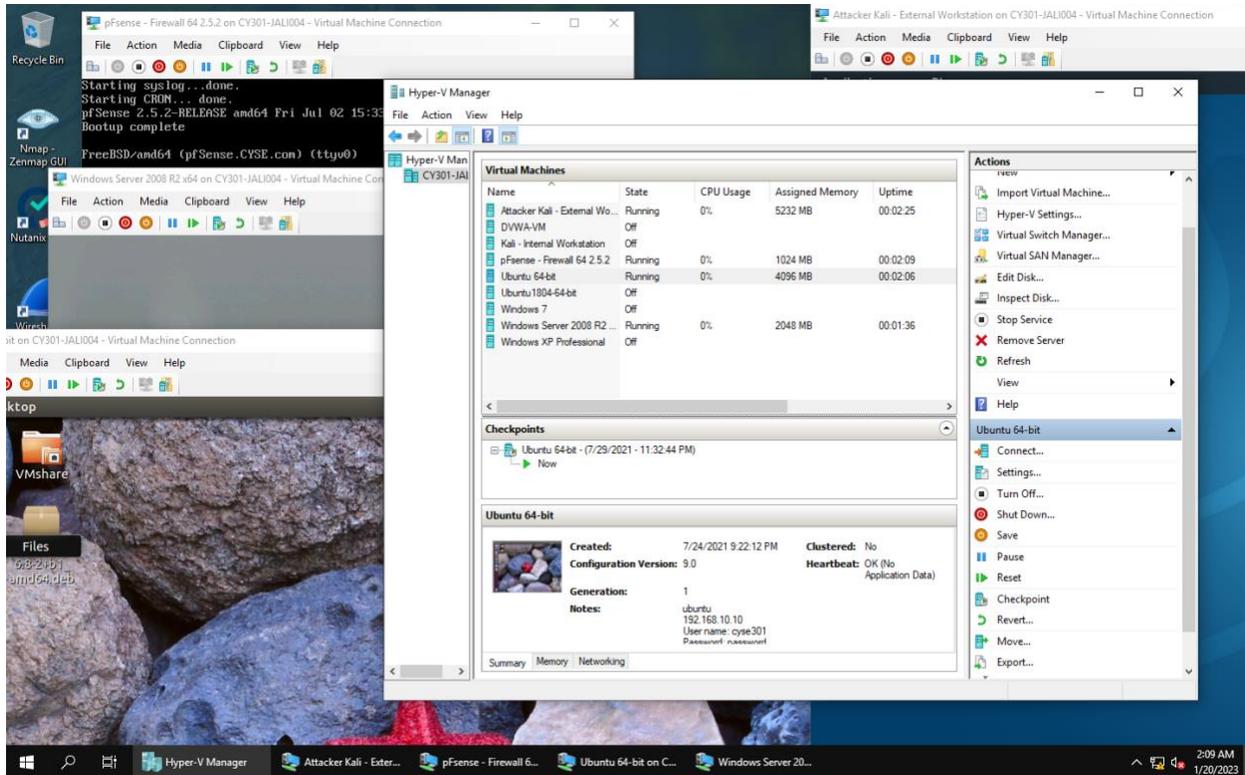
