

Name : KALAMEGAM.V

Reg No : 20BIT0302

Title: Linux Command List Assessment

Instructions:-

The following assessment aims to test your understanding and practical knowledge of various Linux commands. Perform the tasks given below using the appropriate commands. Write down the command(s) used to complete each task. You can use any Linux distribution or command-line interface of your choice. Ensure that you provide the correct output or results for each task.

Note: It is recommended to perform this assessment on a Linux machine or virtual environment.

File and Directory Operations:

ls: List files and directories

Kali (208IT0302) - VMware Workstation 17 Player (Non-commercial use only)

Player | 1 2 3 4 |

kali@kali: ~

File Actions Edit View Help

(kali㉿kali)-[~]

└─\$ ls

Desktop Documents Downloads LabQn4.txt Music Pictures Public Templates Videos

(kali㉿kali)-[~]

└─\$ ls -al

total 156

drwxr-xr-x 18 kali kali 4096 May 19 13:24 .

drwxr-xr-x 3 root root 4096 May 12 2022 ..

-rw-r--r-- 1 kali kali 1 May 12 2022 .bash_history

-rw-r--r-- 3 kali kali 220 May 12 2022 .bash_logout

-rw-r--r-- 3 kali kali 5551 May 12 2022 .bashrc

-rw-r--r-- 3 kali kali 3526 May 12 2022 .bashrc.original

drwxr-xr-x 4 kali kali 4096 Jan 12 23:03 .BurpSuite

drwxr-xr-x 12 kali kali 4096 Jan 12 23:03 .cache

drwxr-xr-x 16 kali kali 4096 Feb 16 12:17 .config

drwxr-xr-x 2 kali kali 4096 May 12 2022 Desktop

-rw-r--r-- 1 kali kali 35 May 12 2022 .dmrc

drwxr-xr-x 2 kali kali 4096 May 12 2022 Documents

drwxr-xr-x 2 kali kali 4096 Mar 24 04:24 Downloads

-rw-r--r-- 1 kali kali 11759 May 12 2022 .face

lrwxrwxrwx 1 kali kali 5 May 12 2022 .face.icon → .face

drwxr-xr-x 3 kali kali 4096 May 12 2022 .gnupg

-rw-r--r-- 1 kali kali 0 May 12 2022 .ICEAuthority

drwxr-xr-x 4 kali kali 4096 Jan 12 22:45 .java

-rw-r--r-- 1 kali kali 5843 Dec 22 22:32 LabQn4.txt

drwxr-xr-x 4 kali kali 4096 May 12 2022 .local

drwxr-xr-x 5 kali kali 4096 Dec 15 11:39 .mozilla

drwxr-xr-x 10 kali kali 4096 Jan 20 10:44 .msf4

drwxr-xr-x 2 kali kali 4096 May 12 2022 Music

drwxr-xr-x 2 kali kali 4096 Mar 1 03:37 Pictures

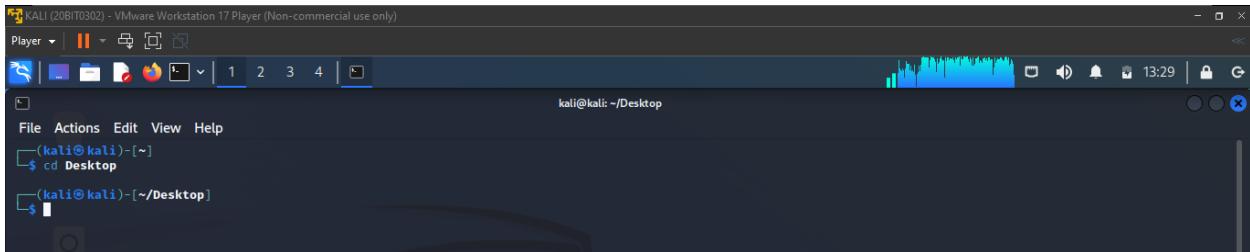
-rw-r--r-- 1 kali kali 807 May 12 2022 .profile

drwxr-xr-x 2 kali kali 4096 May 12 2022 Public

-rw-r--r-- 1 kali kali 0 May 12 2022 .sudo_as_admin_successful

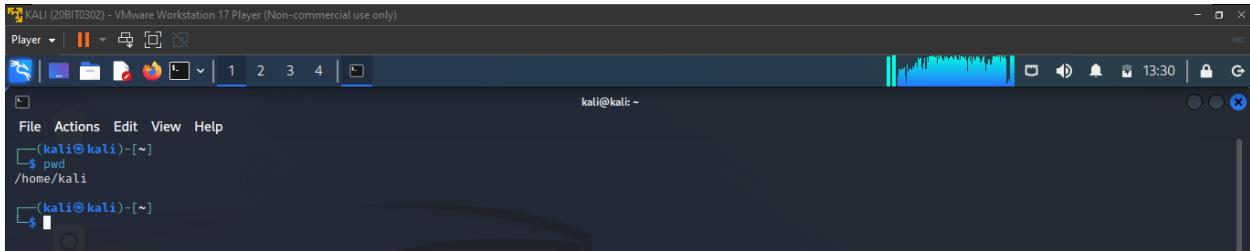
drwxr-xr-x 2 kali kali 4096 May 12 2022 Templates

cd: Change directory



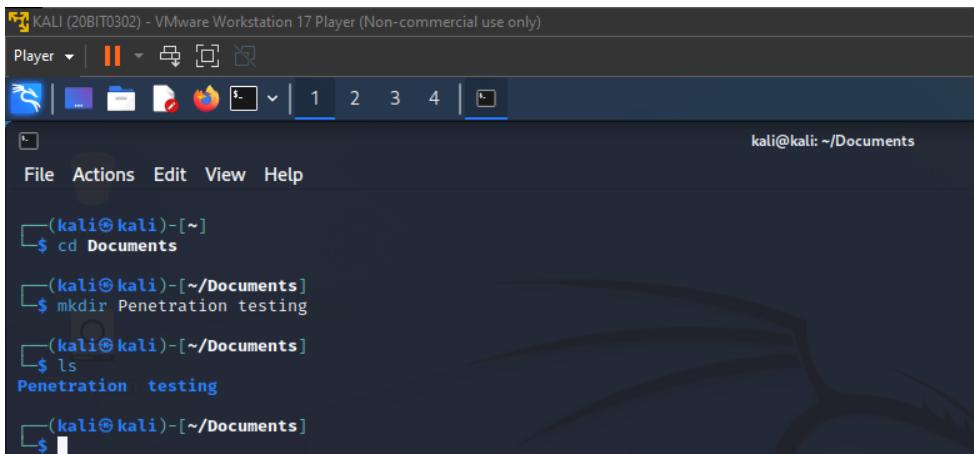
```
KALI (20BIT0302) - VMware Workstation 17 Player (Non-commercial use only)
Player | II | ☰ | 1 2 3 4 | ☰
File Actions Edit View Help
(kali㉿kali)-[~]
└$ cd Desktop
(kali㉿kali)-[~/Desktop]
└$ █
```

pwd: Print working directory



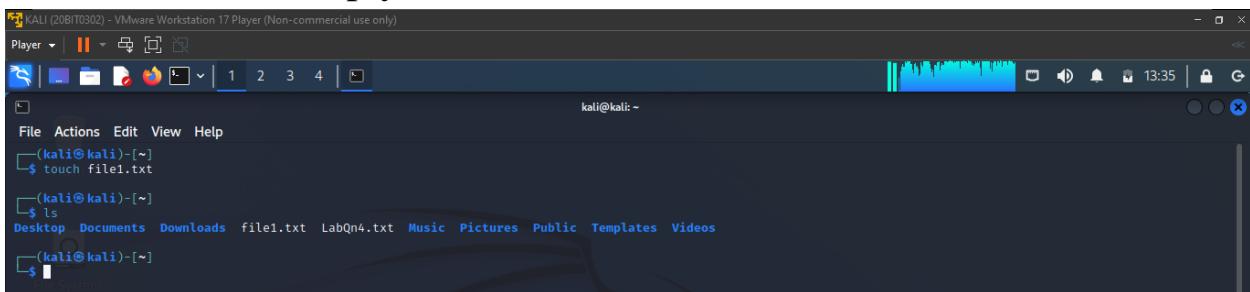
```
KALI (20BIT0302) - VMware Workstation 17 Player (Non-commercial use only)
Player | II | ☰ | 1 2 3 4 | ☰
File Actions Edit View Help
(kali㉿kali)-[~]
└$ pwd
/home/kali
(kali㉿kali)-[~]
└$ █
```

mkdir: Make directory



```
KALI (20BIT0302) - VMware Workstation 17 Player (Non-commercial use only)
Player | II | ☰ | 1 2 3 4 | ☰
File Actions Edit View Help
(kali㉿kali)-[~]
└$ cd Documents
(kali㉿kali)-[~/Documents]
└$ mkdir Penetration testing
(kali㉿kali)-[~/Documents]
└$ ls
Penetration testing
(kali㉿kali)-[~/Documents]
└$ █
```

touch: Create an empty file



```
KALI (20BIT0302) - VMware Workstation 17 Player (Non-commercial use only)
Player | II | ☰ | 1 2 3 4 | ☰
File Actions Edit View Help
(kali㉿kali)-[~]
└$ touch file1.txt
(kali㉿kali)-[~]
└$ ls
Desktop Documents Downloads file1.txt LabQn4.txt Music Pictures Public Templates Videos
(kali㉿kali)-[~]
└$ █
```

cp: Copy files and directories

```
kali@kali: ~/Downloads
File Actions Edit View Help
[(kali㉿kali)-~]
$ cd Downloads
[(kali㉿kali)-~/Downloads]
$ ls
'20BIT0302 metasploit scan_ikqosz.pdf'  kalamegam.jpg  Nessus-10.4.2-ubuntu1404_amd64.deb
[(kali㉿kali)-~/Downloads]
$ cp kalamegam.png files
cp: cannot stat 'kalamegam.png': No such file or directory
[(kali㉿kali)-~/Downloads]
$ cp kalamegam.jpg files
[(kali㉿kali)-~/Downloads]
$
```

mv: Move or rename files and directories

rm: Remove files and directories

find: Search for files and directories

```
Kali (20BIT0302) - VMware Workstation 17 Player (Non-commercial use only)
Player | || ▶ 🔍
[ 1 2 3 4 ] [ 🌐 ]
kali@kali: ~/Downloads

File Actions Edit View Help
(kali㉿kali)-[~]
$ find Documents
Documents: No such file or directory

(kali㉿kali)-[~]
$ find Downloads
Downloads
Downloads/Files
Downloads/Nessus-10.4.2-ubuntu1404_amd64.deb
Downloads/20BIT0302 metasploit scan_ikqosz.pdf
Downloads/Files

(kali㉿kali)-[~]
$ cd Downloads
(kali㉿kali)-[~/Downloads]
$ find files
files

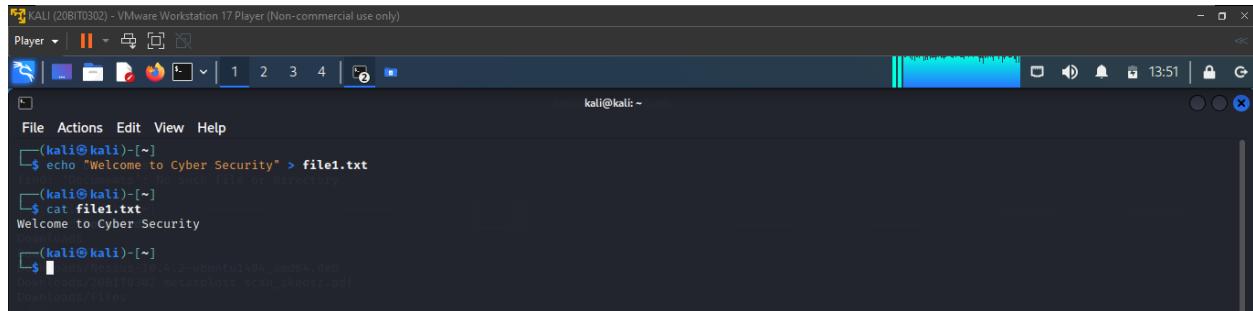
(kali㉿kali)-[~/Downloads]
$
```

Result:

I did all the commands and getting results of file and directory operations.

