

Lab Report 3 -Linux Essentials

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Questions and Discussion

Question 1:

Make a script that prints out this message, replacing "YOURNAME" with your own

Nam - > Hello from YOURNAME!

--

Answer:

- 1) First create a new file to write the script in (I will use the same directory I'm in, which is /home/kali/proj0 where we made the count script) using "nano hello"



```
kali@kali: ~/proj0
File Actions Edit View Help
(kali@kali)-[~/proj0]
$ nano hello
```

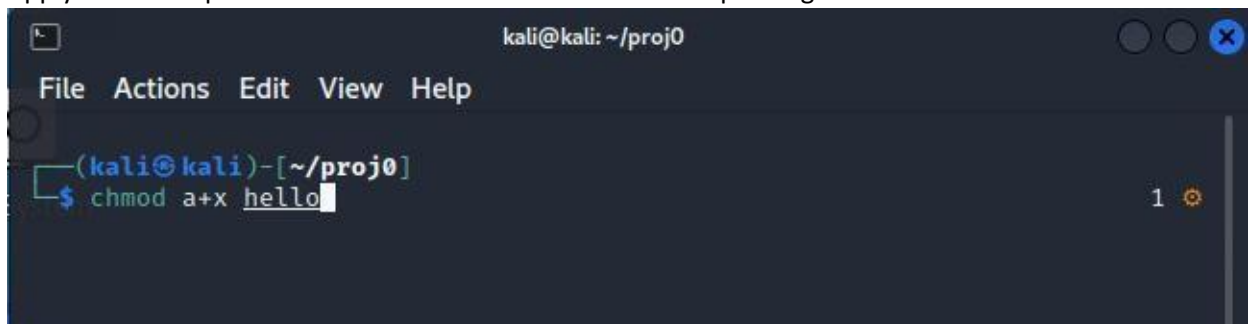
- 2) Write the script. The following is my script for the task:



```
kali@kali: ~/proj0
File Actions Edit View Help
GNU nano 6.3 hello *
#!/bin/bash
echo "Hello from Hamza Abdella Ahmed 18P7231!"
```

Then, Save, and set the name. (Ctrl+C -> Y -> Enter)

- 3) Apply execution permissions so that we can execute the script using this command:



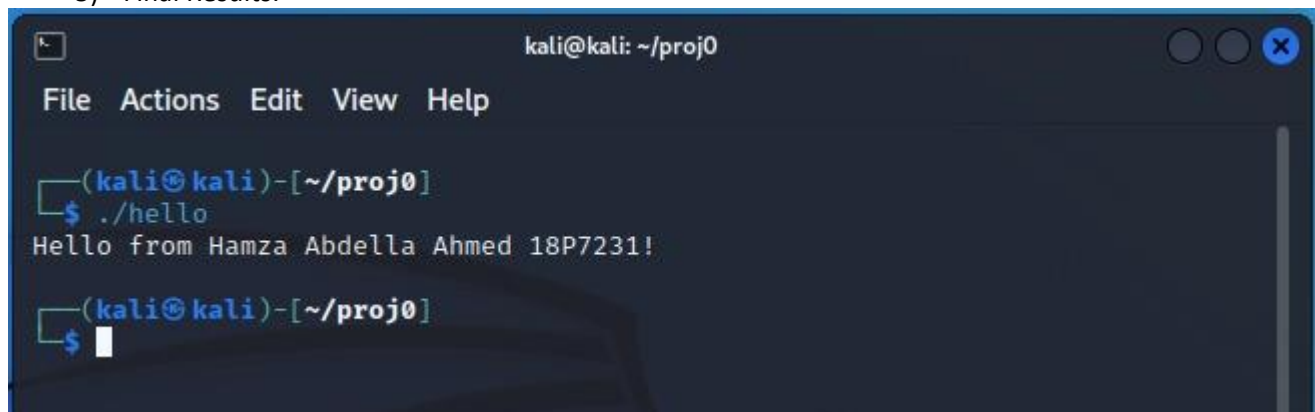
```
kali@kali: ~/proj0
File Actions Edit View Help
(kali@kali)-[~/proj0]
$ chmod a+x hello
```

