

OLD DOMINION UNIVERSITY

CYSE 301 CYBERSECURITY TECHNIQUES AND OPERATIONS

Assignment #1 Basic Linux commands

Stevie Johnson

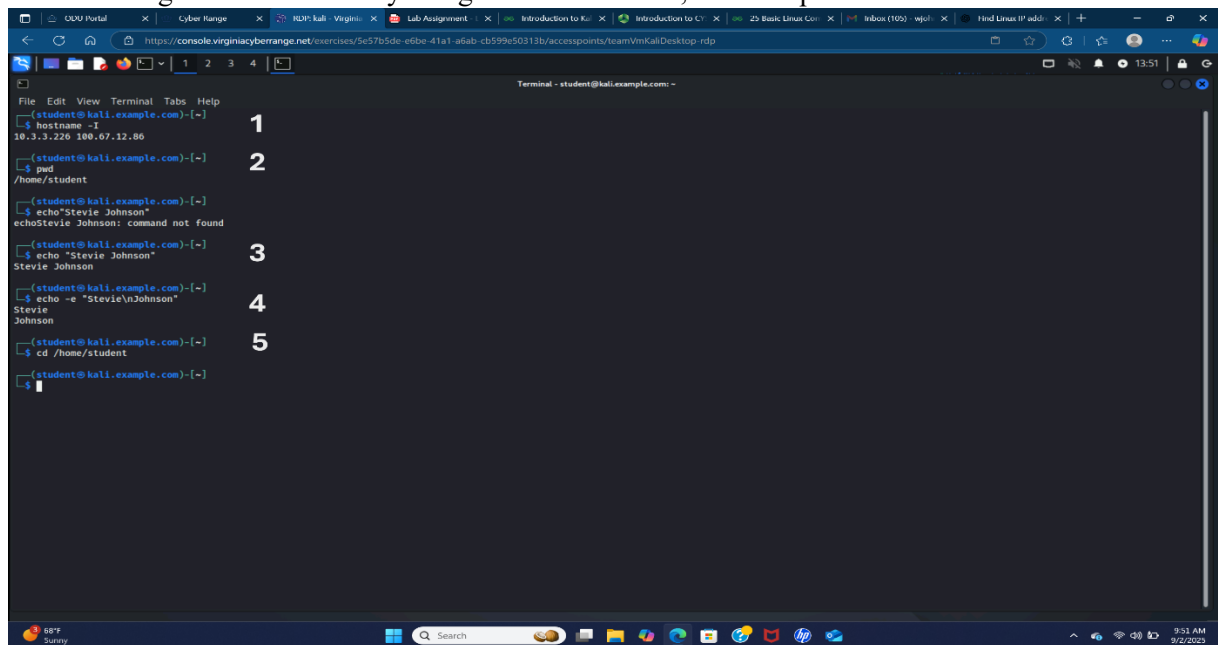
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TASK A: Practice with the Basic Linux Commands

1. How to find the IP address on Kali Linux? Redone as shown in video

```
(student@kali.example.com)-[~]
$ ip addr
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 02:41:6e:71:8d:31 brd ff:ff:ff:ff:ff:ff
   inet 10.3.3.226/20 brd 10.3.15.255 scope global dynamic eth0
       valid_lft 3563sec preferred_lft 3563sec
   inet6 fe80::41:6eff:fe71:8d31/64 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 02:65:0f:ad:5a:2b brd ff:ff:ff:ff:ff:ff
   inet 100.67.12.86/20 brd 100.67.15.255 scope global dynamic eth1
       valid_lft 3563sec preferred_lft 3563sec
   inet6 fe80::65:fff:fead:5a2b/64 scope link proto kernel_ll
       valid_lft forever preferred_lft forever
```

2. Display your current directory in a terminal.
3. Use the echo command to print your name to the console.
4. Display your first and last names in two separate lines using a single echo command
5. How to change to home directory using cd command and, absolute pathname.



```
(student@kali.example.com)-[~]
1 $ hostname -i
10.3.3.226 100.67.12.86

(student@kali.example.com)-[~]
2 $ pwd
/home/student

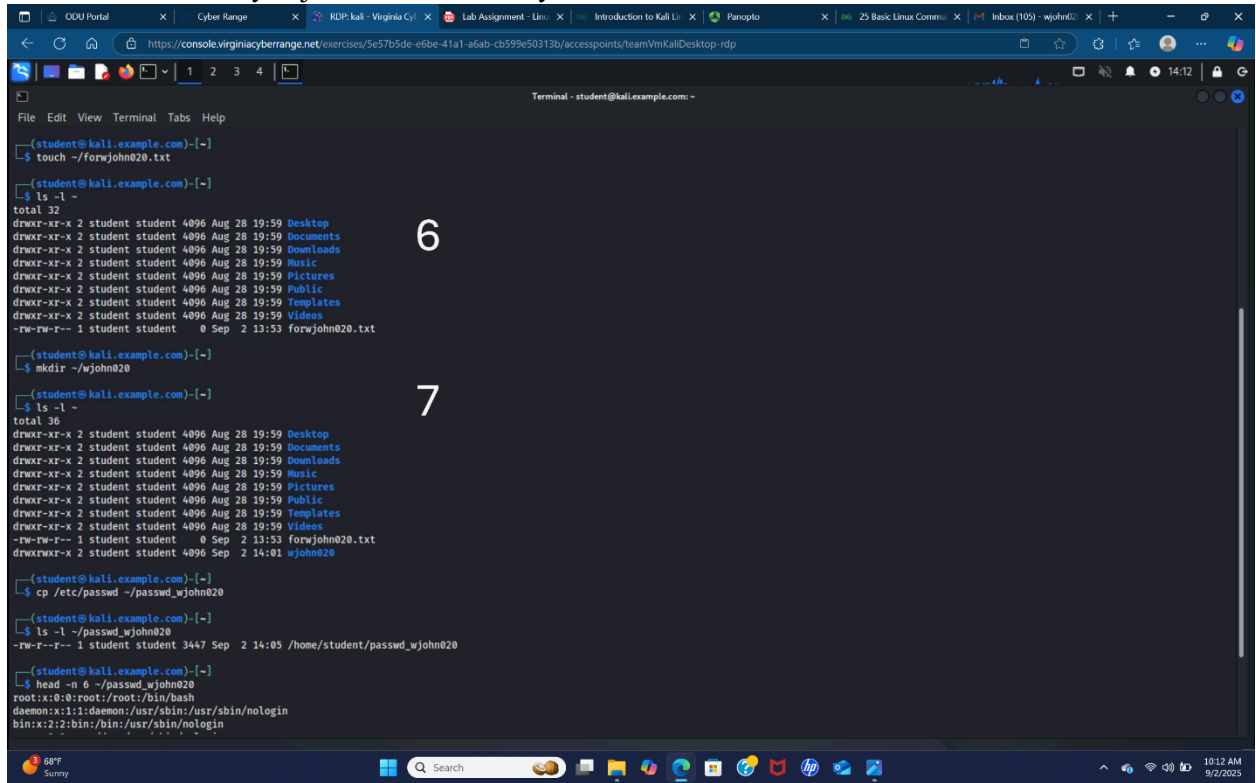
(student@kali.example.com)-[~]
3 $ echo "Stevie Johnson"
Stevie Johnson

(student@kali.example.com)-[~]
4 $ echo -e "Stevie\nJohnson"
Stevie
Johnson

(student@kali.example.com)-[~]
5 $ cd /home/student
$
```

