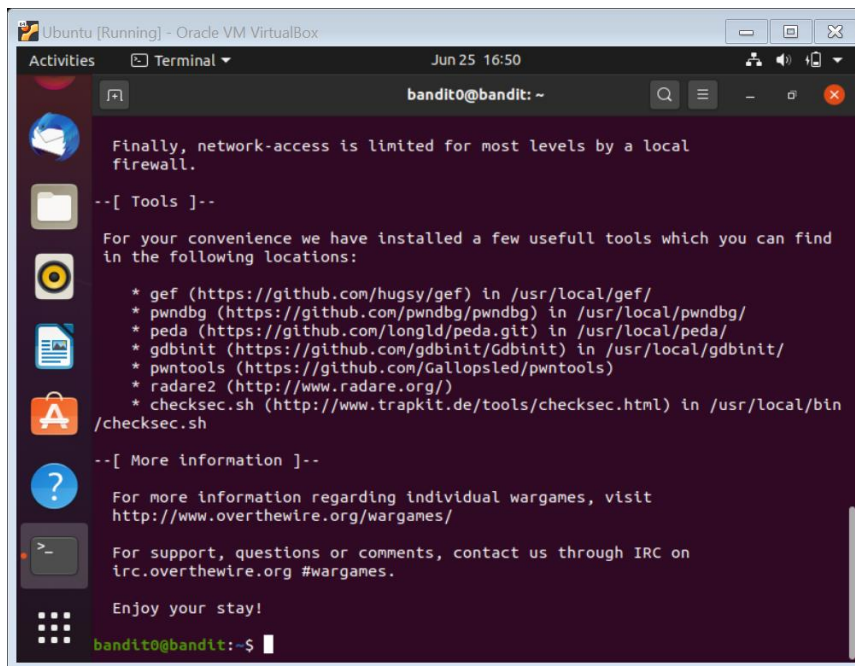


Name: Tanmay Soni

Roll no: CH.EN.U4CYS20074

TASK-5

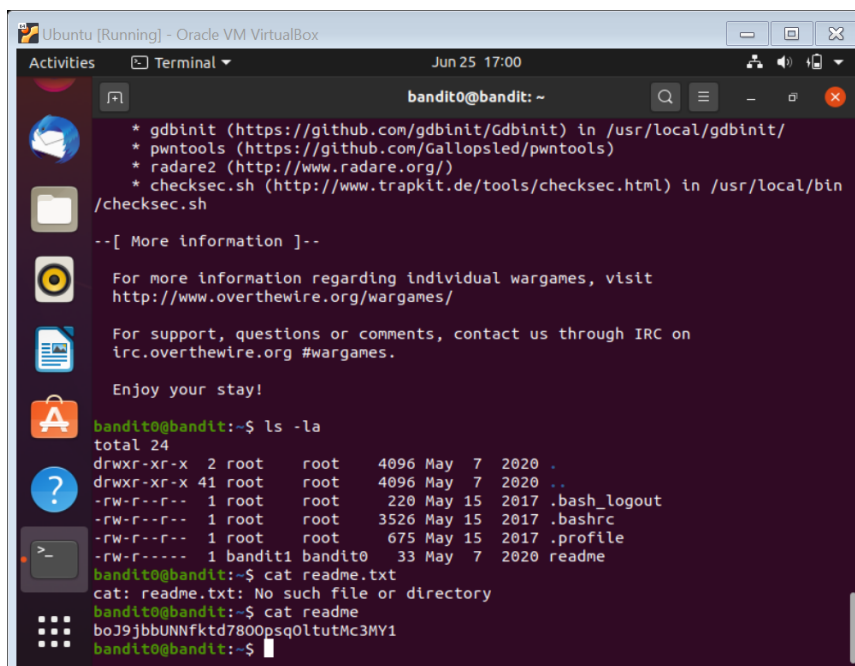
Level 0:



```
bandit0@bandit: ~  
Finally, network-access is limited for most levels by a local  
firewall.  
  
--[ Tools ]--  
  
For your convenience we have installed a few usefull tools which you can find  
in the following locations:  
  
* gef (https://github.com/hugsy/gef) in /usr/local/gef/  
* pwndbg (https://github.com/pwndbg/pwndbg) in /usr/local/pwndbg/  
* peda (https://github.com/longld/peda.git) in /usr/local/peda/  
* gdbinit (https://github.com/gdbinit/gdbinit) in /usr/local/gdbinit/  
* pwntools (https://github.com/Gallopsled/pwntools)  
* radare2 (http://www.radare.org/)  
* checksec.sh (http://www.trapkit.de/tools/checksec.html) in /usr/local/bin  
/checksec.sh  
  
--[ More information ]--  
  
For more information regarding individual wargames, visit  
http://www.overthewire.org/wargames/  
  
For support, questions or comments, contact us through IRC on  
#wargames.  
  
Enjoy your stay!  
bandit0@bandit:~$
```

Level 0 to Level 1:

Password: boJ9jbbUNNfktD780OpsqOltutMc3MY1



```
bandit0@bandit: ~  
* gdbinit (https://github.com/gdbinit/Gdbinit) in /usr/local/gdbinit/  
* pwntools (https://github.com/Gallopsled/pwntools)  
* radare2 (http://www.radare.org/)  
* checksec.sh (http://www.trapkit.de/tools/checksec.html) in /usr/local/bin  
/checksec.sh  
  
--[ More information ]--  
  
For more information regarding individual wargames, visit  
http://www.overthewire.org/wargames/  
  
For support, questions or comments, contact us through IRC on  
#wargames.  
  
Enjoy your stay!  
bandit0@bandit:~$ ls -la  
total 24  
drwxr-xr-x  2 root   root   4096 May  7  2020 .  
drwxr-xr-x 41 root   root   4096 May  7  2020 ..  
-rw-r--r--  1 root   root    220 May 15  2017 .bash_logout  
-rw-r--r--  1 root   root   3526 May 15  2017 .bashrc  
-rw-r--r--  1 root   root    675 May 15  2017 .profile  
-rw-r-----  1 bandit1 bandit0 33 May  7  2020 readme  
bandit0@bandit:~$ cat readme.txt  
cat: readme.txt: No such file or directory  
bandit0@bandit:~$ cat readme  
boJ9jbbUNNfktD780OpsqOltutMc3MY1  
bandit0@bandit:~$
```

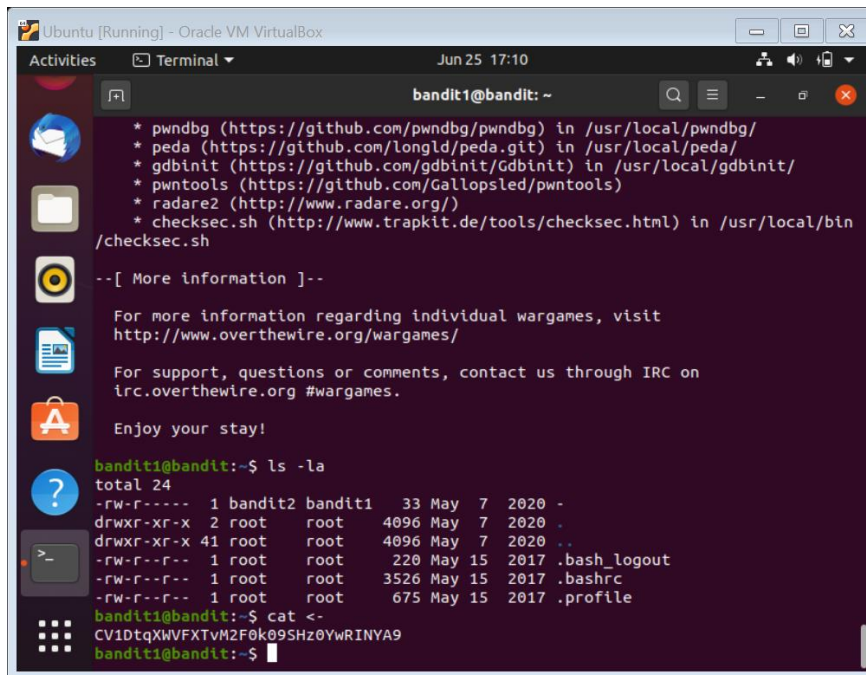
Name: Tanmay Soni

Roll no: CH.EN.U4CYS20074

TASK-5

Level 1 to Level 2:

