

OLD DOMINION UNIVERSITY

CYSE 301 CYBERSECURITY TECHNIQUES AND OPERATIONS

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## Assignment #1 Using Command Line Interface

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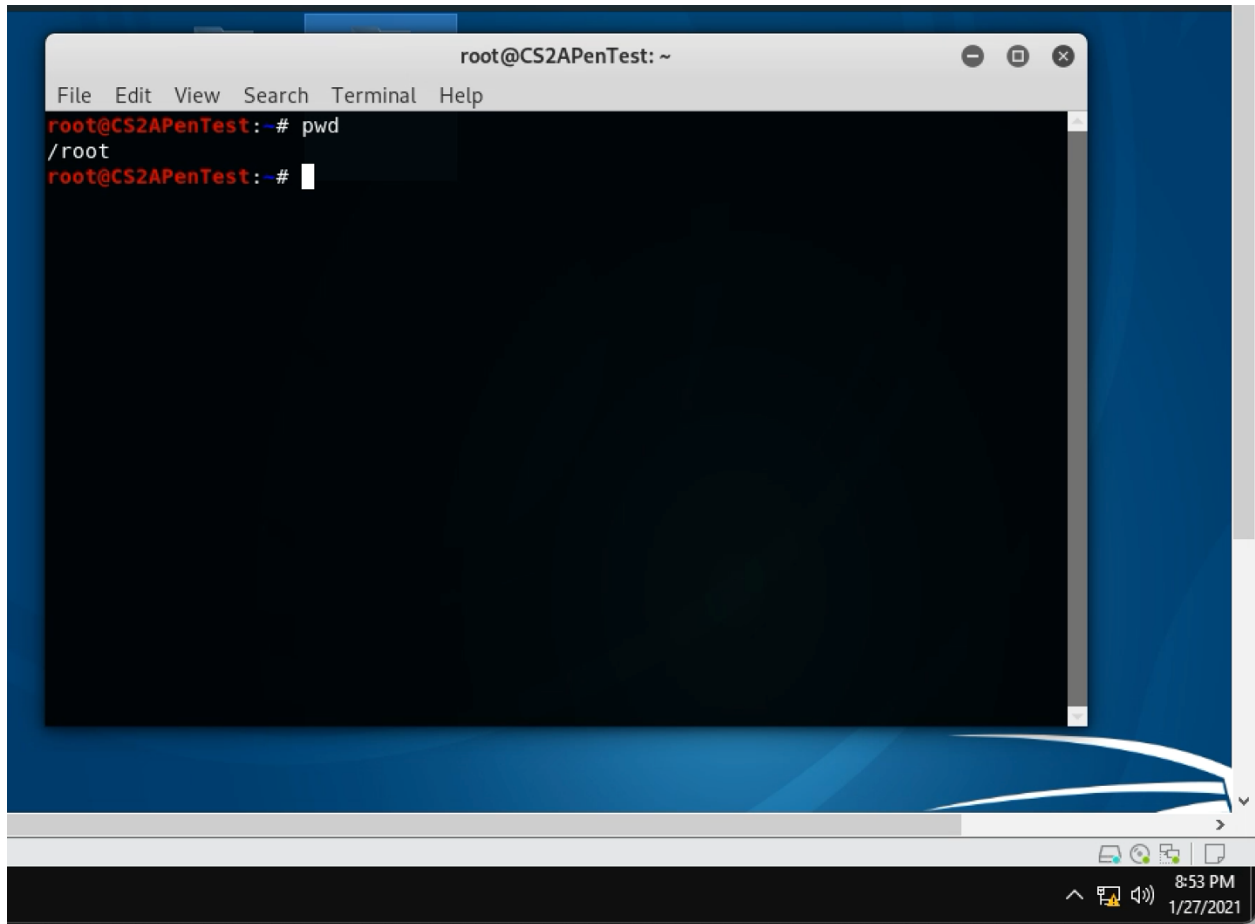
Joy Diggs

00491693

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## STEP 1

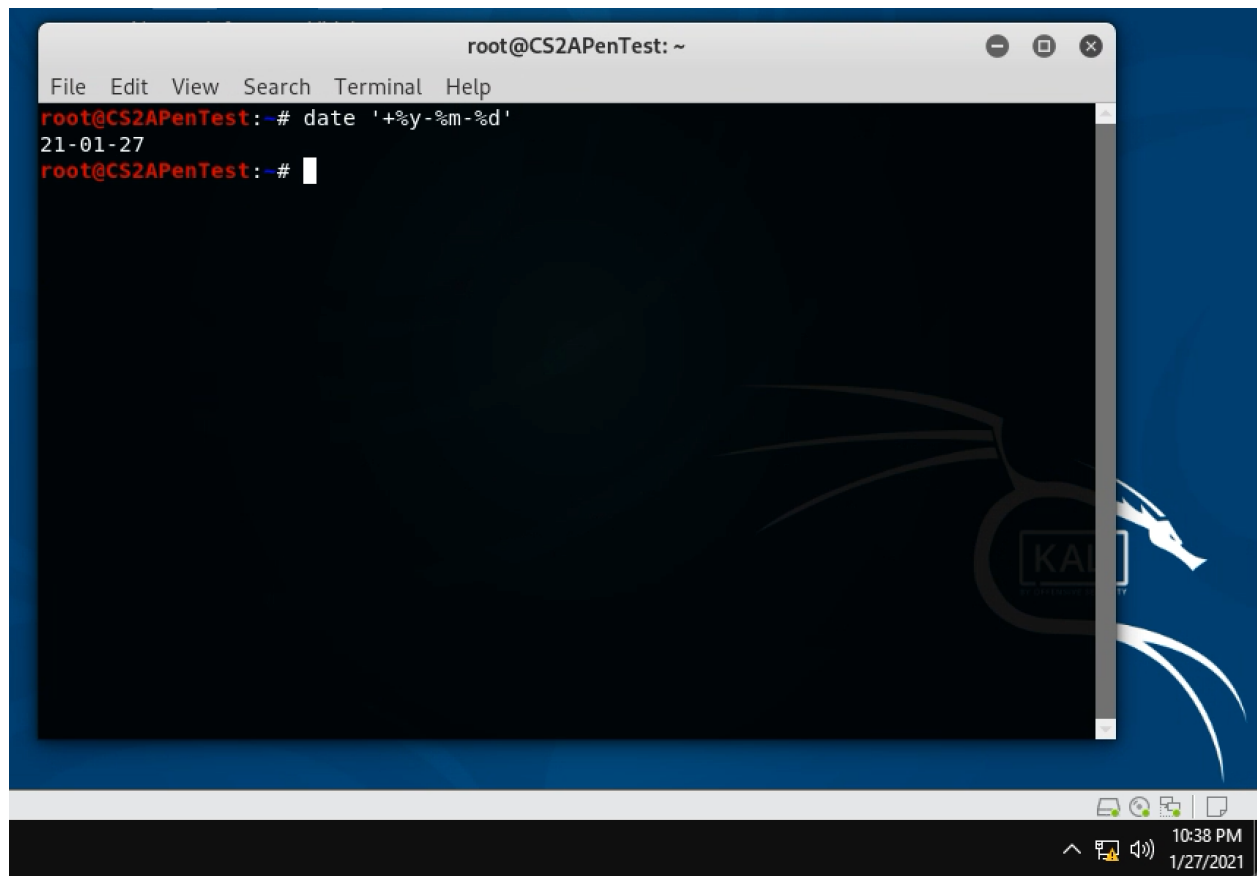
1. Display your current directory.