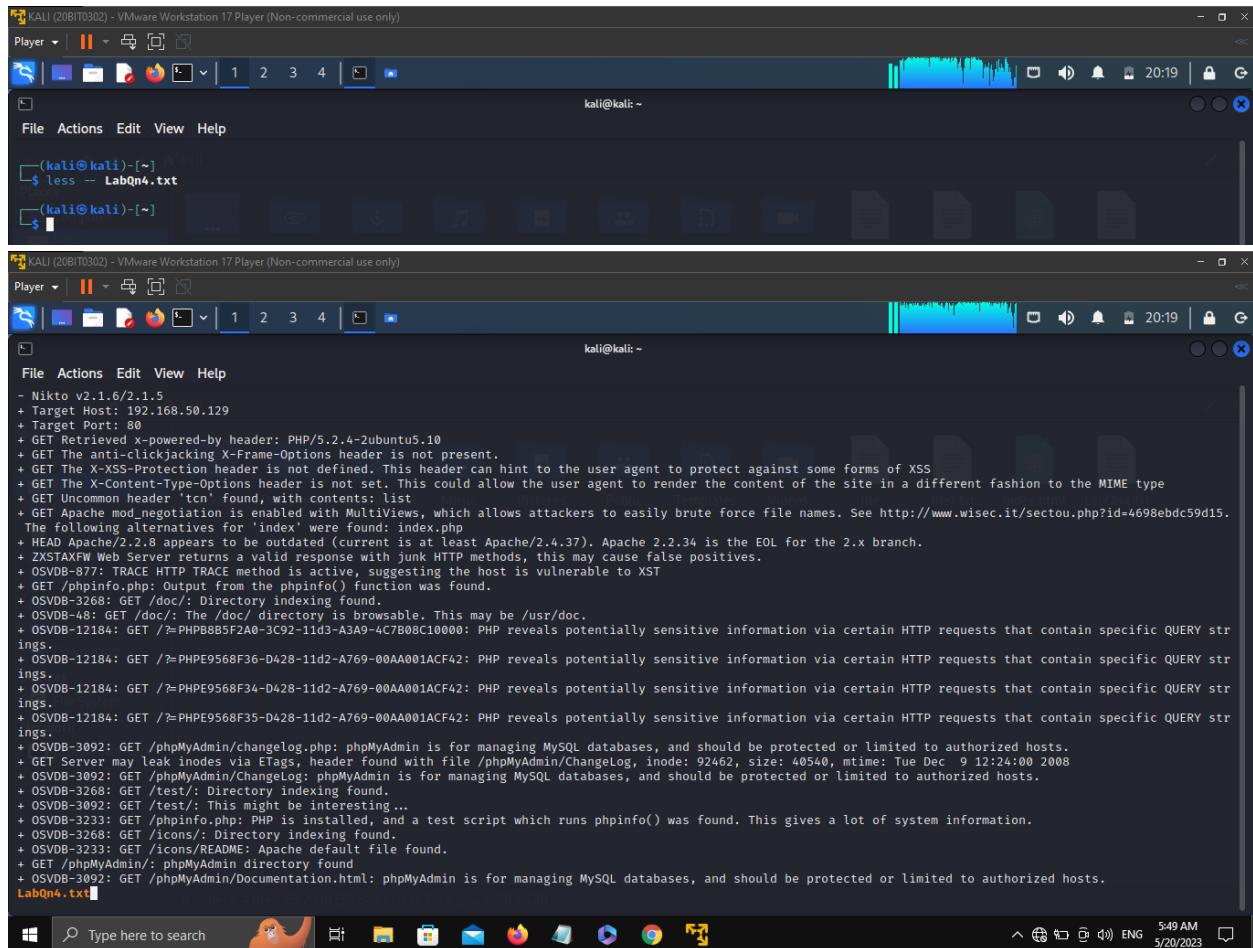
File Viewing and Editing:

cat: Concatenate and display file content



```
(kali㉿kali)-[~]
$ echo "Welcome to Cyber Security" > file1.txt
(kali㉿kali)-[~]
$ cat file1.txt
Welcome to Cyber Security
(kali㉿kali)-[~]
```

less: View file content with pagination



```
(kali㉿kali)-[~]
$ less -- LabQn4.txt
(kali㉿kali)-[~]
```

File Actions Edit View Help

```
- Nikto v2.1.6/2.1.5
+ Target Host: 192.168.50.129
+ Target Port: 80
+ GET Retrieved x-powered-by header: PHP/5.2.4-2ubuntu5.10
+ GET The anti-clickjacking X-Frame-Options header is not present.
+ GET The X-XSS-Protection header is not defined. This header can hint to the user agent to protect against some forms of XSS
+ GET The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type
+ GET Uncommon header 'tcn' found, with contents: list
+ GET Apache mod_negotiation is enabled with MultiViews, which allows attackers to easily brute force file names. See http://www.wisec.it/sectou.php?id=4698ebdc59d15.
The following alternatives for 'index' were found: index.php
+ HEAD Apache/2.2.8 appears to be outdated (current is at least Apache/2.4.37). Apache 2.2.34 is the EOL for the 2.x branch.
+ ZXTAXFW Web Server returns a valid response with junk HTTP methods, this may cause false positives.
+ OSVDB-877: TRACE HTTP TRACE method was active, suggesting the host is vulnerable to XST
+ GET /phpinfo.php: Output from the phpinfo() function was found.
+ OSVDB-3268: GET /doc/: Directory indexing found.
+ OSVDB-48: GET /doc/: The /doc/ directory is browsable. This may be /usr/doc.
+ OSVDB-12184: GET /?=>PHPE9568F36-D428-11d2-A769-00AA001ACF42: PHP reveals potentially sensitive information via certain HTTP requests that contain specific QUERY strings.
+ OSVDB-12184: GET /?=>PHPE9568F35-D428-11d2-A769-00AA001ACF42: PHP reveals potentially sensitive information via certain HTTP requests that contain specific QUERY strings.
+ OSVDB-12184: GET /?=>PHPE9568F34-D428-11d2-A769-00AA001ACF42: PHP reveals potentially sensitive information via certain HTTP requests that contain specific QUERY strings.
+ OSVDB-3092: GET /phpMyAdmin/changelog.php: phpMyAdmin is for managing MySQL databases, and should be protected or limited to authorized hosts.
+ GET Server may leak inodes via ETags, header found with file /phpMyAdmin/Changelog, inode: 92462, size: 40540, mtime: Tue Dec 9 12:24:00 2008
+ OSVDB-3092: GET /phpMyAdmin/Changelog: phpMyAdmin is for managing MySQL databases, and should be protected or limited to authorized hosts.
+ OSVDB-3268: GET /test/: Directory indexing found.
+ OSVDB-3092: GET /test/: This might be interesting...
+ OSVDB-3233: GET /phpinfo.php: PHP is installed, and a test script which runs phpinfo() was found. This gives a lot of system information.
+ OSVDB-3268: GET /icons/: Directory indexing found.
+ OSVDB-3233: GET /icons/README: Apache default file found.
+ GET /phpMyAdmin/: phpMyAdmin directory found
+ OSVDB-3092: GET /phpMyAdmin/Documentation.html: phpMyAdmin is for managing MySQL databases, and should be protected or limited to authorized hosts.
LabQn4.txt
```

head: Display the beginning of a file

KALI (20210302) - VMware Workstation 17 Player (Non-commercial use only)

```
(kali㉿kali)-[~]
$ head LabQn4.txt
- Nikto v2.1.6/2.1.5
+ Target Host: 192.168.50.129
+ Target Port: 80
+ GET Retrieved x-powered-by header: PHP/5.2.4-ubuntu5.10
+ GET The anti-clickjacking X-Frame-Options header is not present.
+ GET The X-XSS-Protection header is not defined. This header can hint to the user agent to protect against some forms of XSS
+ GET The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type
+ GET Uncommon header 'tcn' found, with contents: list
+ GET Apache mod_negotiation is enabled with MultiViews, which allows attackers to easily brute force file names. See http://www.wisec.it/sectou.php?id=4698ebdc59d15.
The following alternatives for 'index' were found: index.php
+ HEAD Apache/2.2.8 appears to be outdated (current is at least Apache/2.4.37). Apache 2.2.34 is the EOL for the 2.x branch.
```

(kali㉿kali)-[~]

File Actions Edit View Help

Downloads Devices File System Network Browse Network

Type here to search 5:49 AM 5/20/2023

tail: Display the end of a file

```
(kali㉿kali)-[~]
$ tail -- LabQn4.txt
+ OSVDB-12184: GET /?=PHPE9568F34-D428-11d2-A769-00AA001ACF42: PHP reveals potentially sensitive information via certain HTTP requests that contain specific QUERY strings.
+ OSVDB-12184: GET /?=PHPE9568F35-D428-11d2-A769-00AA001ACF42: PHP reveals potentially sensitive information via certain HTTP requests that contain specific QUERY strings.
+ OSVDB-3092: GET /phpMyAdmin/changelog.php: phpMyAdmin is for managing MySQL databases, and should be protected or limited to authorized hosts.
+ GET Server may leak inodes via ETags, header found with file /phpMyAdmin/ChangeLog, inode: 92462, size: 40540, mtime: Tue Dec 9 12:24:00 2008
+ OSVDB-3092: GET /phpMyAdmin/ChangeLog: phpMyAdmin is for managing MySQL databases, and should be protected or limited to authorized hosts.
+ OSVDB-3268: GET /test/: Directory indexing found.
+ OSVDB-3092: GET /test/: This might be interesting ...
+ OSVDB-3233: GET /phpinfo.php: PHP is installed, and a test script which runs phpinfo() was found. This gives a lot of system information.
+ OSVDB-3268: GET /icons/: Directory indexing found.
+ OSVDB-3233: GET /icons/README: Apache default file found.
```

(kali㉿kali)-[~]

Type here to search 5:50 AM 5/20/2023

nano: Text editor for creating and editing files

KALI (20210302) - VMware Workstation 17 Player (Non-commercial use only)

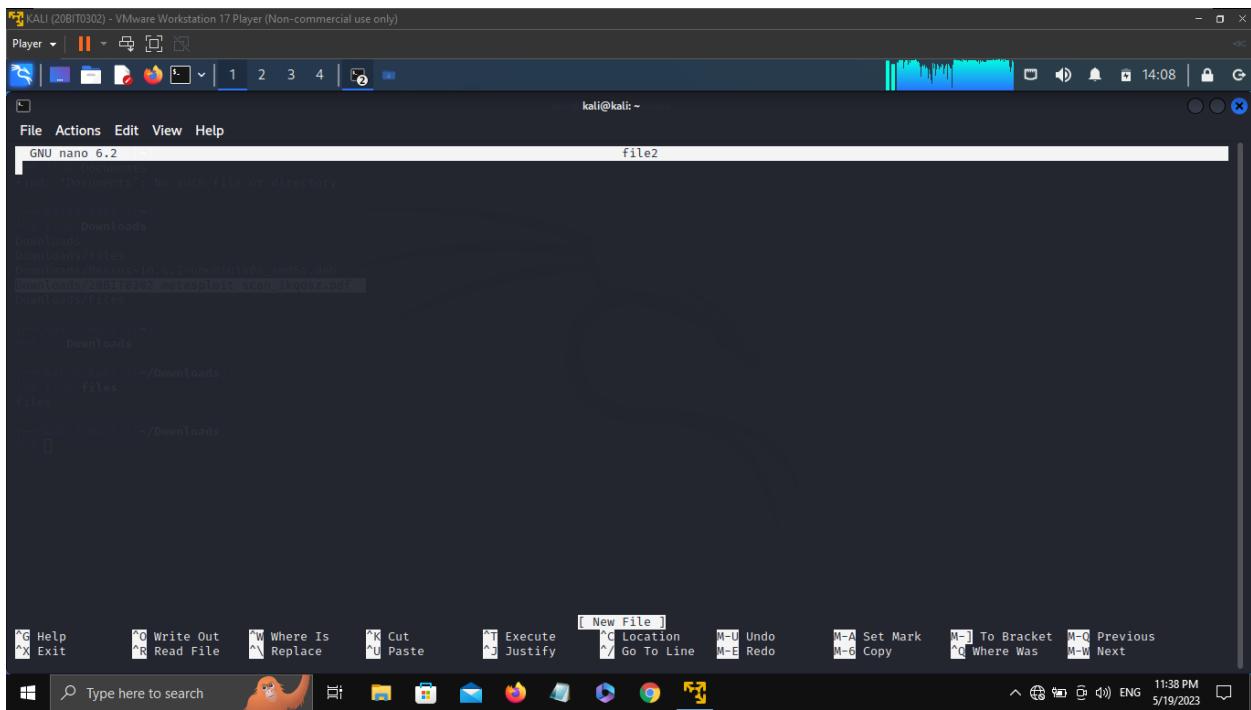
```
(kali㉿kali)-[~]
$ nano --version
GNU nano, version 6.2
(C) 1999-2011, 2013-2022 Free Software Foundation, Inc.
(C) 2014-2022 the contributors to nano
Compiled options: --disable-libmagic --enable-utf8

(kali㉿kali)-[~]
$ nano file2

(kali㉿kali)-[~]
```