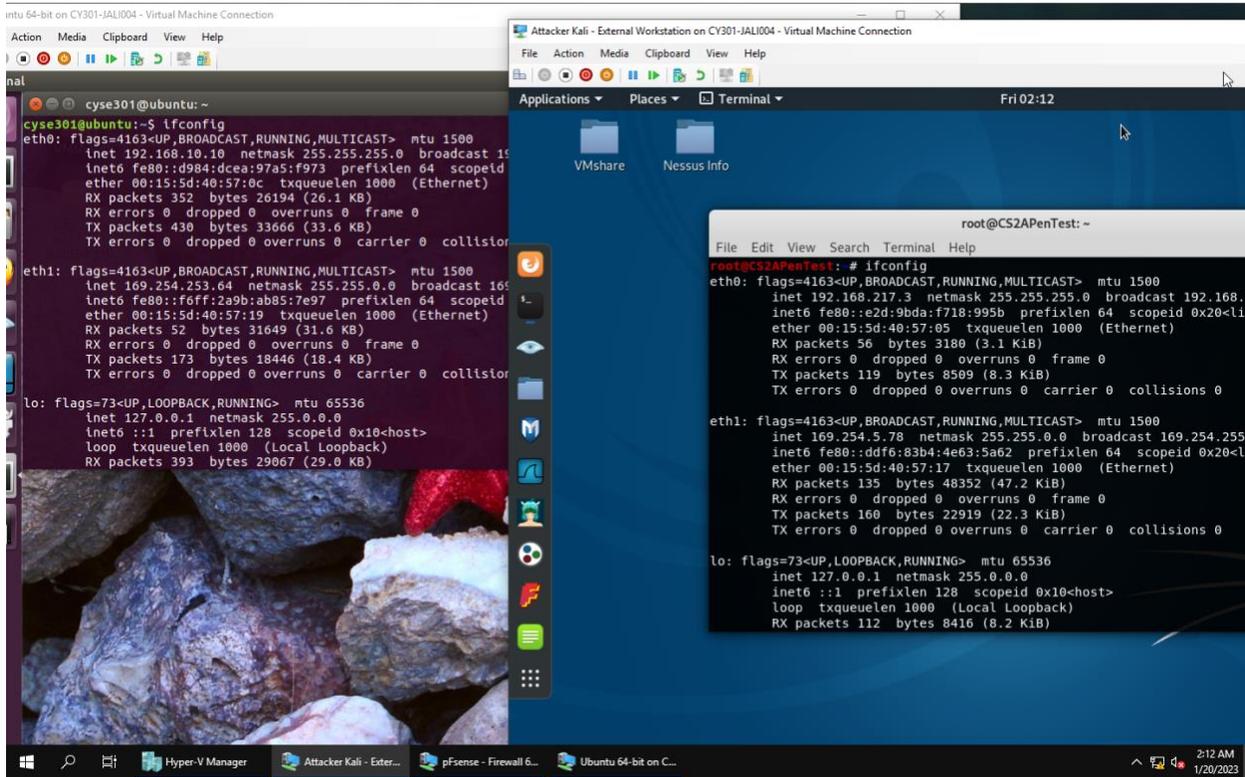