Above is the command to show the current working directory.

## STEP 2

2. Display the current time in the YY-MM-DD format.

A screenshot of a Kali Linux desktop environment. A terminal window is open, displaying the command `date '+%y-%m-%d'` and its output `21-01-27`. The terminal window has a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The desktop background is dark blue with a white dragon logo and the text 'KALI LINUX' partially visible. The system tray at the bottom right shows the time as 10:38 PM on 1/27/2021.

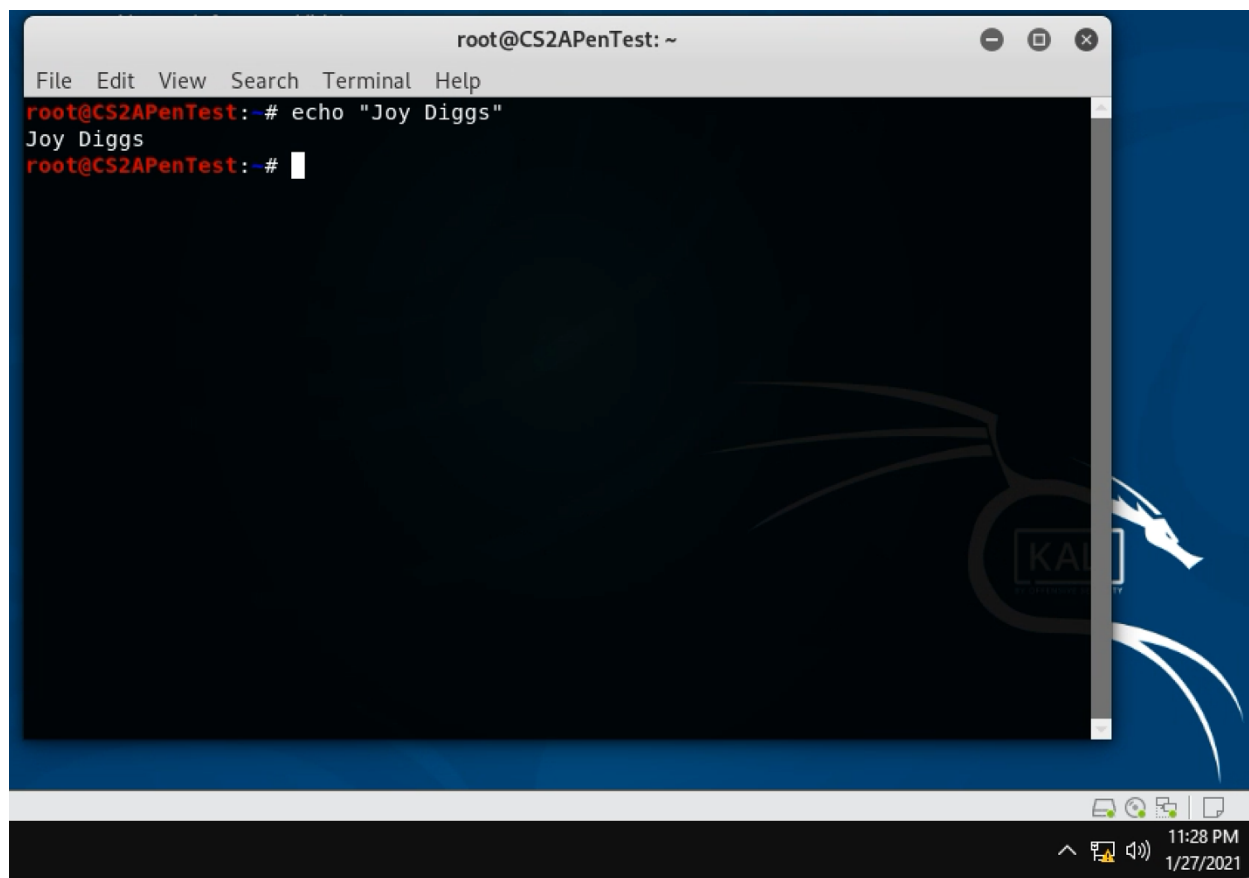
```
root@CS2APenTest: ~  
File Edit View Search Terminal Help  
root@CS2APenTest:~# date '+%y-%m-%d'  
21-01-27  
root@CS2APenTest:~#
```

Above is the command to show the date in the given format YY-MM-DD.

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## STEP 3

3. Print your name to the console.



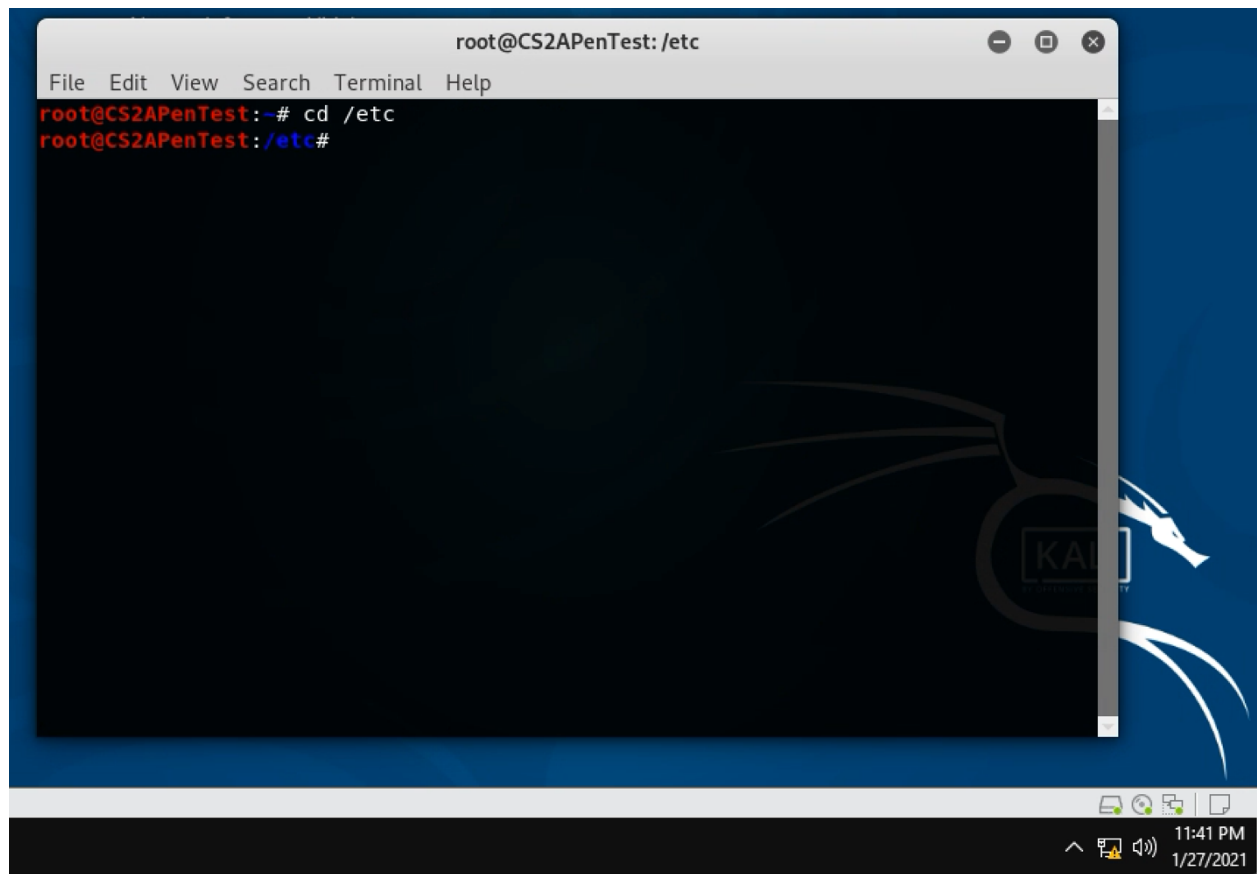
```
root@CS2APenTest: ~  
File Edit View Search Terminal Help  
root@CS2APenTest:~# echo "Joy Diggs"  
Joy Diggs  
root@CS2APenTest:~#
```