File Actions Edit View Help

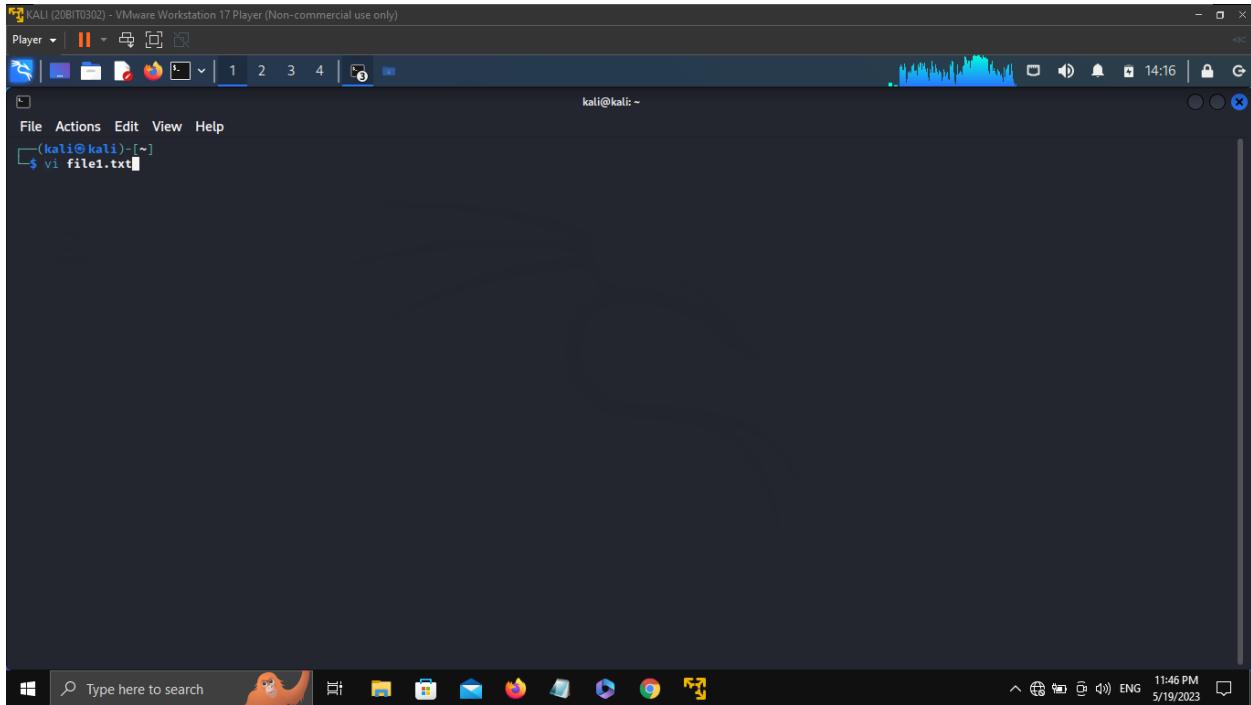
Type here to search 14:12 5/20/2023



The screenshot shows a terminal window titled "KALI (20BIT0302) - VMware Workstation 17 Player (Non-commercial use only)". The terminal is running the nano text editor. The command "ls" was run, displaying the contents of the current directory (~). The output shows several files and folders, including "Downloads", "Downloads/files", "Downloads/nexus10_wx86_minimal_andro4.qcow2", "Downloads/20210909_metasploit_scan_ikqosz.pdf", and "Downloads/Files". The terminal prompt is "kali@kali: ~". The status bar at the bottom shows the date and time as 5/19/2023 11:38 PM.

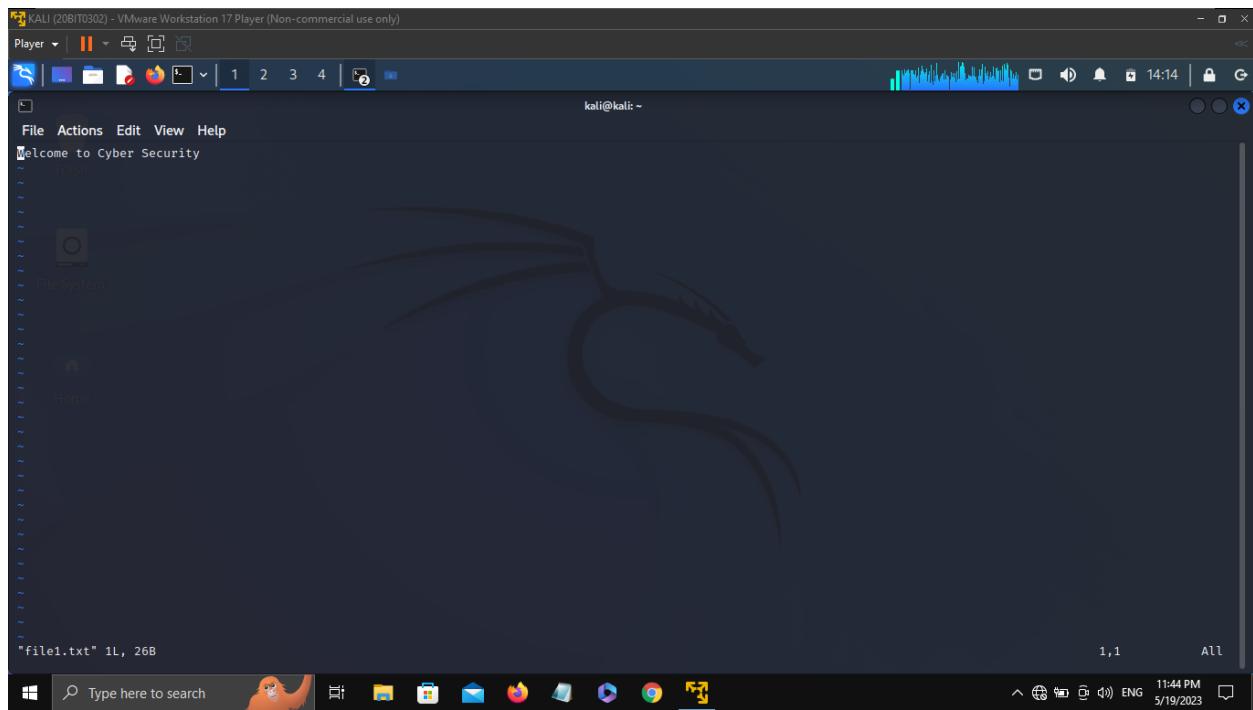
```
File Actions Edit View Help
GNU nano 6.2
file2
kali@kali: ~
ls
ls: 'Documents': No such file or directory
.
..
Downloads
Downloads/files
Downloads/nexus10_wx86_minimal_andro4.qcow2
Downloads/20210909_metasploit_scan_ikqosz.pdf
Downloads/Files
.
..
kali@kali: ~
ls ~/Downloads
.
..
kali@kali: ~/Downloads
.
..
kali@kali: ~
```

vi/vim: Powerful text editor for experienced users



The screenshot shows a terminal window titled "KALI (20BIT0302) - VMware Workstation 17 Player (Non-commercial use only)". The terminal is running the vi text editor. The command "vi file1.txt" was run, opening a new file named "file1.txt". The status bar at the bottom shows the date and time as 5/19/2023 11:46 PM.

```
File Actions Edit View Help
(kali@kali)-[~]
$ vi file1.txt
```



Result:

I did all the commands and getting results of file viewing and editing operations.

File Permissions:

chmod: Change file permissions

A screenshot of a Kali Linux terminal window. The user has run the command "ls -l file1.txt" to view the file's permissions, which are currently set to "-rw-r--r--". The user then runs "chmod u=rw,og=r file1.txt" to change the permissions. After the change, the user runs "ls -l file1.txt" again, showing that the permissions have been updated to "-rwxr--r--". The terminal also shows the user navigating through their home directory.

chown: Change file owner

```

KALI (20BIT0302) - VMware Workstation 17 Player (Non-commercial use only)
Player | || | 1 2 3 4 | 🔍 | 20:27 | root@kali:/home/kali

File Actions Edit View Help
[root@kali:~]
[root@kali:~] cd /home/kali/
[root@kali:~/home/kali] ls
Desktop Documents Downloads file file1.txt index.html LabQn4.txt Music Pictures Public Templates Videos
[root@kali:~/home/kali] ls -l file1.txt
-rw-r--r-- 1 kali kali 26 May 19 13:51 file1.txt factory
[root@kali:~/home/kali] chown master file1.txt
chown: invalid user: 'master' (see /etc/passwd or /etc/group)
[root@kali:~/home/kali] chown root file1.txt
[root@kali:~/home/kali] ls -l file1.txt
-rw-r--r-- 1 root kali 26 May 19 13:51 file1.txt
[root@kali:~/home/kali] chown kali file1.txt
[root@kali:~/home/kali] ls -l file1.txt
-rw-r--r-- 1 kali kali 26 May 19 13:51 file1.txt
[root@kali:~/home/kali]

```

The terminal window shows a root shell on Kali Linux. It first lists files in the home/kali directory. Then, it runs the command `chown master file1.txt`, which fails because 'master' is not a valid user. Finally, it runs `chown root file1.txt`, changing the owner back to 'root'. The desktop environment at the bottom shows various icons like File Explorer, Task View, and Start.

chgrp: Change file group

```

KALI (20BIT0302) - VMware Workstation 17 Player (Non-commercial use only)
Player | || | 1 2 3 4 | 🔍 | 20:30 | kali@kali:~>

File Actions Edit View Help
(kali㉿kali)-[~]
$ sudo addgroup cybersecurity
[sudo] password for kali:
Sorry, try again.
[sudo] password for kali: Adding group 'cybersecurity' (GID 1001) ...
Done.
(kali㉿kali)-[~]
$ ls -l file1.txt
-rw-r--r-- 1 kali kali 26 May 19 13:51 file1.txt
(kali㉿kali)-[~]
$ sudo chgrp cybersecurity file1.txt
(kali㉿kali)-[~]
$ ls -l file1.txt
-rw-r--r-- 1 kali cybersecurity 26 May 19 13:51 file1.txt
(kali㉿kali)-[~]
$ 

```

The terminal window shows a root shell on Kali Linux. It first runs `sudo addgroup cybersecurity` to create a new group 'cybersecurity'. Then, it runs `sudo chgrp cybersecurity file1.txt` to change the group of 'file1.txt' to 'cybersecurity'. The desktop environment at the bottom shows various icons like File Explorer, Task View, and Start.