- 4) Use the following command to execute the script:



```
kali@kali: ~/proj0
File Actions Edit View Help
(kali@kali)-[~/proj0]
$ ./hello
```

- 5) Final Results:



```
kali@kali: ~/proj0
File Actions Edit View Help
(kali@kali)-[~/proj0]
$ ./hello
Hello from Hamza Abdella Ahmed 18P7231!
(kali@kali)-[~/proj0]
$
```

Script:

```
#!/bin/bash
echo "Hello Hamza Abdellah
ahmed 18P7231!"
```

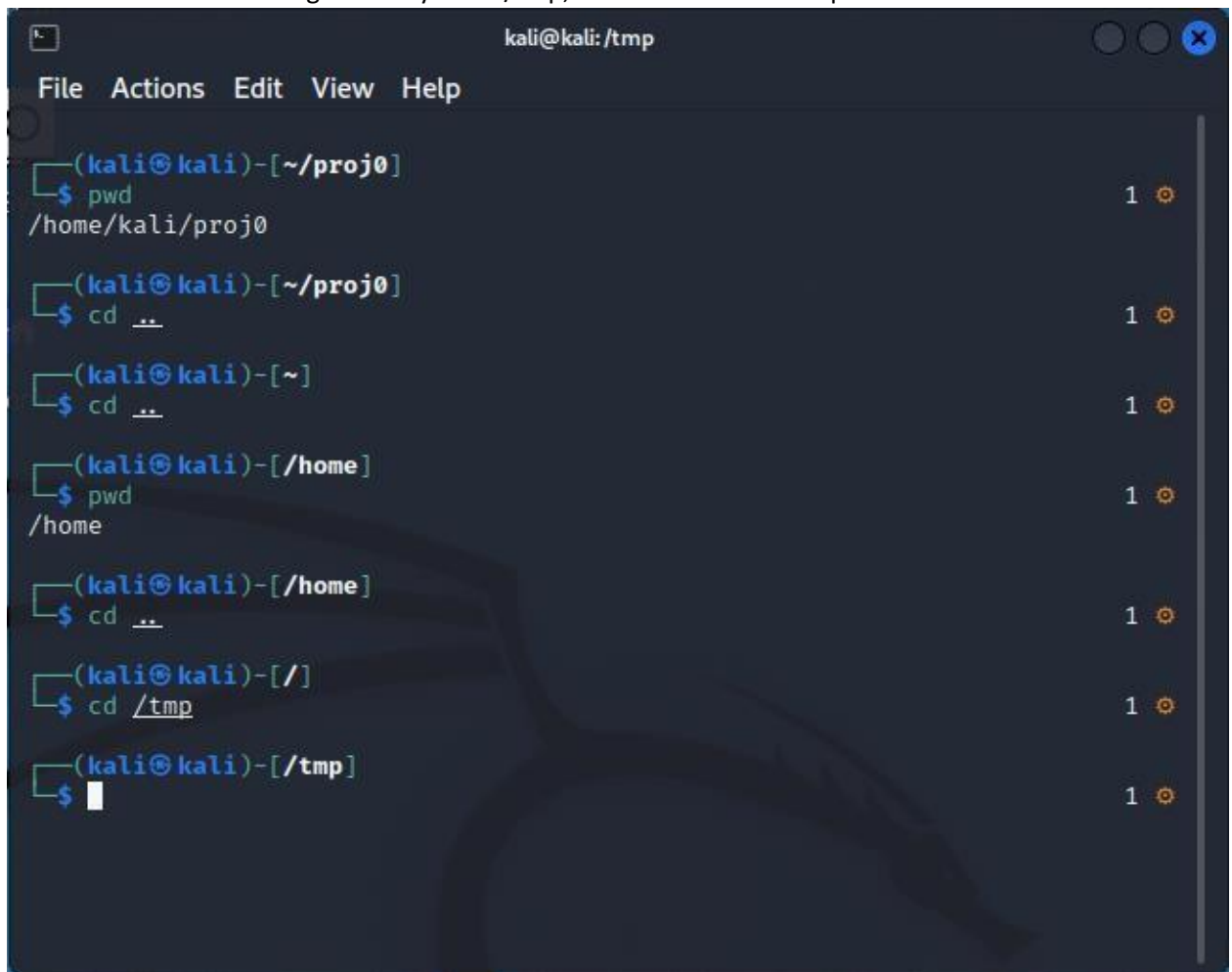
Question 2:

