

Agenda

- Cybersecurity
- Cyber Threats
- Phishing Attack
- Wireshark
- System Hardening



Cyber Security

- Computer and Network Security
- Preserve CIA
 - Confidentiality
 - Integrity
 - Availability
- C? I? or A?
 - Credit card numbers are stolen
 - Car
 - Broken
 - Stolen



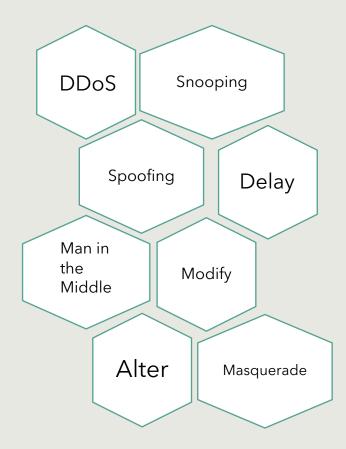
Cyber Security

- C? I? or A?
 - A user has gained root privileges on an E-commerce website. Changed the domain name of the website. Put all items on 50% discount.



Cyber Threats

- Potential Violation of CIA
- Classes:
 - Disclosure Unauthorized access to information
 - Deception Acceptance of false data
 - Disruption Interruption or prevention of correct operation
 - Usurpation Unauthorized control of some part of a system
- SQL Injection Attack
 - <u>Try it!</u>
 - Classify?



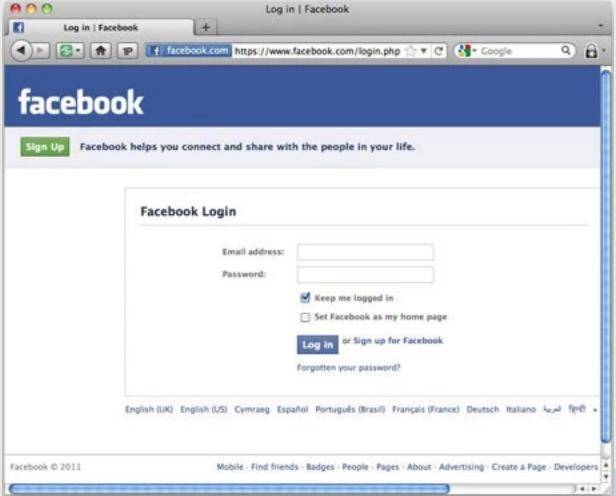


Phishing Attack

- Social Engineering technique
- Collection of personal data carried out illegally or fraudulently through the internet
- Use the information collected to make purchases online, bank transfers or cash withdrawals on behalf of the fraud victim
- Examples







Wireshark

- Network Packet Analysis
- Install software https://www.wireshark.org/
- Examine http://mailtranscripts.com/



System Hardening

- Defensive policies and steps to make your system difficult to hack
- Computer Hardening
- Network Hardening
- https://www.thefanclub.co.za/how-to/how-secure-ubuntu-1604-lts-server-part-1-basics



Thank You!

