

TASK-7

Over the wire bandit - wargames.

Passwords :

lvl 0→1: boJ9jbbUNNfktd78OOpsqOltutMc3MY1

lvl 1→2: CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9

lvl 2→3: UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK

lvl 3→4: pIwrPrtPN36QITSp3EQaw936yaFoFgAB

lvl 4→5: koReBOKuIDDepwhWk7jZC0RTdopnAYKh

lvl 5→6: DXjZPULLxYr17uwoI01bNLQbtFemEgo7

lvl 6→7: HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs

lvl 7→8: cvX2JJJa4CFALtqS87jk27qwqGhBM9plV

lvl 8→9: UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhR

lvl 9→10: truKLDjsbJ5g7yyJ2X2R0o3a5HQQJFuLk

lvl 10→11: IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR

lvl 11→12: 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu

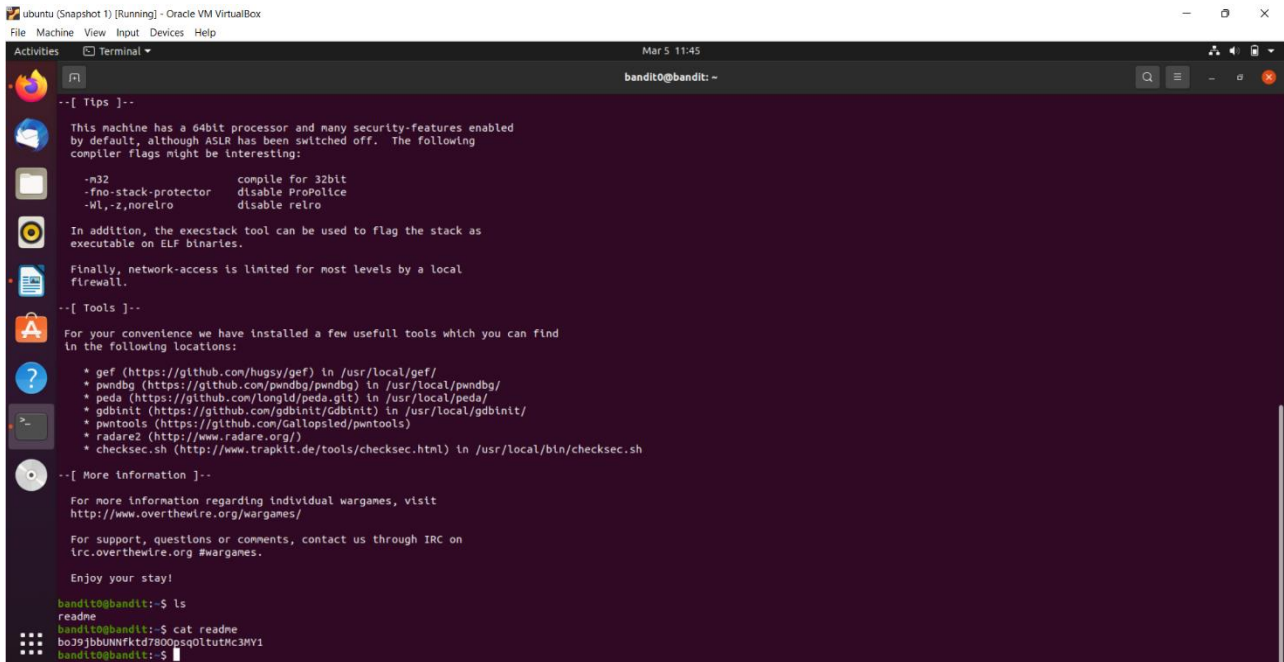
lvl 12→13: 8ZjyCRiBWFYkneahHwxCv3wb2a1ORpYL