Make a script that does these things:

- Prints your name
- Prints the date and time
- Prints the current working directory, which must be /tmp
- Sends two pings to Google and then stops.--

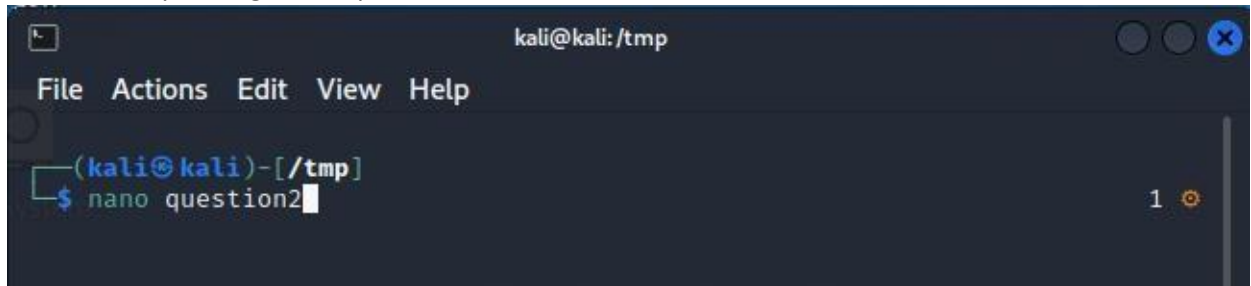
Answer:

- 1) Since we want the working directory to be /tmp, we will create the script file there:

A terminal window titled 'kali@kali: /tmp' with a menu bar (File, Actions, Edit, View, Help). The terminal shows a series of commands and their outputs: 1. Prompt: (kali@kali)-[~/proj0], Command: pwd, Output: /home/kali/proj0. 2. Prompt: (kali@kali)-[~/proj0], Command: cd .., Output: (kali@kali)-[~]. 3. Prompt: (kali@kali)-[~], Command: cd .., Output: (kali@kali)-[/home]. 4. Prompt: (kali@kali)-[/home], Command: pwd, Output: /home. 5. Prompt: (kali@kali)-[/home], Command: cd .., Output: (kali@kali)-[/]. 6. Prompt: (kali@kali)-[/], Command: cd /tmp, Output: (kali@kali)-[/tmp]. The final prompt is (kali@kali)-[/tmp] with a cursor on the next line. On the right side of the terminal, there are six lines, each containing the number '1' and a gear icon, corresponding to the six command steps shown.