Password: CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9



The screenshot shows a terminal window titled 'Ubuntu [Running] - Oracle VM VirtualBox' with a date and time of 'Jun 25 17:10'. The prompt is 'bandit1@bandit: ~'. The terminal displays a list of installed tools: pwndbg, peda, gdbinit, pwntools, radare2, and checksec.sh. It then shows the command 'ls -la' which lists files in the current directory, including 'bandit2', '.bash_logout', '.bashrc', and '.profile'. Finally, the command 'cat <' is used to read the password from the environment, which is 'CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9'. The prompt then changes to 'bandit2@bandit: ~'.

```
bandit1@bandit: ~
* pwndbg (https://github.com/pwndbg/pwndbg) in /usr/local/pwndbg/
* peda (https://github.com/longld/peda.git) in /usr/local/peda/
* gdbinit (https://github.com/gdbinit/Gdbinit) in /usr/local/gdbinit/
* pwntools (https://github.com/Gallopsled/pwntools)
* radare2 (http://www.radare.org/)
* checksec.sh (http://www.trapkit.de/tools/checksec.html) in /usr/local/bin
/checksec.sh

--[ More information ]--

For more information regarding individual wargames, visit
http://www.overthewire.org/wargames/

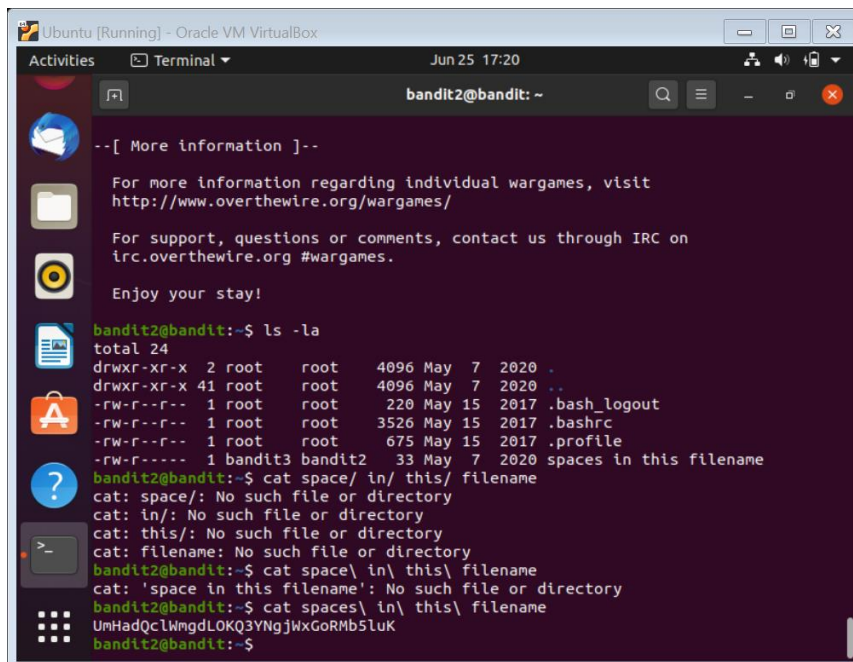
For support, questions or comments, contact us through IRC on
irc.overthewire.org #wargames.

Enjoy your stay!

bandit1@bandit:~$ ls -la
total 24
-rw-r----- 1 bandit2 bandit1 33 May 7 2020 -
drwxr-xr-x 2 root root 4096 May 7 2020 .
drwxr-xr-x 41 root root 4096 May 7 2020 ..
-rw-r--r-- 1 root root 220 May 15 2017 .bash_logout
-rw-r--r-- 1 root root 3526 May 15 2017 .bashrc
-rw-r--r-- 1 root root 675 May 15 2017 .profile
bandit1@bandit:~$ cat <
CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9
bandit1@bandit:~$
```

Level 2 to Level 3:

Password: UmHadQcLWmgdLOKQ3YNgiWxGoRMb5luK



The screenshot shows a terminal window titled 'Ubuntu [Running] - Oracle VM VirtualBox' with a date and time of 'Jun 25 17:20'. The prompt is 'bandit2@bandit: ~'. The terminal displays the command 'ls -la' which lists files in the current directory, including 'bandit3', '.bash_logout', '.bashrc', and '.profile'. Finally, the command 'cat space\ in\ this\ filename' is used to read the password from the environment, which is 'UmHadQcLWmgdLOKQ3YNgiWxGoRMb5luK'. The prompt then changes to 'bandit3@bandit: ~'.

```
bandit2@bandit: ~
--[ More information ]--

For more information regarding individual wargames, visit
http://www.overthewire.org/wargames/

For support, questions or comments, contact us through IRC on
irc.overthewire.org #wargames.

Enjoy your stay!

bandit2@bandit:~$ ls -la
total 24
drwxr-xr-x 2 root root 4096 May 7 2020 .
drwxr-xr-x 41 root root 4096 May 7 2020 ..
-rw-r--r-- 1 root root 220 May 15 2017 .bash_logout
-rw-r--r-- 1 root root 3526 May 15 2017 .bashrc
-rw-r--r-- 1 root root 675 May 15 2017 .profile
-rw-r----- 1 bandit3 bandit2 33 May 7 2020 spaces in this filename
bandit2@bandit:~$ cat space/ in/ this/ filename
cat: space/: No such file or directory
cat: in/: No such file or directory
cat: this/: No such file or directory
cat: filename: No such file or directory
bandit2@bandit:~$ cat space\ in\ this\ filename
cat: 'space in this filename': No such file or directory
bandit2@bandit:~$ cat spaces\ in\ this\ filename
UmHadQcLWmgdLOKQ3YNgiWxGoRMb5luK
bandit2@bandit:~$
```

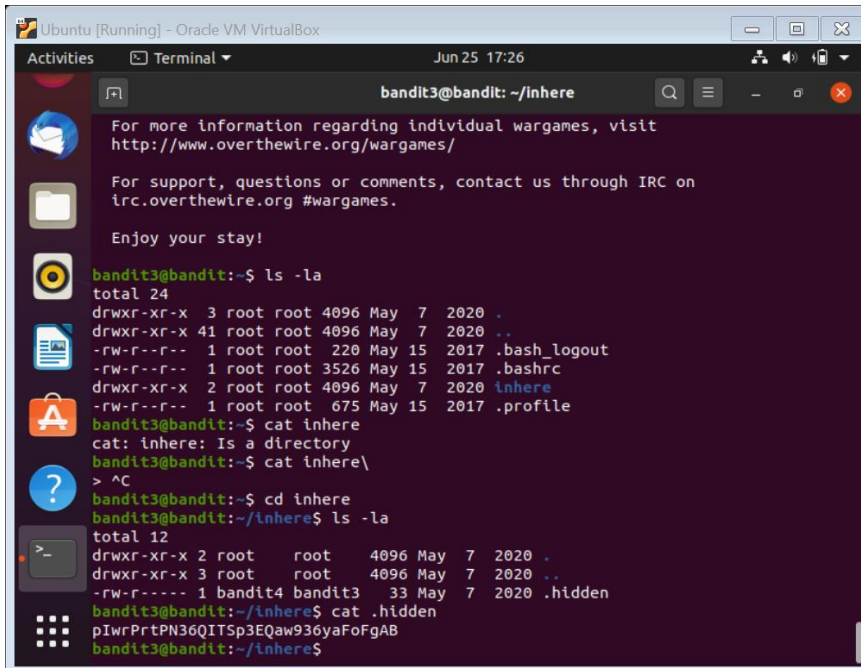
Name: Tanmay Soni

Roll no: CH.EN.U4CYS20074

TASK-5

Level 3 to Level 4:

Password: plwrPrtPN36QITSp3EQaw936yaFoFgAB



```
bandit3@bandit: ~/inhere
For more information regarding individual wargames, visit
http://www.overthewire.org/wargames/

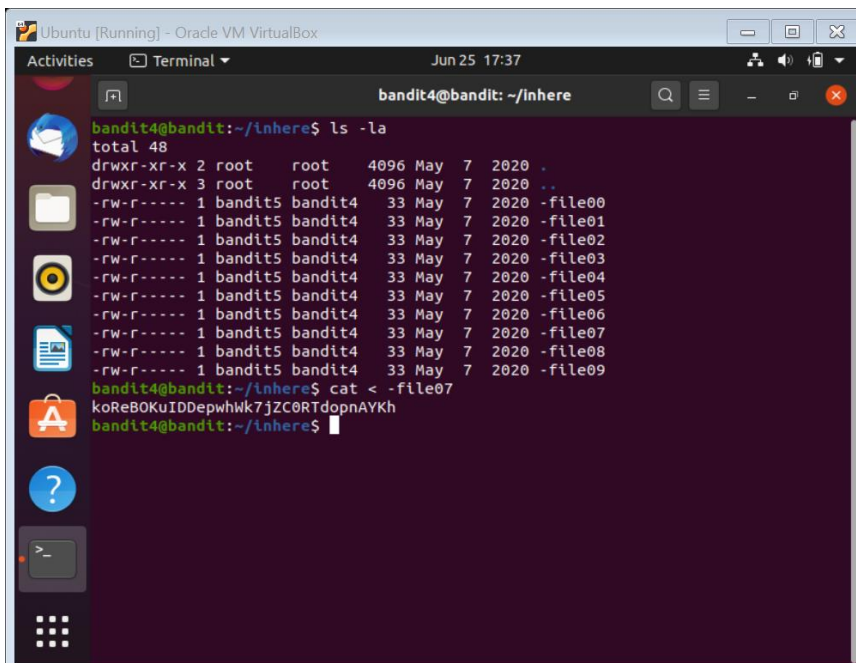
For support, questions or comments, contact us through IRC on
irc.overthewire.org #wargames.

Enjoy your stay!

bandit3@bandit:~$ ls -la
total 24
drwxr-xr-x  3 root root 4096 May  7  2020 .
drwxr-xr-x 41 root root 4096 May  7  2020 ..
-rw-r--r--  1 root root  220 May 15  2017 .bash_logout
-rw-r--r--  1 root root 3526 May 15  2017 .bashrc
drwxr-xr-x  2 root root 4096 May  7  2020 inhere
-rw-r--r--  1 root root  675 May 15  2017 .profile
bandit3@bandit:~$ cat inhere
cat: inhere: Is a directory
bandit3@bandit:~$ cat inhere\
> ^C
bandit3@bandit:~$ cd inhere
bandit3@bandit:~/inhere$ ls -la
total 12
drwxr-xr-x  2 root  root  4096 May  7  2020 .
drwxr-xr-x  3 root  root  4096 May  7  2020 ..
-rw-r-----  1 bandit4 bandit3  33 May  7  2020 .hidden
bandit3@bandit:~/inhere$ cat .hidden
plwrPrtPN36QITSp3EQaw936yaFoFgAB
bandit3@bandit:~/inhere$
```

Level 4 to Level 5:

Password: koReBOKuIDDepwhWk7jZC0RTdopnAYKh



```
bandit4@bandit: ~/inhere
bandit4@bandit:~/inhere$ ls -la
total 48
drwxr-xr-x  2 root  root  4096 May  7  2020 .
drwxr-xr-x  3 root  root  4096 May  7  2020 ..
-rw-r-----  1 bandit5 bandit4  33 May  7  2020 -file00
-rw-r-----  1 bandit5 bandit4  33 May  7  2020 -file01
-rw-r-----  1 bandit5 bandit4  33 May  7  2020 -file02
-rw-r-----  1 bandit5 bandit4  33 May  7  2020 -file03
-rw-r-----  1 bandit5 bandit4  33 May  7  2020 -file04
-rw-r-----  1 bandit5 bandit4  33 May  7  2020 -file05
-rw-r-----  1 bandit5 bandit4  33 May  7  2020 -file06
-rw-r-----  1 bandit5 bandit4  33 May  7  2020 -file07
-rw-r-----  1 bandit5 bandit4  33 May  7  2020 -file08
-rw-r-----  1 bandit5 bandit4  33 May  7  2020 -file09
bandit4@bandit:~/inhere$ cat < -file07
koReBOKuIDDepwhWk7jZC0RTdopnAYKh
bandit4@bandit:~/inhere$
```

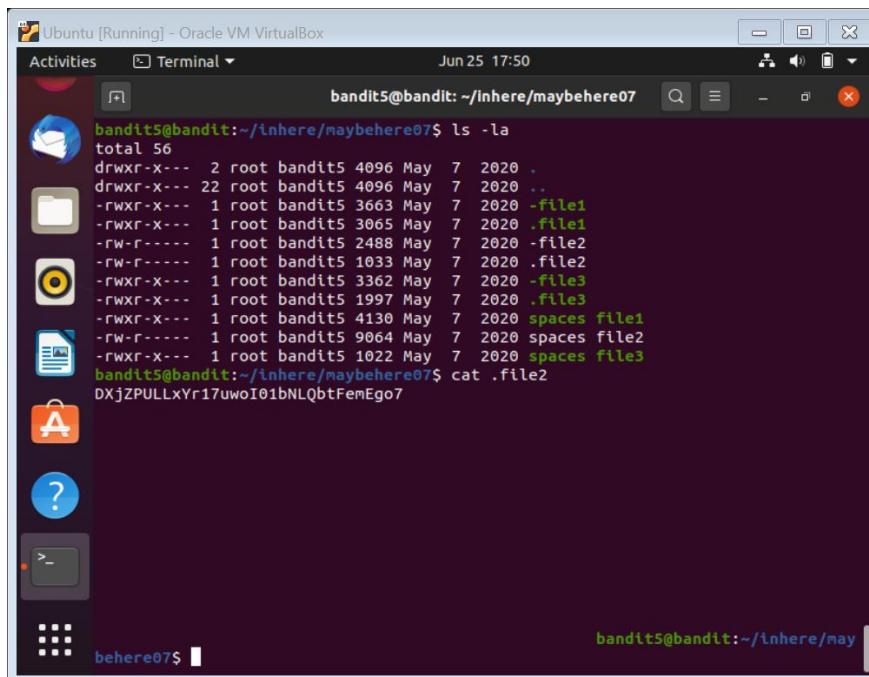
Name: Tanmay Soni

Roll no: CH.EN.U4CYS20074

TASK-5

Level 5 to Level 6:

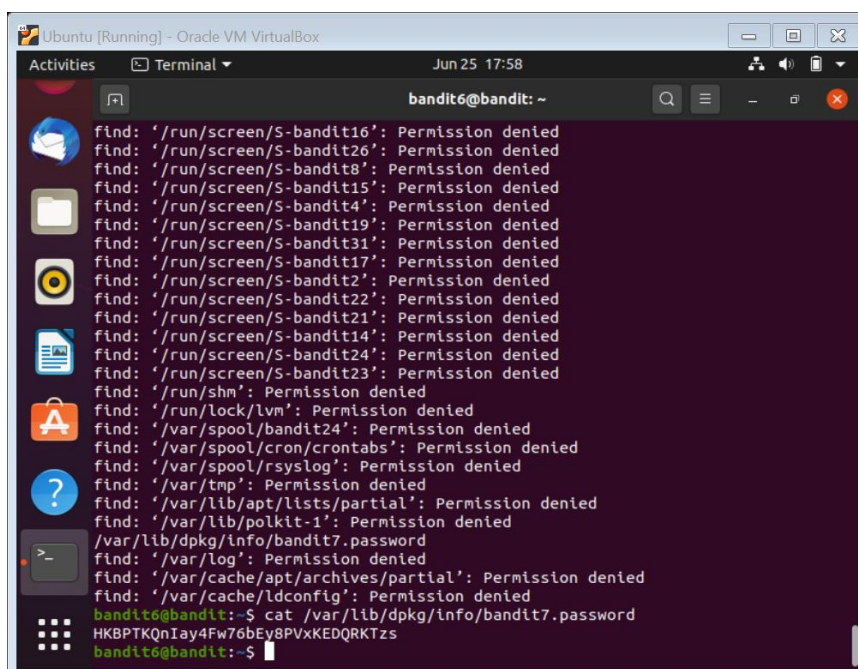
Password: DXjZPULLxYr17uwoI01bNLQbtFemEgo7



```
bandit5@bandit: ~/inhere/maybeh07
bandit5@bandit:~/inhere/maybeh07$ ls -la
total 56
drwxr-x--- 2 root bandit5 4096 May 7 2020 .
drwxr-x--- 22 root bandit5 4096 May 7 2020 ..
-rwxr-x--- 1 root bandit5 3663 May 7 2020 .file1
-rwxr-x--- 1 root bandit5 3065 May 7 2020 .file1
-rw-r----- 1 root bandit5 2488 May 7 2020 .file2
-rw-r----- 1 root bandit5 1033 May 7 2020 .file2
-rwxr-x--- 1 root bandit5 3362 May 7 2020 .file3
-rwxr-x--- 1 root bandit5 1997 May 7 2020 .file3
-rwxr-x--- 1 root bandit5 4130 May 7 2020 spaces file1
-rwxr-x--- 1 root bandit5 9064 May 7 2020 spaces file2
-rwxr-x--- 1 root bandit5 1022 May 7 2020 spaces file3
bandit5@bandit:~/inhere/maybeh07$ cat .file2
DXjZPULLxYr17uwoI01bNLQbtFemEgo7
bandit5@bandit:~/inhere/maybeh07$
```

Level 6 to Level 7:

Password: HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs



```
bandit6@bandit: ~
find: '/run/screen/S-bandit16': Permission denied
find: '/run/screen/S-bandit26': Permission denied
find: '/run/screen/S-bandit8': Permission denied
find: '/run/screen/S-bandit15': Permission denied
find: '/run/screen/S-bandit4': Permission denied
find: '/run/screen/S-bandit19': Permission denied
find: '/run/screen/S-bandit31': Permission denied
find: '/run/screen/S-bandit17': Permission denied
find: '/run/screen/S-bandit2': Permission denied
find: '/run/screen/S-bandit22': Permission denied
find: '/run/screen/S-bandit21': Permission denied
find: '/run/screen/S-bandit14': Permission denied
find: '/run/screen/S-bandit24': Permission denied
find: '/run/screen/S-bandit23': Permission denied
find: '/run/shm': Permission denied
find: '/run/lock/lvm': Permission denied
find: '/var/spool/bandit24': Permission denied
find: '/var/spool/cron/crontabs': Permission denied
find: '/var/spool/rsyslog': Permission denied
find: '/var/tmp': Permission denied
find: '/var/lib/apt/lists/partial': Permission denied
find: '/var/lib/polkit-1': Permission denied
/var/lib/dpkg/info/bandit7.password
find: '/var/log': Permission denied
find: '/var/cache/apt/archives/partial': Permission denied
find: '/var/cache/ldconfig': Permission denied
bandit6@bandit:~$ cat /var/lib/dpkg/info/bandit7.password
HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs
bandit6@bandit:~$
```

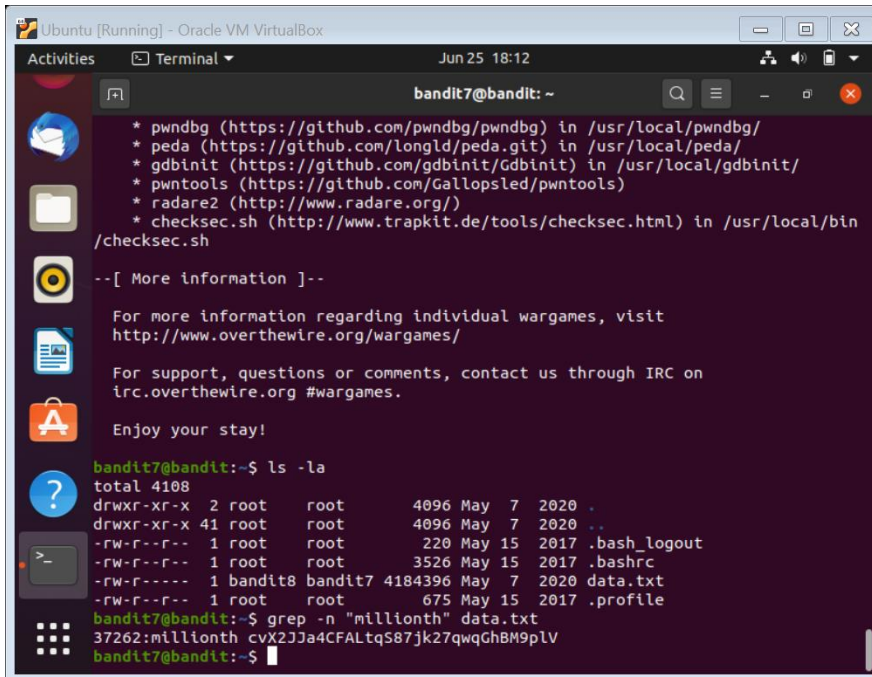

Name: Tanmay Soni

Roll no: CH.EN.U4CYS20074

TASK-5

Level 7 to Level 8:

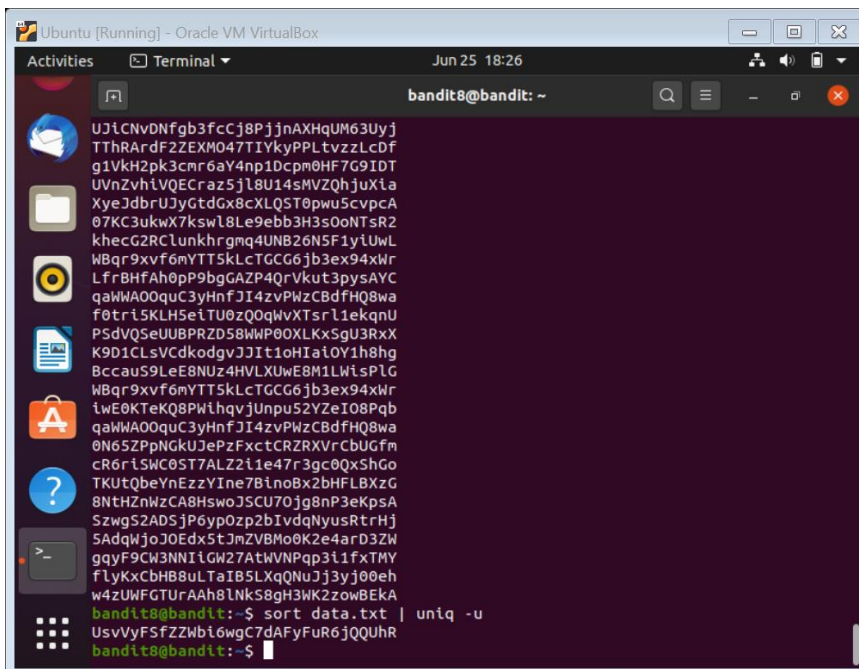
Password: cvX2JJJa4CFALTqS87jk27qwqGhBM9pIV



```
bandit7@bandit: ~  
* pwndbg (https://github.com/pwndbg/pwndbg) in /usr/local/pwndbg/  
* peda (https://github.com/longld/peda.git) in /usr/local/peda/  
* gdbinit (https://github.com/gdbinit/Gdbinit) in /usr/local/gdbinit/  
* pwntools (https://github.com/Gallopsled/pwntools)  
* radare2 (http://www.radare.org/)  
* checksec.sh (http://www.trapkit.de/tools/checksec.html) in /usr/local/bin/  
/checksec.sh  
  
--[ More information ]--  
  
For more information regarding individual wargames, visit  
http://www.overthewire.org/wargames/  
  
For support, questions or comments, contact us through IRC on  
irc.overthewire.org #wargames.  
  
Enjoy your stay!  
  
bandit7@bandit:~$ ls -la  
total 4108  
drwxr-xr-x  2 root   root    4096 May  7  2020 .  
drwxr-xr-x 41 root   root    4096 May  7  2020 ..  
-rw-r--r--  1 root   root     220 May 15  2017 .bash_logout  
-rw-r--r--  1 root   root    3526 May 15  2017 .bashrc  
-rw-r----- 1 bandit8 bandit7 4184396 May  7  2020 data.txt  
-rw-r--r--  1 root   root     675 May 15  2017 .profile  
bandit7@bandit:~$ grep -n "millionth" data.txt  
37262:millionth cvX2JJJa4CFALTqS87jk27qwqGhBM9pIV  
bandit7@bandit:~$
```