lvl 13→14: 4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e

lvl 14→15: BfMYroe26WYalil77FoDi9qh59eK5xNr

lvl 15→16: cluFn7wTiGryunymYOu4RcffSxQluehd

lvl 0→1



```
ubuntu (Snapshot 1) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 5 11:45
bandit0@bandit: ~

--[ 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:

-n32          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 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/l0ng1d/peda.git) in /usr/local/peda/
* gdbintt (https://github.com/gdbintt/gdbintt) in /usr/local/gdbintt/
* 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 ]--

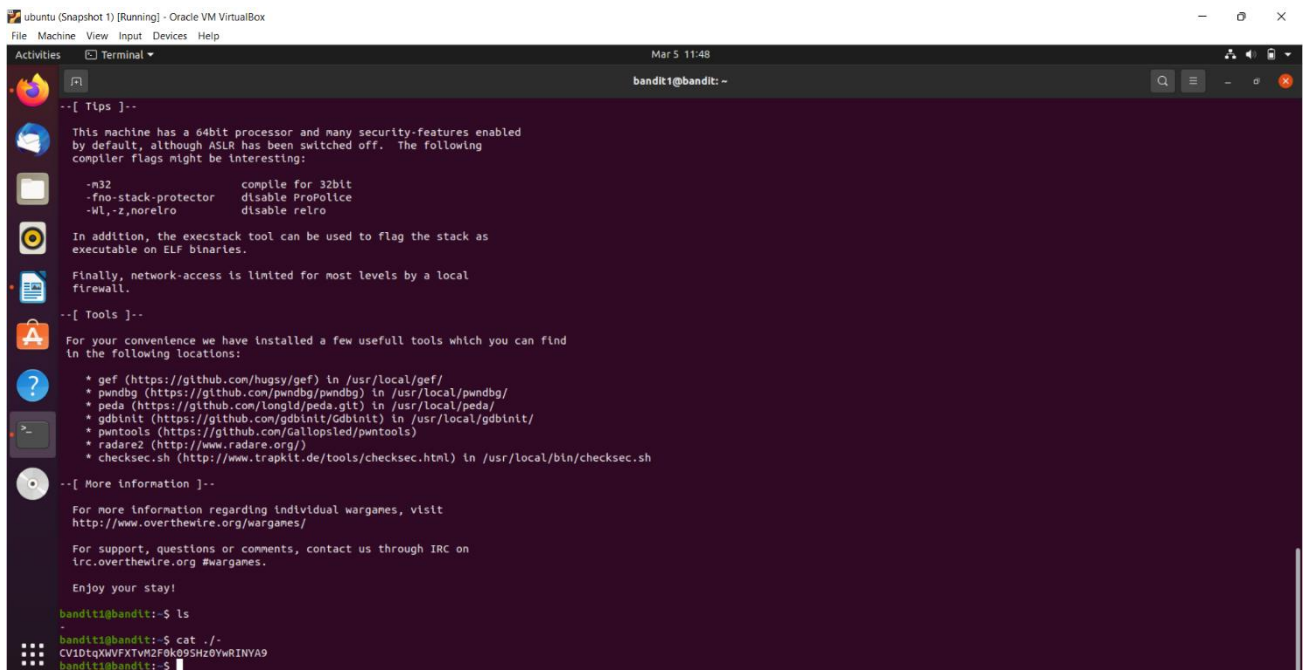
For more information regarding individual wargames, visit
http://www.overthewire.org/wargames/

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

Enjoy your stay!

bandit0@bandit:~$ ls
readme
bandit0@bandit:~$ cat readme
bo99bbUNNfKtd780QpsqItuMc3MY1
bandit0@bandit:~$
```

