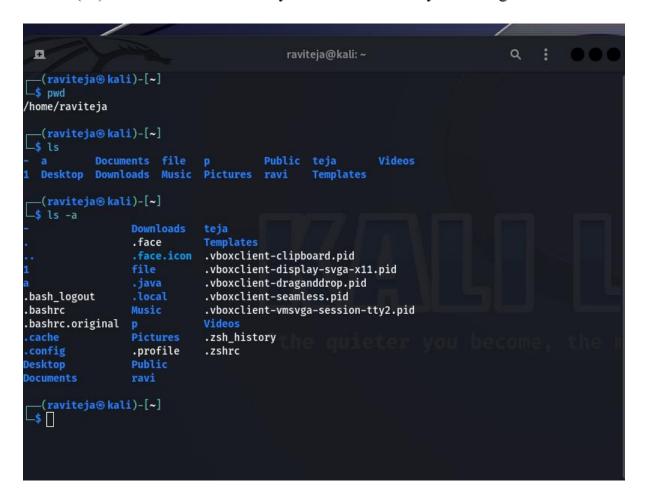
- 1.
- (a.) Display the path of your current directory
- (b.) List out the contents of your current directory
- (c.) List out the contents of your current directory including hidden files

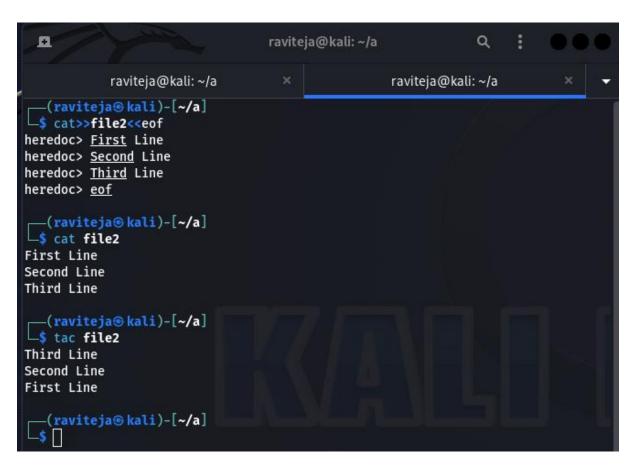


- (a.) Create a new directory named a
- (b.) Move to the newly created directory a
- (c.) Create a blank file named "file1"
- (d.) Display the file type of "file1"
- (e.) Add the line "Hello World" to "file1" using the command
- (f.) Display the contents of "file1"
- (g.) Display the file type of "file1" again

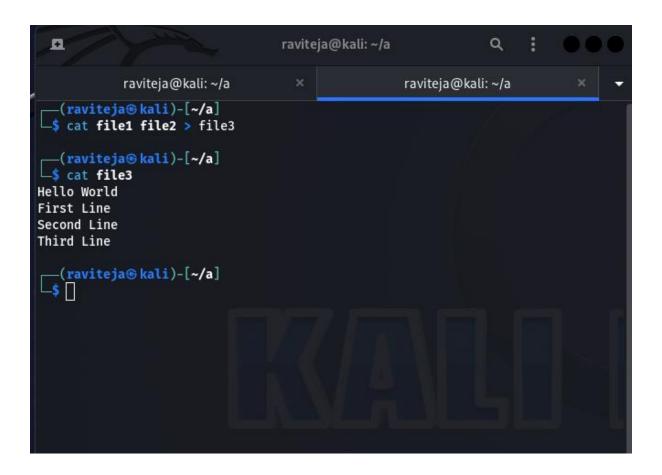
(a.) Stay in directory a. Create a file "file2" and add the contents below using the command cat

First Line Second Line Third Line

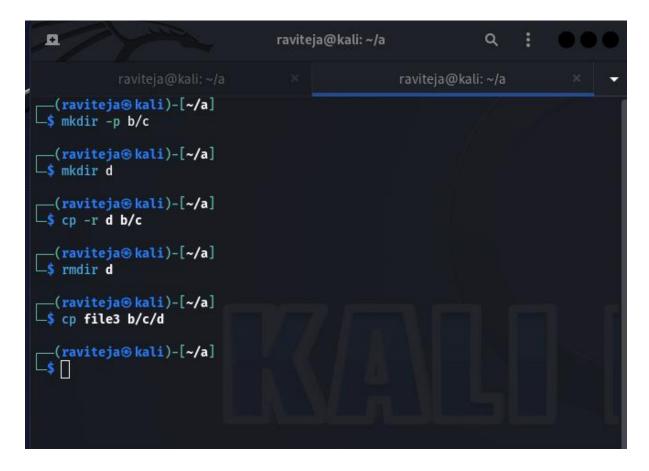
- (b.) Display the contents of "file2"
- (c.) Display the contents of "file2" with the lines reversed



- (a.) Stay in directory a. Concatenate the contents of "file1" and "file2" and save them into a new file "file3"
- (b.) Display the contents of "file3"