Level 8 to Level 9:

Password: UsvVyFSfZWbi6wgC7dAFyFuR6jQQUhr



```
bandit8@bandit: ~  
UJlCNvDNfGb3fCj8PjjnAXHqUM63UyJ  
TThRArdF2ZEXM047TIYkyPPLtvzzLcDf  
g1Vkh2pk3cmr6aY4np1Dcpm0HF7G9IDT  
UVnZvhiVQECraz5jl8U14sMVZQhjuXia  
XyeJdbrUJyGtdGx8cXLQST0pwu5cvpcA  
07KC3ukwX7kswl8Le9ebb3H3s0oNTsR2  
khecG2RClunkhrgmq4UNB26N5F1yiUwL  
WBqr9xvf6mYTT5kLcTGC6j3b3ex94xWr  
LfrBHfAh0pP9bgGAZP4QrVkut3pysAYC  
qaWMA00quC3yHnfJI4zvPWzCBdfHQ8wa  
f0trI5KLH5eiTU0zQ0qWvXTsr1lekqnU  
PsDvQSeuBPRZD58WWP00XkX5Gu3Rxx  
K9D1CLsVCdkodgvJJItioHiaioY1h8hg  
BccauS9LeE8NUz4HVLXUwE8M1LWIsPLG  
WBqr9xvf6mYTT5kLcTGC6j3b3ex94xWr  
IwE0KTeKQ8PWihqvJUnpu52YzeIO8Pqb  
qaWMA00quC3yHnfJI4zvPWzCBdfHQ8wa  
0N65ZPpNgKUJePzFxcTCRZRVRcBUGfm  
cR6rISWC0ST7ALZ2i1e47r3gc0QxShGo  
TKUtQbeYnEzzYIne7BinoBx2bHfLBXzG  
8NthZnWzC8HswoJ5CU70jg8nP3eKpsA  
SzwgS2ADSjP6yp0zp2bIvdqNyusRtrHj  
5AdqWjoJ0EdxStJmZVBM0K2e4arD3ZW  
gqyF9CW3NNIiGW27AtWVNPqp3i1fXTMY  
fLyKxCbHB8uLtaIB5LXqNuJj3yj00eh  
w4zUWFTUrAAh8LnK58gH3WK2zowBEKA  
bandit8@bandit:~$ sort data.txt | uniq -u  
UsvVyFSfZWbi6wgC7dAFyFuR6jQQUhr  
bandit8@bandit:~$
```

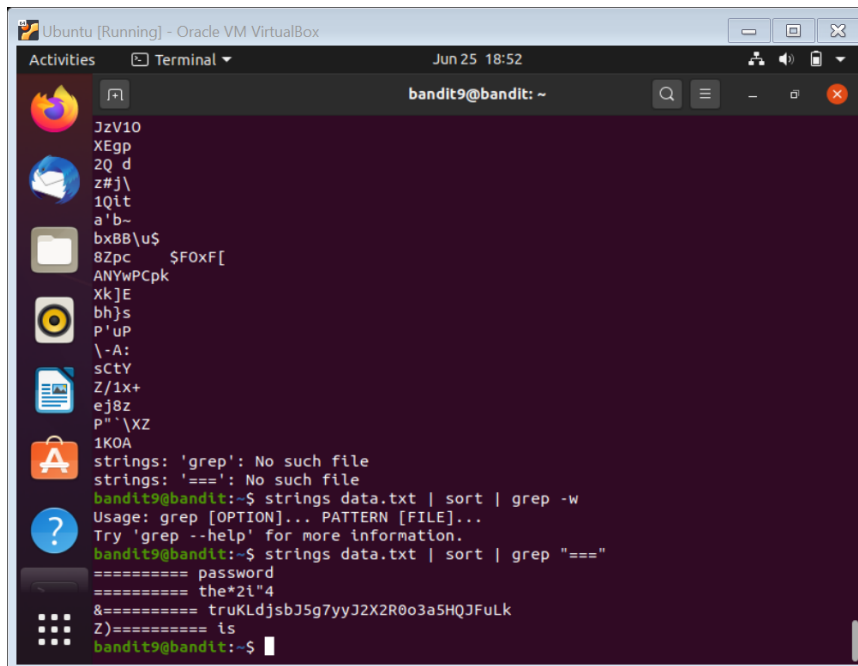
Name: Tanmay Soni

Roll no: CH.EN.U4CYS20074

TASK-5

Level 9 to Level 10:

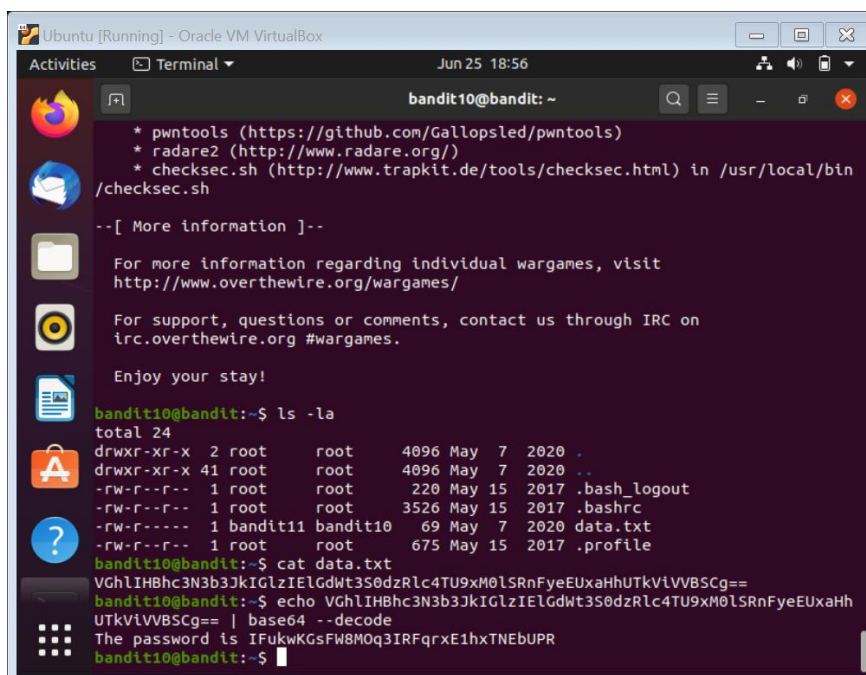
Password: truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk



```
bandit9@bandit: ~
JzV10
XEgp
2Q_d
z#j\\
1Qit
a'b~
bxBB\\u$
8Zpc      $FOxF[
ANYwPCpk
Xk]E
bhjs
P'uP
\\-A:
sCtY
Z/1x+
ej8z
P" \\XZ
1KOA
strings: 'grep': No such file
strings: '==': No such file
bandit9@bandit:~$ strings data.txt | sort | grep -w
Usage: grep [OPTION]... PATTERN [FILE]...
Try 'grep --help' for more information.
bandit9@bandit:~$ strings data.txt | sort | grep ""
===== password
===== the*2i"4
&===== truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk
Z)===== is
bandit9@bandit:~$
```