Result:

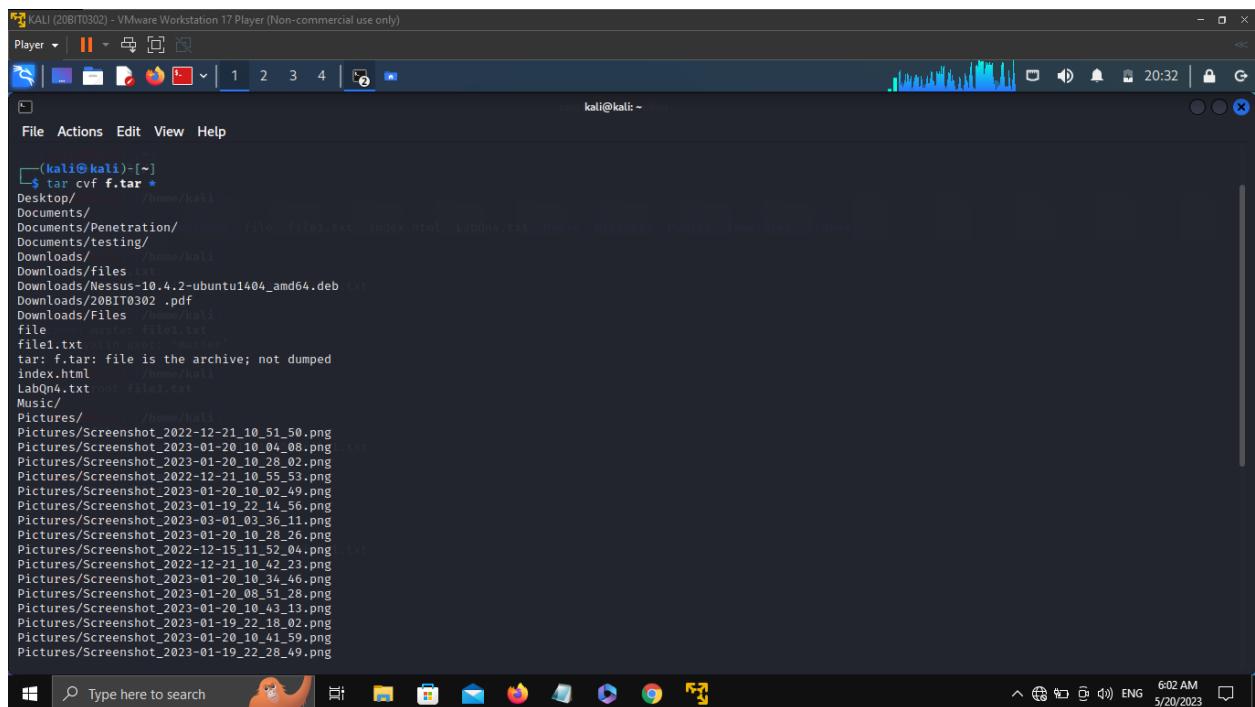
I did all the commands and getting results of file permission operations.

File Compression and Archiving:

tar: Archive files

Commands:

- tar cvf f.tar*
- tar xvf f.tar
- tar tvf f.tar



The screenshot shows a terminal window titled "KALI (208IT0302) - VMware Workstation 17 Player (Non-commercial use only)". The terminal is running on a Kali Linux system, indicated by the root prompt "(kali㉿kali)-[~]". The user has run the command "tar cvf f.tar *". The output shows the creation of a tar archive named "f.tar" containing all files in the current directory. The terminal also displays a list of files in the current directory, including various screenshots, configuration files, and a Nessus scan report. The desktop environment at the bottom of the window shows icons for various applications like File Explorer, Firefox, and terminal.

```
(kali㉿kali)-[~]
$ tar cvf f.tar *
Desktop/          /home/kali
Documents/        /home/kali
Documents/Penetration/    /home/kali
Documents/Testing/      /home/kali
Downloads/        /home/kali
Downloads/Files/     /home/kali
Downloads/Nessus-10.4.2-ubuntu1404_amd64.deb
Downloads/208IT0302.pdf
Downloads/Files/     /home/kali
file             /home/kali/file1.txt
file1.txt         /home/kali
tar: f.tar: file is the archive; not dumped
index.html       /home/kali
LabQn4.txt       /home/kali
Music/           /home/kali
Pictures/         /home/kali
Pictures/Screenshot_2022-12-21_10_51_50.png
Pictures/Screenshot_2023-01-20_10_04_08.png
Pictures/Screenshot_2023-01-20_10_28_02.png
Pictures/Screenshot_2022-12-21_10_55_53.png
Pictures/Screenshot_2023-01-20_10_02_49.png
Pictures/Screenshot_2023-01-19_22_14_56.png
Pictures/Screenshot_2023-03-01_03_36_11.png
Pictures/Screenshot_2023-01-20_10_28_26.png
Pictures/Screenshot_2022-12-15_11_52_04.png
Pictures/Screenshot_2022-12-21_10_42_23.png
Pictures/Screenshot_2023-01-20_10_34_46.png
Pictures/Screenshot_2023-01-20_08_51_28.png
Pictures/Screenshot_2023-01-20_10_43_13.png
Pictures/Screenshot_2023-01-19_22_18_02.png
Pictures/Screenshot_2023-01-20_10_41_59.png
Pictures/Screenshot_2023-01-19_22_28_49.png
```

KALI (20BIT0302) - VMware Workstation 17 Player (Non-commercial use only)

Player | [] | 1 2 3 4 | []

kali@kali: ~

File Actions Edit View Help

```
[kali@kali:~] $ tar xvf f.tar
Desktop/
Documents/
Documents/Penetration/
Documents/testing/
Downloads/
Downloads/Files
Downloads/Files /home/kali
Downloads/Nessus-10.4.2-ubuntu1404_amd64.deb
Downloads/20BIT0302 .pdf
Downloads/Files
file /home/kali
file1.txt later file1.txt
index.html later users /master
LabQn4.txt
Music/
Pictures/ and file1.txt
Pictures/Screenshot_2022-12-21_10_51_50.png
Pictures/Screenshot_2023-01-20_10_04_08.png
Pictures/Screenshot_2023-01-20_10_28_02.png
Pictures/Screenshot_2022-12-21_10_55_53.png
Pictures/Screenshot_2023-01-20_10_02_49.png
Pictures/Screenshot_2023-01-19_22_14_56.png
Pictures/Screenshot_2023-03-01_03_36_11.png
Pictures/Screenshot_2023-01-20_10_28_26.png
Pictures/Screenshot_2022-12-15_11_52_04.png
Pictures/Screenshot_2022-12-21_10_42_23.png
Pictures/Screenshot_2023-01-20_10_34_46.png
Pictures/Screenshot_2023-01-20_08_51_28.png
Pictures/Screenshot_2023-01-20_10_43_13.png
Pictures/Screenshot_2023-01-19_22_18_02.png
Pictures/Screenshot_2023-01-20_10_41_59.png
Pictures/Screenshot_2023-01-19_22_28_49.png
Pictures/Screenshot_2022-12-20_10_51_05.png
Pictures/Screenshot_2023-01-20_10_27_51.png
```

Type here to search

Windows Start button

6:03 AM 5/20/2023

KALI (20BIT0302) - VMware Workstation 17 Player (Non-commercial use only)

Player | [] | 1 2 3 4 | []

kali@kali: ~

File Actions Edit View Help

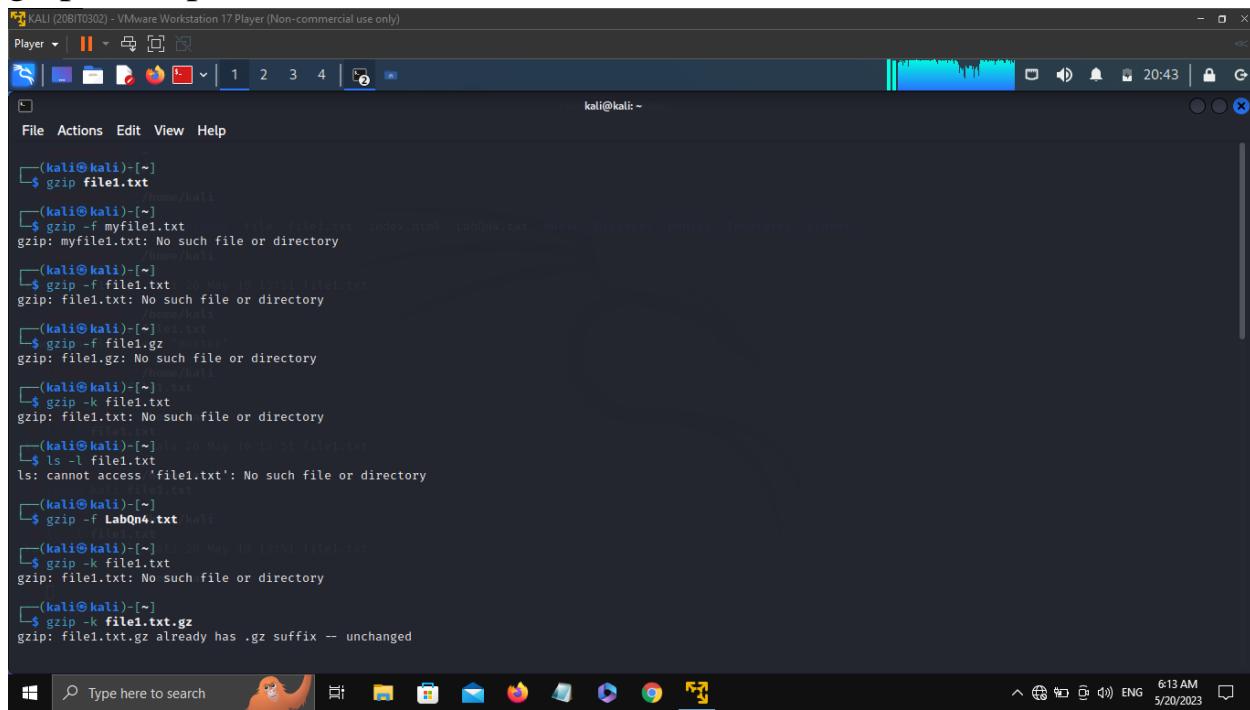
```
[kali@kali:~] $ tar tvf f.tar
drwxr-xr-x kali/kali 0 2023-05-12 12:19 Desktop/
drwxr-xr-x kali/kali 0 2023-05-19 13:32 Documents/
drwxr-xr-x kali/kali 0 2023-05-19 13:32 Documents/Penetration/
drwxr-xr-x kali/kali 0 2023-05-19 13:32 Documents/testing/
drwxr-xr-x kali/kali 0 2023-05-19 13:57 Downloads/
-rw----- kali/kali 4079120 2023-05-19 13:39 Downloads/files
-rw-r--r-- kali/kali 58913086 2023-02-16 11:52 Downloads/Nessus-10.4.2-ubuntu1404_amd64.deb
-rw-r--r-- kali/kali 74986 2023-03-24 04:23 Downloads/20BIT0302 .pdf
-rw----- kali/kali 4079120 2021-12-30 02:25 Downloads/files
-rw-r--r-- kali/kali 2 2023-05-19 14:11 file
-rw-r--r-- kali/cybersecurity 26 2023-05-19 13:51 file1.txt
-rw-r--r-- kali/kali 50674 2023-05-19 14:51 index.html
-rw-r--r-- kali/zeek 5843 2022-12-22 22:32 LabQn4.txt
drwxr-xr-x kali/kali 0 2022-05-12 12:19 Music/
drwxr-xr-x kali/kali 0 2023-05-19 13:47 Pictures/
-rw-r--r-- kali/kali 186553 2022-12-21 10:51 Pictures/Screenshot_2022-12-21_10_51_50.png
-rw-r--r-- kali/kali 164579 2023-01-20 10:04 Pictures/Screenshot_2023-01-20_10_04_08.png
-rw-r--r-- kali/kali 1265538 2023-01-21 10:28 Pictures/Screenshot_2023-01-20_10_28_02.png
-rw-r--r-- kali/kali 203809 2022-12-21 10:56 Pictures/Screenshot_2022-12-21_10_55_53.png
-rw-r--r-- kali/kali 105780 2023-01-20 10:02 Pictures/Screenshot_2023-01-20_10_02_49.png
-rw-r--r-- kali/kali txt 148675 2023-01-19 22:15 Pictures/Screenshot_2023-01-19_22_14_56.png
-rw-r--r-- kali/kali 129243 2023-03-01 03:36 Pictures/Screenshot_2023-03-01_03_36_11.png
-rw-r--r-- kali/kali 123216 2023-01-20 10:28 Pictures/Screenshot_2023-01-20_10_28_26.png
-rw-r--r-- kali/kali 139293 2022-12-15 11:52 Pictures/Screenshot_2022-12-15_11_52_04.png
-rw-r--r-- kali/kali 184916 2022-12-21 10:42 Pictures/Screenshot_2022-12-21_10_42_23.png
-rw-r--r-- kali/kali 178367 2023-01-20 10:34 Pictures/Screenshot_2023-01-20_10_34_46.png
-rw-r--r-- kali/kali 138635 2023-01-20 08:51 Pictures/Screenshot_2023-01-20_08_51_28.png
-rw-r--r-- kali/kali 124645 2023-01-20 10:43 Pictures/Screenshot_2023-01-20_10_43_13.png
-rw-r--r-- kali/kali 124916 2023-01-19 22:18 Pictures/Screenshot_2023-01-19_22_18_02.png
-rw-r--r-- kali/kali 137102 2023-01-20 10:42 Pictures/Screenshot_2023-01-20_10_41_59.png
-rw-r--r-- kali/kali 146222 2023-01-19 22:28 Pictures/Screenshot_2023-01-19_22_28_49.png
-rw-r--r-- kali/kali 154371 2022-12-20 10:51 Pictures/Screenshot_2022-12-20_10_51_05.png
```