lvl 1→2



```
ubuntu (Snapshot 1) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 5 11:48
bandit1@bandit: ~

--[ 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:

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-fno-stack-protector  disable ProPolice
-Wl,-z,norelro  disable relro

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--[ More Information ]--

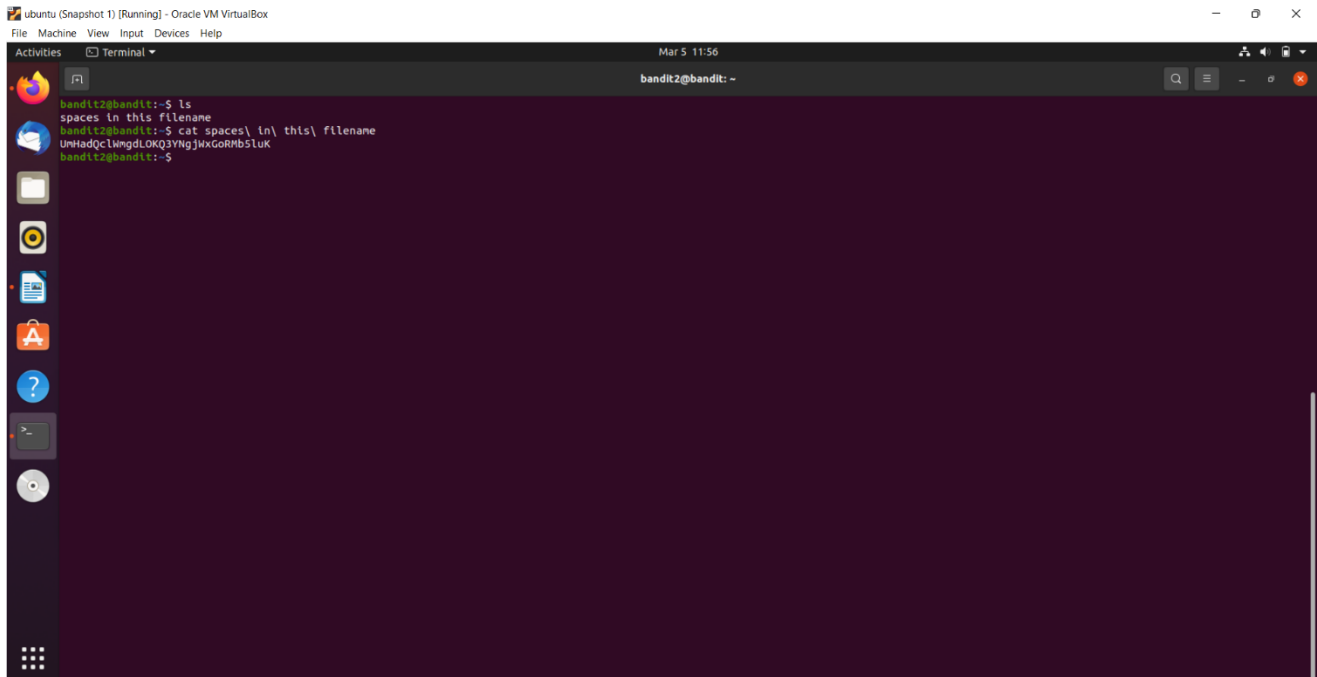
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Enjoy your stay!

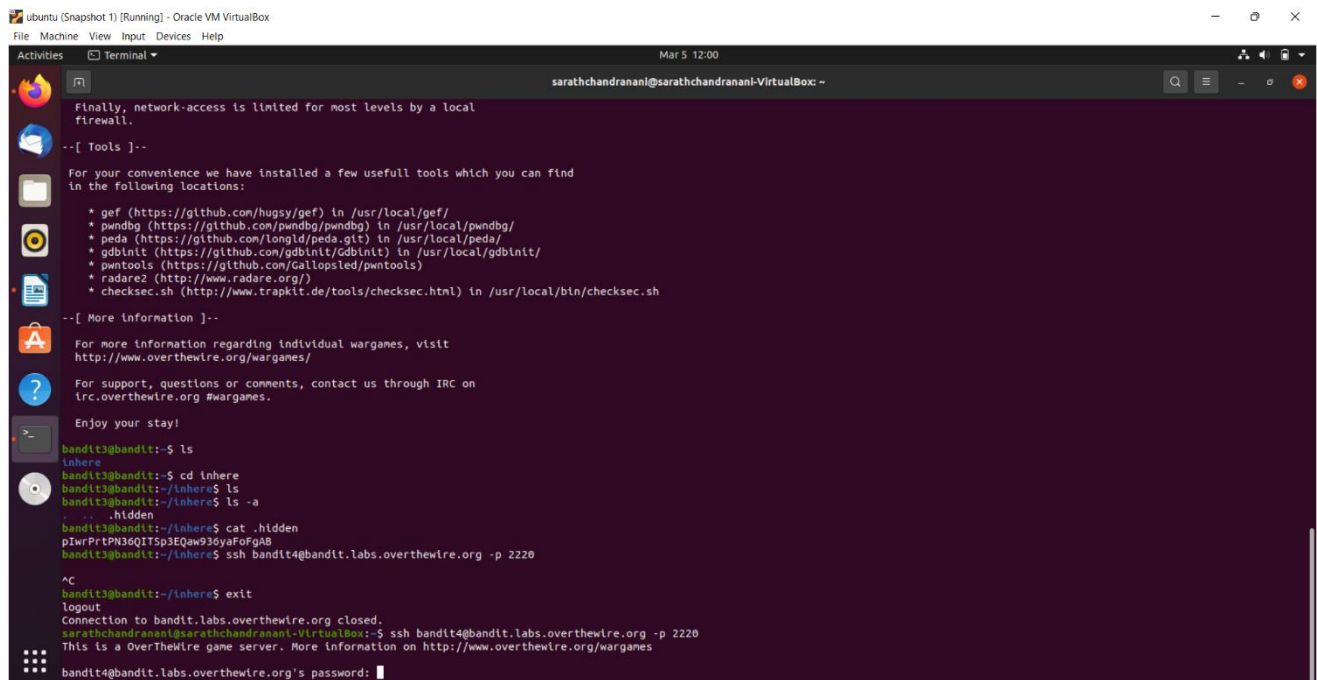
bandit1@bandit:~$ ls
-
bandit1@bandit:~$ cat ./-
CV1DtqXWVFXTvM2F0k09SHZ0YvRINYA9
bandit1@bandit:~$
```

lvl 2→3



```
ubuntu (Snapshot 1) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 5 11:56 bandit2@bandit: -
bandit2@bandit:~$ ls
spaces in this filename
bandit2@bandit:~$ cat spaces\ in\ this\ filename
UHAdQcLWmgdLOKQ3YNgJwXGoRMB5Luk
bandit2@bandit:~$
```

lvl 3→4



```
ubuntu (Snapshot 1) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 5 12:00 sarathchandranani@sarathchandranani-VirtualBox: -
Finally, network-access is limited for most levels by a local
firewall.

--[ Tools ]--

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* peda (https://github.com/longld/peda.git) in /usr/local/peda/
* gdbint (https://github.com/gdbint/gdbint) in /usr/local/gdbint/
* pwntools (https://github.com/Gallopsled/pwntools)
* radare2 (http://www.radare.org/)
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bandit3@bandit:~$ ls
inhere
bandit3@bandit:~$ cd inhere
bandit3@bandit:~/inhere$ ls
bandit3@bandit:~/inhere$ ls -la
.. .hidden
bandit3@bandit:~/inhere$ cat .hidden
pIwrPrPN36QITSp3EQaw936yaFoFgA8
bandit3@bandit:~/inhere$ ssh bandit4@bandit.labs.overthewire.org -p 2220

^C
bandit3@bandit:~/inhere$ exit
logout
Connection to bandit.labs.overthewire.org closed.
sarathchandranani@sarathchandranani-VirtualBox:~$ ssh bandit4@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
bandit4@bandit.labs.overthewire.org's password: 
```

