

Cybersec progress 9.6.26

=====Review so far: =====

We learned about physical links:

- ethernet cables
- 8 wires in pairs
- on pair is transmit (TX) one is receive (RX)
- full duplex (talking and listening at the same time)

We used terminal to learn about our computer, and to reach out to other computers:

- whoami, last, history, top
- ssh (secure shell), ping, traceroute
- nslookup, dig (names to numbers)
- commands and flags (shutdown -r now)
- privileges: root and sudo
- ctrl-c and ctrl-x (stop and halt)

We learned how to scan a network:

- IP net monitor
- arp-scan
- nmap

We learned about network architecture:

- subnets
- IP addresses
- 192.168.1.x and 10.14.x.y networks
- gateways
- domain name service (DNS)

We need to learn to navigate around the guts of another computer, locally or remotely: why?

- pwd tells you where you are (print working directory) like on a elevator, which floor you are on
- ls tells me what is on that "floor"
- ls -la tells me about even the hidden things on the floor
- ls -lha does all of this in human form
- cd means change directory (floor) on the elevator

Try this:

sudo nano <name> is how we create a file

- in terminal, navigate to your desktop folder
- create a new document called secret: sudo nano secret
- type some secret stuff there

- type ctrl-o (overwrite) and ctrl-x (exit)
- look around your folders for the secret file
- Ok, now repeat the process, creating a file called .hidden (the period makes it hidden)
- type stuff and save
- now look for the file
- ask your friends to find your files by ssh into your machine (don't tell them what you wrote)

to create a new folder (directory) we use mkdir (make a directory)

- try mkdir mystuff (no spaces, computers freak out with spaces)
- cd into that folder: cd mystuff
- make a document there
- ask your friends to find it
- look on your desktop for the folder
- create a hidden file there, see if they can find it

I have hidden a file in another computer, with a reference to yet another computer.
Your challenge is to find the files.

Next:

1. secure copy: scp <file> user@<ipaddress:/location>
2. networks advanced: routers

Revision #3

Created 2026-09-07 04:09:50 UTC by Admin

Updated 2026-09-07 23:58:47 UTC by Admin