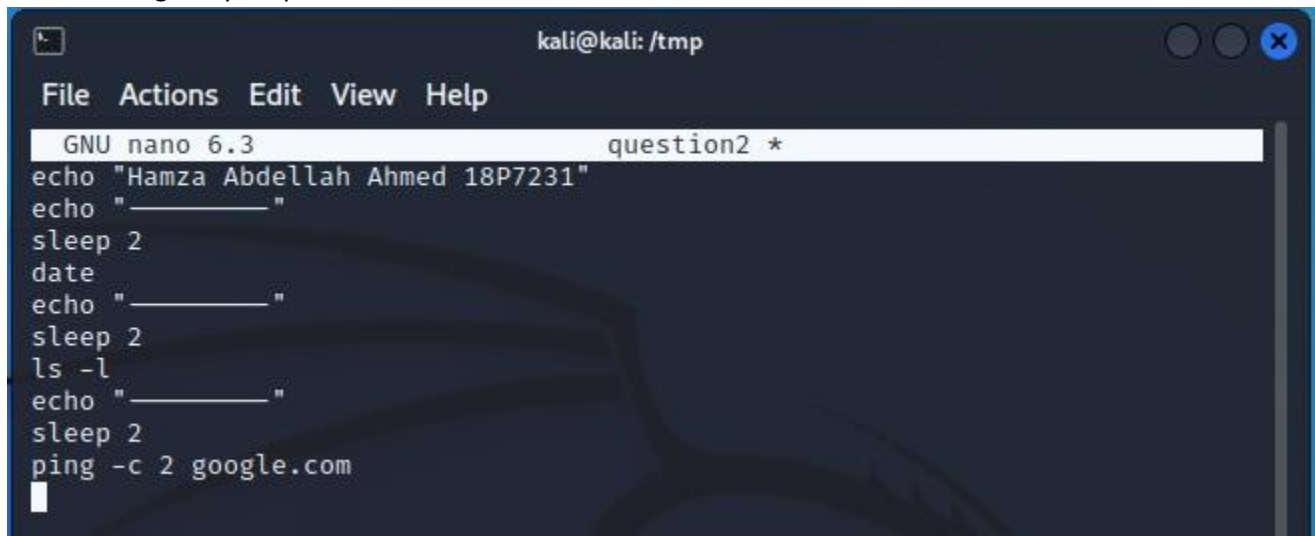
We are now in /tmp.

- 2) Write the script using “nano question2”.



```
kali@kali: /tmp
File Actions Edit View Help
(kali@kali)-[/tmp]
$ nano question2
```

- 3) The following is my script for the task:

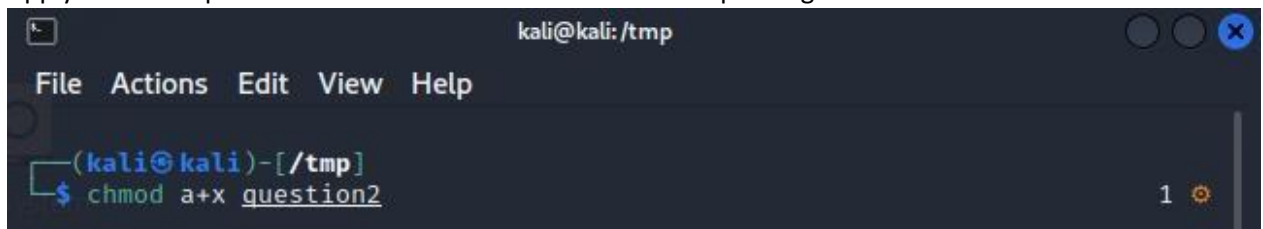


```
kali@kali: /tmp
File Actions Edit View Help
GNU nano 6.3 question2 *
echo "Hamza Abdellah Ahmed 18P7231"
echo "-----"
sleep 2
date
echo "-----"
sleep 2
ls -l
echo "-----"
sleep 2
ping -c 2 google.com
```

Then, Save, and set the name. (Ctrl+C -> Y -> Enter).

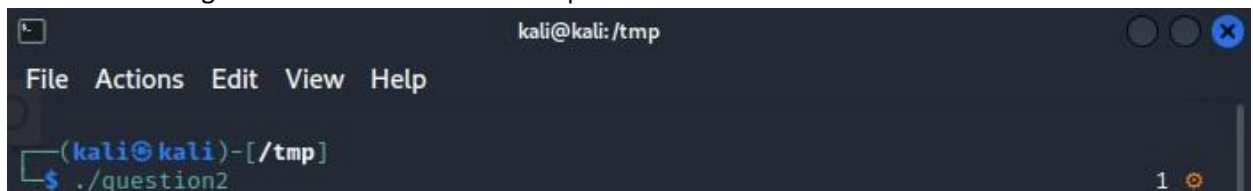
Note: “Sleep” command is just to give us time to read the output of each command. Echo “-----” to separate output

- 4) Apply execution permissions so that we can execute the script using this command:



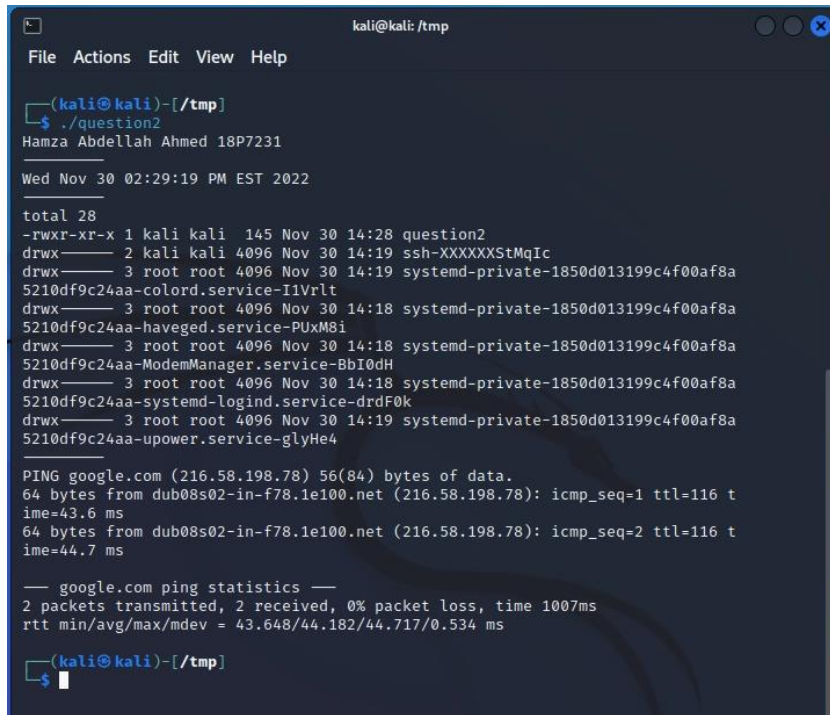
```
kali@kali: /tmp
File Actions Edit View Help
(kali@kali)-[/tmp]
$ chmod a+x question2
```

- 5) Use the following command to execute the script:



```
kali@kali: /tmp
File Actions Edit View Help
(kali@kali)-[/tmp]
$ ./question2
```

6) Final Results:



```
kali@kali: /tmp
File Actions Edit View Help

(kali@kali)-[/tmp]
$ ./question2
Hamza Abdellah Ahmed 18P7231

Wed Nov 30 02:29:19 PM EST 2022

total 28
-rwxr-xr-x 1 kali kali 145 Nov 30 14:28 question2
drwx----- 2 kali kali 4096 Nov 30 14:19 ssh-XXXXXXXXStMqIc
drwx----- 3 root root 4096 Nov 30 14:19 systemd-private-1850d013199c4f00af8a
5210df9c24aa-color.service-IIVrIt
drwx----- 3 root root 4096 Nov 30 14:18 systemd-private-1850d013199c4f00af8a
5210df9c24aa-haveged.service-PUxM8i
drwx----- 3 root root 4096 Nov 30 14:18 systemd-private-1850d013199c4f00af8a
5210df9c24aa-ModemManager.service-BbI0dH
drwx----- 3 root root 4096 Nov 30 14:18 systemd-private-1850d013199c4f00af8a
5210df9c24aa-systemd-logind.service-drdf0k
drwx----- 3 root root 4096 Nov 30 14:19 systemd-private-1850d013199c4f00af8a
5210df9c24aa-upower.service-glyHe4

PING google.com (216.58.198.78) 56(84) bytes of data.
64 bytes from dub08s02-in-f78.1e100.net (216.58.198.78): icmp_seq=1 ttl=116 t
ime=43.6 ms
64 bytes from dub08s02-in-f78.1e100.net (216.58.198.78): icmp_seq=2 ttl=116 t
ime=44.7 ms

-- google.com ping statistics --
2 packets transmitted, 2 received, 0% packet loss, time 1007ms
rtt min/avg/max/mdev = 43.648/44.182/44.717/0.534 ms

(kali@kali)-[/tmp]
$
```

Script

```
echo "Hamza Abdellah
Ahmed"

echo "----- "

sleep 2

date

echo "----- "

sleep 2

ls -l

echo "----- "

sleep 2

ping -c 2 google.com
```