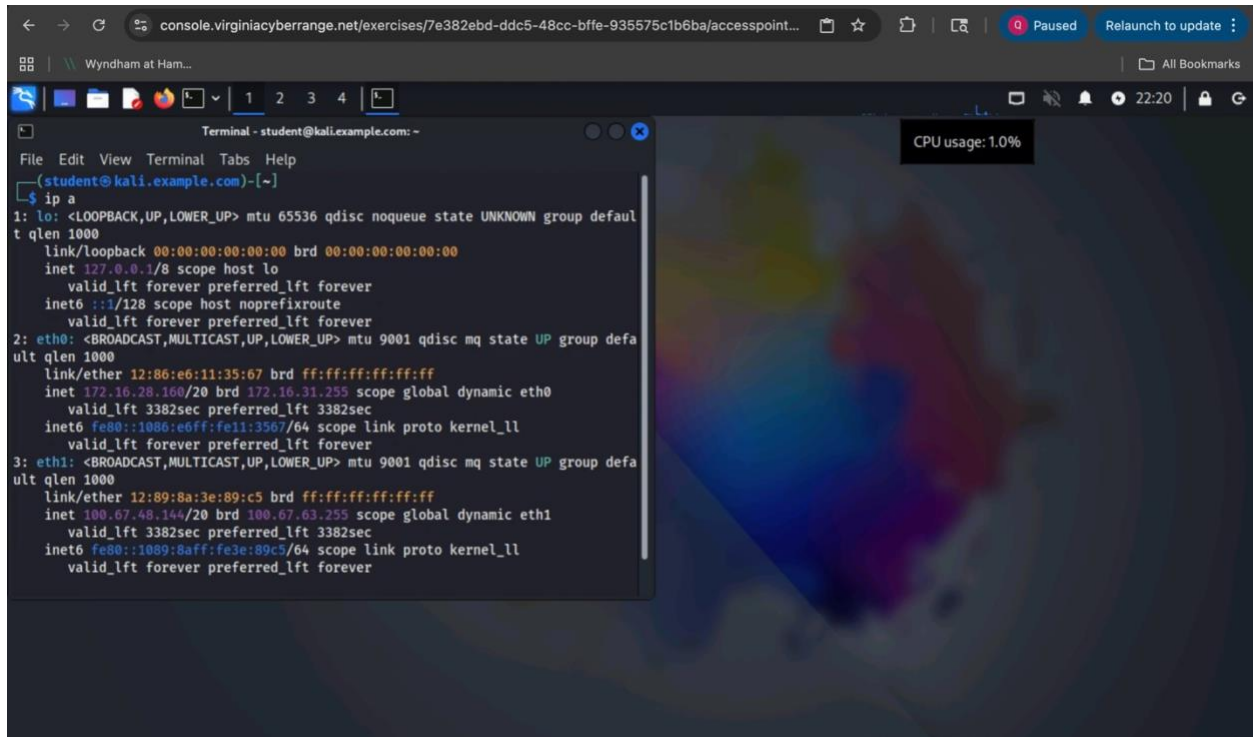