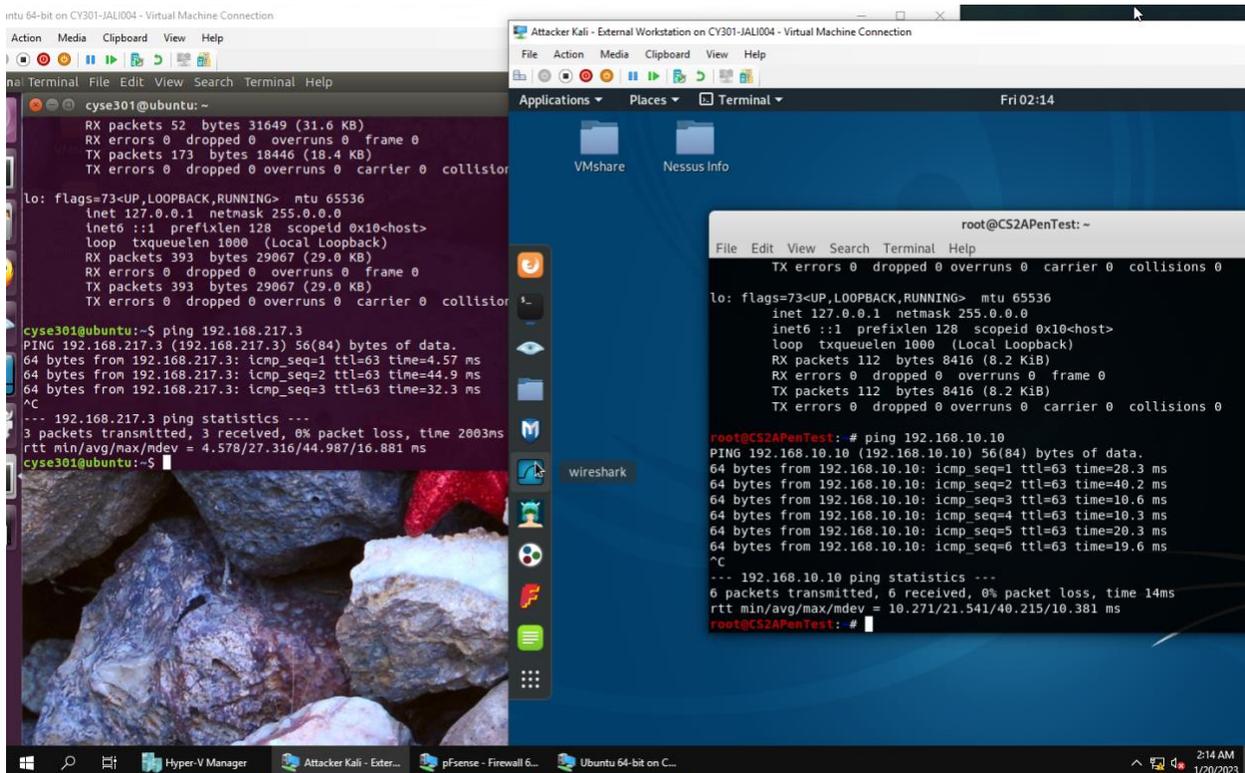
# TASK A



1. Explanation: Opened Hyper-V Manager to power on the following VMs, pfSense, Kali, Windows Server 2008, and Ubuntu 64-bit. Logged in to Ubuntu and Kali. Checked Status, all running.

