

OLD DOMINION UNIVERSITY

CYSE 301 CYBERSECURITY TECHNIQUES AND OPERATIONS

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Assignment #1

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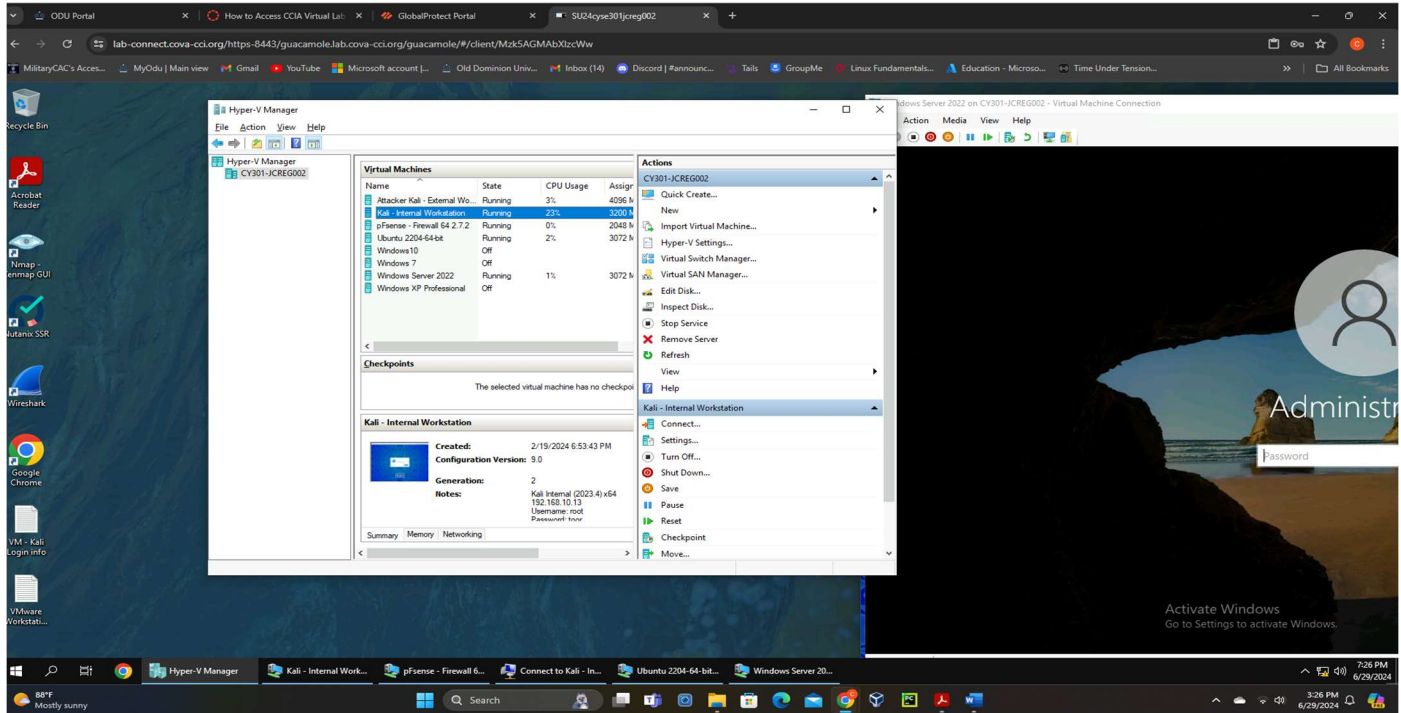
**Explore CCIA virtual environment and basic  
Linux commands**