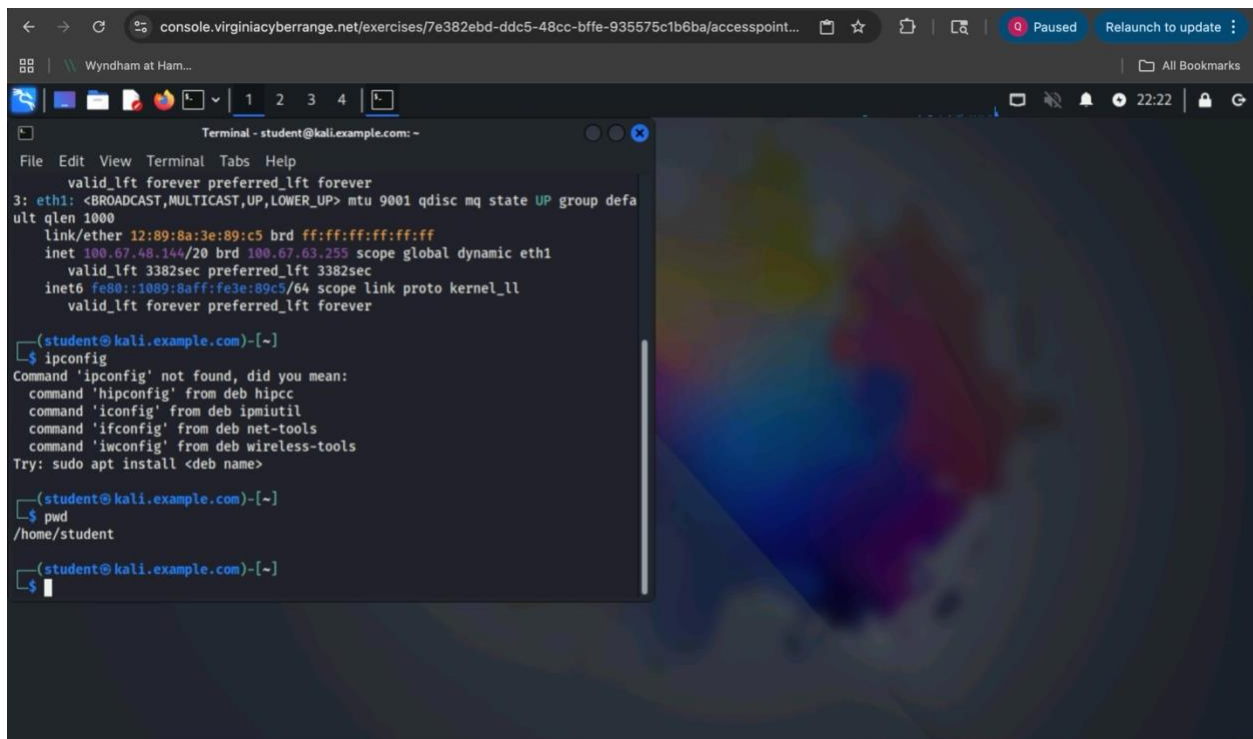