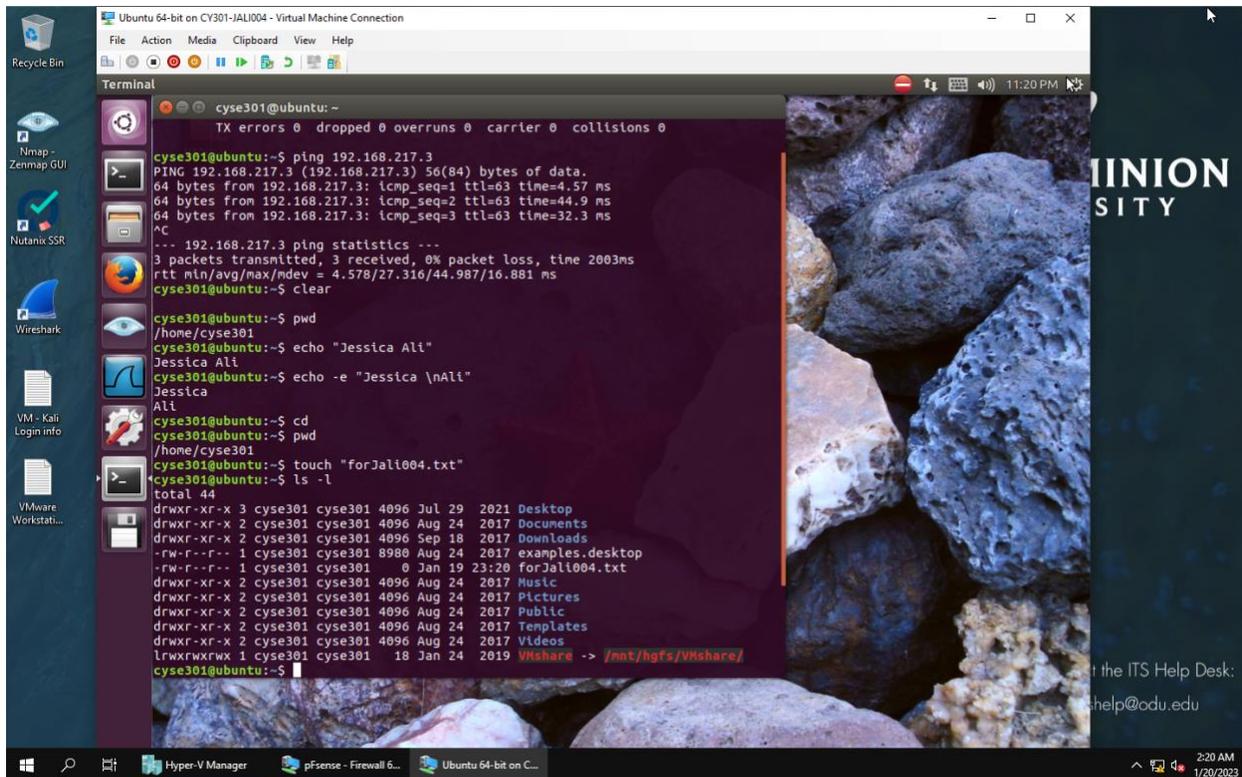


2. Explanation: Found the IP address for Ubuntu 64-bit VM (192.168.10.10) and Kali Linux VM (192.168.217.3) using the ifconfig command.



3. Verified the connection between Kali Linux VM and Ubuntu VM using the ping command. Connection established as shown above with packet transfers. Used Ctrl+C to stop ping.

## TASK B



```
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
cyse301@ubuntu:~$ ping 192.168.217.3
PING 192.168.217.3 (192.168.217.3) 56(84) bytes of data:
64 bytes from 192.168.217.3: icmp_seq=1 ttl=63 time=4.57 ms
64 bytes from 192.168.217.3: icmp_seq=2 ttl=63 time=44.9 ms
64 bytes from 192.168.217.3: icmp_seq=3 ttl=63 time=32.3 ms
^C
-- 192.168.217.3 ping statistics --
3 packets transmitted, 3 received, 0% packet loss, time 2003ms
rtt min/avg/max/mdev = 4.578/27.316/44.987/16.881 ms
cyse301@ubuntu:~$ clear

cyse301@ubuntu:~$ pwd
/home/cyse301
cyse301@ubuntu:~$ echo "Jessica Ali"
Jessica Ali
cyse301@ubuntu:~$ echo -e "Jessica \nAli"
Jessica
Ali
cyse301@ubuntu:~$ cd
cyse301@ubuntu:~$ pwd
/home/cyse301
cyse301@ubuntu:~$ touch "forJali004.txt"
cyse301@ubuntu:~$ ls -l
total 44
drwxr-xr-x 3 cyse301 cyse301 4096 Jul 29 2021 Desktop
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Documents
drwxr-xr-x 2 cyse301 cyse301 4096 Sep 18 2017 Downloads
-rw-r--r-- 1 cyse301 cyse301 8980 Aug 24 2017 examples.desktop
-rw-r--r-- 1 cyse301 cyse301 0 Jan 19 23:20 forJali004.txt
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Music
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Pictures
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Public
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Templates
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Videos
lrwxrwxrwx 1 cyse301 cyse301 18 Jan 24 2019 VMshare -> /mnt/hgfs/VMshare/
cyse301@ubuntu:~$
```

1. Displayed my current directory in Ubuntu terminal using pwd command.
2. Used the echo command to print Jessica Ali to the console.
3. Displayed Jessica Ali in two separate lines using a single echo command, echo -e "Jessica \nAli", notice \n, an escape character, prompting computer to hop to next line.
4. Executed cd to return to my current home directory, and double checked using pwd.
5. Created new file named forJali004.txt with nothing in it in my home directory using the touch command. The file size is 0 bytes.