lvl 4→5

```
ubuntu (Snapshot 1) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 5 12:04
bandit4@bandit: ~/inhere

--[ More information ]--
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Enjoy your stay!

bandit4@bandit:~$ ls
inhere
bandit4@bandit:~$ cd inhere
bandit4@bandit:~/inhere$ ls
-file00 -file01 -file02 -file03 -file04 -file05 -file06 -file07 -file08 -file09
bandit4@bandit:~/inhere$ find file ./
find: 'file ./': No such file or directory
bandit4@bandit:~/inhere$ find file ./
find: 'file': No such file or directory
./-file00
./-file01
./-file02
./-file03
./-file04
./-file05
./-file06
./-file07
./-file08
./-file09
bandit4@bandit:~/inhere$ file ./
./-file00: data
./-file01: data
./-file02: data
./-file03: data
./-file04: data
./-file05: data
./-file06: data
./-file07: ASCII text
./-file08: data
./-file09: data
bandit4@bandit:~/inhere$ cat ./-file07
koReBOKuIDepwMk7jZC0RTdopnAYKh
bandit4@bandit:~/inhere$
```

lvl 5→6

```
ubuntu (Snapshot 1) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 5 12:09
sarathchandranani@sarathchandranani-VirtualBox: ~

bandit5@bandit:~$ ls
inhere
bandit5@bandit:~$ cd inhere
bandit5@bandit:~/inhere$ ls
maybeh00 maybeh02 maybeh04 maybeh06 maybeh08 maybeh10 maybeh12 maybeh14 maybeh16 maybeh18
maybeh01 maybeh03 maybeh05 maybeh07 maybeh09 maybeh11 maybeh13 maybeh15 maybeh17 maybeh19
bandit5@bandit:~/inhere$ find -size 1033c
./maybeh07/.file2
bandit5@bandit:~/inhere$ cat ./maybeh07/.file2
DXjZPULLxYr17uwoI01bNLQbtFenEgo7

bandit5@bandit:~/inhere$ exit

logout
Connection to bandit.labs.overthewire.org closed.
sarathchandranani@sarathchandranani-VirtualBox:~$
```

lvl 6→7

ubuntu (Snapshot 1) [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Mar 5 12:14

bandit@bandit: ~

```
find: '/run/lvm': Permission denied
find: '/run/screen/S-bandit1': Permission denied
find: '/run/screen/S-bandit10': Permission denied
find: '/run/screen/S-bandit29': Permission denied
find: '/run/screen/S-bandit25': Permission denied
find: '/run/screen/S-bandit30': Permission denied
find: '/run/screen/S-bandit9': Permission denied
find: '/run/screen/S-bandit28': Permission denied
find: '/run/screen/S-bandit18': Permission denied
find: '/run/screen/S-bandit20': Permission denied
find: '/run/screen/S-bandit12': Permission denied
find: '/run/screen/S-bandit5': Permission denied
find: '/run/screen/S-bandit7': Permission denied
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-bandit3': 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-bandit13': 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
bandit@bandit:~$ cat /var/lib/dpkg/info/bandit7.password
HKBPTKQnIay4Fw76bEy8PVxKEDQRKtZs
bandit@bandit:~$
```

lvl 7→8

ubuntu (Snapshot 1) [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Mar 5 12:20