## Step 1



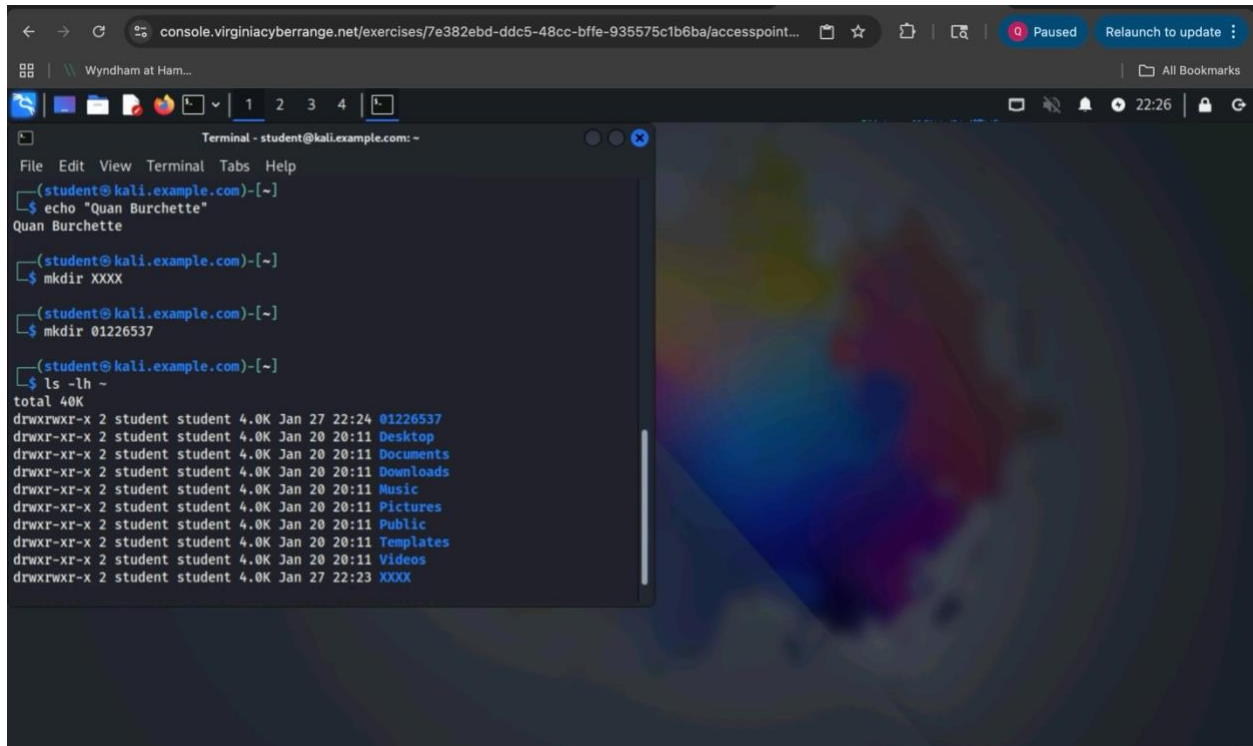
```
console.virginiacyberrange.net/exercises/7e382ebd-ddc5-48cc-bffe-935575c1b6ba/accesspoint...  
Wyndham at Ham...  
Terminal - student@kali.example.com: ~  
File Edit View Terminal Tabs Help  
(student@kali.example.com)~  
$ ip a  
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000  
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00  
    inet 127.0.0.1/8 scope host lo  
        valid_lft forever preferred_lft forever  
    inet6 ::1/128 scope host noprefixroute  
        valid_lft forever preferred_lft forever  
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 9001 qdisc mq state UP group default qlen 1000  
    link/ether 12:86:e6:11:35:67 brd ff:ff:ff:ff:ff:ff  
    inet 172.16.28.160/20 brd 172.16.31.255 scope global dynamic eth0  
        valid_lft 3382sec preferred_lft 3382sec  
    inet6 fe80::1086:e6ff:fe11:3567/64 scope link proto kernel_ll  
        valid_lft forever preferred_lft forever  
3: eth1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 9001 qdisc mq state UP group default qlen 1000  
    link/ether 12:89:8a:3e:89:c5 brd ff:ff:ff:ff:ff:ff  
    inet 100.67.48.144/20 brd 100.67.63.255 scope global dynamic eth1  
        valid_lft 3382sec preferred_lft 3382sec  
    inet6 fe80::1089:8aff:fe3e:89c5/64 scope link proto kernel_ll  
        valid_lft forever preferred_lft forever  
CPU usage: 1.0%
```

## Step 2



```
console.virginiacyberrange.net/exercises/7e382ebd-ddc5-48cc-bffe-935575c1b6ba/accesspoint...  
Wyndham at Ham...  
Terminal - student@kali.example.com: ~  
File Edit View Terminal Tabs Help  
(student@kali.example.com)~  
$ ipconfig  
Command 'ipconfig' not found, did you mean:  
  command 'hipconfig' from deb hipcc  
  command 'iconfig' from deb ipmiutil  
  command 'ifconfig' from deb net-tools  
  command 'iwconfig' from deb wireless-tools  
Try: sudo apt install <deb name>  
(student@kali.example.com)~  
$ pwd  
/home/student  
(student@kali.example.com)~  
$
```

## Step 3 and 4



The screenshot shows a web browser window with the address bar displaying `console.virginiciyberrange.net/exercises/7e382ebd-ddc5-48cc-bffe-935575c1b6ba/accesspoint...`. The browser interface includes a "Paused" button and a "Relaunch to update" link. Below the browser window, a terminal window titled "Terminal - student@kali.example.com: ~" is open. The terminal shows the following commands and output:

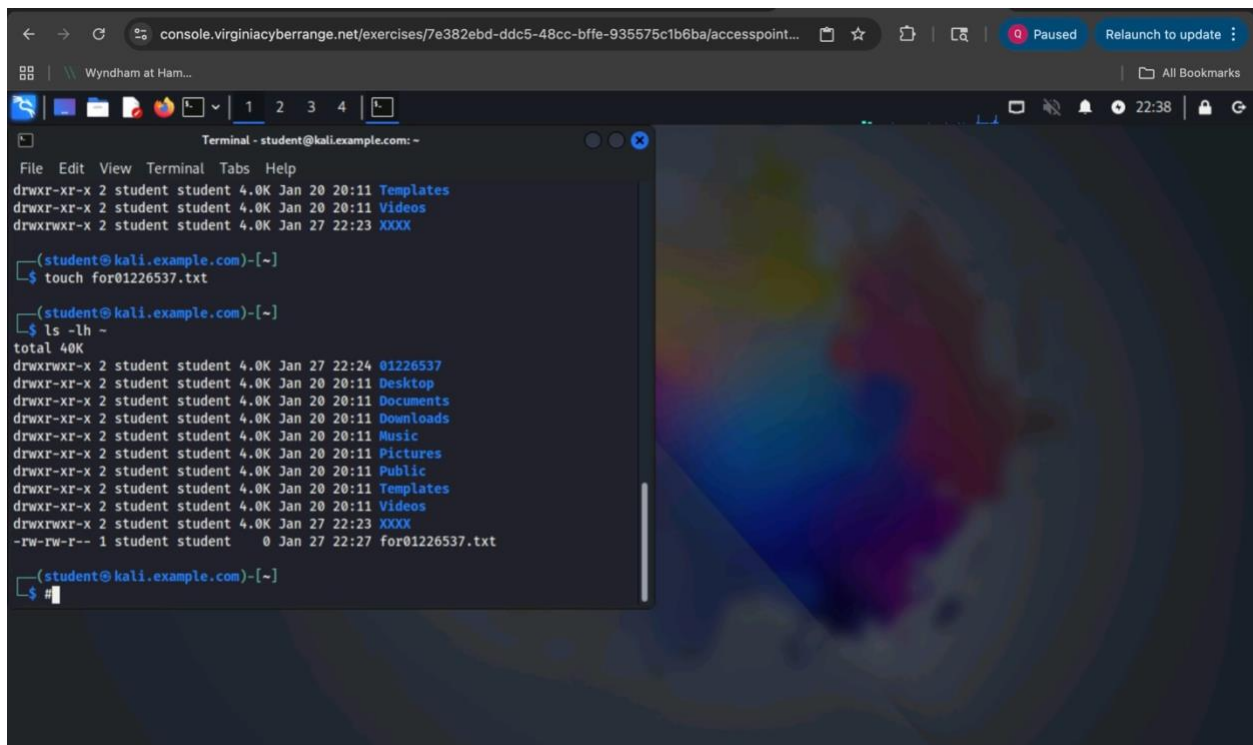
```
(student@kali.example.com)-[~]
$ echo "Quan Burchette"
Quan Burchette

(student@kali.example.com)-[~]
$ mkdir XXXX

(student@kali.example.com)-[~]
$ mkdir 01226537

(student@kali.example.com)-[~]
$ ls -lh ~
total 40K
drwxrwxr-x 2 student student 4.0K Jan 27 22:24 01226537
drwxr-xr-x 2 student student 4.0K Jan 20 20:11 Desktop
drwxr-xr-x 2 student student 4.0K Jan 20 20:11 Documents
drwxr-xr-x 2 student student 4.0K Jan 20 20:11 Downloads
drwxr-xr-x 2 student student 4.0K Jan 20 20:11 Music
drwxr-xr-x 2 student student 4.0K Jan 20 20:11 Pictures
drwxr-xr-x 2 student student 4.0K Jan 20 20:11 Public
drwxr-xr-x 2 student student 4.0K Jan 20 20:11 Templates
drwxr-xr-x 2 student student 4.0K Jan 20 20:11 Videos
drwxrwxr-x 2 student student 4.0K Jan 27 22:23 XXXX
```