- (a.) Stay in directory a. Create 2 directories b/c with a single command
- (b.) Create a new directory d
- (c.) Copy the directory d to directory c using a single command
- (d.) Delete the directory d in the current directory a
- (e.) Copy "file3" to the directory d with a single command



- **6.**
- (a.) Go to directory d and rename "file3" to "file0"
- (b.) Stay in the same directory and move "file0" to directory a

```
(raviteja⊕ kali)-[~/a]
$ mv file3 file0

(raviteja⊕ kali)-[~/a]
$ cd

(raviteja⊕ kali)-[~]
$ mv a/b/c/d/file0 a
```

- (a.) Go to your home directory
- (b.) Create a file named "test" in the directory a/b/c/d
- (c.) Stay in the home directory. Find and display the path of "test"

```
raviteja@kali: ~/a/b

(raviteja@kali)-[~]

(raviteja@kali)-[~]

(raviteja@kali)-[~/a/b/c/d]

(raviteja@kali)-[~/a/b/c/d]

(raviteja@kali)-[~/a/b/c/d]

(raviteja@kali)-[~/a/b/c/d]

(raviteja@kali)-[~/a/b/c/d]
```

- (a.) Go to directory a. Get the man page of grep and save its contents to a file named "grepman.txt"
- (b.) Print the lines containing the word "FILE" (Case sensitive) in the file "grepman.txt"

```
____(raviteja⊕ kali)-[~]
$ cd a

____(raviteja⊕ kali)-[~/a]
$ man grep > grepman.txt

____(raviteja⊕ kali)-[~/a]
$ $ $ $ $ $
```

```
—(raviteja⊛kali)-[~/a]
 —$ man grep|tee grepman.txt
                                    User Commands
                                                                              GREP(1)
GREP(1)
NAME
       grep, egrep, fgrep, rgrep - print lines that match patterns
SYNOPSIS
       grep [OPTION...] PATTERNS [FILE...]
       grep [OPTION...] -e PATTERNS ... [FILE...]
grep [OPTION...] -f PATTERN_FILE ... [FILE...]
DESCRIPTION
       grep searches for PATTERNS in each FILE. PATTERNS is one or more
       patterns separated by newline characters, and grep prints each line
       that matches a pattern. Typically PATTERNS should be quoted when grep
       is used in a shell command.
       A FILE of "-" stands for standard input. If no FILE is given,
       recursive searches examine the working directory, and nonrecursive
       searches read standard input.
       Debian also includes the variant programs egrep, fgrep and rgrep.
       These programs are the same as grep -E, grep -F, and grep -r, respectively. These variants are deprecated upstream, but Debian provides for backward compatibility. For portability reasons, it is
       recommended to avoid the variant programs, and use grep with the
       related option instead.
OPTIONS
   Generic Program Information
       --help Output a usage message and exit.
       -V, --version
              Output the version number of grep and exit.
   Pattern Syntax
       -E, --extended-regexp
               Interpret PATTERNS as extended regular expressions (EREs, see
               below).
       -F, --fixed-strings
               Interpret PATTERNS as fixed strings, not regular expressions.
```

Interpret PATTERNS as basic regular expressions (BREs, see

-G, --basic-regexp

below). This is the default.

- (a.) Go to directory a and remove the directory b with a single command
- (b.) Remove the files starting with the word "file" with a single command

```
raviteja@kali:~/a

(raviteja@kali)-[~]

$ cd a

(raviteja@kali)-[~/a]

$ rm b/c/d/test

(raviteja@kali)-[~/a]

$ rmdir -p b/c/d
```

В

```
(raviteja@ kali)-[~/a]
$ mv file3 file0

(raviteja@ kali)-[~/a]
$ cd

(raviteja@ kali)-[~]
$ mv a file0
```

- (a.) Download the compressed file from the drive.

 https://drive.google.com/drive/folders/1PG3ZlpFu6nQSNjpCNuceoGcNe
 y00bhPP?usp=sharing
- (b.) Extract the compressed file using CLI.
- (c.) Decode the base64 content and display the content of "Flag.txt"using CLI.

```
raviteja@kali:~/Downloads/BIOS(1)/Bash-BiOs Pentest/Fi... Q

(raviteja@kali)-[~/Downloads/BIOS(1)/Bash-BiOs Pentest]

$ tar -xvf Filez.tar.gz
Filez/Filez/Flag.txt

(raviteja@kali)-[~/Downloads/BIOS(1)/Bash-BiOs Pentest]

$ cd Filez

(raviteja@kali)-[~/Downloads/BIOS(1)/Bash-BiOs Pentest/Filez]

$ base64 -d Flag.txt

You Found The Flag.

(raviteja@kali)-[~/Downloads/BIOS(1)/Bash-BiOs Pentest/Filez]

$ cat Flag.txt

WW91IEZvdW5kIFRoZSBGbGFnLg==

(raviteja@kali)-[~/Downloads/BIOS(1)/Bash-BiOs Pentest/Filez]

$ [ raviteja@kali)-[~/Downloads/BIOS(1)/Bash-BiOs Pentest/Filez]
```

