BASH CHALLENGE

PENTEST

1.

2.

```
rithish@rithish-VirtualBox:~$ mkdir a
rithish@rithish-VirtualBox:~$ cat > file1
^C
rithish@rithish-VirtualBox:~$ mv file1 a
rithish@rithish-VirtualBox:~$ echo hello world >> file1
rithish@rithish-VirtualBox:~$ file file1
file1: ASCII text
rithish@rithish-VirtualBox:~$
```

```
rithish@rithish-VirtualBox:~$ cd a
rithish@rithish-VirtualBox:~/a$ ls
file1
rithish@rithish-VirtualBox:~/a$ cat >> file2
first line
second line
third line
rithish@rithish-VirtualBox:~/a$ cat file2
first line
second line
third line
rithish@rithish-VirtualBox:~/a$ tac file2
third line
second line
first line
rithish@rithish-VirtualBox:~/a$
```

```
rithish@rithish-VirtualBox:~/a$ cat file1 >> file2
rithish@rithish-VirtualBox:~/a$ ls
file1 file2
rithish@rithish-VirtualBox:~/a$ cat file2
first line
second line
third line
rithish@rithish-VirtualBox:~/a$ cat file1
rithish@rithish-VirtualBox:~/a$ echo helloworld >> file1
rithish@rithish-VirtualBox:~/a$ cat file1
helloworld
rithish@rithish-VirtualBox:~/a$ cat file1 >> file2
rithish@rithish-VirtualBox:~/a$ cat file2
first line
second line
third line
helloworld
rithish@rithish-VirtualBox:~/a$ cat file2 > file3
rithish@rithish-VirtualBox:~/a$ cat file3
first line
second line
third line
helloworld
rithish@rithish-VirtualBox:~/a$
```

```
nelloworla
rithish@rithish-VirtualBox:~/a$ mkdir b c
rithish@rithish-VirtualBox:~/a$ mkdir d
rithish@rithish-VirtualBox:~/a$ cd c
rithish@rithish-VirtualBox:~/a/c$ pwd
/home/rithish/a/c
rithish@rithish-VirtualBox:~/a/c$ cp d /home/rithish/a/c
cp: cannot stat 'd': No such file or directory
rithish@rithish-VirtualBox:~/a/c$ cd..
cd..: command not found
rithish@rithish-VirtualBox:~/a/c$ cd ..
rithish@rithish-VirtualBox:~/a$ cp d /home/rithish/a/c
cp: -r not specified; omitting directory 'd'
rithish@rithish-VirtualBox:~/a$ cp -r d /home/rithish/a/c
rithish@rithish-VirtualBox:~/a$ rmdir d
rithish@rithish-VirtualBox:~/a$ cp -r file3 /home/rithish/a/c/d
rithish@rithish-VirtualBox:~/a$ cd c
rithish@rithish-VirtualBox:~/a/c$ cd d
rithish@rithish-VirtualBox:~/a/c/d$ cat file3
first line
second line
third line
helloworld
rithish@rithish-VirtualBox:~/a/c/d$
```

```
helloworld
rithish@rithish-VirtualBox:~/a/c/d$ mv file3 file0
rithish@rithish-VirtualBox:~/a/c/d$ ls
file0
rithish@rithish-VirtualBox:~/a/c/d$ mv -r file0 /home/rithish/a
mv: invalid option -- 'r'
Try 'mv --help' for more information.
rithish@rithish-VirtualBox:~/a/c/d$ mv file0 /home/rithish/a
rithish@rithish-VirtualBox:~/a/c/d$ ls
rithish@rithish-VirtualBox:~/a/c/d$ cd ..
rithish@rithish-VirtualBox:~/a/c$ cd ..
rithish@rithish-VirtualBox:~/a/s ls
b c file0 file1 file2 file3
rithish@rithish-VirtualBox:~/a$
```

```
rithish@rithish-VirtualBox:~/a$ cd ~
  rithish@rithish-VirtualBox:~$ cat test
  cat: test: No such file or directory
  rithish@rithish-VirtualBox:~$ cat >> test
  ^C
  rithish@rithish-VirtualBox:~$ pwd test
/home/rithish
  rithish@rithish-VirtualBox:~$
```

8.

```
/home/rithish
 rithish@rithish-VirtualBox:~$ man grep >> grepman.txt
 rithish@rithish-VirtualBox:-$ cat grepman
cat: grepman: No such file or directory
 rithish@rithish-VirtualBox:~$ cat grepman.txt
 GREP(1)
                                                            User Commands
 NAME
           grep, egrep, fgrep, rgrep - print lines that match patterns
 SYNOPSIS
rithish@rithish-VirtualBox:~$ grep -w FILE grepman.txt
        grep [OPTION...] PATTERNS [FILE...]
grep [OPTION...] -e PATTERNS .... [FILE...]
grep [OPTION...] -f PATTERN_FILE ... [FILE...]
grep searches for PATTERNS in each FILE. PATTERNS is one or more patterns separated
A FILE of "-" stands for standard input. If no FILE is given, recursive searches
                    --file=
                  Obtain patterns from FILE, one per line. If this option is used multiple times
         --exclude-from=
                  Skip files whose base name matches any of the file-name globs read from FILE
rithish@rithish-VirtualBox:~$
```

9.

