TERMINAL CHALLENGE

Terminal Recap

TERMINAL VS TERMINAL EMULATOR



TERMINAL:

- RESEMBLES A TYPEWRITER, DOESN'T IT?
- ".. IS AN ELECTRONIC OR
 ELECTROMECHANICAL HARDWARE
 DEVICE THAT IS USED FOR ENTERING
 DATA INTO, AND DISPLAYING DATA
 FROM, A COMPUTER OR A COMPUTING
 SYSTEM" WIKI
- ENTER DATA
- DISPLAY DATA

TERMINAL VS TERMINAL EMULATOR (CONTINUED)

```
    asselaliyeva — -bash — 132×28

Last login: Mon Jul 31 22:29:55 on ttys004
Vanquish:~ russian_mobster$ which $SHELL truction:
Vanquish:~ russian_mobster$ | DD | = get_instruction(cm, op_value, insn[idx:], self.odex)
```

TERMINAL EMULATOR:

- EMULATOR
- IMITATES TEXT TERMINAL
- RUNS A SHELL PROGRAM

TERMINAL EMULATOR VS SHELL

TERMINAL EMULATOR:

- AN MULATOR
- IMITATES TEXT TERMINAL
- RUNS A SHELL PROGRAM

SHELL:

- A PROGRAM
- PARSES THE INPUTS
- STARTS OTHER PROGRAMS
- BASH, SH, FISH, ETC.

TERMINAL COMMANDS

```
ls- lists all of the files in the directory

cd folder_name- change to the specified directory

cat file_name - show the contents of the file

vim - text editor
```

man command - your best friend! Gives you a full description of the command

Many many more cool commands ...

You may find this helpful! Or Google;)

CHALLENGE SETUP

- DOWNLOAD A FILE CALLED "CB" FROM GITHUB
- RUN CHMOD 700 CH
- SSH -I CB CODEBREAKER@128.31.26.145

CHALLENGE SETUP (CONTINUED)

You should end up with something like this ->

Congratulations!

You have control

over a remote

machine!

```
ssh — ubuntu@aosp: ~ — ssh -i cb CodeBreaker@128.31.26.145 — 149×27
[Vanquish:.ssh russian_mobster$ ssh -i cb CodeBreaker@128.31.26.145
Welcome to Ubuntu 14.04.5 LTS (GNU/Linux 3.13.0-77-generic x86_64)
 * Documentation: https://help.ubuntu.com/
  System information as of Tue Aug 1 03:13:37 UTC 2017
  System Load: 0.06
                                 Processes:
                                                     are free software:
 Usage of /: 0.9% of 157.46GB Users logged in:
  Memory usage: 0%
                                 IP address for eth0: 10.0.0.8
  Swap usage: 0%
  Graph this data and manage this system at:
   https://landscape.canonical.com/
  Get cloud support with Ubuntu Advantage Cloud Guest:
   http://www.ubuntu.com/business/services/cloud
0 packages can be updated.
0 updates are security updates.
New release '16.04.2 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
Last login: Tue Aug 1 03:13:37 2017 from vpn1-dhcp65-183.bu.edu
```

TERMINAL CHALLENGE

- What is the path of the directory you are currently in?
- What is your username on the remote machine?
- Implement the instruction described in the file cbReadMe under bin directory
- List all the files in /var/tmp. Who is the owner of the BU file?
- "He held out his snuffbox of old gold, with a great amethyst in the centre of the lid.". Does merlinorearlyhis04wheauoft.txt contain this string?
- Go back to your original directory
- Make a folder named "your name here"
- Change to that directory. Create and edit my_message.txt with any text editor (you can use vim or nano)
- Find somebody else's message and read it!
- Copy any file from your local machine (!) to the directory you made on the remote CodeBreaker@128.31.26.145 Hint

TERMINAL CHALLENGE (CONTINUED)

- What Python version does the server use?
- What is the Python source directory?
- What is the speed of CPU of the server?
- What file is located under tmp directory? What message does it print?
- Find public key corresponding to your private key hidden somewhere on the server (Think of where RSA keys are saved on Linux)
- What code in hidden in lizard.jpg.uue in your home directory?
- If the second server has ip==10.0.0.61, is it reachable from a public network? (Internet)
- What is the code in topsecret.txt in ubuntu's home directory?