Cybersecurity Club Minutes
9-20-2022

5:30 meeting started
- Briefly fix issues regarding Kali Linux setups
- Cybersecurity in the News
  o Twitter Breach
    ▪ 0-day vulnerability: an unpatched security issue
  o Uber Data Breach
  o American Airlines breach
  o Click-Fraud
- Virtual Machines
  o Run on top of physical computers using hypervisors
  o Benefits
    ▪ Isolated environment, environment suspension, easy manipulation of resources
  o Linux Environment
- Linux Basics
  o Installing software (sudo apt install [software])
  o Checking software version ([software] – version)
  o Typical format is [command][flags][path]
  o ls – lists all files in the directory
    ▪ ls -a – shows all secret folders (useful for CTF competitions, where the documents are not always in the main directory)
    ▪ ls -l – shows information about all files in the directory including permissions
  o cd – "change directory"
  o cd .. – takes you to previous folder
    ▪ cd ../.. – takes you back two folders (or however many /.. there are)
  o pwd – "print working directory" – outputs what directory you are currently in
  o locate – locates file
  o echo – prints whatever follows the command echo
  o cp – copy
  o mv – moves file (mv file.txt directory) moves file.txt to the directory
  o rm – deletes file
  o mkdir – makes new directory
  o alias – renames commands
  o chmod – user permissions
    ▪ Organized as user, group, other permissions
    ▪ Read = 4, Write = 2, Execute = 1, 7 = all permissions
    ▪ Add all desired permissions
      • Ex. chmod 777 joji.txt
      • Add permissions

- 4+2+1 = 7 so…
- User permissions = all permissions
- Group = all permissions
- Other permissions = all permissions
  - o nano – text editor
    - ▪ nano newFileName.txt
  - o touch – creates empty file without opening text editor
- Activity 1
  - o Use touch or nano to make new files
  - o Use mkdir to create new directory
  - o Use mv to move files
  - o Use "chmod 777 fileName" for read/write/execute to everyone
  - o Use "chmod 600 fileName" for read/write permissions to ONLY user
  - o Use "chmod 004 fileName" for only read permissions to everyone
- Scripting and example bash scripting
- Skipped Activity 2 due to time, but feel free to do on your own to practice Bash Scripting

6:17 talked about CTF teams
- HackerEarth
- Fill out the google form in discord if you have a CTF team or reach out if you want to be on a team
  - o These will be the teams you are on for future in-club activities and future CTF events

Next meeting objectives:
- Research Hashcat tool on linux
- Set up two more Kali Linux VM's and set them up in a virtual network
- We will be expanding on Wireshark and Nmap in the next meeting

6:30 meeting ended