Rm -rf * file

```
rithish@rithish-VirtualBox:~/window$ tat -xvf Files.tar.gz
Command 'tat' not found, but there are 16 similar ones.
rithish@rithish-VirtualBox:~/window$ tar -xvf Files.tar.gz
tar: Files.tar.gz: Cannot open: No such file or directory
tar: Error is not recoverable: exiting now
rithish@rithish-VirtualBox:~/window$ tar -xvzf Filez.tar.gz
Filez/
Filez/Flag.txt
rithish@rithish-VirtualBox:~/window$ cat files.txt
cat: files.txt: No such file or directory
rithish@rithish-VirtualBox:~/window$ cat Filez/files.txt
cat: Filez/files.txt: No such file or directory
rithish@rithish-VirtualBox:~/window$ cd Filez
rithish@rithish-VirtualBox:~/window/Filez$ cd
rithish@rithish-VirtualBox:~$ cat Flag.txt
cat: Flag.txt: No such file or directory
rithish@rithish-VirtualBox:~$ cd .
rithish@rithish-VirtualBox:/home$ ls
rithish@rithish-VirtualBox:/home$ cd window
bash: cd: window: No such file or directory
rithish@rithish-VirtualBox:/home$ cd ~
rithish@rithish-VirtualBox:~$ cd window
rithish@rithish-VirtualBox:~/window$ ls
Filez Filez.tar.gz
rithish@rithish-VirtualBox:~/window$ cd Filez
rithish@rithish-VirtualBox:~/window/Filez$ ls
rithish@rithish-VirtualBox:~/window/Filez$ cat Flag.txt
WW91IEZvdW5kIFRoZSBGbGFnLg==
rithish@rithish-VirtualBox:~/window/Filez$ ^C
rithish@rithish-VirtualBox:~/window/Filez$
```

```
rithish@rithish-VirtualBox:~/window/Filez$ curl -o logo.png https://blog.bi0s.in/
 % Total
            % Received % Xferd Average Speed
                                              Time
                                                       Time
                                                                Time Current
                                Dload Upload
                                               Total
                                                       Spent
                                                                Left Speed
                       0
                             0
                                16446
                                          0 --:--:--
                                                      0:00:01 --:-- 16440
100 27127
            0 27127
rithish@rithish-VirtualBox:
```

```
rithish@rithish-VirtualBox:=/window/Filez$ ping -c 5 google.com
PING google.com (142.250.196.14) 56(84) bytes of data.
64 bytes from maa03s44-in-f14.1e100.net (142.250.196.14): icmp_seq=1 ttl=116 time=20.8 ms
64 bytes from maa03s44-in-f14.1e100.net (142.250.196.14): icmp_seq=2 ttl=116 time=20.5 ms
64 bytes from maa03s44-in-f14.1e100.net (142.250.196.14): icmp_seq=3 ttl=116 time=19.5 ms
64 bytes from maa03s44-in-f14.1e100.net (142.250.196.14): icmp_seq=4 ttl=116 time=21.7 ms
64 bytes from maa03s44-in-f14.1e100.net (142.250.196.14): icmp_seq=5 ttl=116 time=38.6 ms
--- google.com ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4006ms
rtt min/avg/max/mdev = 19.546/24.234/38.614/7.223 ms
rithish@rithish-VirtualBox:=/window/Filez$ ping -c 6 -q google.com
PING google.com (142.250.196.14) 56(84) bytes of data.
--- google.com ping statistics ---
6 packets transmitted, 5 received, 16.6667% packet loss, time 5031ms
rtt min/avg/max/mdev = 19.765/22.208/27.914/3.081 ms
rithish@rithish-VirtualBox:=/window/Filez$
```

