Bash Challenges

1.

2.

```
rohit@rohit:~$ mkdir a
rohit@rohit:~$ cd a
rohit@rohit:~/a$ touch file1
rohit@rohit:~/a$ file file1
file1: empty
rohit@rohit:~/a$ echo "Hello World" >> file1
rohit@rohit:~/a$ cat file1
Hello World
rohit@rohit:~/a$ file file1
file1: ASCII text
```

3.

```
rohit@rohit:~/a$ touch file2
rohit@rohit:~/a$ cat >> file2
First Line Second Line Third Line
rohit@rohit:~/a$ cat file2
First Line Second Line Third Line
rohit@rohit:~/a$ rev file2
enil drihT enil dnoceS enil tsriF
```

4.

```
rohit@rohit:~/a$ cat "file1" "file2" > "file3"
rohit@rohit:~/a$ cat file3
Hello World
First Line Second Line Third Line
```

5.

```
rohit@rohit:~/a$ mkdir b c
rohit@rohit:~/a$ mkdir d
rohit@rohit:~/a$ cp -r d c
rohit@rohit:~/a$ rmdir d
rohit@rohit:~/a$ cp file3 /home/rohit/a/c/d
```

```
rohit@rohit:~/a$ cd c/d
rohit@rohit:~/a/c/d$ mv file3 file0
crohit@rohit:~/a/c/d$ mv file0 /home/rohit/a
```

rohit@rohit:/home/a\$ nano test /home/rohit/a/c/d oot@rohit:/home/rohit# find ./a -name test ./a/c/d/test 8. root@rohit:/home/rohit# cd a root@rohit:/home/rohit/a# man grep >> grepman.txt root@rohit:/home/rohit/a# grep "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
A FILE of "-" stands for standard input. If no FILE is given, --file= -f Obtain patterns from FILE, one per line. If this option is used --exclude-from= read from FILE (using wildcard matching as described under root@rohit:/home/rohit/a# rmdir b root@rohit:/home/rohit/a# rm -rf file* 10. root@rohit:/home/rohit/Downloads# base64 --decode /home/rohit/Downloads/Filez/Flag.txt You Found The Flag.root@rohit:/home/rohit/Downloads# 11. root@rohit:/home/rohit# wget https://blog.bi0s.in/assets/logo.png --2022-11-01 19:00:51-- https://blog.bi0s.in/assets/logo.png Resolving blog.bi0s.in (blog.bi0s.in)... 104.21.14.171, 172.67.160.22, 2606:4700:3034::6815:eab, ... Connecting to blog.bi0s.in (blog.bi0s.in)|104.21.14.171|:443... connected. HTTP request sent, awaiting response... 200 OK Length: 22693 (22K) [image/png] Saving to: 'logo.png' logo.png 2022-11-01 19:00:51 (652 KB/s) - 'logo.png' saved [22693/22693] root@rohit:/home/rohit# curl https://blog.bi0s.in/assets/logo.png > logo1.png % Received % Xferd Average Speed Time Dload Upload Total Time Current Left Speed % Total Time Spent

100 22693 100 22693

0

0 27167

0 --:--:- 27144

```
rohit@rohit:~$ ping google.com
PING google.com (142.250.67.142) 56(84) bytes of data.
64 bytes from bom12s06-in-f14.1e100.net (142.250.67.142): icmp_seq=1 ttl=56 time=39.3 ms
64 bytes from bom12s06-in-f14.1e100.net (142.250.67.142): icmp_seq=2 ttl=56 time=40.6 ms
64 bytes from bom12s06-in-f14.1e100.net (142.250.67.142): icmp_seq=3 ttl=56 time=39.6 ms
64 bytes from bom12s06-in-f14.1e100.net (142.250.67.142): icmp_seq=4 ttl=56 time=41.1 ms
64 bytes from bom12s06-in-f14.1e100.net (142.250.67.142): icmp_seq=5 ttl=56 time=42.6 ms
^C
--- google.com ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4013ms
rtt min/avg/max/mdev = 39.311/40.649/42.623/1.177 ms
```

```
rohit@rohit:=$ ping google.com
PING google.com (142.250.67.142) 56(84) bytes of data.
64 bytes from bom12s06-in-f14.1e100.net (142.250.67.142): icmp_seq=1 ttl=56 time=63.3 ms
64 bytes from bom12s06-in-f14.1e100.net (142.250.67.142): icmp_seq=2 ttl=56 time=47.9 ms
64 bytes from bom12s06-in-f14.1e100.net (142.250.67.142): icmp_seq=3 ttl=56 time=40.4 ms
64 bytes from bom12s06-in-f14.1e100.net (142.250.67.142): icmp_seq=4 ttl=56 time=38.8 ms
64 bytes from bom12s06-in-f14.1e100.net (142.250.67.142): icmp_seq=5 ttl=56 time=44.7 ms
64 bytes from bom12s06-in-f14.1e100.net (142.250.67.142): icmp_seq=6 ttl=56 time=38.9 ms
^C
--- google.com ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5020ms
rtt min/avg/max/mdev = 38.765/45.650/63.286/8.545 ms
```

Welcome to OverTheWire!