Type here to search

Windows Start button

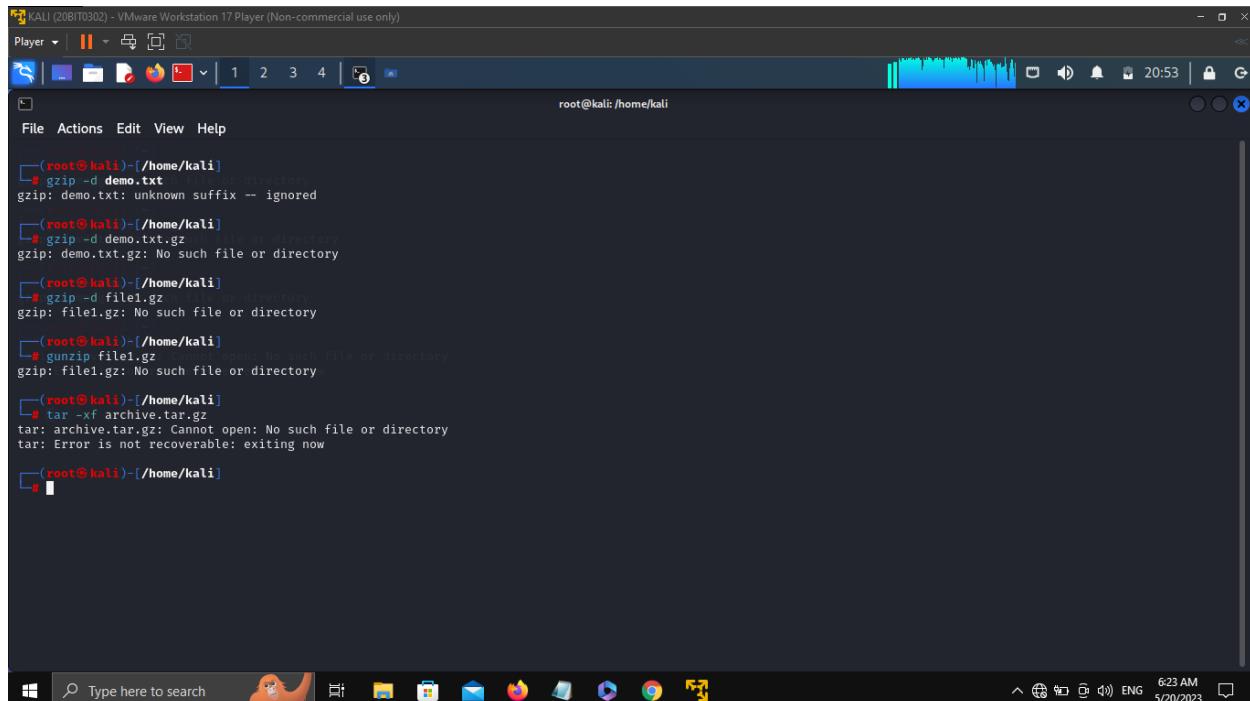
6:06 AM 5/20/2023

gzip: Compress files



```
(kali㉿kali)-[~]
$ gzip file1.txt
(kali㉿kali)-[~]
$ gzip -f myfile1.txt
gzip: myfile1.txt: No such file or directory
(kali㉿kali)-[~]
$ gzip -f file1.txt
gzip: file1.txt: No such file or directory
(kali㉿kali)-[~]
$ gzip -f file1.gz
gzip: file1.gz: No such file or directory
(kali㉿kali)-[~]
$ gzip -k file1.txt
gzip: file1.txt: No such file or directory
(kali㉿kali)-[~]
$ ls -l file1.txt
ls: cannot access 'file1.txt': No such file or directory
(kali㉿kali)-[~]
$ gzip -f LabQn4.txt/kali
(kali㉿kali)-[~]
$ gzip -k file1.txt.gz
gzip: file1.txt.gz already has .gz suffix -- unchanged
```

unzip: Extract files from a ZIP archive



```
(root㉿kali)-[~/home/kali]
# gzip -d demo.txt
gzip: demo.txt: unknown suffix -- ignored
(root㉿kali)-[~/home/kali]
# gzip -d demo.txt.gz
gzip: demo.txt.gz: No such file or directory
(root㉿kali)-[~/home/kali]
# gzip -d file1.gz
gzip: file1.gz: No such file or directory
(root㉿kali)-[~/home/kali]
# gunzip file1.gz
gunzip: file1.gz: Cannot open: No such file or directory
gzip: file1.gz: No such file or directory
(root㉿kali)-[~/home/kali]
# tar -xf archive.tar.gz
tar: archive.tar.gz: Cannot open: No such file or directory
tar: Error is not recoverable: exiting now
(root㉿kali)-[~/home/kali]
```

Result:

I did all the commands and getting results of file compressing and archiveing operations.

Process Management:

ps: List running processes

KALI (20BIT0302) - VMware Workstation 17 Player (Non-commercial use only)

```
(kali㉿kali)-[~]
$ ps
  PID TTY      TIME CMD
 15618 pts/1    00:00:10 zsh
 19970 pts/1    00:00:00 ps
```

The screenshot shows a Kali Linux desktop environment. A terminal window is open in the top-left corner, displaying the command 'ps' and its output. The output shows two processes: a zsh shell and the ps command itself. The desktop background features the Kali Linux logo. The taskbar at the bottom includes icons for various applications like file manager, browser, and terminal.

top: Display real-time system information and processes

KALI (20BIT0302) - VMware Workstation 17 Player (Non-commercial use only)

```
(kali㉿kali)-[~]
$ top
```

The screenshot shows a Kali Linux desktop environment. A terminal window is open in the top-left corner, displaying the command 'top' and its output. The output shows system information and processes. At the bottom of the terminal window, it says 'top - 14:34:06 up 1:14, 1 user, load average: 8.91, 5.42, 4.16'. The desktop background features the Kali Linux logo. The taskbar at the bottom includes icons for various applications like file manager, browser, and terminal.

KALI (20BIT0302) - VMware Workstation 17 Player (Non-commercial use only)

Player | II | ☰ | 🖼

File Actions Edit View Help

```
top - 14:34:19 up 1:14, 1 user, load average: 7.97, 5.39, 4.17
Tasks: 183 total, 1 running, 182 sleeping, 0 stopped, 0 zombie
%CPU(s): 44.4 us, 18.7 sy, 0.0 ni, 1.3 id, 23.5 wa, 0.0 hi, 2.1 si, 0.0 st
Mib Mem : 1973.0 total, 69.2 free, 807.5 used, 1096.3 buff/cache
Mib Swap: 975.0 total, 757.1 free, 217.9 used. 970.2 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
564	root	20	0	707164	227560	4984	S	72.6	11.3	79:14.5	nessusd
604	root	20	0	407196	96808	49340	S	36.0	4.8	4:18.39	xorg
1017	kali	20	0	207292	24796	13824	S	6.9	1.2	3:02.18	panel-13-cpugra
147	root	0	-20	0	0	0	I	6.3	0.0	0:48.80	kworker/1:1H-kblockd
20181	kali	20	0	427196	95556	77084	S	4.3	4.7	0:01.87	qterminal
497	root	20	0	239532	7968	5108	S	4.0	0.4	0:17.64	vmtoolsd
970	kali	20	0	926084	58252	49220	S	2.3	2.9	0:54.39	xfwm4
13	root	20	0	0	0	0	I	1.3	0.0	0:51.86	rcu_preempt
1019	kali	20	0	295884	21316	14332	S	1.3	1.1	0:39.87	panel-15-genmon
13998	root	20	0	0	0	0	D	1.3	0.0	0:02.51	kworker/u64:2+flush-8:0
12	root	20	0	0	0	0	S	0.3	0.0	0:03.17	ksoftirqd/0
19	root	20	0	0	0	0	S	0.3	0.0	0:02.63	ksoftirqd/1
957	kali	20	0	167036	9436	6516	S	0.3	0.5	0:00.91	at-sp12-registr
1020	kali	20	0	662064	23712	16452	S	0.3	1.2	0:09.66	panel-16-pulsea
1066	kali	20	0	313672	43644	18136	S	0.3	2.2	0:22.17	vmtoolsd
20333	kali	20	0	10240	3596	3048	R	0.3	0.2	0:00.11	top
1	root	20	0	165556	9352	6468	S	0.0	0.5	0:05.16	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.02	kthreadd
3	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_gp
4	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_par_gp
6	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/0:0H-events_highpri
8	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	mm_percpu_wq
9	root	20	0	0	0	0	S	0.5	0.0	0:00.00	rcu_tasks_kthre
10	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcu_tasks_rude
11	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcu_tasks_trace
14	root	rt	0	0	0	0	S	0.0	0.0	0:00.12	migration/0
16	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/0
17	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/1

Windows Type here to search 🐧 12:04 AM ENG 5/20/2023

kill: Terminate processes

KALI (20BIT0302) - VMware Workstation 17 Player (Non-commercial use only)

Player | II | ☰ | 🖼

File Actions Edit View Help

```
(kali㉿kali)-[~]
$ ps
  PID TTY      TIME CMD
 4322 pts/0    00:00:00 zsh
 4386 pts/0    00:00:00 psm
```

(kali㉿kali)-[~]

```
$ kill -CONT 4386
kill: kill 4386 failed: no such process
```

(kali㉿kali)-[~]

```
$ kill -CONT 4322
```

bg: Run processes in the background

KALI (20BIT032) - VMware Workstation 17 Player (Non-commercial use only)

Player | [] | [] | []

File Actions Edit View Help

```
[root@kali:~]# bg --help
bg: job not found: --help

[root@kali:~]# jobs
[root@kali:~]# sleep 500
^Z
zsh: suspended sleep 500

[root@kali:~]# jobs
[1]+  suspended sleep 500
[root@kali:~]# bg %1
[1]+ continued sleep 500

[root@kali:~]# jobs
[1]+  running sleep 500

[root@kali:~]# bg --help
bg: job not found: --help

[root@kali:~]#
```

fg: Bring background processes to the foreground

```
dg: job not found: --help
└─(root㉿kali)-[~]
  └─# fg
  [1] + running      sleep 500
  fg %1
  ^Z
zsh: suspended    sleep 500

└─(root㉿kali)-[~]
  └─# fg %1
  [1] + continued   sleep 500
  █
```

System Information:

uname: Print system information

df: Display disk space usage

free: Display memory usage

uptime: Show system uptime

who: Display logged-in users

w: Display logged-in users and their activities

Kali (2021T0302) - VMware Workstation 17 Player (Non-commercial use only)

Player | 1 2 3 4 | 6

kali@kali: ~

File Actions Edit View Help

```
(kali㉿kali)-[~]
$ uname -nvr
Linux

(kali㉿kali)-[~]
$ df -h
Filesystem      1K-blocks   Used   Available  Use% Mounted on
udev             966200       0   966200   0% /dev
tmpfs            202040   1176   200864   1% /run
/dev/sda1        81000912 15299908 61540392  20% /
tmpfs            1010184       0   1010184   0% /dev/shm
tmpfs              5120       0     5120   0% /run/lock
tmpfs            202036       76   201960   1% /run/user/1000