Ubuntu 64-bit on CY301-JALI004 - Virtual Machine Connection

File Action Media Clipboard View Help

Terminal Terminal File Edit View Search Terminal Help

```
cyse301@ubuntu:~$ mkdir "jall004"
cyse301@ubuntu:~$ ls -l
total 48
drwxr-xr-x 3 cyse301 cyse301 4096 Jul 29 2021 Desktop
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Documents
drwxr-xr-x 2 cyse301 cyse301 4096 Sep 18 2017 Downloads
-rw-r--r-- 1 cyse301 cyse301 8980 Aug 24 2017 examples.desktop
-rw-r--r-- 1 cyse301 cyse301 0 Jan 19 23:20 forjall004.txt
drwxr-xr-x 2 cyse301 cyse301 4096 Jan 19 23:22 jall004
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Music
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Pictures
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Public
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Templates
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Videos
lrwxrwxrwx 1 cyse301 cyse301 18 Jan 24 2019 VMshare -> /mnt/hgfs/VMshare/
cyse301@ubuntu:~$ cp /etc/passwd/home/cyse301
cp: missing destination file operand after '/etc/passwd/home/cyse301'
Try 'cp --help' for more information.
cyse301@ubuntu:~$ cp /etc/passwd/home/cyse301
cyse301@ubuntu:~$ ls -l
total 52
drwxr-xr-x 3 cyse301 cyse301 4096 Jul 29 2021 Desktop
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Documents
drwxr-xr-x 2 cyse301 cyse301 4096 Sep 18 2017 Downloads
-rw-r--r-- 1 cyse301 cyse301 8980 Aug 24 2017 examples.desktop
-rw-r--r-- 1 cyse301 cyse301 0 Jan 19 23:20 forjall004.txt
drwxr-xr-x 2 cyse301 cyse301 4096 Jan 19 23:22 jall004
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Music
-rw-r--r-- 1 cyse301 cyse301 2439 Jan 19 23:26 passwd
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Pictures
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Public
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Templates
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Videos
lrwxrwxrwx 1 cyse301 cyse301 18 Jan 24 2019 VMshare -> /mnt/hgfs/VMshare/
cyse301@ubuntu:~$
```

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Ubuntu 64-bit on CY301-JALI004 - Virtual Machine Connection

File Action Media Clipboard View Help

Terminal Terminal File Edit View Search Terminal Help

```
cyse301@ubuntu:~$ mv passwd passwd_jall004
cyse301@ubuntu:~$ ls -l
total 52
drwxr-xr-x 3 cyse301 cyse301 4096 Jul 29 2021 Desktop
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Documents
drwxr-xr-x 2 cyse301 cyse301 4096 Sep 18 2017 Downloads
-rw-r--r-- 1 cyse301 cyse301 8980 Aug 24 2017 examples.desktop
-rw-r--r-- 1 cyse301 cyse301 0 Jan 19 23:20 forjall004.txt
drwxr-xr-x 2 cyse301 cyse301 4096 Jan 19 23:22 jall004
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Music
-rw-r--r-- 1 cyse301 cyse301 2439 Jan 19 23:26 passwd_jall004
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Pictures
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Public
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Templates
drwxr-xr-x 2 cyse301 cyse301 4096 Aug 24 2017 Videos
lrwxrwxrwx 1 cyse301 cyse301 18 Jan 24 2019 VMshare -> /mnt/hgfs/VMshare/
cyse301@ubuntu:~$ head -n passwd_jall004
head: invalid number of lines: 'passwd_jall004'
cyse301@ubuntu:~$ head -n 6 passwd_jall004
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
cyse301@ubuntu:~$ grep www passwd_jall004
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
cyse301@ubuntu:~$
```

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6. Created a new directory called jali004 with the mkdir command and double checked with the long listing command, ls -l, and the jali004 directory is 4096 bytes.

7. Copied /etc/passwd file to my home directory with the cp command and renamed the file with the mv command. Then I double checked that I moved it correctly with the ls -l command. Then I renamed the file (passwd ) to passwd\_jali004. I double checked again using the long listing command, ls -l. Next I read the first six lines of the file passwd\_jali004 with the command head -n 6 and clarified the file passwd\_jali004. Lastly I used the grep command to search and display text within the entire file passwd\_jali004 that contained "www".