Above is the command to print my name to the console.

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## STEP 4

4. Using an absolute pathname, switch to the /etc directory.

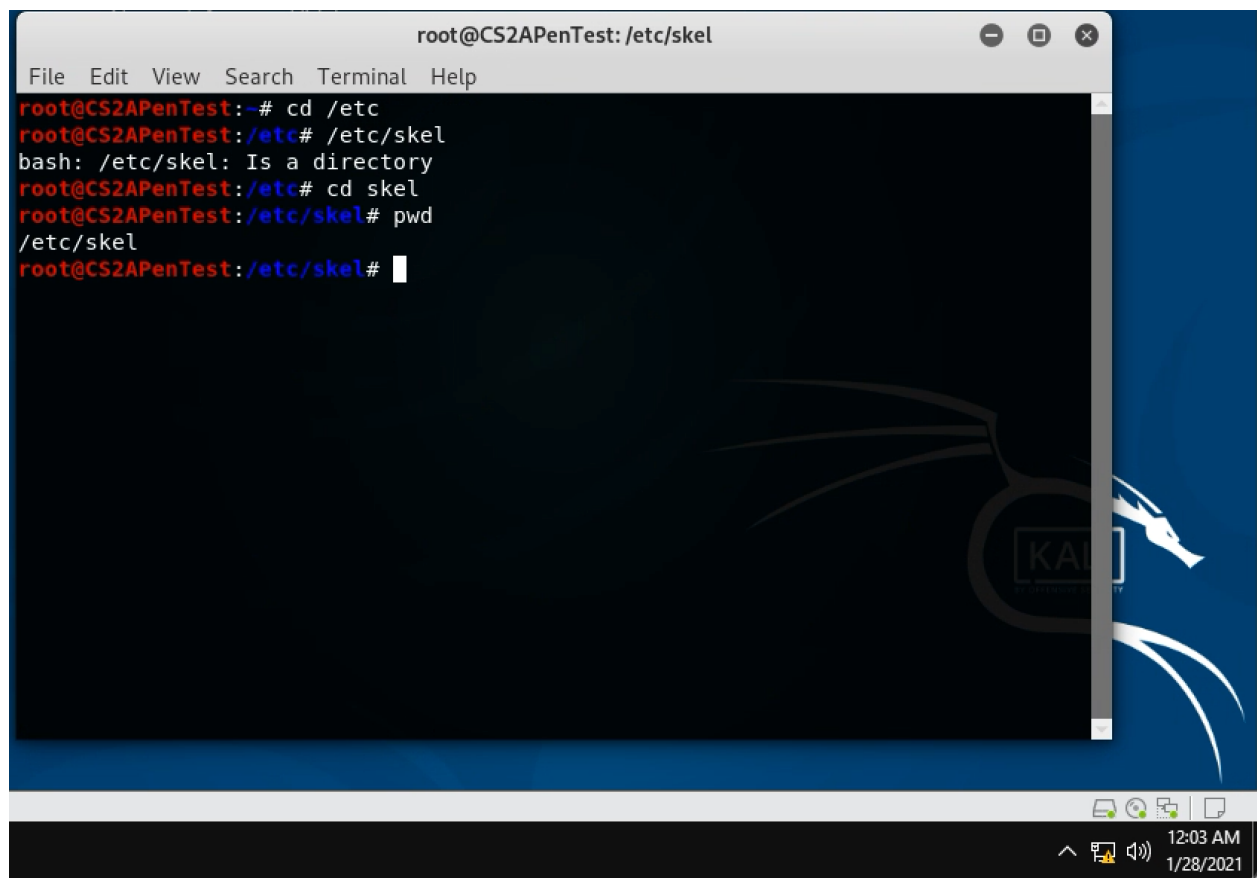


Above is the command to show the absolute path to the /etc directory.

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## STEP 5

5. Using a relative pathname, move to the /etc/skel directory.

A screenshot of a Kali Linux desktop environment. A terminal window is open, titled 'root@CS2APenTest: /etc/skel'. The terminal shows a series of commands and their outputs: 'cd /etc' changes the directory to /etc; 'cd /etc/skel' changes the directory to /etc/skel; 'cd skel' changes the directory to /etc/skel/skel; and 'pwd' displays the current directory as /etc/skel. The terminal has a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The desktop background is dark blue with a white dragon logo and the text 'KALI LINUX'. The system tray at the bottom right shows the time as 12:03 AM on 1/28/2021.

