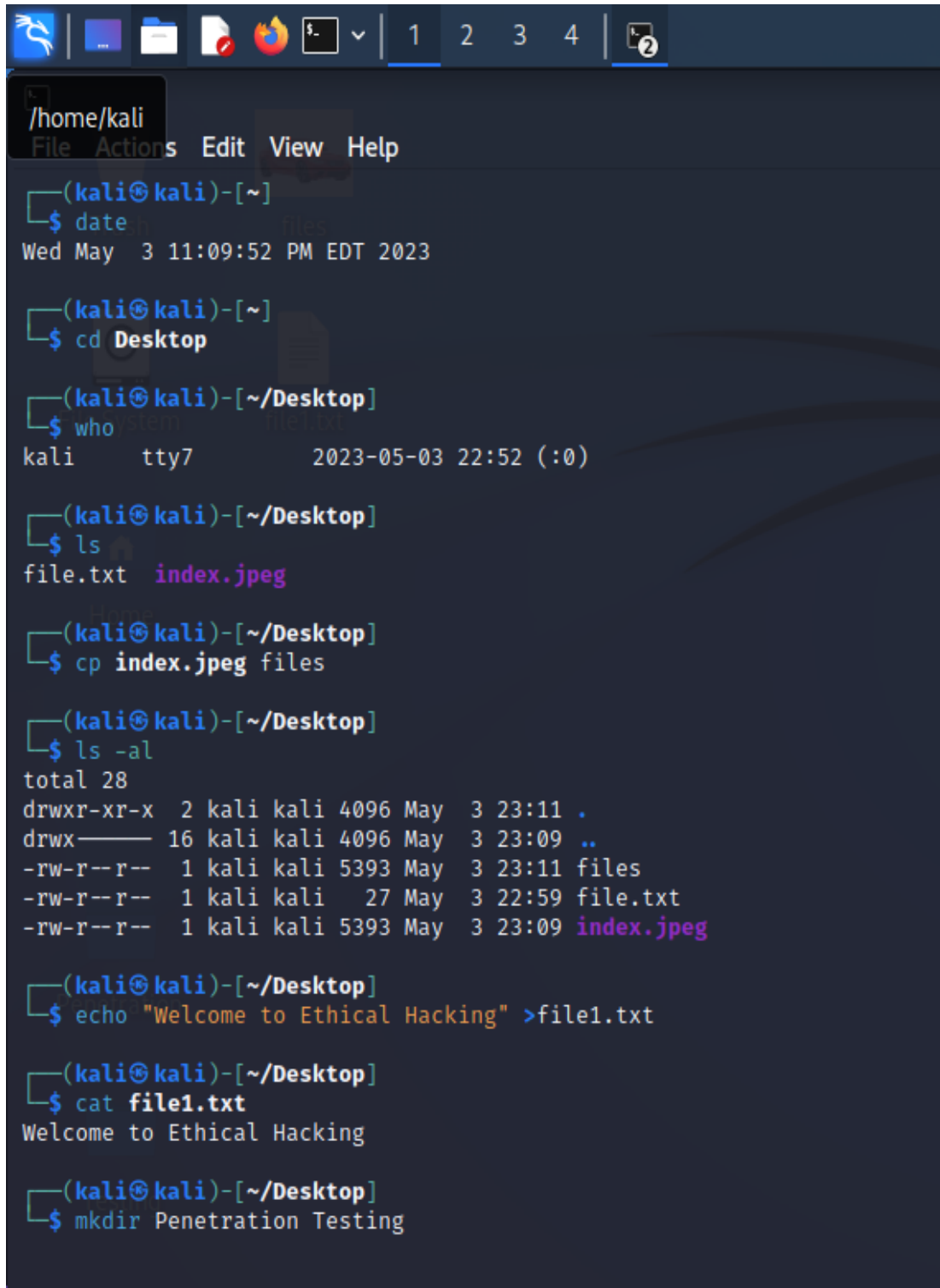


ETHICAL HACKING

EXPERIMENT 1 (BASIC COMMANDS)

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```
(kali㉿kali)-[~]
$ date
Wed May  3 11:09:52 PM EDT 2023

(kali㉿kali)-[~]
$ cd Desktop

(kali㉿kali)-[~/Desktop]
$ who
kali      tty7      2023-05-03 22:52 (:0)