## Step 5



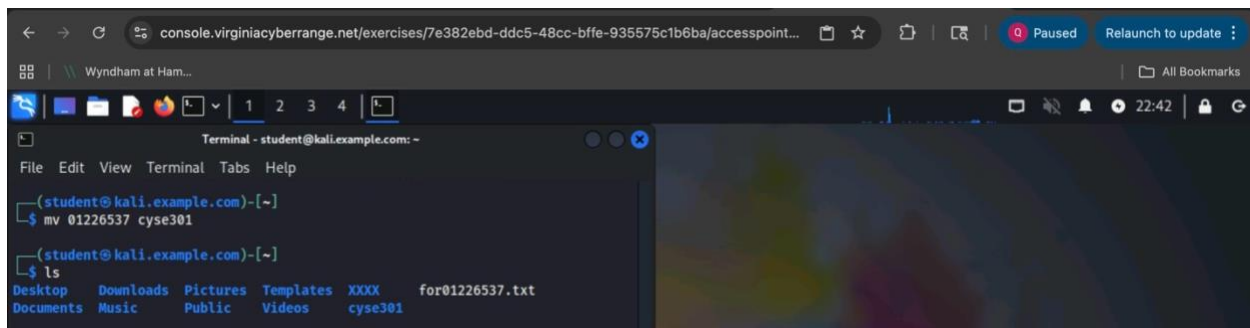
The screenshot shows the same web browser window as in Step 3 and 4. The terminal window titled "Terminal - student@kali.example.com: ~" is open, showing the following commands and output:

```
(student@kali.example.com)-[~]
$ touch for01226537.txt

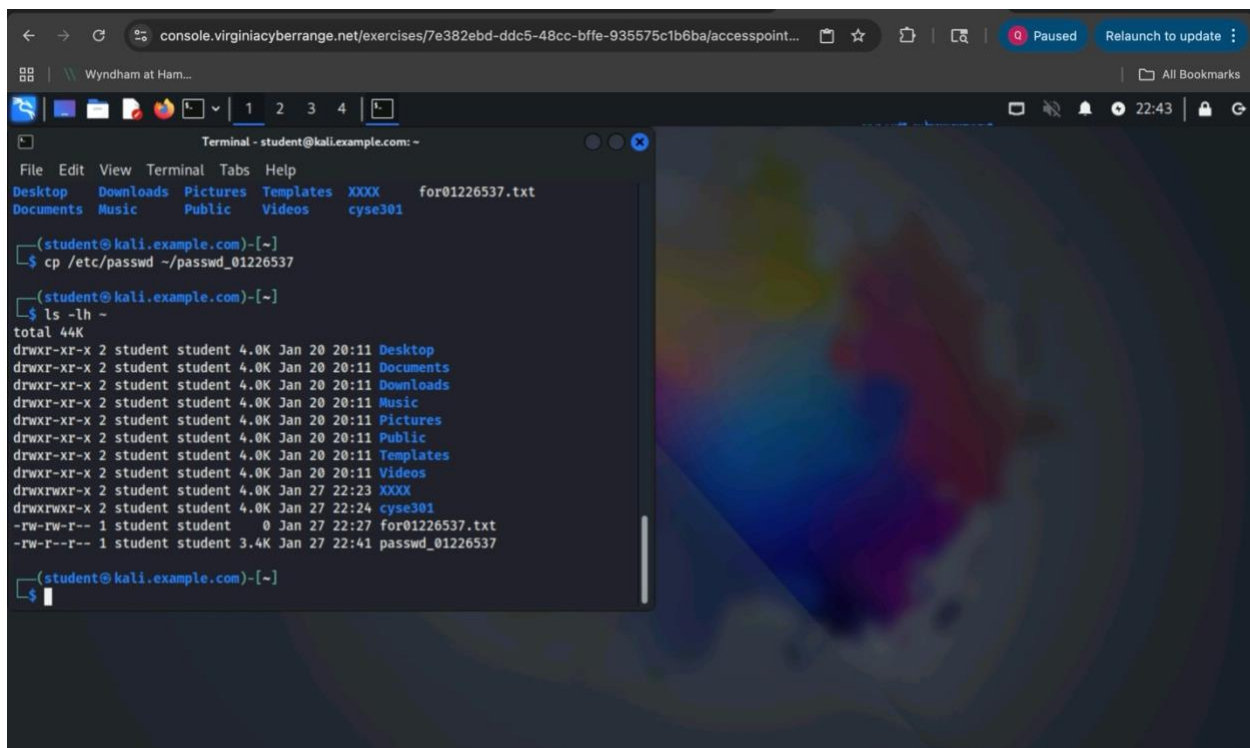
(student@kali.example.com)-[~]
$ ls -lh ~
total 40K
drwxrwxr-x 2 student student 4.0K Jan 27 22:24 01226537
drwxr-xr-x 2 student student 4.0K Jan 20 20:11 Desktop
drwxr-xr-x 2 student student 4.0K Jan 20 20:11 Documents
drwxr-xr-x 2 student student 4.0K Jan 20 20:11 Downloads
drwxr-xr-x 2 student student 4.0K Jan 20 20:11 Music
drwxr-xr-x 2 student student 4.0K Jan 20 20:11 Pictures
drwxr-xr-x 2 student student 4.0K Jan 20 20:11 Public
drwxr-xr-x 2 student student 4.0K Jan 20 20:11 Templates
drwxr-xr-x 2 student student 4.0K Jan 20 20:11 Videos
drwxrwxr-x 2 student student 4.0K Jan 27 22:23 XXXX
-rw-rw-r-- 1 student student 0 Jan 27 22:27 for01226537.txt

(student@kali.example.com)-[~]
$ #
```