bandit@bandit: ~

```
--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
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* gdbint (https://github.com/gdbint/gdbint) in /usr/local/gdbint/
* pentools (https://github.com/callopted/pentools)
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--[ More Information ]--

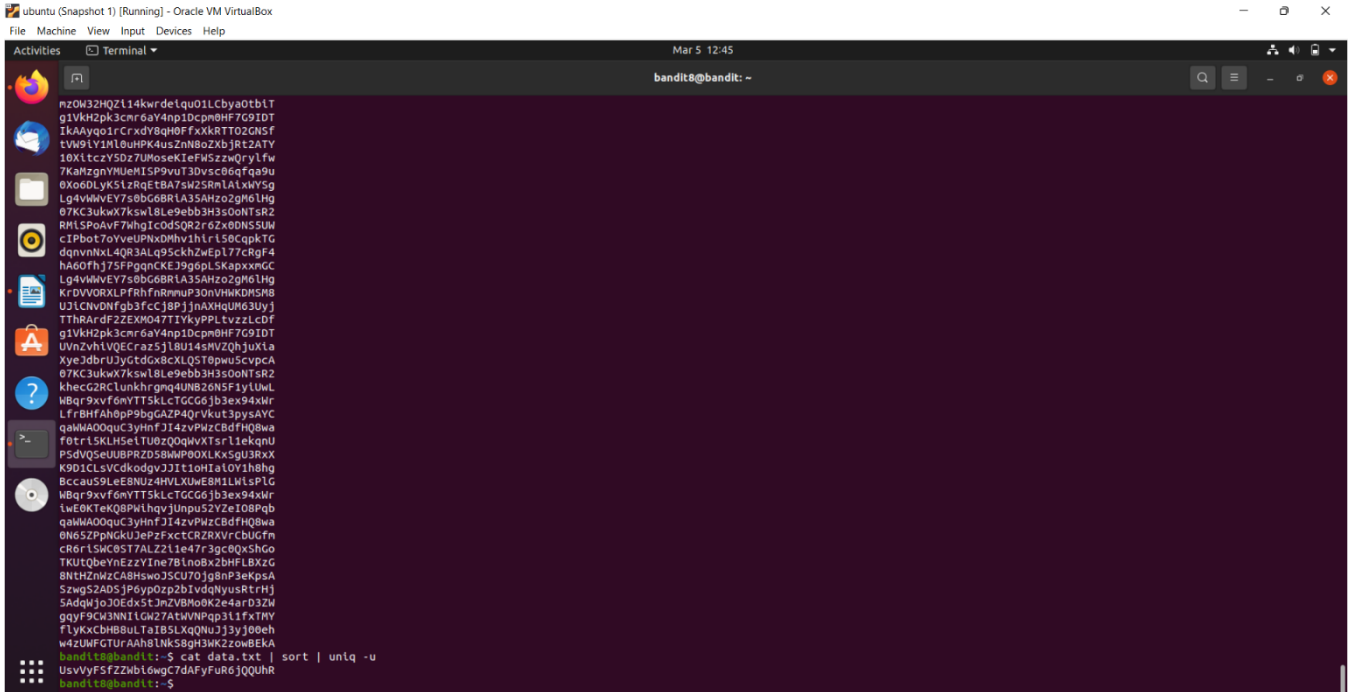
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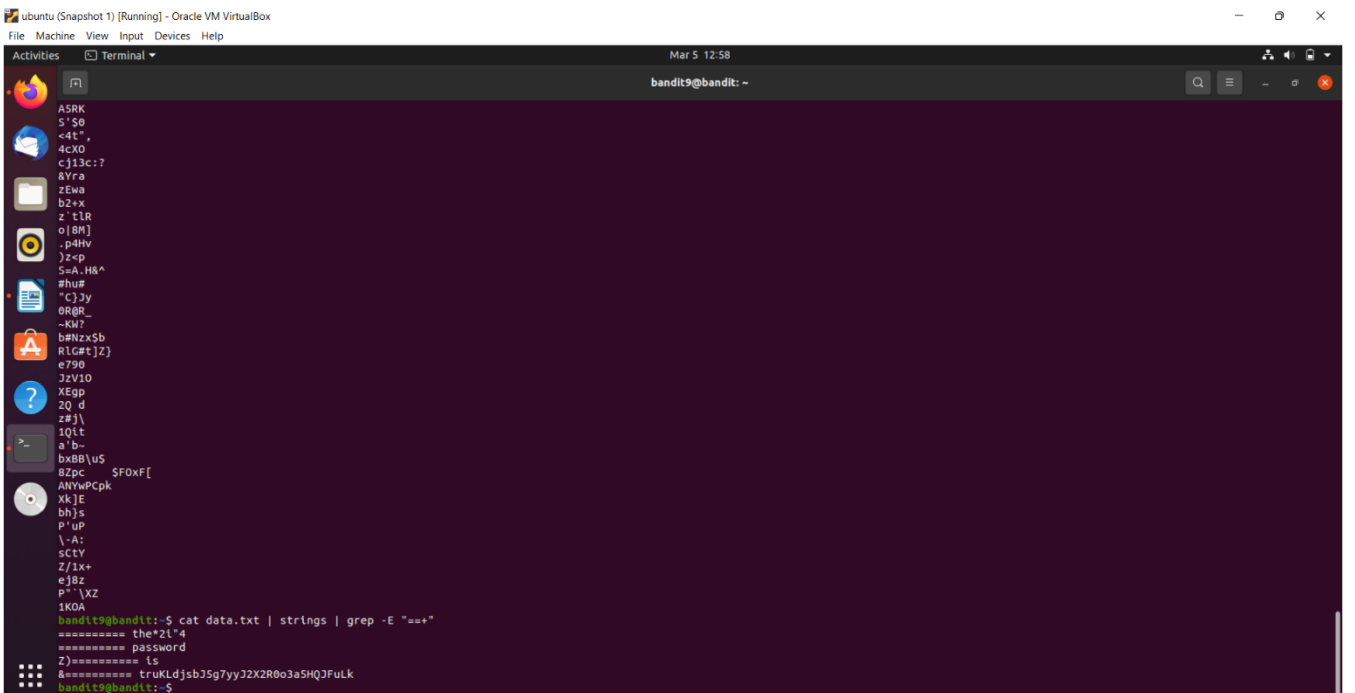
bandit7@bandit:~$ ls
data.txt
bandit7@bandit:~$ cat data.txt | grep millionth
millionth  cvX2JJa4CFALtqS87jk27qwqCh8M9pLV
bandit7@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
sarathchandraanil@sarathchandraanil-VirtualBox:~$ ssh bandit8@bandit.labs.overthewire.org -p2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
bandit8@bandit.labs.overthewire.org's password:
```