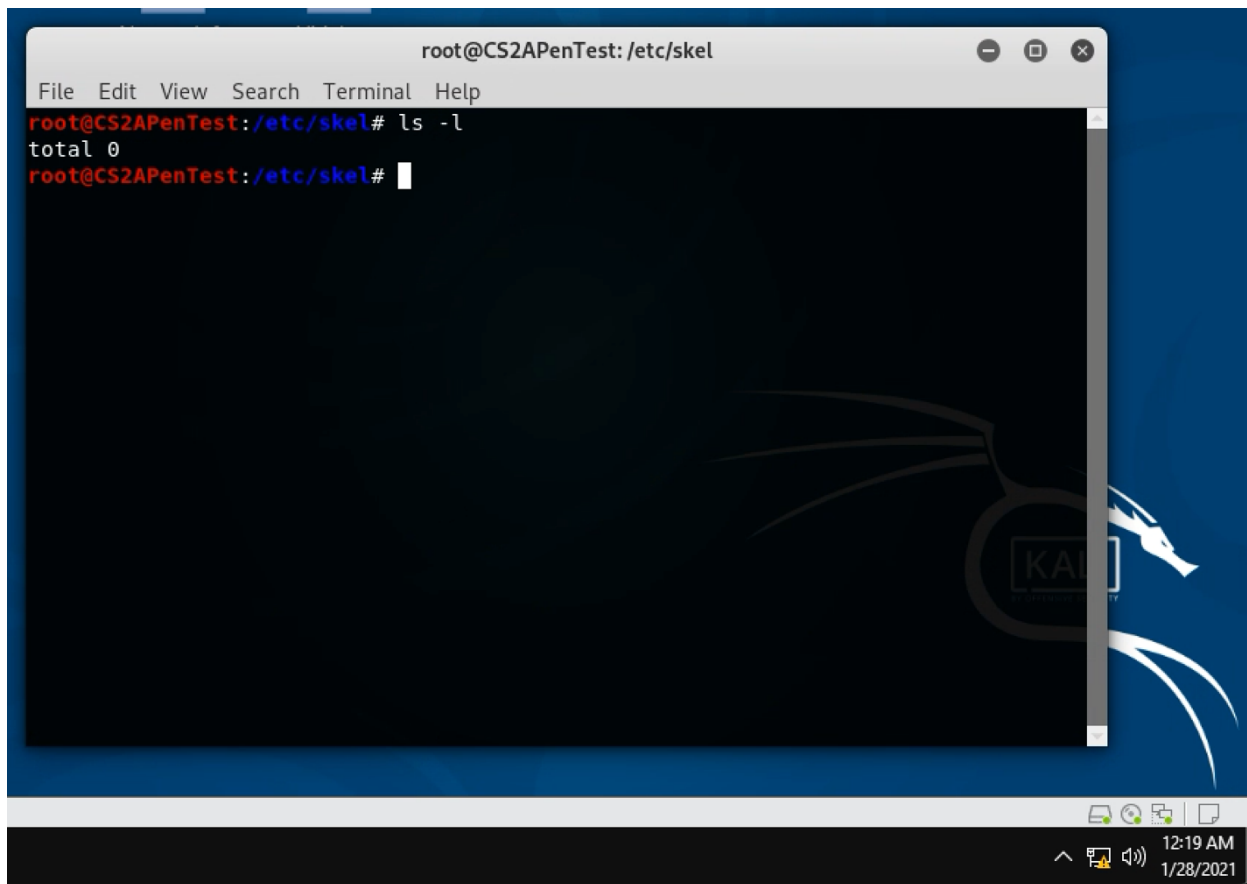
```
root@CS2APenTest: /etc/skel
File Edit View Search Terminal Help
root@CS2APenTest:~# cd /etc
root@CS2APenTest:/etc# /etc/skel
bash: /etc/skel: Is a directory
root@CS2APenTest:/etc# cd skel
root@CS2APenTest:/etc/skel# pwd
/etc/skel
root@CS2APenTest:/etc/skel#
```

Above is the command to show the relative path to /etc/skel.

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## STEP 6

6. Perform a “long display” listing of the files in the current directory.

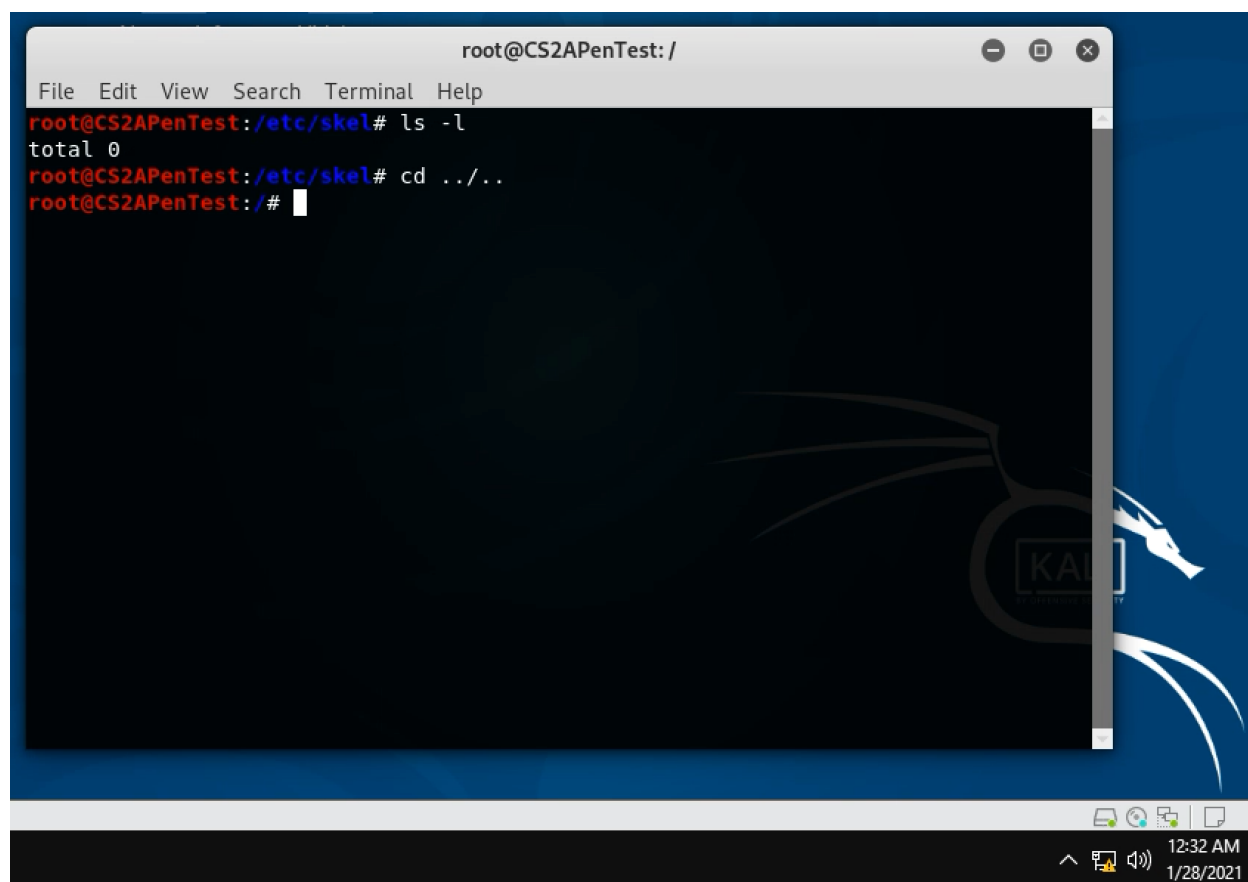
A screenshot of a Kali Linux desktop environment. A terminal window is open, titled 'root@CS2APenTest: /etc/skel'. The terminal shows the command 'ls -l' being executed, resulting in the output 'total 0'. The terminal window has a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The desktop background is dark blue with a white dragon logo and the text 'KALI LINUX' visible. The system tray at the bottom right shows the time '12:19 AM' and the date '1/28/2021'.

Above is the command to show the long listing of a directory.

