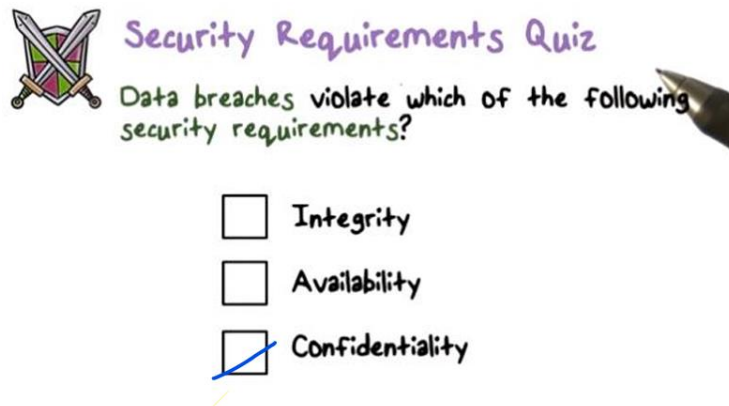
The **CIA**: Confidentiality ,Integrity, Availability

11-**confidentiality**: data can only be seen by those who are authorized to see it.

12-**integrity**: Only authorized people should be able to write it or modify it.

13-**availability**: The data is critical in the sense, what we use it for is critical, so if the data goes away in order to be able to do something that's really important to us. We can't access our online banking services because the server has been compromised, is down, or is a denial of service attack, or something like that.

14- quiz:



15-What should a good guy do?

1-Prevention

2-detection

3-response

4-recovery and remediation

5-policy (what) – mechanism (how).

16- quiz :