lvl 8→9



```
bandit8@bandit:~$ cat data.txt | sort | uniq -u
bandit9@bandit:~$
```

lvl 9→10



```
bandit9@bandit:~$ cat data.txt | strings | grep -E "=="
bandit10@bandit:~$
```

lvl 10→11

```
ubuntu (Snapshot 1) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 5 13:10
bandit10@bandit: -
-m32 compile for 32bit
-fno-stack-protector disable ProPolice
-Wl,-z,norelro disable relro

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* pwntools (https://github.com/Gallopsled/pwntools)
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bandit10@bandit:~$ ls
data.txt
bandit10@bandit:~$ cat data.txt
VchIiHbhc3N3b3JkIGZlZGdt3S0dzRlc4TU9XM0lSRnFyeEUxaHhUTkVlVVB5SG==
bandit10@bandit:~$ cat data.txt | base64
VkdobE10mhjM04ZyJNKA0LHBhpJRWXhZfD0M1MWZHpSBGh0VFUSeQwbFNSbkZSUUVVeGFiaFVU
a1ZpVlZCU0h0P0k
bandit10@bandit:~$ man base64
bandit10@bandit:~$ cat data.txt | base64 -d
The password is IFukwKsFW8MQ3IRfgrxE1hxTNEbUPR
bandit10@bandit:~$
```

lvl 11→12

```
ubuntu (Snapshot 1) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 5 13:32
bandit11@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/)
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bandit11@bandit:~$ ls
data.txt
bandit11@bandit:~$ cat data.txt
Gur cnffjbeq vf 5Gr8L4qetPEsK8htqjhR8XSP6x2RHH
bandit11@bandit:~$ cat data.txt | xxd
00000000: 4775 7220 636e 6666 6a62 6571 2076 6620  Gur cnffjbeq vf
00000010: 3547 7238 4c34 7165 7450 4573 506b 3868  5Gr8L4qetPEsK8h
00000020: 7471 6a68 524b 3858 5350 3678 3252 4868  tqjhR8XSP6x2RHH
00000030: 0a
bandit11@bandit:~$ cat data.txt | tr
tr: missing operand
Try 'tr --help' for more information.
bandit11@bandit:~$ cat data.txt | tr 'A-MN-Za-mn-z'
tr: missing operand after 'A-MN-Za-mn-z'
Two strings must be given when translating.
Try 'tr --help' for more information.
bandit11@bandit:~$ cat data.txt | tr 'A-Za-z' 'A-MN-Za-mn-z'
tr: missing operand after 'A-Za-MN-Za-mn-z'
Two strings must be given when translating.
Try 'tr --help' for more information.
bandit11@bandit:~$ cat data.txt | tr 'A-Za-z' 'A-MN-Za-mn-z'
Gur cnffjbeq vf 5Gr8L4qetPEsK8htqjhR8XSP6x2RHH
bandit11@bandit:~$ cat data.txt | tr 'A-Za-z' 'N-ZA-Mnn-za-n'
Tgd ozrrrnqhc hr 5T8BY4cfcRcW8tfcvtEX8KFC6j2EUT
bandit11@bandit:~$ cat data.txt | tr 'A-Za-z' 'N-ZA-Mn-za-n'
The password is 5T8BY4drgrFCxbugduEX8KFC6k2EUU
bandit11@bandit:~$
```