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## STEP 7

7. Execute the command to return to your home directory.



```
root@CS2APenTest: /  
File Edit View Search Terminal Help  
root@CS2APenTest:/etc/skel# ls -l  
total 0  
root@CS2APenTest:/etc/skel# cd ../../  
root@CS2APenTest:/#
```

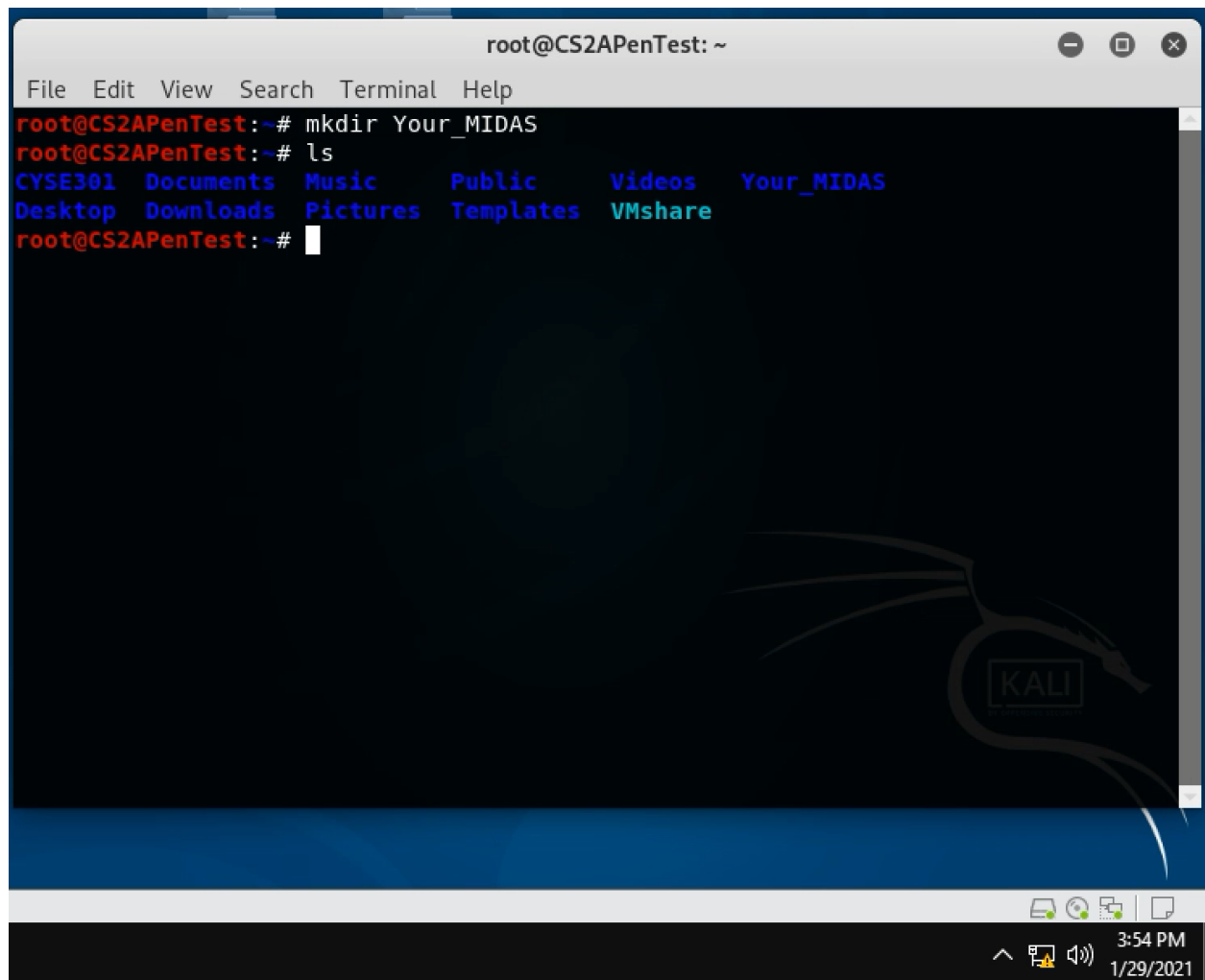
Above is the command to execute returning to my home directory.

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## STEP 8

8. Make a directory name “Your\_MIDAS” in the current directory.





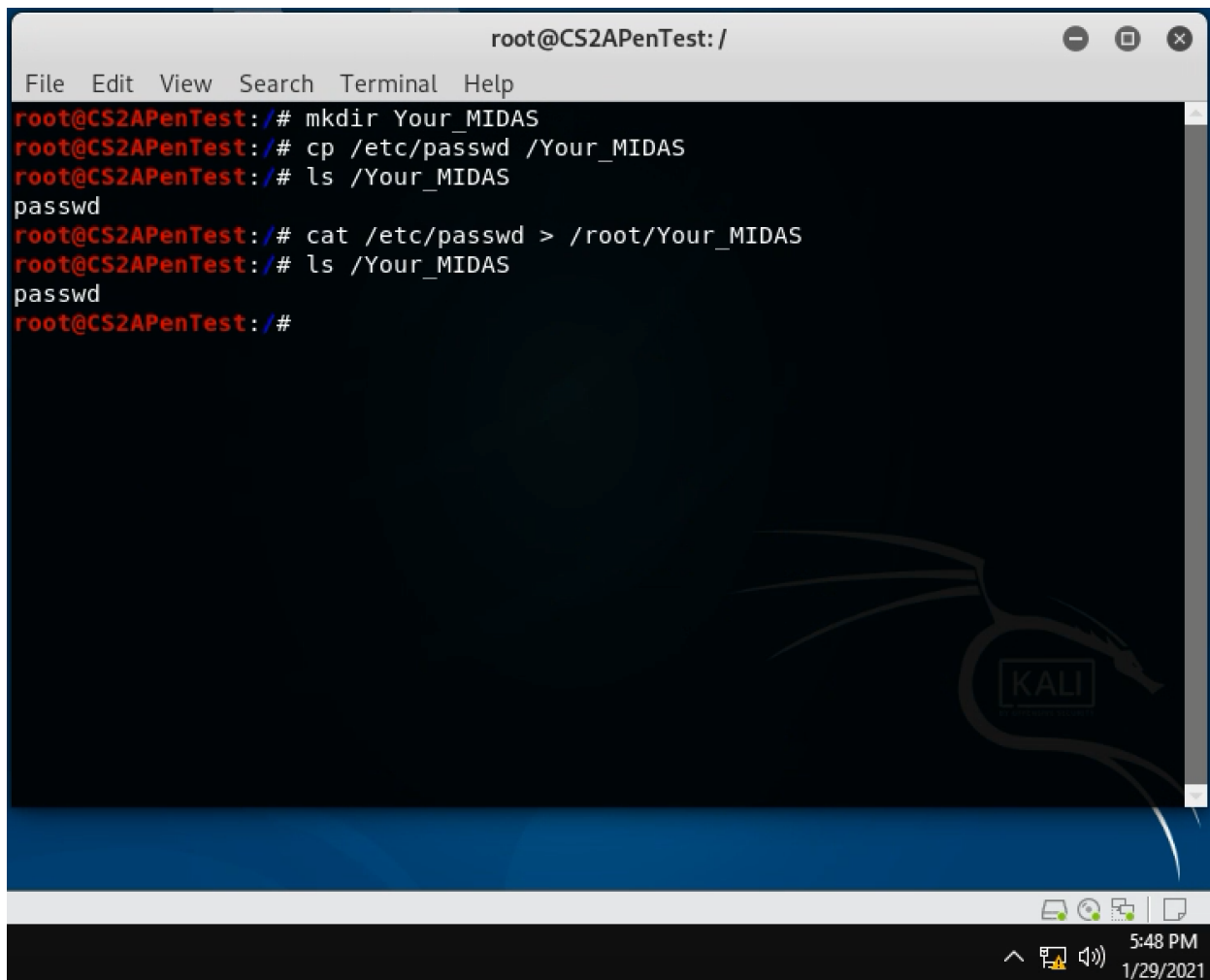
```
root@CS2APenTest: ~  
File Edit View Search Terminal Help  
root@CS2APenTest:~# mkdir Your_MIDAS  
root@CS2APenTest:~# ls  
CYSE301 Documents Music Public Videos Your_MIDAS  
Desktop Downloads Pictures Templates VMshare  
root@CS2APenTest:~#
```

Above is the command to show how to make a directory in the current directory.