(kali㉿kali)-[~/Desktop]
$ ls
file.txt  index.jpeg

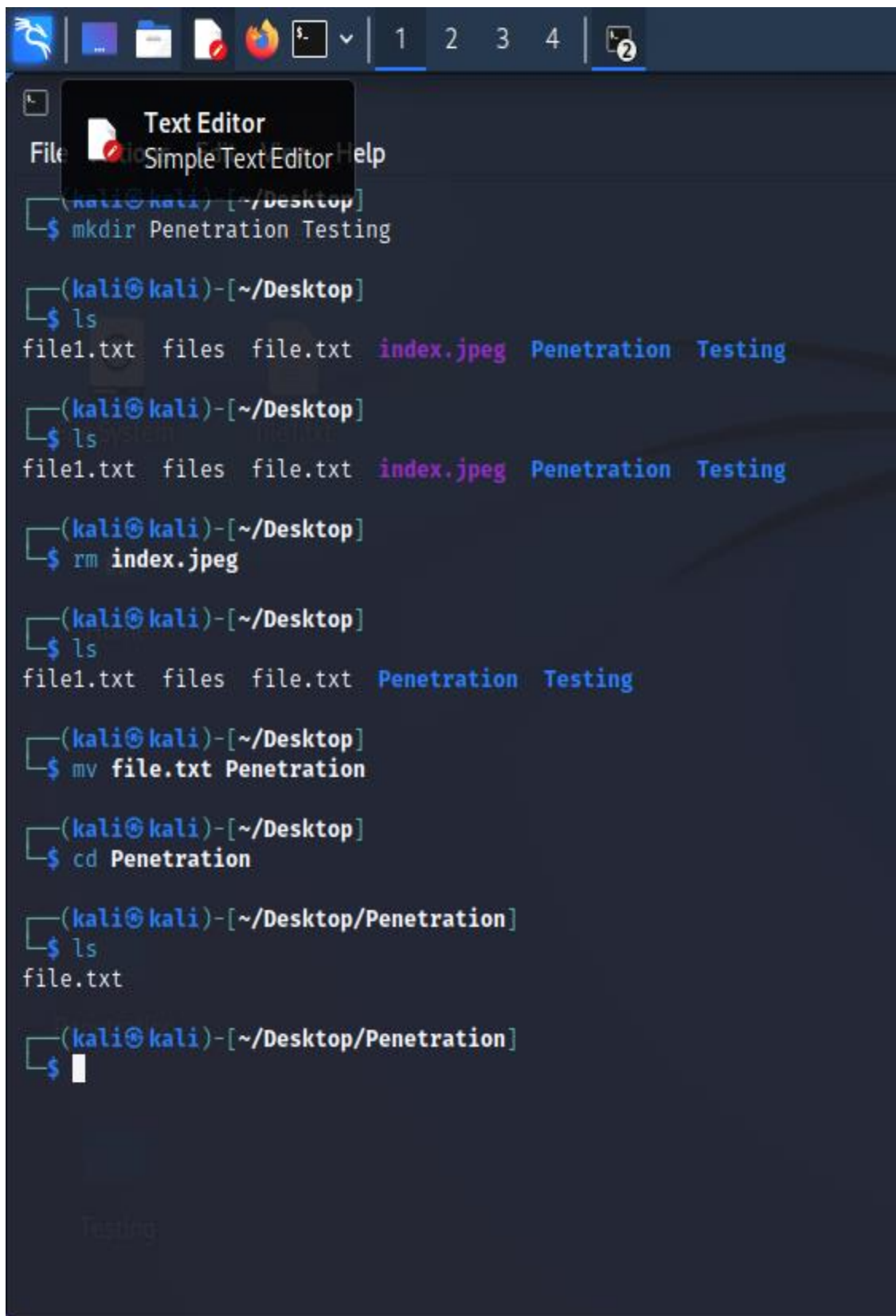
(kali㉿kali)-[~/Desktop]
$ cp index.jpeg files

(kali㉿kali)-[~/Desktop]
$ ls -al
total 28
drwxr-xr-x  2 kali kali 4096 May  3 23:11 .
drwx----- 16 kali kali 4096 May  3 23:09 ..
-rw-r--r--  1 kali kali 5393 May  3 23:11 files
-rw-r--r--  1 kali kali   27 May  3 22:59 file.txt
-rw-r--r--  1 kali kali 5393 May  3 23:09 index.jpeg