## Step 6



Step 7



Step 8 and 9

The screenshot shows a web browser window with the address bar displaying a URL from console.virginiacyberbarrange.net. The browser's address bar also shows a 'Paused' status and a 'Relaunch to update' button. The terminal window, titled 'Terminal - student@kali.example.com: ~', displays the following content:

```
File Edit View Terminal Tabs Help
drwxr-xr-x 2 student student 4.0K Jan 20 20:11 Pictures
drwxr-xr-x 2 student student 4.0K Jan 20 20:11 Public
drwxr-xr-x 2 student student 4.0K Jan 20 20:11 Templates
drwxr-xr-x 2 student student 4.0K Jan 20 20:11 Videos
drwxrwxr-x 2 student student 4.0K Jan 27 22:23 XXXX
drwxrwxr-x 2 student student 4.0K Jan 27 22:24 cyse301
-rw-rw-r-- 1 student student 0 Jan 27 22:27 for01226537.txt
-rw-r--r-- 1 student student 3.4K Jan 27 22:41 passwd_01226537

(student@kali.example.com)-[~]
$ head -n 6 ~/passwd_01226537
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

(student@kali.example.com)-[~]
$ grep www ~/passwd_01226537
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin

(student@kali.example.com)-[~]
$
```

Step 10a and 10b

The screenshot shows a terminal window with the following content:

```
(student@kali.example.com)-[~]
$ head -n 6 ~/passwd_01226537
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

(student@kali.example.com)-[~]
$ grep www ~/passwd_01226537
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin

(student@kali.example.com)-[~]
$
```