(kali㉿kali)-[~]
$ free -h
total        used        free      shared  buff/cache   available
Mem:    2020372       894892      68028      22188      1057452      915556
Swap:      998396      245568      752828

(kali㉿kali)-[~]
$ uptime
14:42:54 up  1:23,  1 user,  load average: 3.96, 3.67, 3.75

(kali㉿kali)-[~]
$ who
kali  :0 2023-05-19 13:21 (:0)

(kali㉿kali)-[~]
$ w
14:43:05 up  1:23,  1 user,  load average: 3.96, 3.68, 3.76
USER     TTY      FROM          LOGIN@  IDLE   JCPU   PCPU WHAT
kali    :0          13:21   1:22m  4:49   3.12s xfce4-session
```

Networking:

ifconfig: Configure network interfaces

```
(kali㉿kali)-[~]
$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
      inet 192.168.50.128 netmask 255.255.255.0 broadcast 192.168.50.255
          inet6 fe80::2c9ff:fe61:d154 prefixlen 64 scopeid 0x20<link>
            ether 00:0c:29:b1:d1:54 txqueuelen 1000 (Ethernet)
              RX packets 177 bytes 12888 (12.5 KiB)
              RX errors 0 dropped 0 overruns 0 frame 0
              TX packets 2218 bytes 194314 (189.7 KiB)
              TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
      inet 127.0.0.1 netmask 255.0.0.0
          inet6 ::1 prefixlen 128 scopeid 0x10<host>
            loop txqueuelen 1000 (Local Loopback)
              RX packets 0 bytes 0 (0.0 B)
              RX errors 0 dropped 0 overruns 0 frame 0
              TX packets 0 bytes 0 (0.0 B)
              TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

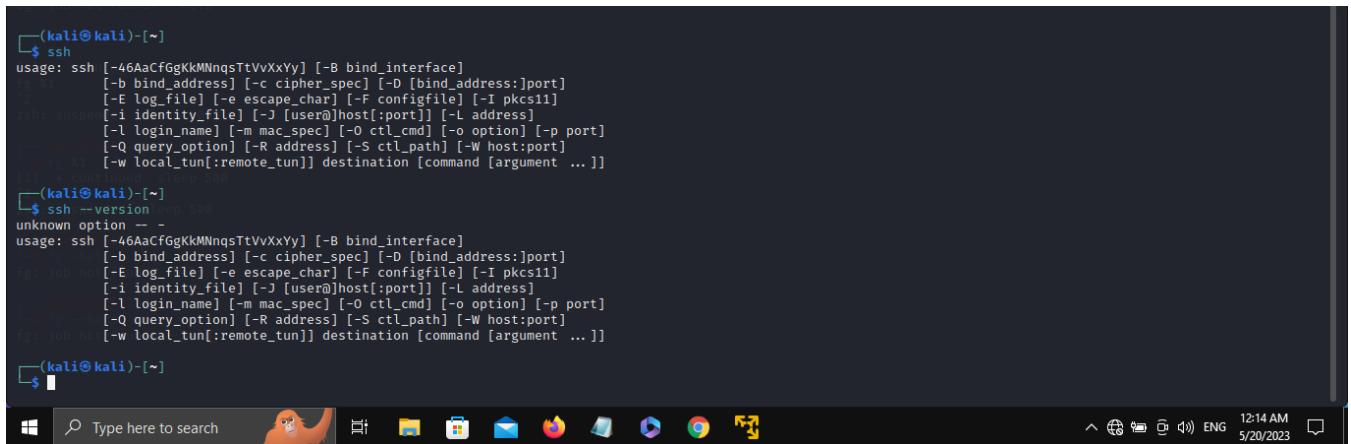
(kali㉿kali)-[~]
$ ping -c 1 192.168.50.129
ping: job not found: --help
ping: job not found: -c
ping: job not found: 1
ping: job not found: 192.168.50.129

(kali㉿kali)-[~]
```

ping: Send ICMP echo requests to a network host

```
(kali㉿kali)-[~]
$ ping 192.168.50.129
PING 192.168.50.129 (192.168.50.129) 56(84) bytes of data.
64 bytes from 192.168.50.129: icmp_seq=1 ttl=64 time=3.49 ms
64 bytes from 192.168.50.129: icmp_seq=2 ttl=64 time=0.645 ms
64 bytes from 192.168.50.129: icmp_seq=3 ttl=64 time=0.898 ms
64 bytes from 192.168.50.129: icmp_seq=4 ttl=64 time=0.735 ms
64 bytes from 192.168.50.129: icmp_seq=5 ttl=64 time=0.666 ms
64 bytes from 192.168.50.129: icmp_seq=6 ttl=64 time=0.644 ms
64 bytes from 192.168.50.129: icmp_seq=7 ttl=64 time=0.666 ms
64 bytes from 192.168.50.129: icmp_seq=8 ttl=64 time=1.50 ms
64 bytes from 192.168.50.129: icmp_seq=9 ttl=64 time=1.81 ms
64 bytes from 192.168.50.129: icmp_seq=10 ttl=64 time=0.674 ms
64 bytes from 192.168.50.129: icmp_seq=11 ttl=64 time=0.759 ms
64 bytes from 192.168.50.129: icmp_seq=12 ttl=64 time=0.725 ms
64 bytes from 192.168.50.129: icmp_seq=13 ttl=64 time=0.735 ms
64 bytes from 192.168.50.129: icmp_seq=14 ttl=64 time=0.695 ms
64 bytes from 192.168.50.129: icmp_seq=15 ttl=64 time=0.691 ms
64 bytes from 192.168.50.129: icmp_seq=16 ttl=64 time=0.778 ms
64 bytes from 192.168.50.129: icmp_seq=17 ttl=64 time=1.80 ms
64 bytes from 192.168.50.129: icmp_seq=18 ttl=64 time=8.23 ms
64 bytes from 192.168.50.129: icmp_seq=19 ttl=64 time=0.743 ms
64 bytes from 192.168.50.129: icmp_seq=20 ttl=64 time=0.757 ms
64 bytes from 192.168.50.129: icmp_seq=21 ttl=64 time=0.725 ms
64 bytes from 192.168.50.129: icmp_seq=22 ttl=64 time=5.47 ms
64 bytes from 192.168.50.129: icmp_seq=23 ttl=64 time=1.02 ms
64 bytes from 192.168.50.129: icmp_seq=24 ttl=64 time=0.968 ms
64 bytes from 192.168.50.129: icmp_seq=25 ttl=64 time=0.672 ms
64 bytes from 192.168.50.129: icmp_seq=26 ttl=64 time=0.723 ms
64 bytes from 192.168.50.129: icmp_seq=27 ttl=64 time=1.40 ms
64 bytes from 192.168.50.129: icmp_seq=28 ttl=64 time=0.802 ms
64 bytes from 192.168.50.129: icmp_seq=29 ttl=64 time=1.19 ms
64 bytes from 192.168.50.129: icmp_seq=30 ttl=64 time=0.697 ms
64 bytes from 192.168.50.129: icmp_seq=31 ttl=64 time=0.722 ms
64 bytes from 192.168.50.129: icmp_seq=32 ttl=64 time=0.985 ms
```

ssh: Securely connect to a remote system

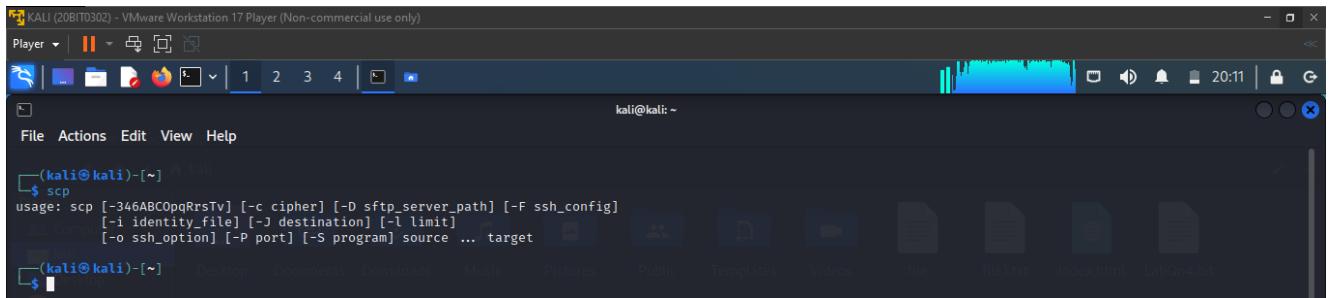


```
(kali㉿kali)-[~]
$ ssh
usage: ssh [-46AaCfGgKkMNnqsTtVvXxYy] [-B bind_interface]
           [-b bind_address] [-c cipher_spec] [-D [bind_address:]port]
           [-E log_file] [-e escape_char] [-F configFile] [-I pkcs11]
           [-i identity_file] [-J [user@]host[:port]] [-L address]
           [-l login_name] [-m mac_spec] [-O ctl_cmd] [-o option] [-p port]
           [-Q query_option] [-R address] [-S ctl_path] [-W host:port]
           [-w local_tun[:remote_tun]] destination [command [argument ... ]]

(kali㉿kali)-[~]
$ ssh --version
unknown option -- -
usage: ssh [-46AaCfGgKkMNnqsTtVvXxYy] [-B bind_interface]
           [-b bind_address] [-c cipher_spec] [-D [bind_address:]port]
           [-E log_file] [-e escape_char] [-F configFile] [-I pkcs11]
           [-i identity_file] [-J [user@]host[:port]] [-L address]
           [-l login_name] [-m mac_spec] [-O ctl_cmd] [-o option] [-p port]
           [-Q query_option] [-R address] [-S ctl_path] [-W host:port]
           [-w local_tun[:remote_tun]] destination [command [argument ... ]]

(kali㉿kali)-[~]
$
```

scp: Securely copy files between systems

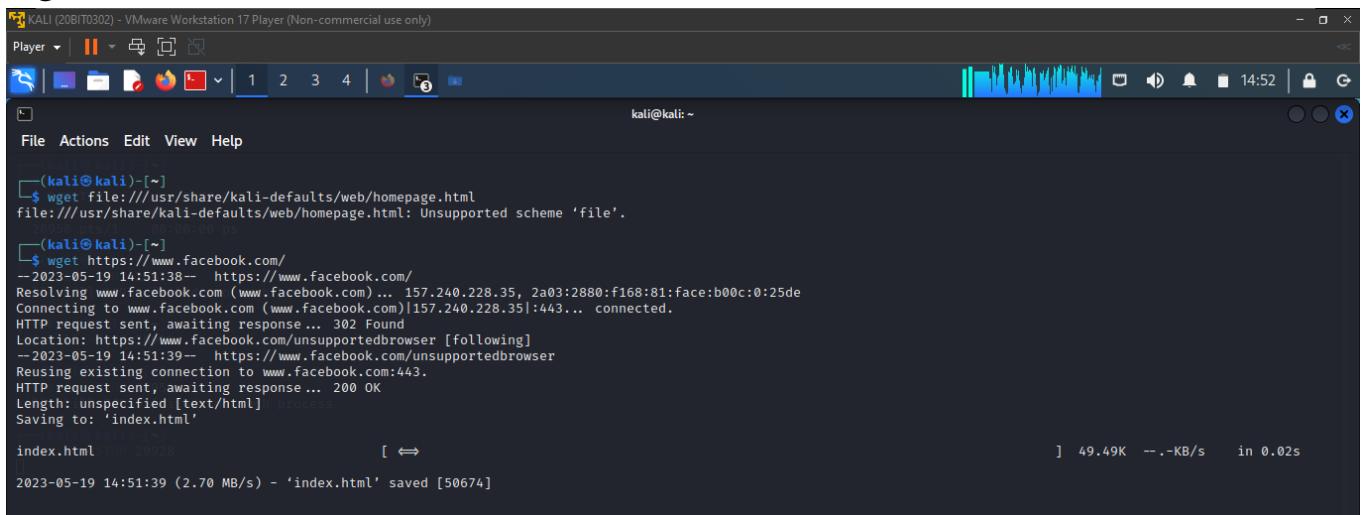


```
KALI (20BIT0302) - VMware Workstation 17 Player (Non-commercial use only)
Player | ||| | ↻
File Actions Edit View Help
kali@kali: ~