(kali㉿kali)-[~/Desktop]
$ echo "Welcome to Ethical Hacking" >file1.txt

(kali㉿kali)-[~/Desktop]
$ cat file1.txt
Welcome to Ethical Hacking

(kali㉿kali)-[~/Desktop]
$ mkdir Penetration Testing
```



A terminal window in Kali Linux with a dark blue background. The window has a title bar with icons for a terminal, file manager, and other applications. The terminal shows a series of commands and their outputs. A 'Text Editor' window is open in the background, showing a 'Simple Text Editor' with a 'File' menu and a 'Help' button. The terminal commands and outputs are as follows:

```
(kali@kali) - [~/Desktop]
$ mkdir Penetration Testing

(kali@kali) - [~/Desktop]
$ ls
file1.txt  files  file.txt  index.jpeg  Penetration  Testing

(kali@kali) - [~/Desktop]
$ ls
file1.txt  files  file.txt  index.jpeg  Penetration  Testing

(kali@kali) - [~/Desktop]
$ rm index.jpeg

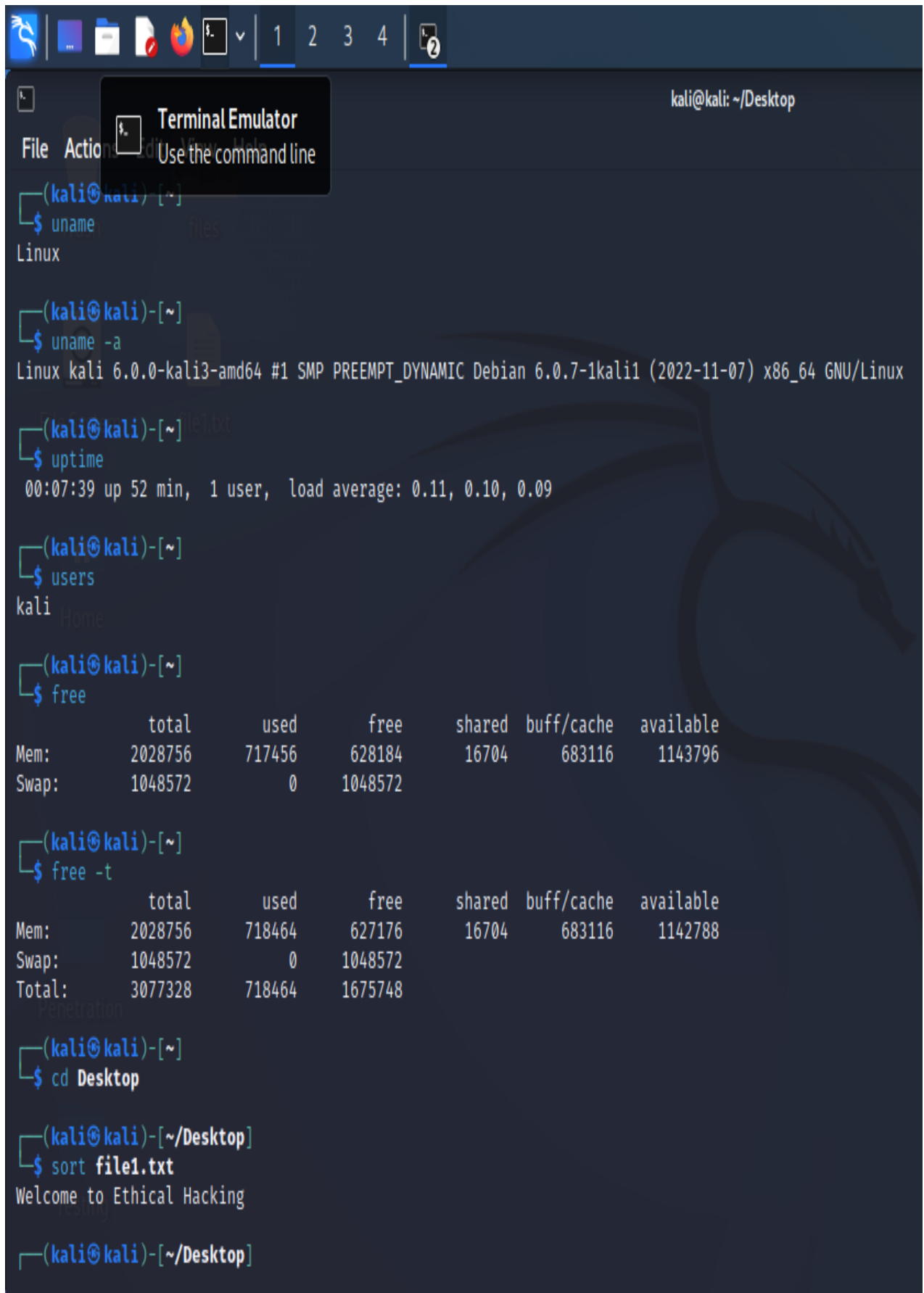
(kali@kali) - [~/Desktop]
$ ls
file1.txt  files  file.txt  Penetration  Testing