John C. Creger

UIN 01154971

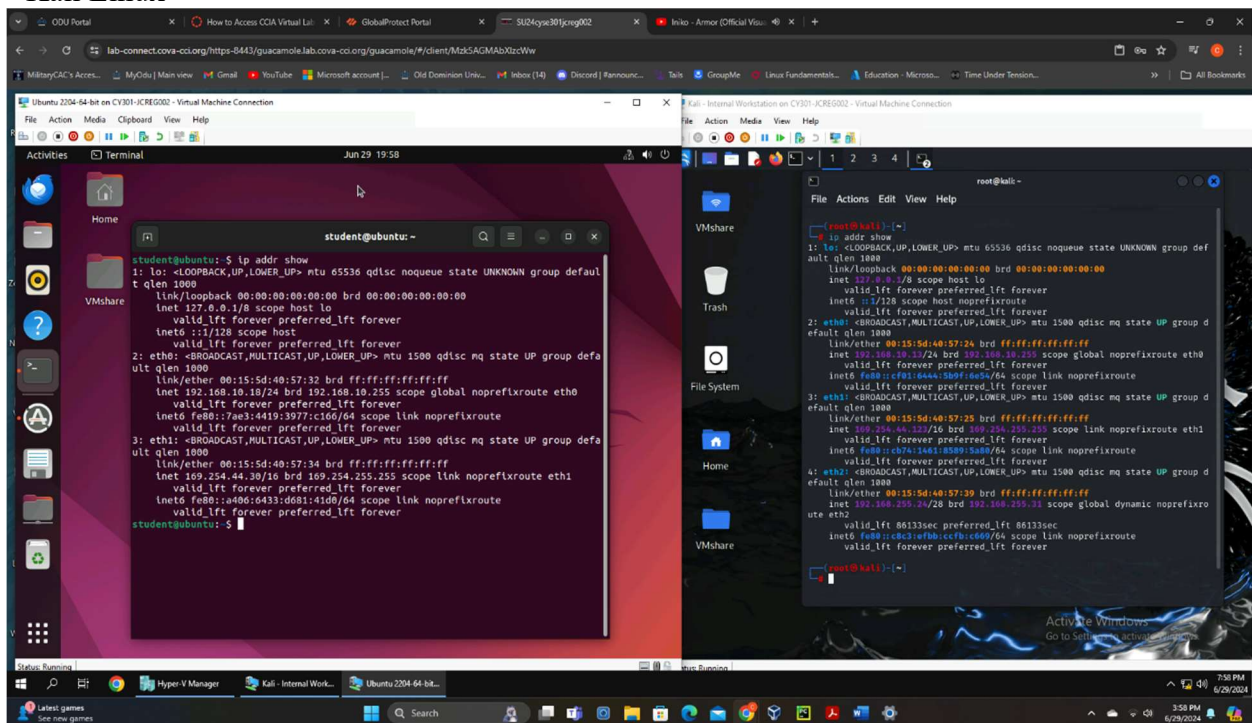
## Task A. Get ready with VMs (30 points)

1. Power on the following VMs: • pfSense – Firewall
  - Kali – External Workstation
  - Windows Server 2008
  - Ubuntu 64-bit



2. Find the IP address of the following VMs by using command: `ip addr show`

- Ubuntu 64-bit
- Kali Linux



3. Verify the connection between Kali Linux VM and Ubuntu VM using the ping command.

Hopefully my machines will be reset soon. Apologize for the mistake.

Tip: you can take one screenshot when both VMs are talking.

### Task B: Practice with Linux Commands (Complete the following tasks in the Ubuntu VM)

Tip: You can take one screenshot to cover the answer for multiple tasks.

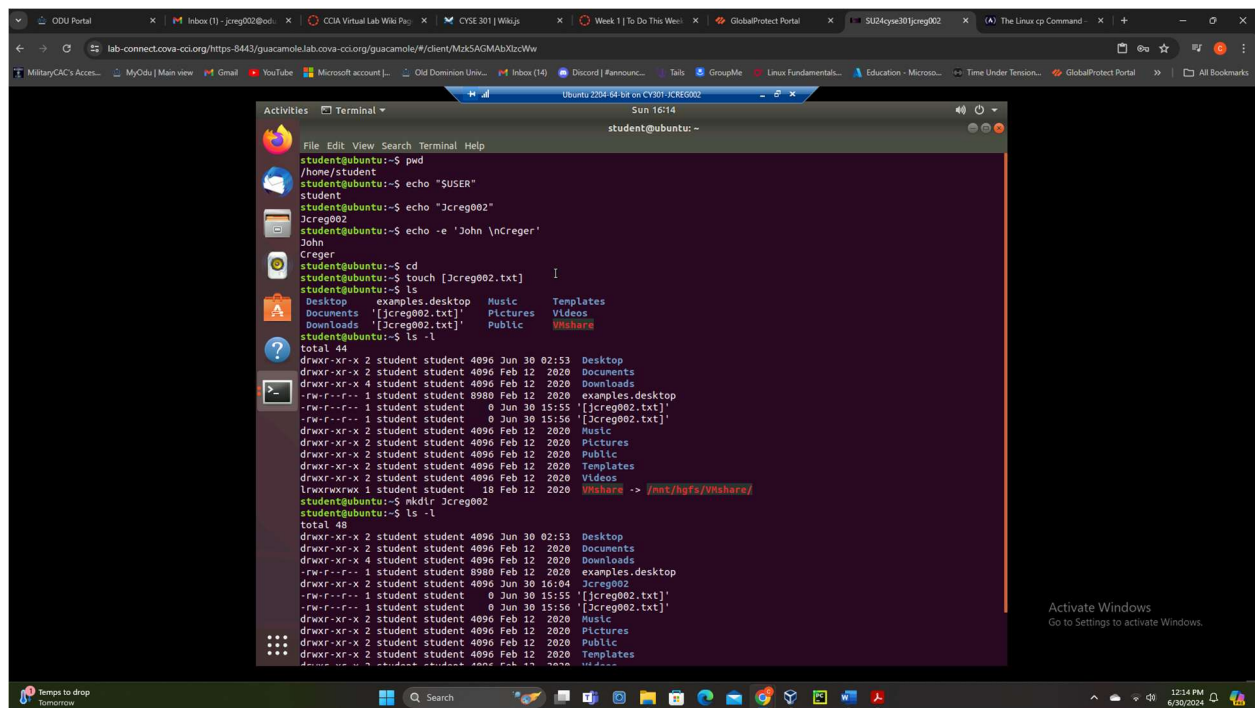
1. Display your current directory in a terminal.