- (a.) Go to https://blog.bi0s.in/ and download the logo.png image using wget
- (b.) Do the same using curl

```
- (raviteja@ kali)-[-/z]
- surl -0 https://blog.bi0s.in/assets/logo.png
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 22693 100 22693 0 0 17797 0 0:00:01 0:00:01 --:--:-- 17840

- (raviteja@ kali)-[-/z]
- surl -0
Lurl: no URL specified:
Lurl: try 'curl --help' or 'curl --manual' for more information

- (raviteja@ kali)-[-/z]
- surl -0 pic.png https://blog.bi0s.in/assets/logo.png
% Total % Received % Kferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 22693 100 22693 0 0 20499 0 0:00:01 0:00:01 --:--:- 20592

- (raviteja@ kali)-[-/z]
- s use https://blog.bi0s.in/assets/logo.png
- craviteja@ kali)-[-/z]
- s use https://blog.png.li
- c
```

(a.) Ping google.com and find the lowest time taken to get a response (Stop pinging after getting 5 responses)

Ans The lowest time taken to get a response is 49.3 ms third time

(b.) Ping google.com 6 times and find the average time taken to get a response

Ans Average timetaken to get a response is 53.561 ms

```
(raviteja⊗ kali)-[-/z]
$ ping -w 5 www.google.com
PING www.google.com (172.217.174.68) 56(84) bytes of data.
64 bytes from bom07s25-in-f4.1e100.net (172.217.174.68): icmp_seq=1 ttl=118 time=60.3 ms
64 bytes from bom07s25-in-f4.1e100.net (172.217.174.68): icmp_seq=2 ttl=118 time=60.9 ms
64 bytes from bom07s25-in-f4.1e100.net (172.217.174.68): icmp_seq=3 ttl=118 time=49.3 ms
64 bytes from bom07s25-in-f4.1e100.net (172.217.174.68): icmp_seq=3 ttl=118 time=49.8 ms
64 bytes from bom07s25-in-f4.1e100.net (172.217.174.68): icmp_seq=5 ttl=118 time=62.2 ms
--- www.google.com ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4021ms
rtt min/avg/max/mdev = 49.334/54.499/62.165/5.543 ms

(raviteja⊗ kali)-[-/z]
5 ping -c 6 google.com
PING google.com (142.250.77.46) 56(84) bytes of data.
64 bytes from bom07s26-in-f14.1e100.net (142.250.77.46): icmp_seq=2 ttl=118 time=50.5 ms
64 bytes from bom07s26-in-f14.1e100.net (142.250.77.46): icmp_seq=2 ttl=118 time=50.2 ms
64 bytes from bom07s26-in-f14.1e100.net (142.250.77.46): icmp_seq=3 ttl=118 time=62.2 ms
64 bytes from bom07s26-in-f14.1e100.net (142.250.77.46): icmp_seq=3 ttl=118 time=50.2 ms
64 bytes from bom07s26-in-f14.1e100.net (142.250.77.46): icmp_seq=5 ttl=118 time=50.7 ms
64 bytes from bom07s26-in-f14.1e100.net (142.250.77.46): icmp_seq=6 ttl=118 time=50.7 ms
64 bytes from bom07s26-in-f14.1e100.net (142.250.77.46): icmp_seq=6 ttl=118 time=50.7 ms
64 bytes from bom07s26-in-f14.1e100.net (142.250.77.46): icmp_seq=6 ttl=118 time=58.3 ms
--- google.com ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5043ms
rtt min/avg/max/mdev = 49.473/53.561/62.184/4.876 ms

(raviteja⊗ kali)-[-/z]
5 ¶
```

13.

Connect to your own system using telnet

- (a.) Learn about nmap and use that scanner to scan your own machine
- (b.) Use nmap to scan scanme.nmap.org

```
-(raviteja⊕ kali)-[~/z]
 _$ nmap -F 10.0.2.15
Starting Nmap 7.93 ( https://nmap.org ) at 2023-03-21 13:22 EDT
Nmap scan report for 10.0.2.15
Host is up (0.000052s latency).
All 100 scanned ports on 10.0.2.15 are in ignored states.
Not shown: 100 closed tcp ports (conn-refused)
Nmap done: 1 IP address (1 host up) scanned in 0.03 seconds
  —(raviteja⊕ kali)-[~/z]
 _$ nmap scanme.nmap.org
Starting Nmap 7.93 ( https://nmap.org ) at 2023-03-21 13:23 EDT
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.30s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
Not shown: 998 filtered tcp ports (no-response)
PORT STATE SERVICE
22/tcp open ssh
80/tcp open http
Nmap done: 1 IP address (1 host up) scanned in 69.22 seconds
```

(a.) Create a chat application using nc on your local machine with one terminal as server and other as the client

(b.) Transfer a file from server to client (save that file with another name) and display the file.