Level 10 to Level 11:

Password: IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR



```
bandit10@bandit: ~
* pwntools (https://github.com/Gallopsled/pwntools)
* radare2 (http://www.radare.org/)
* checksec.sh (http://www.trapkit.de/tools/checksec.html) in /usr/local/bin
/checksec.sh

--[ More information ]--

For more information regarding individual wargames, visit
http://www.overthewire.org/wargames/

For support, questions or comments, contact us through IRC on
irc.overthewire.org #wargames.

Enjoy your stay!

bandit10@bandit:~$ ls -la
total 24
drwxr-xr-x  2 root    root    4096 May  7  2020 .
drwxr-xr-x 41 root    root    4096 May  7  2020 ..
-rw-r--r--  1 root    root     220 May 15  2017 .bash_logout
-rw-r--r--  1 root    root    3526 May 15  2017 .bashrc
-rw-r-----  1 bandit11 bandit10 69 May  7  2020 data.txt
-rw-r--r--  1 root    root     675 May 15  2017 .profile
bandit10@bandit:~$ cat data.txt
VGhlIHBhc3N3b3JkIGlzIElGdWt3S0dzRlc4TU9xM0lSRnFyeEUXaHhUTkViVVBScG==
bandit10@bandit:~$ echo VGhlIHBhc3N3b3JkIGlzIElGdWt3S0dzRlc4TU9xM0lSRnFyeEUXaHh
UTkViVVBScG== | base64 --decode
The password is IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR
bandit10@bandit:~$
```

Name: Tanmay Soni

Roll no: CH.EN.U4CYS20074

TASK-5

Level 11 to Level 12:

Password: 5Te8Y4drgCRfCx8ugdWuEX8KFC6k2EUu

The screenshot shows a terminal window titled 'Ubuntu [Running] - Oracle VM VirtualBox' with a timestamp of 'Jun 25 19:03'. The prompt is 'bandit11@bandit: ~'. The terminal displays a welcome message for 'radare2' and 'checksec.sh', followed by instructions to visit 'http://www.overthewire.org/wargames/' and contact via IRC. The user then runs 'ls -la', showing a directory listing with files like '.bash_logout', '.bashrc', 'data.txt', and '.profile'. Next, the user runs 'cat data.txt', which displays a long string of characters. The user then runs 'echo ^C' and 'echo Gur cnffjbeq vf 5Gr8L4qetPESpk8htqjHRK8XSP6x2RHH | tr 'N-ZA-Mn-za-m' 'A-Za-z'', which reveals the password '5Te8Y4drgCRfCx8ugdWuEX8KFC6k2EUu'. The prompt then changes to 'bandit12@bandit: ~'.

```
bandit11@bandit:~$ ls -la
total 24
drwxr-xr-x 2 root root 4096 May 7 2020 .
drwxr-xr-x 41 root root 4096 May 7 2020 ..
-rw-r--r-- 1 root root 220 May 15 2017 .bash_logout
-rw-r--r-- 1 root root 3526 May 15 2017 .bashrc
-rw-r--r-- 1 bandit12 bandit11 49 May 7 2020 data.txt
-rw-r--r-- 1 root root 675 May 15 2017 .profile

bandit11@bandit:~$ cat data.txt
Gur cnffjbeq vf 5Gr8L4qetPESpk8htqjHRK8XSP6x2RHH
bandit11@bandit:~$ echo ^C
bandit11@bandit:~$ echo Gur cnffjbeq vf 5Gr8L4qetPESpk8htqjHRK8XSP6x2RHH | tr '
N-ZA-Mn-za-m' 'A-Za-z'
The password is 5Te8Y4drgCRfCx8ugdWuEX8KFC6k2EUu
bandit11@bandit:~$
```

Level 12 to Level 13:

Password: 8ZjyCRiBWFYkneahHwxCv3wb2a1ORpYL

The screenshot shows a terminal window titled 'Ubuntu [Running] - Oracle VM VirtualBox' with a timestamp of 'Jun 25 19:36'. The prompt is 'bandit12@bandit: /tmp/tanmay123'. The user runs 'file data8.bin', which shows it's a gzip compressed file. Then, the user runs 'mv data8.bin data8.gz'. Next, the user runs 'ls -la', showing a directory listing with files like 'compress1', 'data5.bin', 'data6.bin.out', 'data8.gz', and 'data.txt'. The user then runs 'gunzip data8.gz'. Finally, the user runs 'cat data8', which reveals the password '8ZjyCRiBWFYkneahHwxCv3wb2a1ORpYL'. The prompt then changes to 'bandit13@bandit: /tmp/tanmay123'.

```
bandit12@bandit:/tmp/tanmay123$ file data8.bin
data8.bin: gzip compressed data, was "data9.bin", last modified: Thu May 7 18:
14:30 2020, max compression, from Unix
bandit12@bandit:/tmp/tanmay123$ mv data8.bin data8.gz
bandit12@bandit:/tmp/tanmay123$ ls -la
total 2044
drwxr-sr-x 2 bandit12 root 4096 Jun 25 16:04 .
drwxrws-wt 1 root root 2031616 Jun 25 16:04 ..
-rw-r--r-- 1 bandit12 root 20480 Jun 25 15:49 compress1
-rw-r--r-- 1 bandit12 root 10240 May 7 2020 data5.bin
-rw-r--r-- 1 bandit12 root 10240 May 7 2020 data6.bin.out
-rw-r--r-- 1 bandit12 root 79 May 7 2020 data8.gz
-rw-r--r-- 1 bandit12 root 2582 Jun 25 15:39 data.txt
bandit12@bandit:/tmp/tanmay123$ gunzip data8.gz
bandit12@bandit:/tmp/tanmay123$ ls -la
total 2044
drwxr-sr-x 2 bandit12 root 4096 Jun 25 16:04 .
drwxrws-wt 1 root root 2031616 Jun 25 16:04 ..
-rw-r--r-- 1 bandit12 root 20480 Jun 25 15:49 compress1
-rw-r--r-- 1 bandit12 root 10240 May 7 2020 data5.bin
-rw-r--r-- 1 bandit12 root 10240 May 7 2020 data6.bin.out
-rw-r--r-- 1 bandit12 root 49 May 7 2020 data8
-rw-r--r-- 1 bandit12 root 2582 Jun 25 15:39 data.txt
bandit12@bandit:/tmp/tanmay123$ file data8
data8: ASCII text
bandit12@bandit:/tmp/tanmay123$ cat data8
The password is 8ZjyCRiBWFYkneahHwxCv3wb2a1ORpYL
bandit12@bandit:/tmp/tanmay123$
```


Name: Tanmay Soni

Roll no: CH.EN.U4CYS20074

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Level 13 to Level 14:

Password: 4wcYUJFw0k0XLShIdzztnTBHixqU3b3e

```
Ubuntu [Running] - Oracle VM VirtualBox
Activities Terminal Jun 25 19:53
bandit13@bandit: ~
bandit13@bandit:~$ cat sshkey.private
-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEAxkOE83W2c0T7IWhFc9aPaaQmQDgzuXCv+ppZHa++buSkN+
gg0tcr7Fw8NLGa5+Uzecz2rEg0WmeevB13AIoYp0MZYETq46t+jk9puNwZwIt9XgB
ZuFgt2EwWbFw/vVLNwOXBe4UWstGRWzGpPeEsv5Tb1VjLZIBdGphTIK22Amz6Zb
ThMsIMnyJafEwJ/T8PQ03myS91vUHEuo0MAzoID4kN0MEZ3+XahyK0HJVq68KsV
ObefXG1vvA3GAJ29kxJaqrRfgYnqZryWN7w3CHJNU4c/2Jkp+n8L0SxaNA+WYA7
jiPyTF0is8uzMlyQ41Lzh/8/MpvhCQF8r22dwIDAQABAoIBAQC6dWBjhyEOzJea
J3j/RWmap9MSzfJ/wb2bfidNpwb8rsJ4sZIDZQ7XuIh4LfygoAQSS+bBw3RXvzE
pvJt3S5u8hIDuLscJL1VnBY5py7Bju8g8aR/3FyjjyNAqx/TLfzLLYf0u7l9Jet67
xAh0tONG/u8FB5I3LAIZVp60vIwvdWeC4nOxCthldpuPKNLA8rmMMVRTKQ+7T2VS
nXmwYckKUCUgozoVSpINZa50zUdypdy2+trH3MQa5kqN1YKjvF8RC47wo0YCKtsD
o3FFpGNFec9Taa3Msy+DfQqHhKZFKIL3bJDONtmrVvtYK40/yeU4aZ/HA2DQzwe
ol1AfIEhAoGBA0nVjosBkm7sbLK+n4IEwPxs8s0mhPnTDUy5WGrpScR0msVIBUF
lAl3ZGLx3xCIwtCnEucB9DvN2HZkucp/h6hTKUYLqXuyLD8njTrbRhLgbC9QrKrS
M12fSTxVqPtZ0lDmWjNR04xHA/fKh8bXXyTMq0HJTHHhbb3McdURjAoGBANKU
1hqfnw7+aXncJ9bjysr1ZWbqOE5Nd8AFgfwKuGTTVX2NsUqNCMWd0p+wFak40JH
PKwkJNdBG+ex0H9JNqSTK3X5PBMA58AFx0GrKeuKWA6erytVTqj0fLYcdp5+z9s
8DVCxDUvsm+l4X8UqIG0lvGbtKEVokHPFPX1q/dAoGAcHg5YX7WEehCgCYTZpO+
xysX85cm2q56xuZ3MqUWAXUwkh7NGZvhe0sGy9i0dANZwKw7mUUFVlaCMR/t54W1
GC83s0s3D7n5Mj8x3Nd08xFit7dT9a245Tva0Y7Kgmqp5g/ScKcW4c3eLLava+J
3bTnJeSIU+8ZXq9XjPRpKwUCgYA7z6Li0QKXNeXH3qHXcnHokB55maUj5fJNpBy
iDkyZ8ySF8GlcFsky8Yw6fWCqfG3zDrohJ5l9JmEsBh7SadkwsZhvecQcS9t4vby
9/8X4jS0P8lbfCKS4nBP+dT81kkg5Z5MohXBORA7VWx+ACohcDEkprSQ+w32xeD
qTEvQKbgQK8ms2ByvSUVs9GjTlCajFqLJ0eVYzRPaY6f++Gv/UVFAPV4c+S0
kAhpXbv5tbkzbs0eaLPTKgLzavXtQoTtKwrjpoLHKIHUz6Wu+n4abfAIRFubODN
/+aLoRQ0yBDRbdXMsZN/jvY44eM+xRLdRVyHmdPtP8belRi2E2aEzA==
-----END RSA PRIVATE KEY-----
bandit13@bandit:~$
```

```
Ubuntu [Running] - Oracle VM VirtualBox
Activities Terminal Jun 25 19:57
bandit14@bandit: ~
/+aLoRQ0yBDRbdXMsZN/jvY44eM+xRLdRVyHmdPtP8belRi2E2aEzA==
-----END RSA PRIVATE KEY-----
bandit13@bandit:~$ ssh -i sshkey.private bandit14@localhost
Could not create directory '/home/bandit13/.ssh'.
The authenticity of host 'localhost (127.0.0.1)' can't be established.
ECDSA key fingerprint is SHA256:98UL0ZW85496EtCRkKlo20X30PnyPSB5tB5RPbhzc.
Are you sure you want to continue connecting (yes/no)? yes
Failed to add the host to the list of known hosts (/home/bandit13/.ssh/known_ho
sts).
This is a OverTheWire game server. More information on http://www.overthewire.o
rg/wargames

Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux

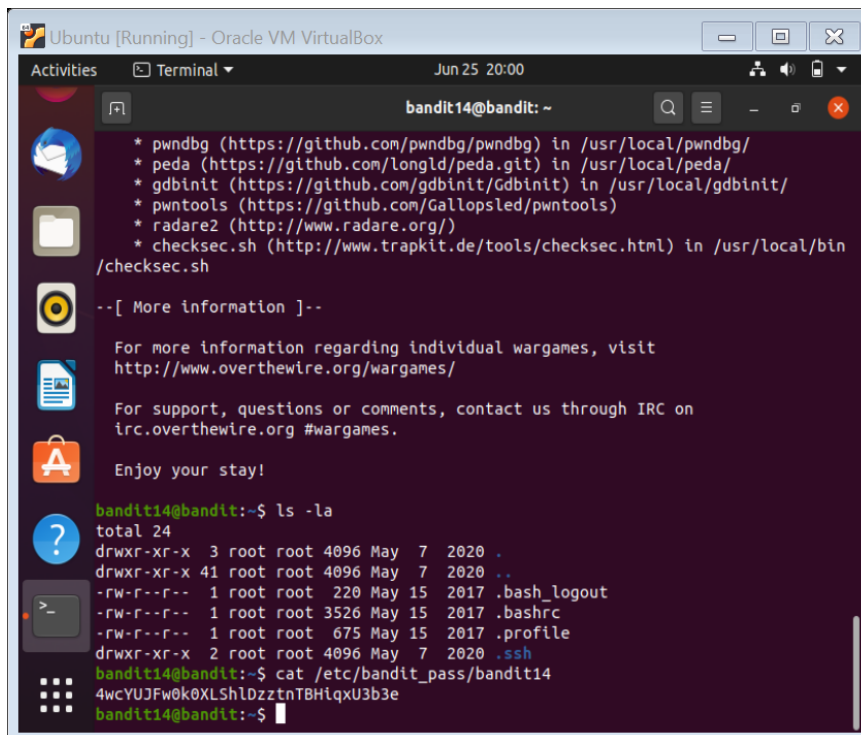
  OoM
 www. . . . ver . . . . he . . . . ire.org

Use the password to prove you are OverTheWire
```