(kali@kali) - [~/Desktop]
$ mv file.txt Penetration

(kali@kali) - [~/Desktop]
$ cd Penetration

(kali@kali) - [~/Desktop/Penetration]
$ ls
file.txt

(kali@kali) - [~/Desktop/Penetration]
$
```



The image shows a Kali Linux desktop environment with a terminal emulator window open. The window title is "Terminal Emulator" and the address bar shows "kali@kali: ~/Desktop". The terminal displays the following commands and outputs:

```
(kali@kali) [~]
$ uname
Linux

(kali@kali) [~]
$ uname -a
Linux kali 6.0.0-kali3-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.0.7-1kali1 (2022-11-07) x86_64 GNU/Linux

(kali@kali) [~]
$ uptime
00:07:39 up 52 min,  1 user,  load average: 0.11, 0.10, 0.09

(kali@kali) [~]
$ users
kali

(kali@kali) [~]
$ free
```

	total	used	free	shared	buff/cache	available
Mem:	2028756	717456	628184	16704	683116	1143796
Swap:	1048572	0	1048572			

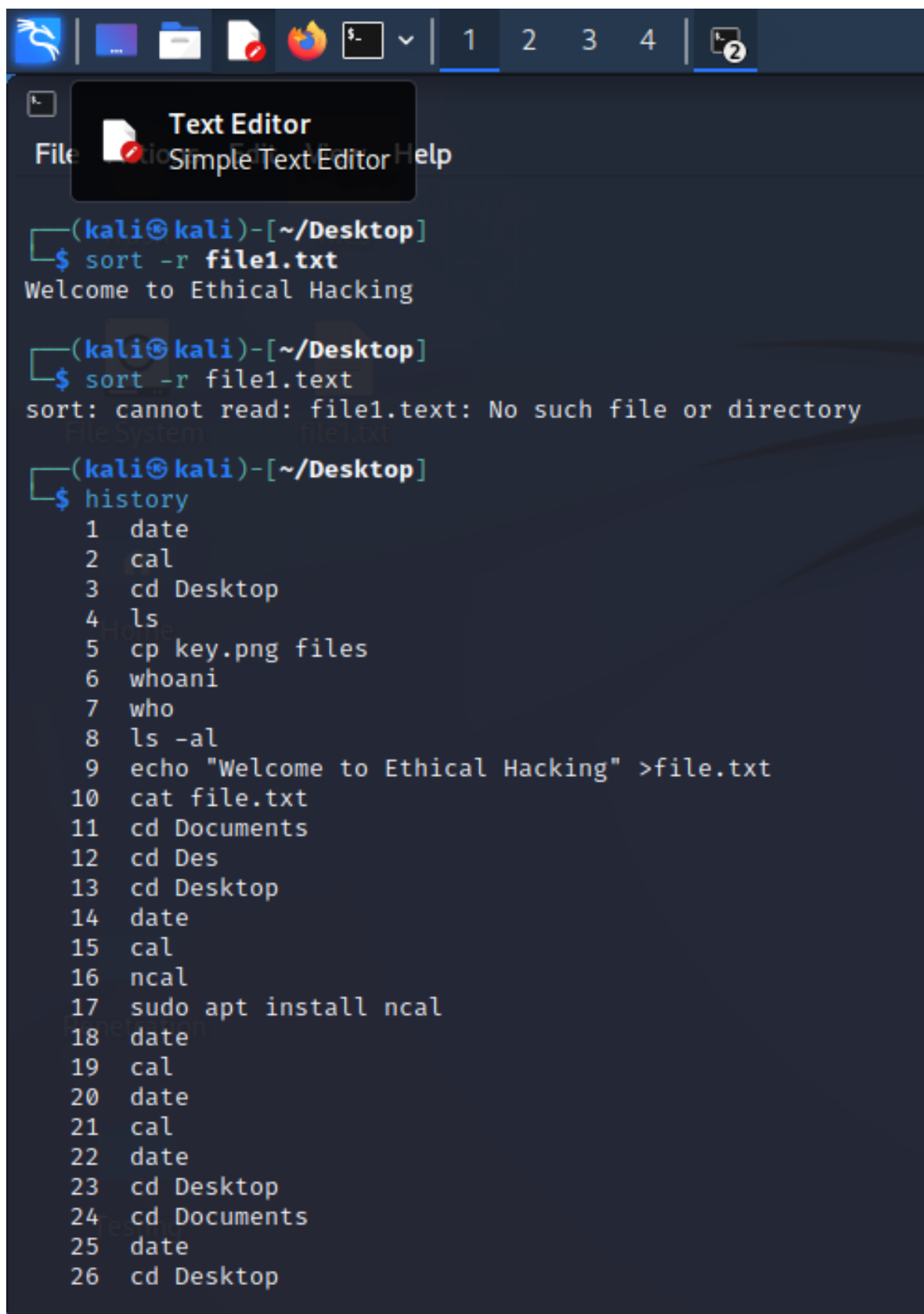
```
(kali@kali) [~]
$ free -t
```

	total	used	free	shared	buff/cache	available
Mem:	2028756	718464	627176	16704	683116	1142788
Swap:	1048572	0	1048572			
Total:	3077328	718464	1675748			