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## STEP 9

9. Use two different approaches to copy the **/etc/passwd** file into the directory created in the previous step.

A screenshot of a Kali Linux terminal window. The window title is "root@CS2APenTest: /". The menu bar includes "File", "Edit", "View", "Search", "Terminal", and "Help". The terminal shows the following commands and output:

```
root@CS2APenTest: /# mkdir Your_MIDAS
root@CS2APenTest: /# cp /etc/passwd /Your_MIDAS
root@CS2APenTest: /# ls /Your_MIDAS
passwd
root@CS2APenTest: /# cat /etc/passwd > /root/Your_MIDAS
root@CS2APenTest: /# ls /Your_MIDAS
passwd
root@CS2APenTest: /#
```

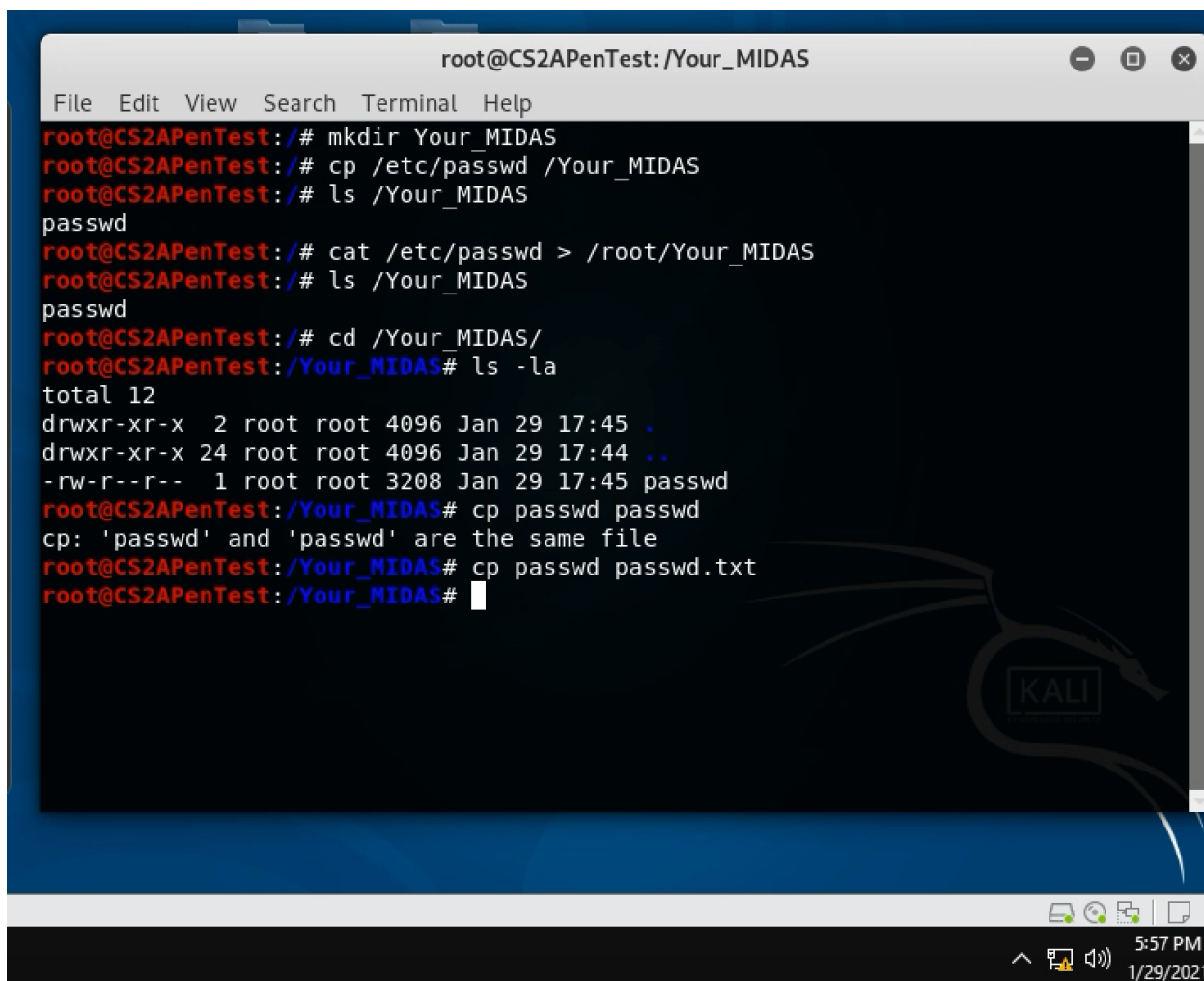
The terminal background features a faint Kali Linux dragon logo. The system tray at the bottom right shows icons for network, volume, and a clock displaying "5:48 PM 1/29/2021".

Above are the commands that show two ways to copy a file to a specific directory.