If you find any problems, please report them to the #wargames channel on discord or IRC.

--[Playing the games]--

This machine might hold several wargames. If you are playing "somegame", then:

- * USERNAMES are somegame0, somegame1, ...
- * Most LEVELS are stored in /somegame/.
- * PASSWORDS for each level are stored in /etc/somegame_pass/.

Write-access to homedirectories is disabled. It is advised to create a working directory with a hard-to-guess name in /tmp/. You can use the command "mktemp -d" in order to generate a random and hard to guess directory in /tmp/. Read-access to both /tmp/ is disabled and to /proc restricted so that users cannot snoop on eachother. Files and directories with easily guessable or short names will be periodically deleted! The /tmp directory is regularly wiped. Please play nice:

- * don't leave orphan processes running
- * don't leave exploit-files laying around
- * don't annoy other players
- * don't post passwords or spoilers
- * again, DONT POST SPOILERS!

This includes writeups of your solution on your blog or website!

--[Tips]--

This machine has a 64bit processor and many security-features enabled by default, although ASLR has been switched off. The following compiler flags might be interesting:

-m32 compile for 32bit -fno-stack-protector disable ProPolice -Wl,-z,norelro disable relro

In addition, the execstack tool can be used to flag the stack as executable on ELF binaries.

Finally, network-access is limited for most levels by a local firewall.

--[Tools]--

For your convenience we have installed a few useful tools which you can find in the following locations:

```
* gef (https://github.com/hugsy/gef) in /opt/gef/
   * pwndbg (https://github.com/pwndbg/pwndbg) in /opt/pwndbg/
   * peda (https://github.com/longld/peda.git) in /opt/peda/
   * gdbinit (https://github.com/gdbinit/Gdbinit) in /opt/gdbinit/
   * pwntools (https://github.com/Gallopsled/pwntools)
   * radare2 (http://www.radare.org/)
Both python2 and python3 are installed.
-[ More information ]--
 For more information regarding individual wargames, visit
 http://www.overthewire.org/wargames/
 For support, questions or comments, contact us on discord or IRC.
 Enjoy your stay!
andit0@bandit:~$ ls
eadme
andit0@bandit:~$ cat readme
H2SXQwcBdpmTEzi3bvBHMM9H66vVXjL
```

```
rohit@rohit:~$ telnet localhost
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
Ubuntu 22.04.1 LTS
rohit login: 7845
Password:
Login incorrect
rohit login: rohit
Password:
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-52-generic x86 64)
 * Documentation: https://help.ubuntu.com
* Management:
                  https://landscape.canonical.com
* Support:
                  https://ubuntu.com/advantage
O updates can be applied immediately.
*** System restart required ***
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
```

```
rohit@rohit:~$ nmap localhost
Starting Nmap 7.80 ( https://nmap.org ) at 2022-11-02 19:14 IST
Nmap scan report for localhost (127.0.0.1)
Host is up (0.000058s latency).
Not shown: 998 closed ports
PORT
        STATE SERVICE
23/tcp open telnet
631/tcp open ipp
Nmap done: 1 IP address (1 host up) scanned in 0.11 seconds
rohit@rohit:~$ nmap scanme.nmap.org
Starting Nmap 7.80 (https://nmap.org) at 2022-11-02 19:16 IST Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.011s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
Not shown: 990 filtered ports
PORT
          STATE SERVICE
21/tcp open ftp
22/tcp
          open ssh
80/tcp
         open http
110/tcp open pop3
143/tcp open imap
443/tcp open https
2000/tcp open cisco-sccp
5060/tcp open sip
8008/tcp open http
8010/tcp open xmpp
Nmap done: 1 IP address (1 host up) scanned in 91.28 seconds
```

```
rohit@rohit:~$ nc localhost 4000
                                   rohit@rohit:~$ nc -lkp 4000
hello
                                   hello
mу
                                   mν
name
                                   name
is
                                   is
jamla
                                   jamla
mb
                                   mb
jamal
                                   jamal
```