```
(kali@kali) [~]
$ cd Desktop

(kali@kali) [~/Desktop]
$ sort file1.txt
Welcome to Ethical Hacking

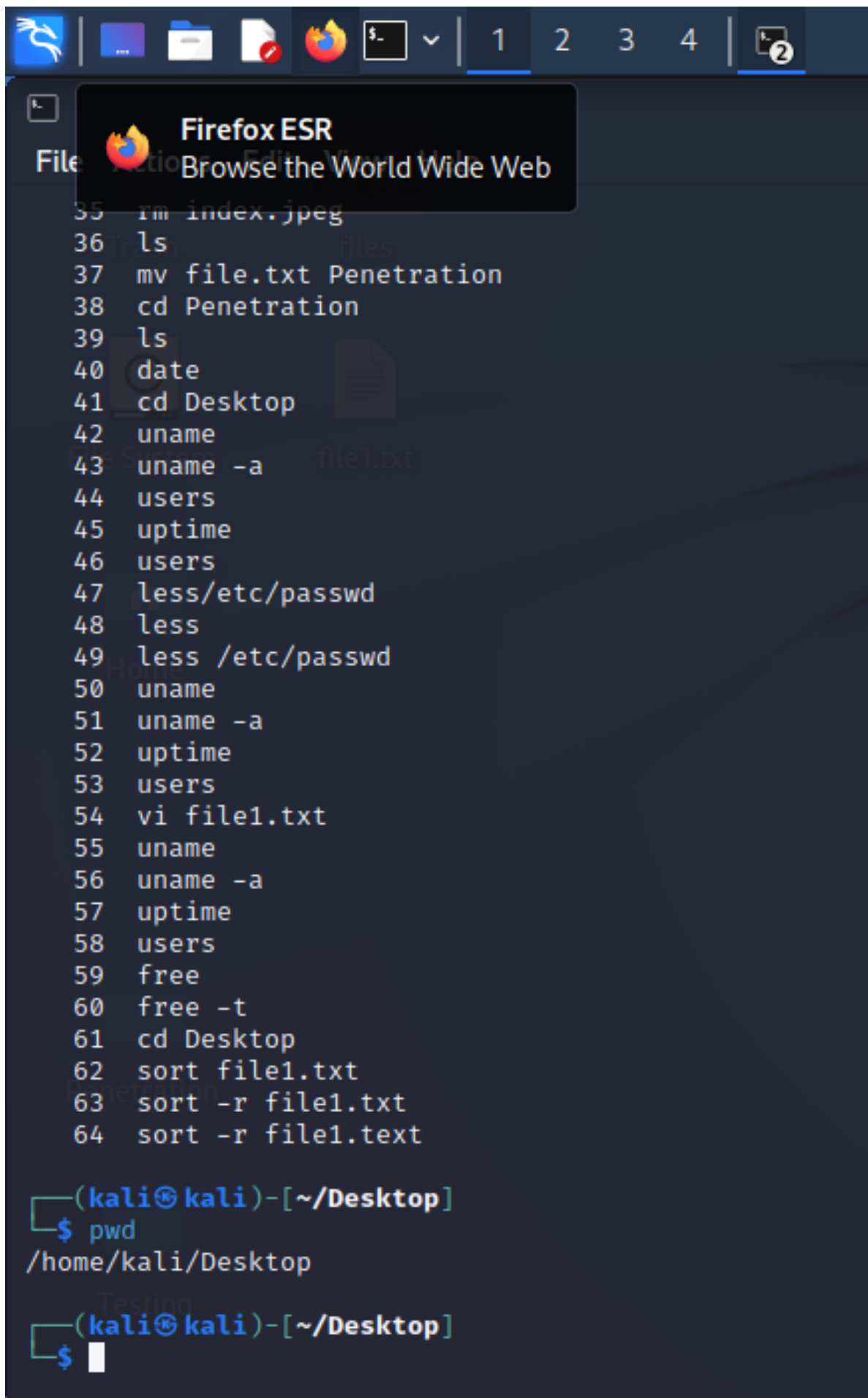
(kali@kali) [~/Desktop]
```



```
(kali㉿kali)-[~/Desktop]
$ sort -r file1.txt
Welcome to Ethical Hacking

(kali㉿kali)-[~/Desktop]
$ sort -r file1.txt
sort: cannot read: file1.txt: No such file or directory

(kali㉿kali)-[~/Desktop]