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## STEP 10

10. Create a backup for the passwd file in the directory you created in Step 8.



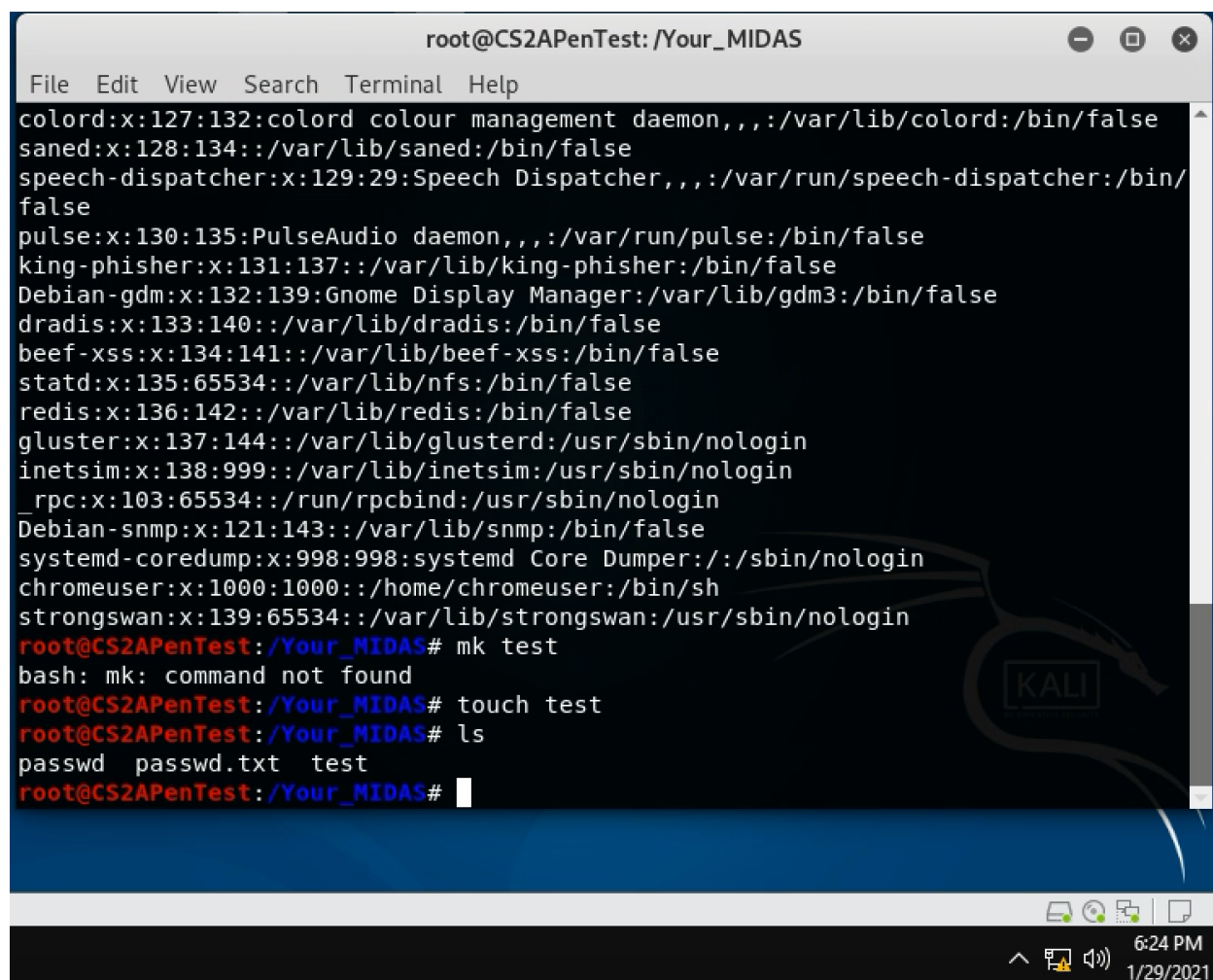
```
root@CS2APenTest: /Your_MIDAS
File Edit View Search Terminal Help
root@CS2APenTest: /# mkdir Your_MIDAS
root@CS2APenTest: /# cp /etc/passwd /Your_MIDAS
root@CS2APenTest: /# ls /Your_MIDAS
passwd
root@CS2APenTest: /# cat /etc/passwd > /root/Your_MIDAS
root@CS2APenTest: /# ls /Your_MIDAS
passwd
root@CS2APenTest: /# cd /Your_MIDAS/
root@CS2APenTest: /Your_MIDAS# ls -la
total 12
drwxr-xr-x  2 root root 4096 Jan 29 17:45 .
drwxr-xr-x 24 root root 4096 Jan 29 17:44 ..
-rw-r--r--  1 root root 3208 Jan 29 17:45 passwd
root@CS2APenTest: /Your_MIDAS# cp passwd passwd
cp: 'passwd' and 'passwd' are the same file
root@CS2APenTest: /Your_MIDAS# cp passwd passwd.txt
root@CS2APenTest: /Your_MIDAS#
```

Above is the command to show how to create a backup of the passwd file in the Your\_MIDAS directory.

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## STEP 11

11. Create a new empty file named test in the directory you created in Step 8.

A screenshot of a Kali Linux terminal window. The title bar reads 'root@CS2APenTest: /Your\_MIDAS'. The menu bar includes 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The terminal content shows a list of system users and their configurations, followed by a series of commands: 'mk test', 'touch test', and 'ls'. The output of 'ls' shows 'passwd', 'passwd.txt', and 'test'. The prompt is 'root@CS2APenTest: /Your\_MIDAS#'. A watermark with the word 'KALI' is visible in the background. The bottom status bar shows system icons and the date/time '6:24 PM 1/29/2021'.