2. Use the echo command to print your name to the console.

3. Display your **first and last names in two separate lines** using a single echo command (tip: how to enable the interpretation of escape characters?)

4. Execute the command to return to your **home** directory.

5. 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**



```
student@ubuntu:~$ pwd
/home/student
student@ubuntu:~$ echo "$USER"
student
student@ubuntu:~$ echo "Jcreg002"
Jcreg002
student@ubuntu:~$ echo -e 'John \ncreger'
John
creger
student@ubuntu:~$ cd
student@ubuntu:~$ touch [Jcreg002.txt]
student@ubuntu:~$ ls
Desktop  examples.desktop  Music  Templates
Documents '[Jcreg002.txt]'  Pictures  Videos
Downloads '[Jcreg002.txt]'  Public  VMware
student@ubuntu:~$ ls -l
total 48
drwxr-xr-x 2 student student 4096 Jun 30 02:53 Desktop
drwxr-xr-x 4 student student 4096 Feb 12 2020 Documents
drwxr-xr-x 1 student student 8192 Feb 12 2020 Downloads
-rw-r--r-- 1 student student 0 Jun 30 15:55 examples.desktop
-rw-r--r-- 1 student student 0 Jun 30 15:55 '[Jcreg002.txt]'
drwxr-xr-x 2 student student 4096 Feb 12 2020 Music
drwxr-xr-x 2 student student 4096 Feb 12 2020 Pictures
drwxr-xr-x 2 student student 4096 Feb 12 2020 Public
drwxr-xr-x 2 student student 4096 Feb 12 2020 Templates
drwxr-xr-x 2 student student 4096 Feb 12 2020 Videos
lrwxrwxrwx 1 student student 18 Feb 12 2020 VMware -> /mnt/hgfs/VMshare/
student@ubuntu:~$ mklr Jcreg002
student@ubuntu:~$ ls -l
total 48
drwxr-xr-x 2 student student 4096 Jun 30 02:53 Desktop
drwxr-xr-x 4 student student 4096 Feb 12 2020 Documents
drwxr-xr-x 1 student student 8192 Feb 12 2020 Downloads
-rw-r--r-- 1 student student 0 Jun 30 15:55 examples.desktop
drwxr-xr-x 2 student student 4096 Jun 30 16:04 Jcreg002
-rw-r--r-- 1 student student 0 Jun 30 15:55 '[Jcreg002.txt]'
-rw-r--r-- 1 student student 0 Jun 30 15:56 '[Jcreg002.txt]'
drwxr-xr-x 2 student student 4096 Feb 12 2020 Music
drwxr-xr-x 2 student student 4096 Feb 12 2020 Pictures
drwxr-xr-x 2 student student 4096 Feb 12 2020 Public
drwxr-xr-x 2 student student 4096 Feb 12 2020 Templates
drwxr-xr-x 2 student student 4096 Feb 12 2020 Videos
```

6. 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**

7. Copy **/etc/passwd** file to your home directory and rename the file to “passwd\_XXXX” (replace “XXXX” with your own MIDAS). 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.