$ history
1  date
2  cal
3  cd Desktop
4  ls
5  cp key.png files
6  whoami
7  who
8  ls -al
9  echo "Welcome to Ethical Hacking" >file.txt
10 cat file.txt
11 cd Documents
12 cd Des
13 cd Desktop
14 date
15 cal
16 ncal
17 sudo apt install ncal
18 date
19 cal
20 date
21 cal
22 date
23 cd Desktop
24 cd Documents
25 date
26 cd Desktop
```

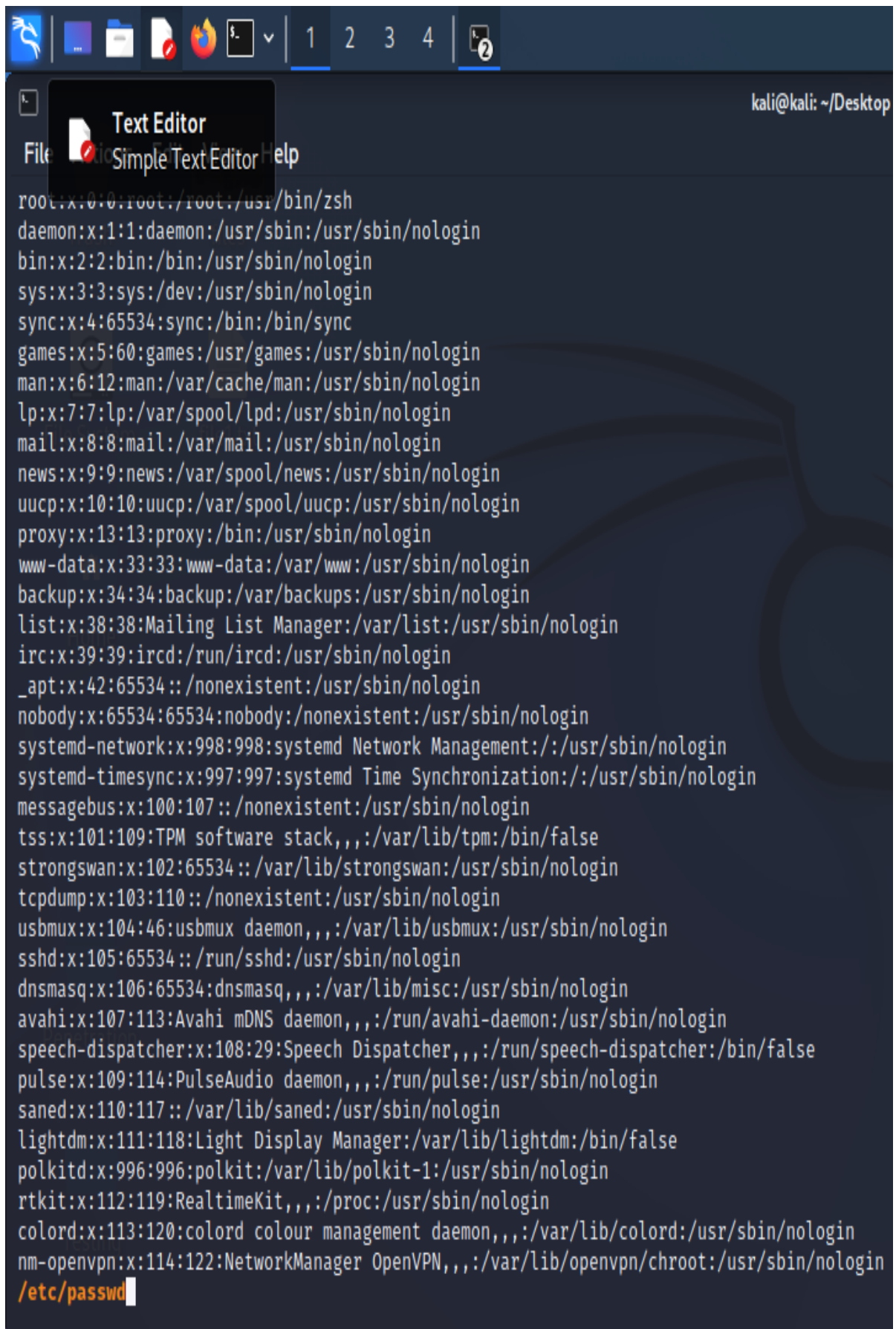