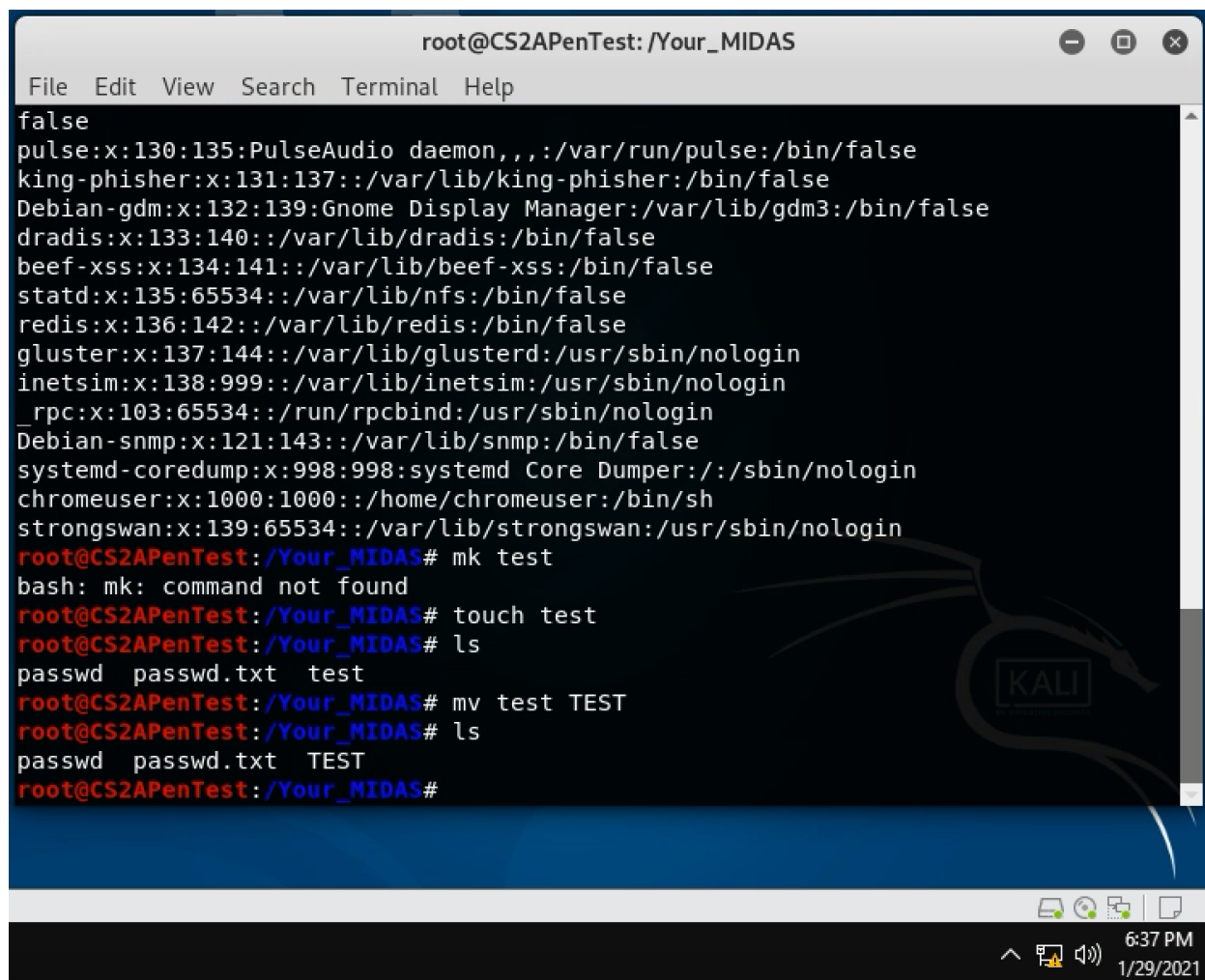
```
root@CS2APenTest: /Your_MIDAS
File Edit View Search Terminal Help
colord:x:127:132:colord colour management daemon,,,:/var/lib/colord:/bin/false
saned:x:128:134:./var/lib/saned:/bin/false
speech-dispatcher:x:129:29:Speech Dispatcher,,,:/var/run/speech-dispatcher:/bin/false
pulse:x:130:135:PulseAudio daemon,,,:/var/run/pulse:/bin/false
king-phisher:x:131:137:./var/lib/king-phisher:/bin/false
Debian-gdm:x:132:139:Gnome Display Manager:/var/lib/gdm3:/bin/false
dradis:x:133:140:./var/lib/dradis:/bin/false
beef-xss:x:134:141:./var/lib/beef-xss:/bin/false
statd:x:135:65534:./var/lib/nfs:/bin/false
redis:x:136:142:./var/lib/redis:/bin/false
gluster:x:137:144:./var/lib/glusterd:/usr/sbin/nologin
inetsim:x:138:999:./var/lib/inetsim:/usr/sbin/nologin
_rpc:x:103:65534:./run/rpcbind:/usr/sbin/nologin
Debian-snmp:x:121:143:./var/lib/snmp:/bin/false
systemd-coredump:x:998:998:systemd Core Dumper:./sbin/nologin
chromeuser:x:1000:1000:./home/chromeuser:/bin/sh
strongswan:x:139:65534:./var/lib/strongswan:/usr/sbin/nologin
root@CS2APenTest: /Your_MIDAS# mk test
bash: mk: command not found
root@CS2APenTest: /Your_MIDAS# touch test
root@CS2APenTest: /Your_MIDAS# ls
passwd  passwd.txt  test
root@CS2APenTest: /Your_MIDAS#
```

Above is the command to show how to create a new empty file named test in the directory.

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## STEP 12

12. Rename the test file you created in Step 11 to TEST.

A screenshot of a Kali Linux terminal window. The window title is 'root@CS2APenTest: /Your\_MIDAS'. The terminal shows the output of the 'systemctl status' command for various services, all of which are 'false'. Then, the user runs 'mk test', which fails with 'bash: mk: command not found'. Next, the user runs 'touch test', 'ls', 'passwd passwd.txt test', 'mv test TEST', 'ls', and 'passwd passwd.txt TEST'. The terminal ends with the prompt 'root@CS2APenTest: /Your\_MIDAS#'. A faint Kali Linux logo is visible in the background of the terminal window. The system tray at the bottom shows the time as 6:37 PM on 1/29/2021.

```
root@CS2APenTest: /Your_MIDAS
File Edit View Search Terminal Help
false
pulse:x:130:135:PulseAudio daemon,,,:/var/run/pulse:/bin/false
king-phisher:x:131:137:/:var/lib/king-phisher:/bin/false
Debian-gdm:x:132:139:Gnome Display Manager:/var/lib/gdm3:/bin/false
dradis:x:133:140:/:var/lib/dradis:/bin/false
beef-xss:x:134:141:/:var/lib/beef-xss:/bin/false
statd:x:135:65534:/:var/lib/nfs:/bin/false
redis:x:136:142:/:var/lib/redis:/bin/false
gluster:x:137:144:/:var/lib/glusterd:/usr/sbin/nologin
inetsim:x:138:999:/:var/lib/inetsim:/usr/sbin/nologin
_rpc:x:103:65534:/:run/rpcbind:/usr/sbin/nologin
Debian-snmp:x:121:143:/:var/lib/snmp:/bin/false
systemd-coredump:x:998:998:systemd Core Dumper:/:/sbin/nologin
chromeuser:x:1000:1000:/:home/chromeuser:/bin/sh
strongswan:x:139:65534:/:var/lib/strongswan:/usr/sbin/nologin
root@CS2APenTest: /Your_MIDAS# mk test
bash: mk: command not found
root@CS2APenTest: /Your_MIDAS# touch test
root@CS2APenTest: /Your_MIDAS# ls
passwd passwd.txt test
root@CS2APenTest: /Your_MIDAS# mv test TEST
root@CS2APenTest: /Your_MIDAS# ls
passwd passwd.txt TEST
root@CS2APenTest: /Your_MIDAS#
```

Above is the command to show how to rename a file name.

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## STEP 13

13. Delete the TEST file.

```
root@CS2APenTest: /Your_MIDAS
File Edit View Search Terminal Help
Debian-gdm:x:132:139:Gnome Display Manager:/var/lib/gdm3:/bin/false
dradis:x:133:140::/var/lib/dradis:/bin/false
beef-xss:x:134:141::/var/lib/beef-xss:/bin/false
statd:x:135:65534::/var/lib/nfs:/bin/false
redis:x:136:142::/var/lib/redis:/bin/false
gluster:x:137:144::/var/lib/glusterd:/usr/sbin/nologin
inetsim:x:138:999::/var/lib/inetsim:/usr/sbin/nologin
_rpc:x:103:65534::/run/rpcbind:/usr/sbin/nologin
Debian-snmp:x:121:143::/var/lib/snmp:/bin/false
systemd-coredump:x:998:998:systemd Core Dumper:/:/sbin/nologin
chromeuser:x:1000:1000::/home/chromeuser:/bin/sh
strongswan:x:139:65534::/var/lib/strongswan:/usr/sbin/nologin
root@CS2APenTest:/Your_MIDAS# mk test
bash: mk: command not found
root@CS2APenTest:/Your_MIDAS# touch test
root@CS2APenTest:/Your_MIDAS# ls
passwd  passwd.txt  test
root@CS2APenTest:/Your_MIDAS# mv test TEST
root@CS2APenTest:/Your_MIDAS# ls
passwd  passwd.txt  TEST
root@CS2APenTest:/Your_MIDAS# rm TEST
root@CS2APenTest:/Your_MIDAS# ls
passwd  passwd.txt
root@CS2APenTest:/Your_MIDAS#
```

Above is the command to show how to delete a file.

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