lvl 12→13

ubuntu (Snapshot 1) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

```
bandit12@bandit: /tmp/sarath_dir$
bandit12@bandit: /tmp/sarath_dir$ gzip -d data.gz
gzip: data.gz: not in gzip format
bandit12@bandit: /tmp/sarath_dir$ file data.gz
data.gz: POSIX tar archive (GNU)
bandit12@bandit: /tmp/sarath_dir$ mv data.gz data.tar
bandit12@bandit: /tmp/sarath_dir$ ls
data.tar  data.txt
bandit12@bandit: /tmp/sarath_dir$ tar -x -f data.tar
bandit12@bandit: /tmp/sarath_dir$ ls
data6.bin  data.tar  data.txt
bandit12@bandit: /tmp/sarath_dir$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
bandit12@bandit: /tmp/sarath_dir$ mv data6.bin data.bz2
bandit12@bandit: /tmp/sarath_dir$ ls
data.bz2  data.tar  data.txt
bandit12@bandit: /tmp/sarath_dir$ bzip2 data.bz2
bzip2: Input file data.bz2 already has .bz2 suffix.
bandit12@bandit: /tmp/sarath_dir$ file data.bz2
data.bz2: bzip2 compressed data, block size = 900k
bandit12@bandit: /tmp/sarath_dir$ bzip2 -d data.bz2
bandit12@bandit: /tmp/sarath_dir$ ls
data  data.tar  data.txt
bandit12@bandit: /tmp/sarath_dir$ file data
data: POSIX tar archive (GNU)
bandit12@bandit: /tmp/sarath_dir$ mv data file.tar
bandit12@bandit: /tmp/sarath_dir$ ls
data.tar  data.txt  file.tar
bandit12@bandit: /tmp/sarath_dir$ tar xf file.tar
bandit12@bandit: /tmp/sarath_dir$ ls
data8.bin  data.tar  data.txt  file.tar
bandit12@bandit: /tmp/sarath_dir$ 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/sarath_dir$ mv data8.bin file.gz
bandit12@bandit: /tmp/sarath_dir$ ls
data.tar  data.txt  file.gz  file.tar
bandit12@bandit: /tmp/sarath_dir$ gzip -d file.gz
bandit12@bandit: /tmp/sarath_dir$ ls
data.tar  data.txt  file  file.tar
bandit12@bandit: /tmp/sarath_dir$ file file
file: ASCII text
bandit12@bandit: /tmp/sarath_dir$ cat file
The password is 0ZjyCRiBWFYkneahHwcv3wb2a1ORpYL
bandit12@bandit: /tmp/sarath_dir$
```

lvl 13→14

ubuntu (Snapshot 1) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

```
bandit14@bandit: -
bandit14@bandit: -
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 reldro

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--[ More information ]--

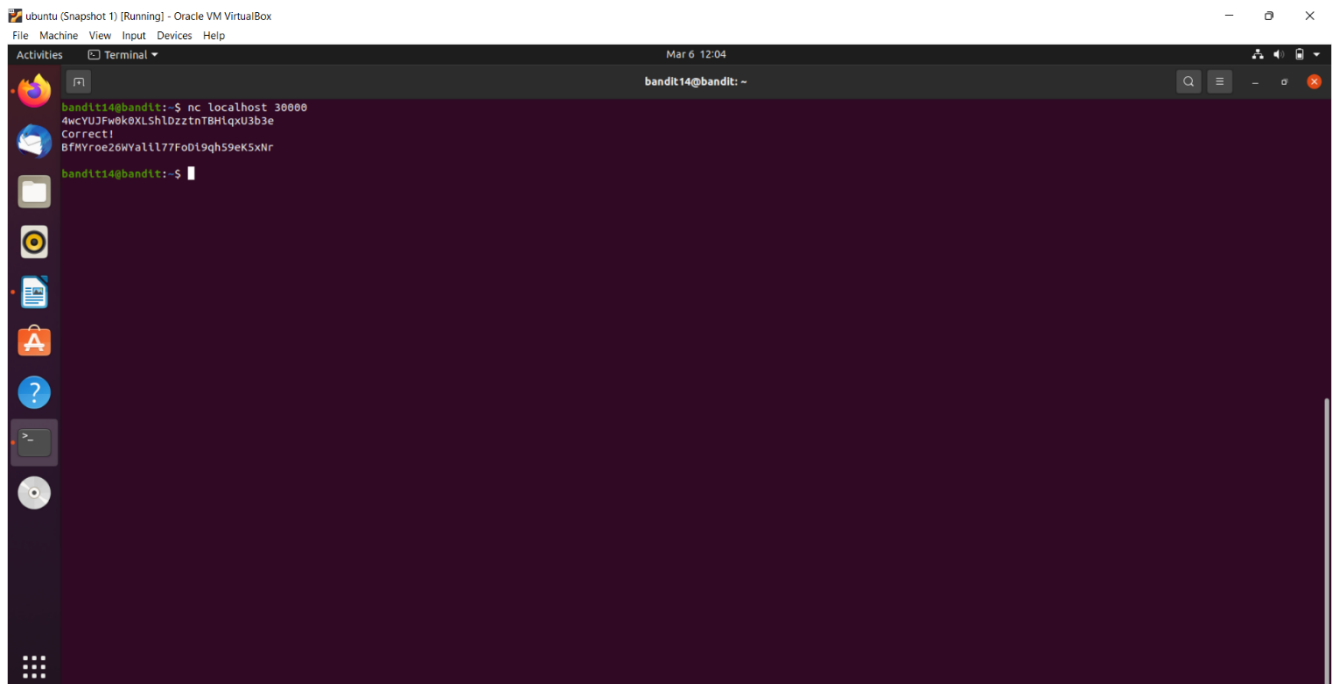
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Enjoy your stay!

bandit14@bandit: $ ls
bandit14@bandit: $ ls -a
.  ..  .bash_logout  .bashrc  .profile  .ssh
bandit14@bandit: $ cat .ssh
cat: .ssh: Is a directory
bandit14@bandit: $ cat /etc/bandit_pass/bandit14
4wcYUJFw0kXLShlDztnT8HlqXU3b3e
bandit14@bandit: $
```