```
35 rm index.jpeg
36 ls
37 mv file.txt Penetration
38 cd Penetration
39 ls
40 date
41 cd Desktop
42 uname
43 uname -a
44 users
45 uptime
46 users
47 less/etc/passwd
48 less
49 less /etc/passwd
50 uname
51 uname -a
52 uptime
53 users
54 vi file1.txt
55 uname
56 uname -a
57 uptime
58 users
59 free
60 free -t
61 cd Desktop
62 sort file1.txt
63 sort -r file1.txt
64 sort -r file1.txt

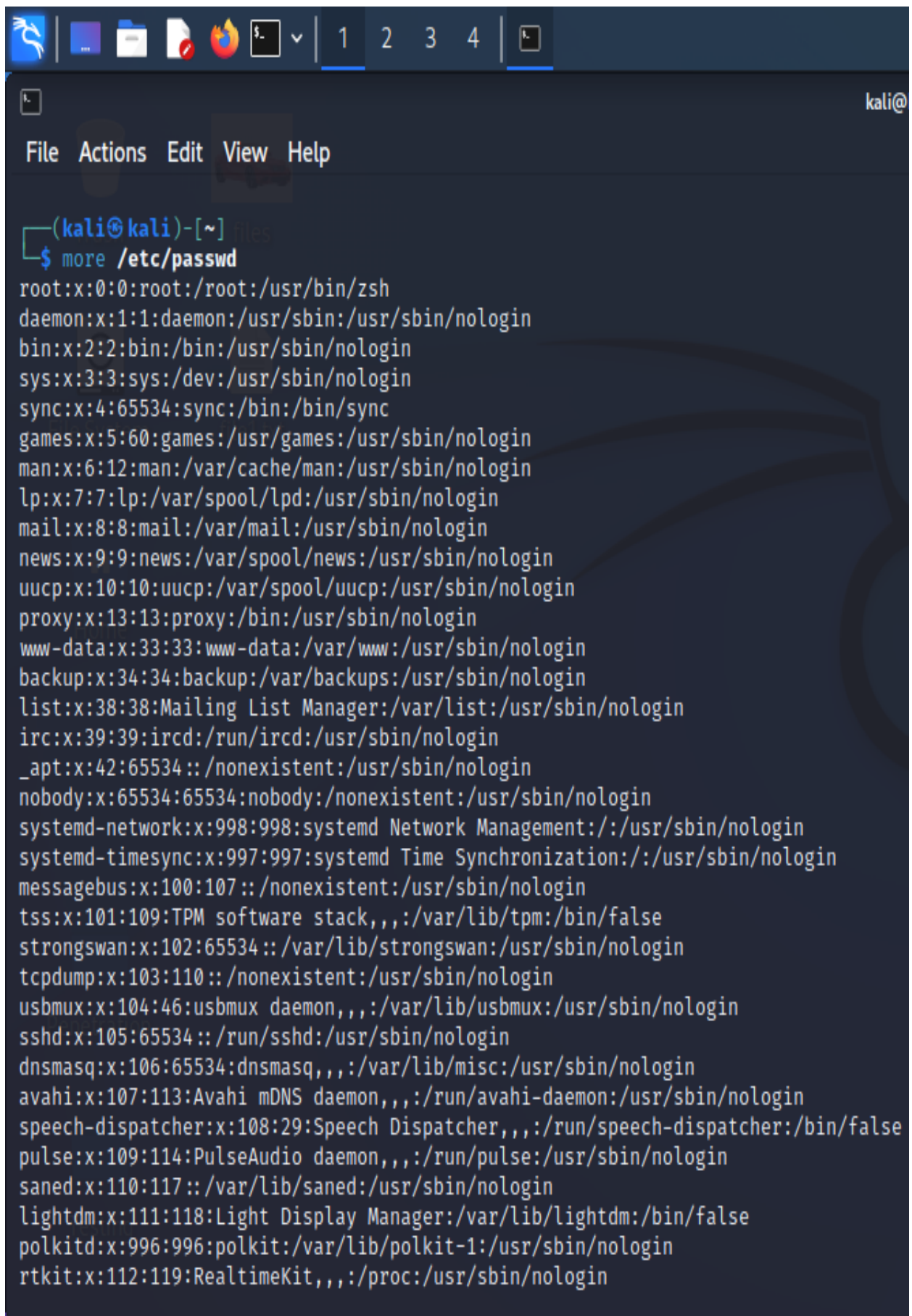
(kali@kali)-[~/Desktop]
$ pwd
/home/kali/Desktop