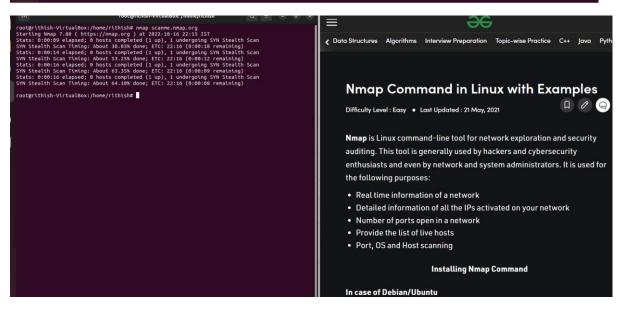
```
rithish@rithish-VirtualBox:~$ telnet localhost
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
Ubuntu 22.04.1 LTS
rithish-VirtualBox login: rithish
Password:
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-50-generic x86_64)

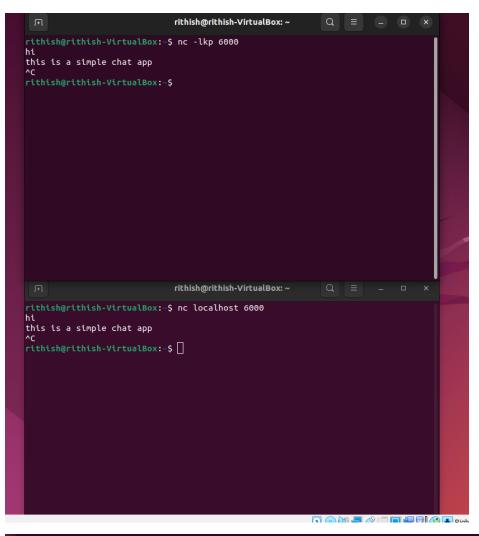
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage

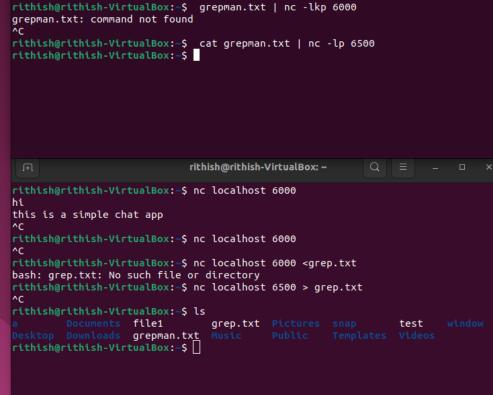
105 updates can be applied immediately.
To see these additional updates run: apt list --upgradable
Last login: Mon Oct 17 15:51:45 IST 2022 from localhost on pts/2
rithish@rithish-VirtualBox:~$
```

```
Nmap scan report for rithish-VirtualBox (127.0.1.1)
Host is up (0.0000020s latency).
All 1000 scanned ports on rithish-VirtualBox (127.0.1.1) are closed

Nmap done: 1 IP address (1 host up) scanned in 0.03 seconds
root@rithish-VirtualBox:/home/rithish#
```







Shell scripting

1

```
1 #!/bin/bash
 2 echo "simple calculator"
 3 res=0
 4 i="y"
 5 echo "enter first number"
 6 read a
 7 echo "enter second number"
 8 read b
 9 while [ $i = "y" ]
10 do
11 echo "1.add"
12 echo "2.subract"
13 echo "3.multiply"
14 echo "4.divide"
15 read ch
16 case $ch in
17 1)res=$(echo "$a + $b" | bc -l )
18 echo "addition is =" $res;;
19 2)res=$(echo "$a - $b" | bc -l )
20 echo "sub is =" $res;;
21 3)res=$(echo "$a * $b" | bc -l )
22 echo "mul is =" $res;;
23 4)res=$(echo "$a / $b" | bc -l )
24 echo "div is =" $res;;
25 *) echo "invalid choice:"
26 esac
27 echo " do you want to continue"
28 read i
29 if [ $i != "y" ]
30 then
31 exit
32 fi
33 done
34
35
```

```
rithish@rithish-VirtualBox:~$ gedit script.sh
rithish@rithish-VirtualBox:~$ ./script.sh
simple calculator
enter first number
2
enter second number
2
1.add
2.subract
3.multiply
4.divide
1
addition is = 4
do you want to continue
n
rithish@rithish-VirtualBox:~$
```

```
1 read n
 echo $n
echo "1. for encypt"
4 echo "2. for decrypt"
 read i
6 if [ $i -eq 1 ];
8 echo $n
 ch=$(echo $n | tr 'A-Za-z' 'N-ZA-Mn-za-m')
 echo $ch
1 elif [ $i -eq 2 ];
2 then
 rv=$(echo $n | tr 'A-Za-z' 'N-ZA-Mn-za-m')
4 echo $rv
 else
 echo "not crt"
 fi
```

```
#./rot.sn
rithish
rithish
1. for encypt
2. for decrypt
1
rithish
evguvfu

[root@parrot]-[~]
```

```
#!/bin/bash
echo "enter maximum number"
read n
echo "enter Numbers in array:"
forms(s i = 0; i < $n; i++ ))
do
read nos[$i]
done
for ((-i = 0; i < $n; i++ ))
doADMELICENSE
for (( j = $i; j < $n; j++ ))
do

if [ ${nos[$i]} -gt ${nos[$j]} ]; then
t = ${nos[$i]}
nos[$i] = ${nos[$j]}
nos[$j] = $t
fi
done
done
echo -e "\nSorted Numbers "
for (( i = 0; i < $n; i++ ))
do
echo ${nos[$i]}
done
```

```
#./sor.sh
enter maximum number

senter Numbers in array:

4

5

3

4

5

Sorted Numbers

4

5

[root@parrot]-[~]
```

```
1 #!/bin/bash
2 echo 'enter n'
3 read n
4 rev=$(echo $n | rev)
5 if [ $n -eq $rev ]; then
6 echo "number is palindrome"
7 else
8 echo "number is not palindrome"
9 fi
```