Part 1, The Basics

1. **How would you find the path to the python command?**
   whereis python

2. **How would you download a file from the Internet?**
   We will use 'curl' command to download a file from internet
   curl "URL link" --output "filename"

   Example:
   curl http://www.cs.tufts.edu/comp/116/set1.pcap --output set1.pcap

3. **What command can you use to find out your IP address and MAC address?**
   Command 'ifconfig' can be used to find both IP address and MAC address. For more specific commands, see below

   To find IP address:
   Wi-Fi: ipconfig getifaddr en0
   wired connections: ipconfig getifaddr en1
   public IP address: curl ifconfig.me

   To find MAC address:
   ifconfig
   it will be beside 'ether'

4. **What command can you use to show all the processes that are running on the system?**
   Command: top

5. **What command can you use to get more details about running processes listening on ports?**
   lsudo lsof -nP -iTCP -sTCP:LISTEN

6. **What command with flag could you use to list every file, including hidden files, on the entire system, showing their owner, location, and access time? Please also note the flags that you used with command.**
   Command: ls -alR/
   Flag: -alR/

7. **Assume you found a file named warrent.pdf. What command could you use to find out what type of file this was?**
   file warrant.pdf

8. **So you discovered that warrent.pdf is a binary executable. What command could you use to extract any readable information from the file without running it? Also, try this on a compressed file such a ZIP or JAR**
   Command ‘strings’ to print sequence of a file that is readable

9. **What command can you use to find the IP address-to-MAC address mappings for systems on the local network?**
   arp -a

10. **Consider the following IP address: 5[dot]188[dot]86[dot]172. Where is the computer with that IP address located --in what country?**
    Netherlands

11. **For the previous question, what command did you use to determine the location of the computer?**
    whois 5.188.86.172

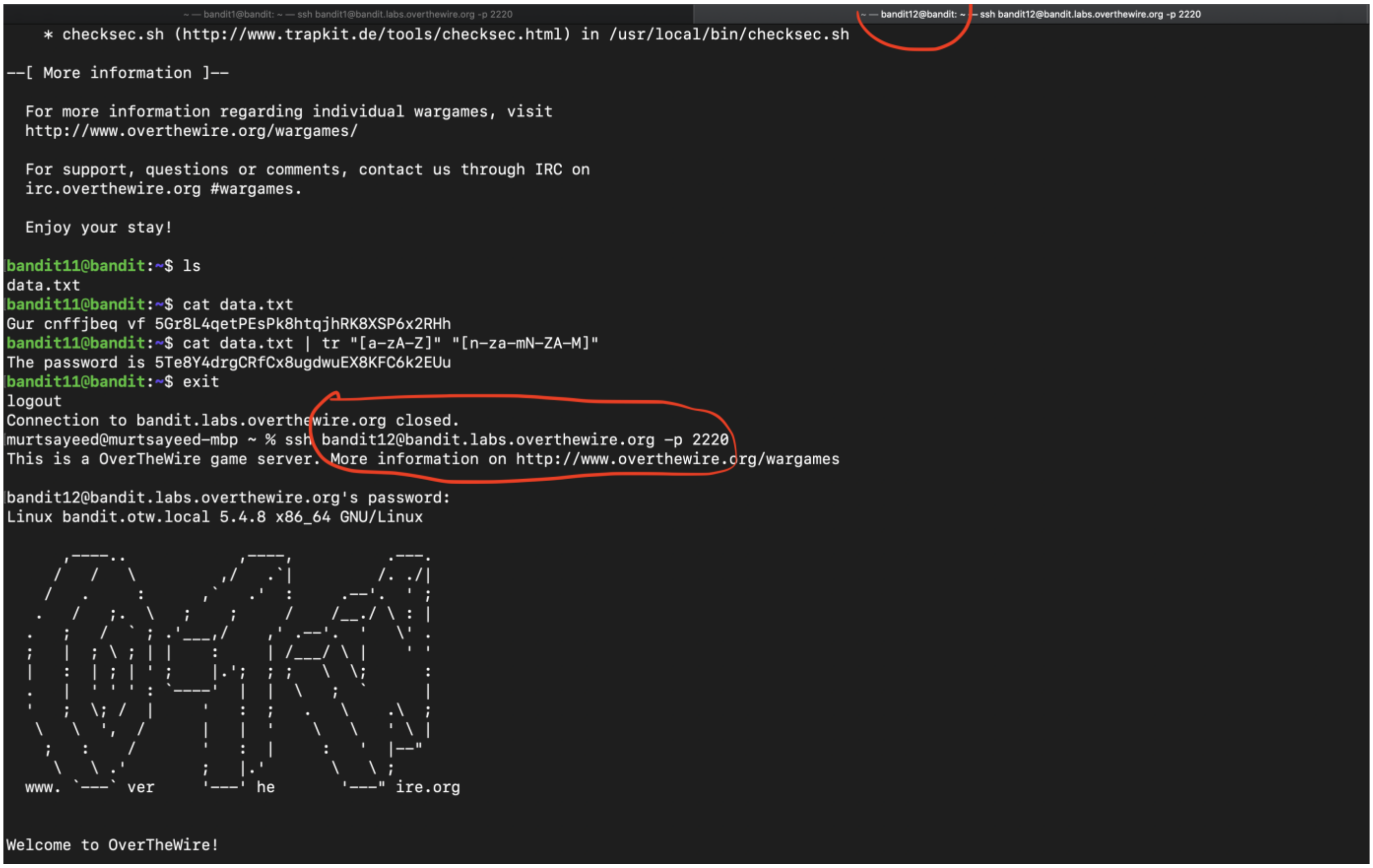
12. **What command can you use to securely delete a file?**
    shred -u

13. **What command can you use to see if you are a computer administrator or superuser?**
    Command ‘id’ and if UID is ‘0’ you are superuser, any other number is not a superuser

14. **What command can you use to see list of previous commands you have entered on command line?**
    history

15. **What command can you use to see list of scheduled tasks running on your computer?**
    crontab -l

Part 2, Wargames


~ — bandit1@bandit: ~ — ssh bandit1@bandit.labs.overthewire.org -p 2220
~ — bandit12@bandit: ~ — ssh bandit12@bandit.labs.overthewire.org -p 2220

```
    * checksec.sh (http://www.trapkit.de/tools/checksec.html) in /usr/local/bin/checksec.sh

--[ More information ]--

  For more information regarding individual wargames, visit
  http://www.overthewire.org/wargames/

  For support, questions or comments, contact us through IRC on
  irc.overthewire.org #wargames.

  Enjoy your stay!

bandit11@bandit:~$ ls
data.txt
bandit11@bandit:~$ cat data.txt
Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHh
bandit11@bandit:~$ cat data.txt | tr "[a-zA-Z]" "[n-za-mN-ZA-M]"
The password is 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu
bandit11@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
murtsayeed@murtsayeed-mbp ~ % ssh bandit12@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames

bandit12@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux

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Welcome to OverTheWire!
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