Task 1:SSH (Secure Socket Shell)

- A network protocol that allows access to a remote computer

- Usage

  - ssh username@ip

  - Eg: ssh alice@10.30.10.160

Task 2:SCP (Secure Copy)

- Copy files/folder from a remote computer

- Usage

  - scp <source> <destination>
  - Copy file from Alice to local:

    scp alice@10.30.10.160:/home/alice/file.txt /home/bob/

  - Copy file to Alice from local:

    scp /home/bob/file alice@10.30.10.160:/home/alice/

  - Copy folder from Alice to local:

    scp -r alice@10.30.10.160:/home/alice/folder /home/bob/

Task 3: IPTABLE

a. Display current rules in iptable

b. Insert a rule to drop packet from a specific IP address

c. Delete the rule created for (b)

d. Append a rule to drop ssh connection request from an IP address

e. Flush iptable

Ref : https://fedoraproject.org/wiki/How_to_edit_iptables_rules

Task 4: John the Ripper

- A password cracking tool

- Task

  - Install the tool: sudo apt-get install john

  - Create a new user with weak password

    eg: user name = alice password= password

  - Unshadowing: unshadow /etc/passwd /etc/shadow > crackme

  - Crack password: john crackme

    or john - -wordlist=password.lst crackme

Ref : http://www.binarytides.com/cracking-linux-password-with-john-the-ripper-tutorial/

Task 5: Install gdb-peda

- https://github.com/longld/peda

  or

  cd peda

  echo "source ~/peda/peda.py" >> ~/.gdbinit