6. Create a new file named "forXXXX.txt" in your home directory (replace "XXXX" with your own MIDAS). Then, use the long listing format to display the contents in your home directory. What is the size of the file you just created? 0 bytes

7. Create a new directory named “XXXX” in your home directory (replace “XXXX” with your own MIDAS). Then, use the long listing format to display the contents in your home directory. What is the size of the file you just created? 4096 bytes



```
Terminal - student@kali.example.com -  
File Edit View Terminal Tabs Help  
~  
(student@kali.example.com)-[~]  
$ touch ~/forwjohn020.txt  
(student@kali.example.com)-[~]  
$ ls -l -  
total 32  
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Desktop  
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Documents  
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Downloads  
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Music  
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Pictures  
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Public  
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Templates  
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Videos  
-rw-rw-r-- 1 student student 0 Sep 2 13:53 forwjohn020.txt  
(student@kali.example.com)-[~]  
$ mkdir ~/wjohn020  
(student@kali.example.com)-[~]  
$ ls -l -  
total 36  
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Desktop  
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Documents  
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Downloads  
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Music  
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Pictures  
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Public  
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Templates  
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Videos  
-rw-rw-r-- 1 student student 0 Sep 2 13:53 forwjohn020.txt  
drwxrwxr-x 2 student student 4096 Sep 2 14:01 wjohn020  
(student@kali.example.com)-[~]  
$ cp /etc/passwd ~/passwd_wjohn020  
(student@kali.example.com)-[~]  
$ ls -l ~/passwd_wjohn020  
-rw-r--r-- 1 student student 3447 Sep 2 14:05 /home/student/passwd_wjohn020  
(student@kali.example.com)-[~]  
$ head -n 6 ~/passwd_wjohn020  
root:x:0:0:root:/root:/bin/bash  
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/mologin  
bin:x:2:2:bin:/bin:/usr/sbin/mologin  
...
```

8. Copy /etc/passwd file to your home directory. The copy should be named as “passwd_XXXX” (replace “XXXX” with your own MIDAS) in your home directory. Then, complete the following two subtasks: Use the proper command to display the first six lines in this file. • Search keyword “www” in this file

```
ODU Portal | Cyber Range | RDP: kali - Virginia Cy | Lab Assignment: Linu... | Introduction to Kali Li... | Paroscapo | 25 Basic Linux Comm... | Inbox (105) - wjohn020 | + | - | 14:13 |
https://console.virginia cyberange.net/exercises/5e57b5de-e0be-41a1-afab-cb599e50313b/accesspoints/teamVmKaliDesktop.rdp
Terminal - student@kali.example.com ~
File Edit View Terminal Tabs Help
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Music
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Pictures
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Public
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Templates
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Videos
-rw-rw-r-- 1 student student 0 Sep 2 13:53 forwjohn020.txt

(student@kali.example.com) ~
$ mkdir ~/wjohn020

(student@kali.example.com) ~
$ ls -l ~
total 36
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Desktop
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Documents
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drwxr-xr-x 2 student student 4096 Aug 28 19:59 Public
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Templates
drwxr-xr-x 2 student student 4096 Aug 28 19:59 Videos
-rw-rw-r-- 1 student student 0 Sep 2 13:53 forwjohn020.txt
drwxr-xr-x 2 student student 4096 Sep 2 14:01 wjohn020

(student@kali.example.com) ~
$ cp /etc/passwd ~/passwd_wjohn020

(student@kali.example.com) ~
$ ls -l ~/passwd_wjohn020
-rw-r--r-- 1 student student 3447 Sep 2 14:05 /home/student/passwd_wjohn020

(student@kali.example.com) ~
$ head -n 6 ~/passwd_wjohn020
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_wjohn020
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin

(student@kali.example.com) ~
$
```