(kali@kali)-[~/Desktop]
$
```

LESS COMMAND



```
kali@kali: ~/Desktop
Text Editor
File Edit View Settings Help
root:x:0:0:root:/root:/usr/bin/zsh
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
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
_apt:x:42:65534::/nonexistent:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin
systemd-timesync:x:997:997:systemd Time Synchronization:/:/usr/sbin/nologin
messagebus:x:100:107::/nonexistent:/usr/sbin/nologin
tss:x:101:109:TPM software stack,,,:/var/lib/tpm:/bin/false
strongswan:x:102:65534::/var/lib/strongswan:/usr/sbin/nologin
tcpdump:x:103:110::/nonexistent:/usr/sbin/nologin
usbmux:x:104:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
sshd:x:105:65534::/run/sshd:/usr/sbin/nologin
dnsmasq:x:106:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
avahi:x:107:113:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
speech-dispatcher:x:108:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
pulse:x:109:114:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
saned:x:110:117::/var/lib/saned:/usr/sbin/nologin
lightdm:x:111:118:Light Display Manager:/var/lib/lightdm:/bin/false
polkitd:x:996:996:polkit:/var/lib/polkit-1:/usr/sbin/nologin
rtkit:x:112:119:RealtimeKit,,,:/proc:/usr/sbin/nologin
colord:x:113:120:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
nm-openvpn:x:114:122:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
/etc/passwd
```

A terminal window on a Kali Linux system. The window has a title bar with icons for a terminal, a file manager, a web browser, and a terminal. Below the title bar is a menu bar with 'File', 'Actions', 'Edit', 'View', and 'Help'. The terminal prompt is '(kali@kali)-[~]'. The user has entered the command 'more /etc/passwd'. The output shows the contents of the /etc/passwd file, listing system users and their home directories and shells.

```
(kali@kali)-[~]  
$ more /etc/passwd  
root:x:0:0:root:/root:/usr/bin/zsh  
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  
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin  
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin  
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin  
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin  
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin  
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin  
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin  
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin  
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin  
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin  
_apt:x:42:65534::/nonexistent:/usr/sbin/nologin  
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin  
systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin  
systemd-timesync:x:997:997:systemd Time Synchronization:/:/usr/sbin/nologin  
messagebus:x:100:107::/nonexistent:/usr/sbin/nologin  
tss:x:101:109:TPM software stack,,,:/var/lib/tpm:/bin/false  
strongswan:x:102:65534::/var/lib/strongswan:/usr/sbin/nologin  
tcpdump:x:103:110::/nonexistent:/usr/sbin/nologin  
usbmux:x:104:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin  
sshd:x:105:65534::/run/sshd:/usr/sbin/nologin  
dnsmasq:x:106:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin  
avahi:x:107:113:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin  
speech-dispatcher:x:108:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false  
pulse:x:109:114:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin  
saned:x:110:117::/var/lib/saned:/usr/sbin/nologin  
lightdm:x:111:118:Light Display Manager:/var/lib/lightdm:/bin/false  
polkitd:x:996:996:polkit:/var/lib/polkit-1:/usr/sbin/nologin  
rtkit:x:112:119:RealtimeKit,,,:/proc:/usr/sbin/nologin
```

VI COMMAND