(kali㉿kali)-[~]
$ scp
usage: scp [-346ABCOpqRrsTv] [-c cipher] [-D sftp_server_path] [-F ssh_config]
           [-i identity_file] [-J destination] [-l limit]
           [-o ssh_option] [-P port] [-S program] source ... target

(kali㉿kali)-[~]
```

wget: Download files from the web



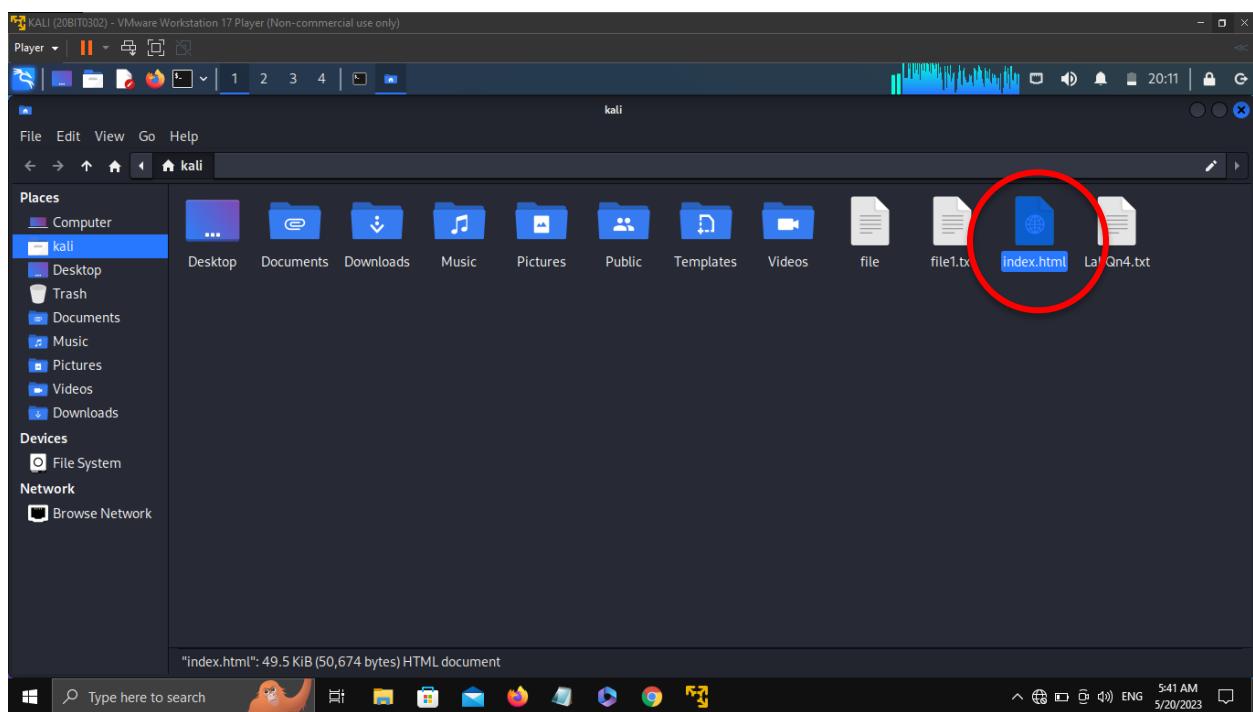
```
KALI (20BIT0302) - VMware Workstation 17 Player (Non-commercial use only)
Player | ||| | ↻
File Actions Edit View Help
kali@kali: ~

(kali㉿kali)-[~]
$ wget file:///usr/share/kali-defaults/web/homepage.html
file:///usr/share/kali-defaults/web/homepage.html: Unsupported scheme 'file'.

(kali㉿kali)-[~]
$ wget https://www.facebook.com/
--2023-05-19 14:51:38-- https://www.facebook.com/
Resolving www.facebook.com (www.facebook.com)... 157.240.228.35, 2a03:2880:f168:81:face:b00c:0:25de
Connecting to www.facebook.com (www.facebook.com)|157.240.228.35|:443... connected.
HTTP request sent, awaiting response ... 302 Found
Location: https://www.facebook.com/unsupportedbrowser [following]
--2023-05-19 14:51:39-- https://www.facebook.com/unsupportedbrowser
Reusing existing connection to www.facebook.com:443.
HTTP request sent, awaiting response ... 200 OK
Length: unspecified [text/html] (process
Saving to: 'index.html'

index.html [ <=> ] 49.49K --.-KB/s in 0.02s
2023-05-19 14:51:39 (2.70 MB/s) - 'index.html' saved [50674]
```

Downloaded File location:



System Administration:

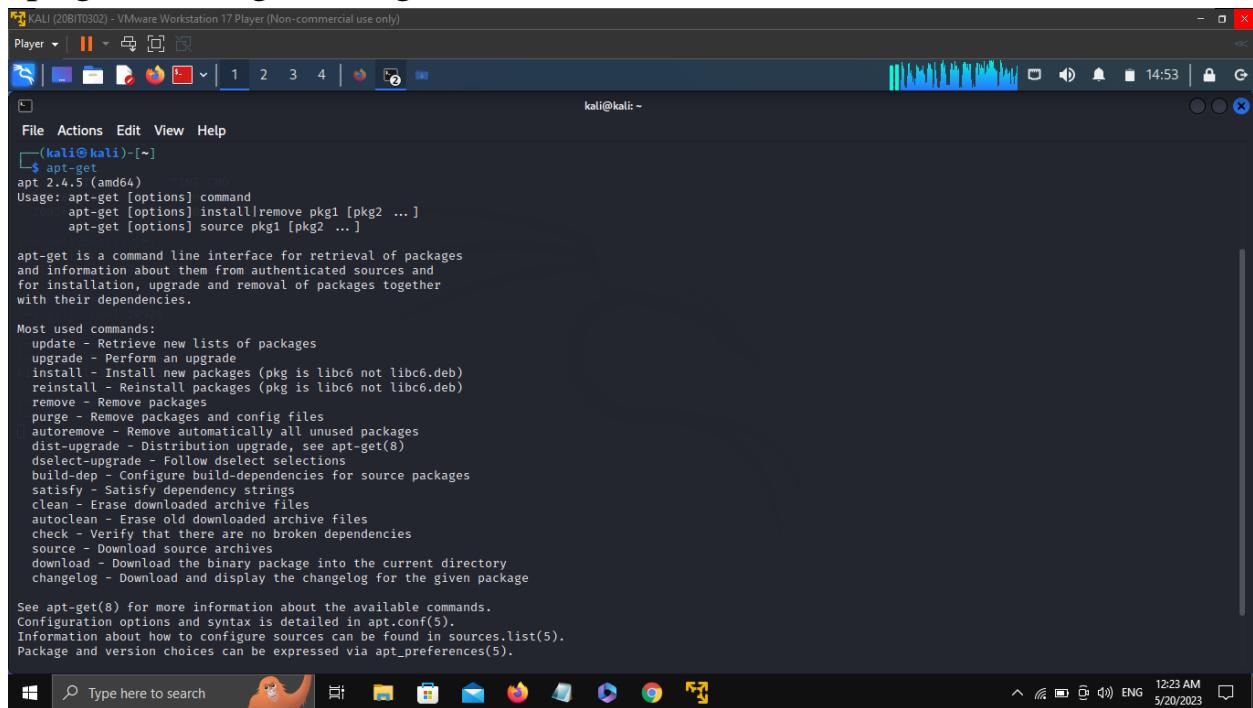
sudo: Execute commands with superuser privileges

```

$ sudo
usage: sudo -h | -K | -k | -
usage: sudo -v [-ABknS] [-g group] [-h host] [-p prompt] [-u user]
usage: sudo -l [-ABknS] [-g group] [-h host] [-p prompt] [-U user] [-u user] [command]
usage: sudo [-ABbhknPS] [-r role] [-t type] [-C num] [-D directory] [-g group] [-h host] [-p prompt] [-R directory] [-T timeout] [-u user] [VAR=value] [-i|-s] [<command>]
usage: sudo -e [-ABknS] [-r role] [-t type] [-C num] [-D directory] [-g group] [-h host] [-p prompt] [-R directory] [-T timeout] [-u user] file ...
$ 

```

apt-get: Package management for Debian-based distributions



```
kali (20bit0302) - VMware Workstation 17 Player (Non-commercial use only)
Player | II | ↻ | 🖼 | 1 2 3 4 | 🌐 | 🎨 | 14:53 | 🔒 | G |
File Actions Edit View Help
(kali㉿kali)-[~]
$ apt-get
apt 2.4.5 (amd64)
Usage: apt-get [options] command
      apt-get [options] install|remove pkg1 [pkg2 ...]
      apt-get [options] source pkg1 [pkg2 ...]

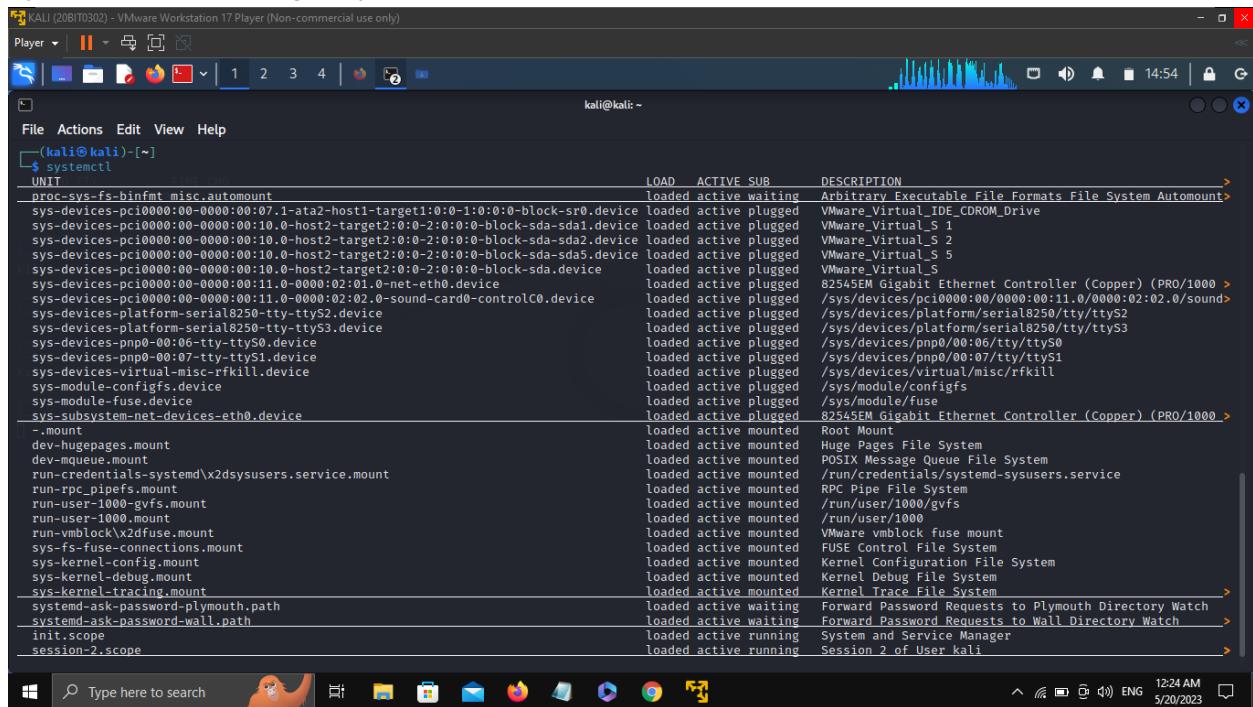
apt-get is a command line interface for retrieval of packages
and information about them from authenticated sources and
for installation, upgrade and removal of packages together
with their dependencies.

Most used commands:
update - Retrieve new lists of packages
upgrade - Perform an upgrade
install - Install new packages (pkg is libc6 not libc6.deb)
reinstall - Reinstall packages (pkg is libc6 not libc6.deb)
remove - Remove packages
purge - Remove packages and config files
autoremove - Remove automatically all unused packages
dist-upgrade - Distribution upgrade, see apt-get(8)
dselect-upgrade - Follow dselect selections
build-dep - Configure build-dependencies for source packages
satisfy - Satisfy dependency strings
clean - Erase downloaded archive files
autoclean - Erase old downloaded archive files
check - Verify that there are no broken dependencies
source - Download source archives
download - Download the binary package into the current directory
changelog - Download and display the changelog for the given package

See apt-get(8) for more information about the available commands.
Configuration options and syntax is detailed in apt.conf(5).
Information about how to configure sources can be found in sources.list(5).
Package and version choices can be expressed via apt_preferences(5).