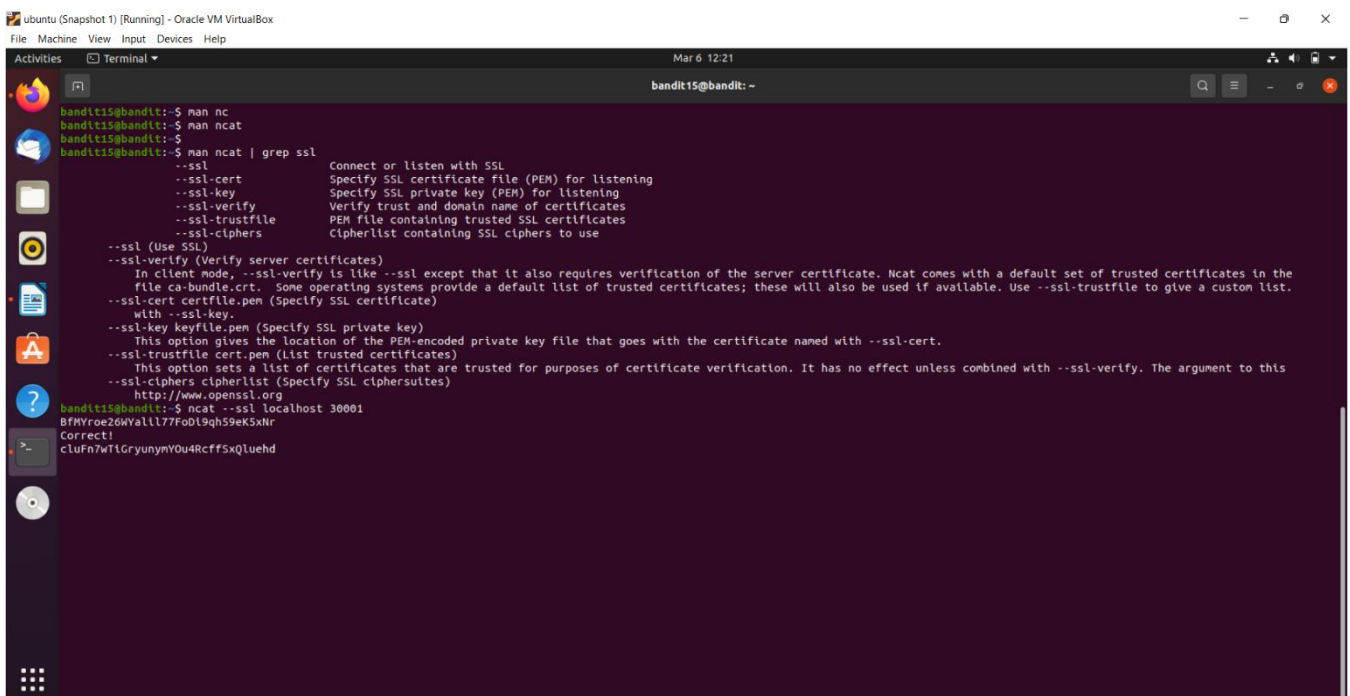

lvl 14→15



```
bandit14@bandit:~$ nc localhost 30000
4wcYUJFw6k0XLSh1DzztnTBHlqxU3b3e
Correct!
BFMYroe26WYall177FoD19qh59eK5xNr
bandit14@bandit:~$
```

lvl 15→16

S



```
bandit15@bandit:~$ man nc
bandit15@bandit:~$ man ncat
bandit15@bandit:~$
bandit15@bandit:~$ man ncat | grep ssl
--ssl          Connect or listen with SSL
--ssl-cert     Specify SSL certificate file (PEM) for listening
--ssl-key      Specify SSL private key (PEM) for listening
--ssl-verify   Verify trust and domain name of certificates
--ssl-trustfile PEM file containing trusted SSL certificates
--ssl-ciphers  Cipherlist containing SSL ciphers to use

--ssl (Use SSL)
--ssl-verify (Verify server certificates)
    In client mode, --ssl-verify is like --ssl except that it also requires verification of the server certificate. Ncat comes with a default set of trusted certificates in the
    file ca-bundle.crt. Some operating systems provide a default list of trusted certificates; these will also be used if available. Use --ssl-trustfile to give a custom list.
--ssl-cert certfile.pem (Specify SSL certificate)
    with --ssl-key.
--ssl-key keyfile.pem (Specify SSL private key)
    This option gives the location of the PEM-encoded private key file that goes with the certificate named with --ssl-cert.
--ssl-trustfile cert.pem (List trusted certificates)
    This option sets a list of certificates that are trusted for purposes of certificate verification. It has no effect unless combined with --ssl-verify. The argument to this
--ssl-ciphers cipherlist (Specify SSL ciphersuites)
    http://www.openssl.org
bandit15@bandit:~$ ncat -s localhost 30001
BFMYroe26WYall177FoD19qh59eK5xNr
Correct!
clUFn7wTlGryunmY0u4RcFf5xQluehd
```