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Roll no: CH.EN.U4CYS20074

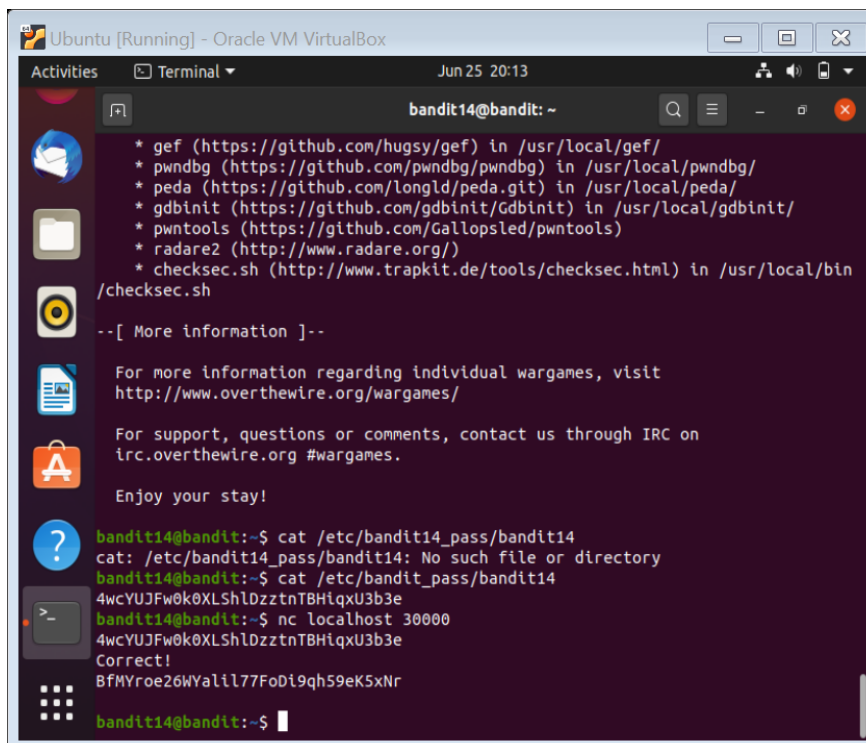
TASK-5



```
bandit14@bandit: ~  
* pwndbg (https://github.com/pwndbg/pwndbg) in /usr/local/pwndbg/  
* peda (https://github.com/longld/peda.git) in /usr/local/peda/  
* gdbinit (https://github.com/gdbinit/Gdbinit) in /usr/local/gdbinit/  
* pwntools (https://github.com/Gallopsled/pwntools)  
* radare2 (http://www.radare.org/)  
* checksec.sh (http://www.trapkit.de/tools/checksec.html) in /usr/local/bin/  
/checksec.sh  
  
--[ More information ]--  
  
For more information regarding individual wargames, visit  
http://www.overthewire.org/wargames/  
  
For support, questions or comments, contact us through IRC on  
irc.overthewire.org #wargames.  
  
Enjoy your stay!  
  
bandit14@bandit:~$ ls -la  
total 24  
drwxr-xr-x  3 root root 4096 May  7  2020 .  
drwxr-xr-x 41 root root 4096 May  7  2020 ..  
-rw-r--r--  1 root root  220 May 15  2017 .bash_logout  
-rw-r--r--  1 root root 3526 May 15  2017 .bashrc  
-rw-r--r--  1 root root  675 May 15  2017 .profile  
drwxr-xr-x  2 root root 4096 May  7  2020 .ssh  
bandit14@bandit:~$ cat /etc/bandit_pass/bandit14  
4wcYUJFw0k0XLShLDzztnTBHlqxU3b3e  
bandit14@bandit:~$
```

Level 14 to Level 15:

Password: BfMYroe26WYalil77FoDi9qh59eK5xNr



```
bandit14@bandit: ~  
* gef (https://github.com/hugsy/gef) in /usr/local/gef/  
* pwndbg (https://github.com/pwndbg/pwndbg) in /usr/local/pwndbg/  
* peda (https://github.com/longld/peda.git) in /usr/local/peda/  
* gdbinit (https://github.com/gdbinit/Gdbinit) in /usr/local/gdbinit/  
* pwntools (https://github.com/Gallopsled/pwntools)  
* radare2 (http://www.radare.org/)  
* checksec.sh (http://www.trapkit.de/tools/checksec.html) in /usr/local/bin/  
/checksec.sh  
  
--[ More information ]--  
  
For more information regarding individual wargames, visit  
http://www.overthewire.org/wargames/  
  
For support, questions or comments, contact us through IRC on  
irc.overthewire.org #wargames.  
  
Enjoy your stay!  
  
bandit14@bandit:~$ cat /etc/bandit14_pass/bandit14  
cat: /etc/bandit14_pass/bandit14: No such file or directory  
bandit14@bandit:~$ cat /etc/bandit_pass/bandit14  
4wcYUJFw0k0XLShLDzztnTBHlqxU3b3e  
bandit14@bandit:~$ nc localhost 30000  
4wcYUJFw0k0XLShLDzztnTBHlqxU3b3e  
Correct!  
BfMYroe26WYalil77FoDi9qh59eK5xNr  
bandit14@bandit:~$
```

Roll no: CH.EN.U4CYS20074

TASK-5

Level 15 to Level 16:

Password: cluFn7wTiGryunymYOu4RcffSxQluehd

```
bandit15@bandit: ~  
bandit15@bandit:~$ man openssl  
bandit15@bandit:~$ man openssl s_client  
bandit15@bandit:~$ openssl s_client -connect localhost:30001  
CONNECTED(00000003)  
depth=0 CN = localhost  
verify error:num=18:self signed certificate  
verify return:1  
depth=0 CN = localhost  
verify return:1  
---  
Certificate chain  
 0 s:/CN=localhost  
  i:/CN=localhost  
---  
Server certificate  
-----BEGIN CERTIFICATE-----  
MIICBjCCAwIgaWIBAgIEXCvBPtANBgkqhkiG9w0BAQUFADAUMRIWEAYDVQQDDAs6  
b2NhbnVhc3QwHicNMjIwMzA5MTk0NzQyYWhcNMjMwMzA5MTk0NzQyYwJAMRIWEAYD  
VQQDDAsb2NhbnVhc3QwZSw8DQYJKoZIhvcNAQEBBQADgYEAAWIGJAoGBALDCas6k  
DHxTRoxVISHTXOecWJS8as5BZN76HleAH6pYTadv9/FRssWL1xppFAtInFnVglu  
9SF3vHEQlry4F0oPBtBTgtGU2xhzZzkWRL5j2C3Q2c99cyh+uWQT7sXPtB8W1osPc  
YIo83YkXIarpt28474ZYdl+ohbPtP1oQHbv3AgMBAAEgJZTBjMBQGA1UEEQNQMAUC  
CXwvY2FsaG9zdDBLbgIghkgBhvhwCAQOEPhY8QXV0b21hdGljYWxsSBNZW5lcMF0  
ZWQ9YnkgnTmNhdC4gu2VLIGHodHBzoI8vbmlhCS5vcmcvbmNhdC8uMAOGCSqGSIB3  
DQEBAQAUAAGBAC2693WiK/kXMCAuf1FEg5DwuxIfm0saYKiLSceyZo1G4Igqq0BO  
9JCtvMIV/xRAMeYPvJmf0JtVv+2fsicaPh9E1GRMU0vGoYDZA7NTZ0gRMHLRke  
tjh/XSGrY7te1Qu+EflzmhcB35iZ7W5INIKLu7oyBWcw3ri4jtPqeZp  
-----END CERTIFICATE-----
```

```
Ubuntu [Running] - Oracle VM VirtualBox
Activities Terminal Jun 25 20:28
bandit15@bandit: ~
Master-Key: 387AB5860CB5FA7411EE549CE84E16903C5353486C1BA4F5536E32DB1453A7C
B97B8306426F8DCDE0371E0984869BCB
PSK identity: None
PSK identity hint: None
SRP username: None
TLS session ticket lifetime hint: 7200 (seconds)
TLS session ticket:
0000 - d3 53 01 d9 4c 2e 82 50-ef 16 38 c5 d8 1b dd f2 .S..L..P..8....
0010 - b9 cb b8 67 e4 20 a7 a6-83 e5 9f 7c 98 2d 6d f8 ...g.....|..m.
0020 - 46 99 d7 27 6c bd d7 1b-3d de 03 b2 ea ed 22 0b F..'l.....'.
0030 - f0 a5 8a fa a0 a1 3c 74-ac bb 75 ad 95 d5 57 92 ...<..u...W.
0040 - 92 c2 9b 24 17 6a bd 8c-6c 7a 23 ac 19 81 29 82 ...$.j..lz#...).
0050 - 80 ca 71 2b 19 65 20 40-c4 ec 7d c0 5f c2 3e 34 ..q+.e @..}_>4
0060 - 2f 31 eb 26 5c e3 6d 22-47 b1 5a b9 dd f3 e0 63 /1.&\.m"G.Z....c
0070 - 95 7c ab 82 e1 0a 5f 31-5e 41 e5 bd 13 80 66 91 .|....1^A....f.
0080 - a6 cb fd f7 2e 76 e5 0d-dc 41 3c c2 d1 5c 14 03 ...v...A<...\.
0090 - 5c 73 01 d9 46 f3 5e eb-57 08 0b 96 9e e5 30 3c \s..F.^W.....0<

Start Time: 1656168990
Timeout : 7200 (sec)
Verify return code: 18 (self signed certificate)
Extended master secret: yes

---
BfMYroe26WYalll77FoDi9qh59eK5XNr
Correct!
clUfn7wTiGrunymY0u4RcffsXqluehd

closed
bandit15@bandit:~$
```