Windows Taskbar: Type here to search | 🦸‍♂️ | 📁 | 📤 | 📧 | 🚙 | 🚧 | 🚩 | 🚭 | 🚪 | ENG | 12:23 AM | 5/20/2023
```

systemctl: Manage system services



```
kali (20bit0302) - VMware Workstation 17 Player (Non-commercial use only)
Player | II | ↻ | 🖼 | 1 2 3 4 | 🌐 | 🎨 | 14:54 | 🔒 | G |
File Actions Edit View Help
(kali㉿kali)-[~]
$ systemctl
UNIT                                     LOAD ACTIVE SUB-DESCRIPTION
proc-sys-fs-binfmt_misc.automount          loaded active waiting Arbitrary Executable File Formats File System Automount
sys-devices-pci0000:00-0000:00:07.1-ata2-host1-target1:0:0-1:0:0-block-sr0.device loaded active plugged VMware_Virtual_IDE_CDROM_Drive
sys-devices-pci0000:00-0000:00:10.0-host2-target2:0:0-2:0:0-block-sda-sd1.device loaded active plugged VMware_Virtual_S_1
sys-devices-pci0000:00-0000:00:10.0-host2-target2:0:0-2:0:0-block-sda-sd2.device loaded active plugged VMware_Virtual_S_2
sys-devices-pci0000:00-0000:00:10.0-host2-target2:0:0-2:0:0-block-sda-sd4.device loaded active plugged VMware_Virtual_S_5
sys-devices-pci0000:00-0000:00:11.0-net-eth0.device loaded active plugged VMware_Virtual_S
sys-devices-pci10000:00-0000:00:11.0-0000:02:01.0-net-eth0.device loaded active plugged 82545EM Gigabit Ethernet Controller (Copper) (PRO/1000 >
sys-devices-pci10000:00-0000:00:11.0-0000:02:02.0-sound-card0-controlC0.device loaded active plugged /sys/devices/pci0000:00/0000:00:11.0-0000:02:02.0/sound>
sys-devices-platform-serial8250-tty-ttyS2.device loaded active plugged /sys/devices/platform/serial8250/tty/ttyS2
sys-devices-platform-serial8250-tty-ttyS3.device loaded active plugged /sys/devices/platform/serial8250/tty/ttyS3
sys-devices-pnp0-00:06-tty-ttyS0.device loaded active plugged /sys/devices/pnp0/00:06/tty/ttyS0
sys-devices-pnp0-00:07-tty-ttyS1.device loaded active plugged /sys/devices/pnp0/00:07/tty/ttyS1
sys-devices-virtual-misc-rfkill.device loaded active plugged /sys/devices/virtual/misc/rfkill
sys-module-configs.device loaded active plugged /sys/module/configfs
sys-module-fuse.device loaded active plugged /sys/module/fuse
sys-subsystem-net-devices-eth0.device loaded active plugged 82545EM Gigabit Ethernet Controller (Copper) (PRO/1000 >
- .mount loaded active mounted Root Mount
dev-hugepages.mount loaded active mounted Huge Pages File System
dev-mqueue.mount loaded active mounted POSIX Message Queue File System
run-credentials-systemd\x2dsysusers.service.mount loaded active mounted /run/credentials/systemd-sysusers.service
run-rpc-pipefs.mount loaded active mounted RPC Pipe File System
run-user-1000-gvfs.mount loaded active mounted /run/user/1000/gvfs
run-user-1000.mount loaded active mounted /run/user/1000
run-vmblock\x2dfuse.mount loaded active mounted VMware vmblock fuse mount
sys-fs-fuse-connections.mount loaded active mounted FUSE Control File System
sys-kernel-config.mount loaded active mounted Kernel Configuration File System
sys-kernel-debug.mount loaded active mounted Kernel Debug File System
sys-kernel-tracing.mount loaded active mounted Kernel Trace File System
systemd-ask-password-plymouth.path loaded active waiting Forward Password Requests to Plymouth Directory Watch
systemd-ask-password-wall.path loaded active waiting Forward Password Requests to Wall Directory Watch
init.scope loaded active running System and Service Manager
session-2.scope loaded active running Session 2 of User kali

Windows Taskbar: Type here to search | 🦸‍♂️ | 📁 | 📤 | 📧 | 🚙 | 🚧 | 🚩 | 🚭 | 🚪 | ENG | 12:24 AM | 5/20/2023
```

crontab: Schedule recurring tasks

KALI (20BIT0302) - VMware Workstation 17 Player (Non-commercial use only)

Player | [] 1 2 3 4 | []

kali@kali: ~

File Actions Edit View Help

```
(kali㉿kali)-[~] touch file or directory
$ crontab -e
no crontab for kali - using an empty one

Select an editor. To change later, run 'select-editor'.
1. /bin/nano   ← easiest
2. /usr/bin/vim.basic
3. /usr/bin/vim.tiny

Choose 1-3 [1]: 1
No modification made

(kali㉿kali)-[~]: touch file or directory
$ 
$ error is not recoverable: exiting now

(kali㉿kali)-[~]
$ yum -y install Firefox
Command 'yum' not found, did you mean:
  command 'num' from deb quickal
  command 'lum' from deb corotulis
  command 'uum' from deb freewm-uiserver
  command 'zum' from deb perforate
Try: apt install <deb name>

(kali㉿kali)-[~]
$ sudo yum -y install Firefox
sudo: yum: command not found

(kali㉿kali)-[~]
$ sudo yum -y install Firefox
$ Invalid operation yum

(kali㉿kali)-[~]
```

Type here to search

Windows icon

File Actions Edit View Help

```
GNU nano 6.2          /tmp/crontab.wQLROu/crontab

Edit this file to introduce tasks to be run by cron.
#
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
#
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
#
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezone.
# Example of jobs:
#       * */20 * * * * command_to_run > /dev/null &
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
#
# For example, you can run a backup of all your user accounts
# at 5 a.m. every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
# command 'tar' from deb corotulis
# For more information see the manual pages of crontab(5) and cron(8)
# command 'tar' from deb perforate
# m h  dom mon dow command

(kali㉿kali)-[~]
$ sudo yum -y install Firefox
sudo: yum: command not found

(kali㉿kali)-[~]
$ sudo yum -y install Firefox
$ Invalid operation yum
```

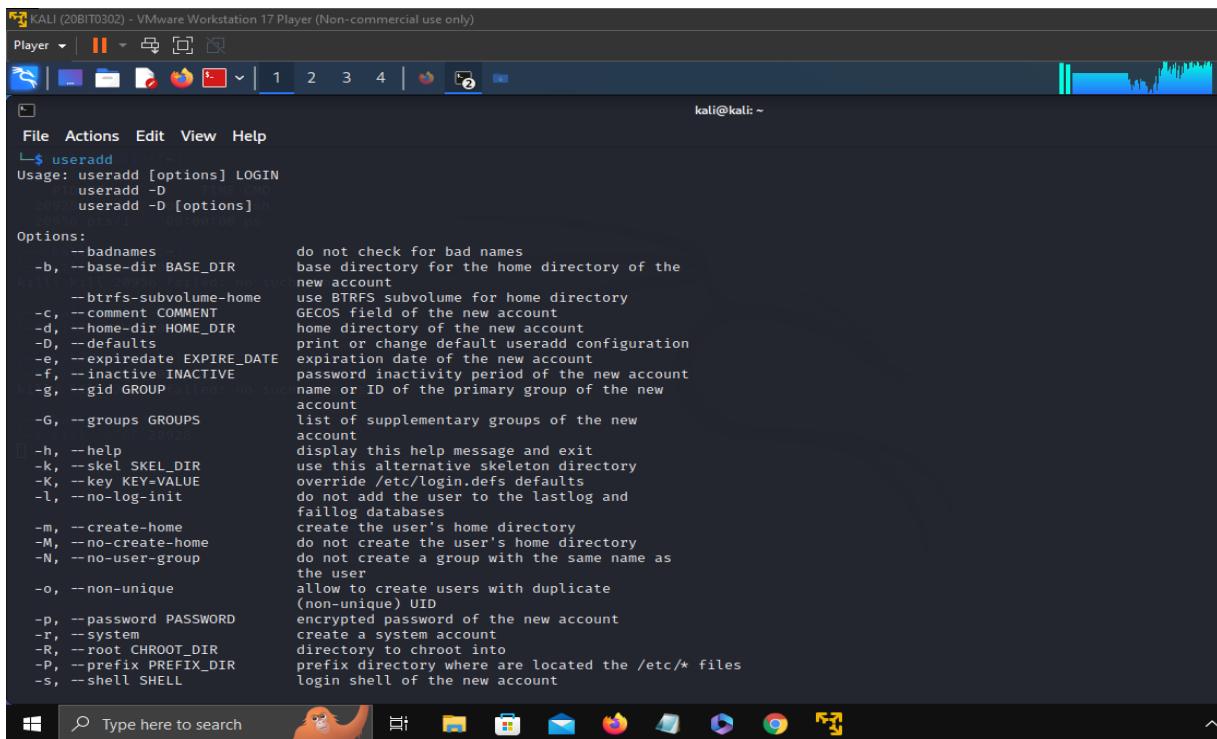
File Actions Edit View Help

Help Exit Write Out Read File Where Is Replace Cut Paste Execute Justify Location Go To Line Undo Set Mark To Bracket Where Was Previous Next

Type here to search

Windows icon

useradd: Add a new user



KALI (20BIT0302) - VMware Workstation 17 Player (Non-commercial use only)

Player | || | 1 2 3 4 |

kali@kali: ~

File Actions Edit View Help

```
└$ useradd --
```

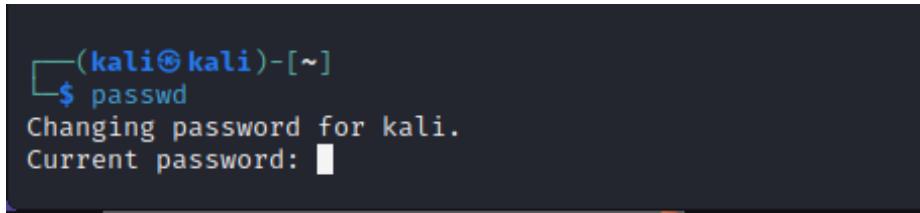
Usage: useradd [options] LOGIN
 useradd -D TIME_CMD
 useradd -D [options]

Options:

--badnames	do not check for bad names
-b, --base-dir BASE_DIR	base directory for the home directory of the new account
--btrfs-subvolume-home	use BTRFS subvolume for home directory
-c, --comment COMMENT	GECOS field of the new account
-d, --home-dir HOME_DIR	home directory of the new account
-D, --defaults	print or change default useradd configuration
-e, --expiredate EXPIRE_DATE	expiration date of the new account
-f, --inactive INACTIVE	password inactivity period of the new account
-g, --gid GROUP	name or ID of the primary group of the new account
-G, --groups GROUPS	list of supplementary groups of the new account
-h, --help	display this help message and exit
-k, --skel SKELETON_DIR	use this alternative skeleton directory
-K, --key KEY=VALUE	override /etc/login.defs defaults
-l, --no-log-init	do not add the user to the lastlog and faillog databases
-m, --create-home	create the user's home directory
-M, --no-create-home	do not create the user's home directory
-N, --no-user-group	do not create a group with the same name as the user
-o, --non-unique	allow to create users with duplicate (non-unique) UID
-p, --password PASSWORD	encrypted password of the new account
-r, --system	create a system account
-R, --root CHROOT_DIR	directory to chroot into
-P, --prefix PREFIX_DIR	prefix directory where are located the /etc/* files
-s, --shell SHELL	login shell of the new account

Windows Start Type here to search

passwd: Change user password



```
(kali㉿kali)-[~]
```

```
$ passwd
```

Changing password for kali.

Current password: █