DISCLAIMER

- This group is going to be run as a beginner's course in cybersecurity.

- You do not need to have any sort of previous experience to be able to follow the happenings here, just be familiar with certain computer science terms. (will make a google spreadsheet for definitions)

- I am not a professional

- Information will be collected from multiple sources on the internet. (will be cross-referenced with a professor for legitimacy)
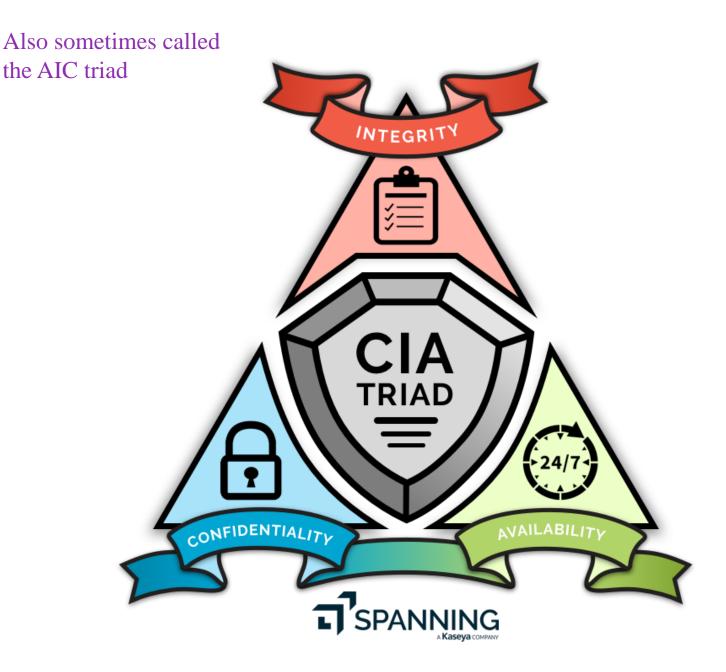
TRIVIA

- Currently there is a 0% unemployment rate in cyber security

- Cybercrime amounted to $3 trillion last year in loses, $6 trillion predicted annually by 2021. $1 trillion cumulatively over the next five years - from 2017 to 2021.

- The number of cyber attacks is going UP not down. Though white hat hackers continue to improve, the total number of cyber attacks doubled in 2017.

- 91% of cyber attacks in 2017 started with a phishing email.

- Mortgage companies are the #1 target

- Financial organizations are the biggest targets of cyber attacks

- 93% of breaches could have been avoided

WHAT DO CYBERSECURITY PROFESSIONALS DO?

- Cybersecurity experts use their skills and knowledge to prevent attacks and keep systems and data safe.

- They look at preventing, Identify, and isolate all threats.

- Create and update future defense models. Defense in Depth (DiD)
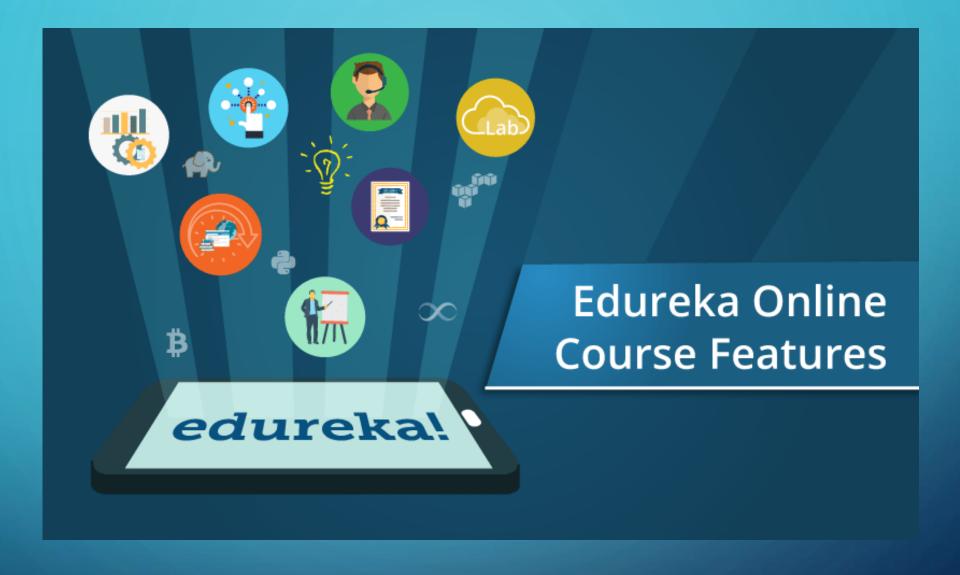
CYBERSECURITY OBJECTIVES

- Confidentiality or secrecy means that only authorized people should be able to access or read specific computer system date. (Credit card data, access codes, etc)

- Integrity means that only authorized people should have the ability to use or modify systems and data. (hacking your facebook, admin rights, etc)

- Availability means that authorized people should always have access to their systems and data. (5xx Server Error, bad gateway, etc)

Also sometimes called the AIC triad

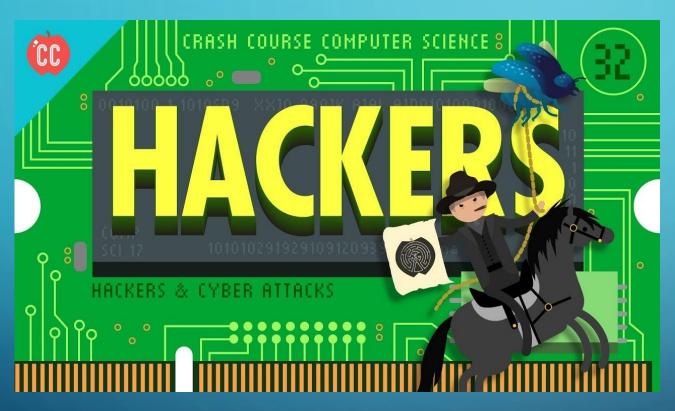https://www.youtube.com/watch?v=ULGILG-ZhO0

https://www.youtube.com/watch?v=ooJSgsB5fIE

WHAT TO EXPECT FROM THIS GROUP

"Offense is the Best Defense"

How to Hack a system

types of malware/viruses and how to deal with them

Building foundation in Bug bounties

Simulation of Defense models

Conventions of pentesting

PREVIEW OF A SIMPLE HACK

Time 6:16 – 8:55
SQL is a domain-specific language used in programming and designed for managing data held in a relational database management system, or for stream processing in a relational data stream management system.

https://www.youtube.com/watch?v=_GzE99AmAQU

REFERENCES

- https://www.csoonline.com/article/3120998/zero-percent-cybersecurity-unemployment-1-million-jobs-unfilled.html

- https://www.myabt.com/blog/7-of-the-most-interesting-facts-about-cyber-security

- https://www.youtube.com/watch?v=bPVaOlJ6ln0&list=PL8dPuuaLjXtNlUrzyH5r6jN9ullgZBpdo&index=32

- https://www.youtube.com/watch?v=ooJSgsB5fIE

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- https://www.youtube.com/watch?v=_GzE99AmAQU