```
bandit0@bandit: ~
  compiler flags might be interesting:
                                    compile for 32bit
disable ProPolice
disable relro
     -m32
-fno-stack-protector
     -Wl,-z,norelro
  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 ]--
* 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!
readme
bandit0@bandit:~$ cat readme
NH2SXQwcBdpmTEzi3bvBHMM9H66vVXjL
pandit0@bandit:~$
```

Bandit 0 => 1

1.Logged on using ssh

Hostname: bandit0 Password: bandit0

Port: 2220

- 2.Used ls command to look for files
- 3. Found a file named readme
- 4.Used cat command to read the file
- 5. Found the password to be NH2SXQwcBdpmTEzi3bvBHMM9H66vVXjL

```
bandit1@bandit: ~
                                                                                                                           compile for 32bit
disable ProPolice
disable relro
                   -fno-stack-protector
-Wl,-z,norelro
        In addition, the execstack tool can be used to flag the stack as executable on \ensuremath{\mathsf{ELF}} binaries.
        Finally, network-access is limited for most levels by a local firewall. % \begin{center} \end{center} \begin{center} \begin{
      -[ Tools ]--
   * 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!
   oandit1@bandit:~$
oandit1@bandit:~$ ls
-
bandit1@bandit:~$ cat ./-
rRGizSaX8Mk1RTb1CNQoXTcYZWU6lgzi
    andit1@bandit:~$
```

Bandit 1=>2

1.Logged on using ssh

Hostname: bandit1

Password: NH2SXQwcBdpmTEzi3bvBHMM9H66vVXjL

Port: 2220

- 2.Looked for files by using the ls command
- 3. Found a file named "-"
- 4. Found out that it starts with a special character and cant be directly opened with the cat command so added "./" after the command
- 5. Found the password to be rRGizSaX8Mk1RTb1CNQoXTcYZWU6lgzi

```
-m32 compile for 32bit
-fno-stack-protector disable ProPolice
-wl.-z.norelro disable ProPolice
-wl.-z.norelro disable ProPolice
-wl.-z.norelro disable ProPolice
-wl.-z.norelro disable relo

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/
* pundbo (https://github.com/com/pymdby) in /opt/pwndby/
* peda (https://github.com/com/longld/peda.git) in /opt/peda/
* gdbinti (https://github.com/com/longld/peda.git) in /opt/peda/
* puntools (https://github.com/comlopsled/pwntools)

* radarez (http://www.radare.org)

Both python2 and python3 are installed.
--[ 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!

banditz@bandit:-$
banditz@bandit:-$
banditz@bandit:-$ starpaces in this filename"
abZowismulfa/ThutTicpowdbbauf-22LAIG
banditz@bandit:-$
```

Bandit 2=>3

1.Logged on using ssh

Hostname: bandit2

Password: rRGizSaX8Mk1RTb1CNQoXTcYZWU6lgzi

Port: 2220

Host: bandit.labs.overthewire.org 2.Looked for files using the ls command

2.Looked for files using the is command

- 3. Found a file named "spaces in this filename"
- 4.Used the cat command on the file wrapped up in ""
- 5. Found the password to be aBZ0W5EmUfAf7kHTQeOwd8bauFJ2lAiG

Bandit 3=>4

1.Logged on using ssh

Hostname: bandit3

Password: aBZ0W5EmUfAf7kHTQeOwd8bauFJ2lAiG

Port: 2220

- 2.Looked for files using the ls command but didnt find any
- 3.So used the ls -a command to look for any hidden files found a file named .hidden
- 4.Used cat ./ command since it started with a special character
- 5. Found the password to be **2EW7BBsr6aMMoJ2HjW067dm8EgX26xNe**

```
In the following locations:

* gef (https://github.com/hugsy/gef) in /opt/gef/
* pundbg (https://github.com/pundbg/pundbg) in /opt/pundbg/
* peda (https://github.com/clongld/peda.git) in /opt/peda/
* gebinti (https://github.com/clongld/peda.git) in /opt/peda/
* gebinti (https://github.com/comlogitii (dighti) in /opt/peda/
* gebinti (https://github.com/comlogitii (dighti) in /opt/peda/
* gebinti (https://github.com/comlogitii (dighti) in /opt/peda/
* puntools (https://github.com/comlogitii (dighti) in /opt/peda/
* radarez (https://www.radare.org/)

Both python2 and python3 are installed.
---[ 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!
bandit4@bandit:-5
bandit4@bandit:-5 to there
bandit4@bandit:-5 to there
bandit4@bandit:-5 to there
bandit4@bandit:-5 to there
bandit4@bandit:-(hhere) in file02 -file03 -file04 -file05 -file06 -file07 -file08 -file09
bandit4@bandit:-(hhere) cat ./-file00
#Ope-@puntoolit-(hhere) cat ./-file03
#Ope-@puntoolit-(hhere) cat ./-file03
#Ope-@puntoolit-(hhere) cat ./-file03
#Ope-@puntoolit-(hhere) cat ./-file04
#Ope-puntoolit-(hhere) cat ./-file03
#Ope-puntoolit-(hhere) cat ./-file04
#Ope-puntoolit-(hhere) cat ./-file05
#Ope-puntoolit-(hhere) cat ./-file06
#Ope-puntoolit-(hhere) cat ./-file06
#Ope-puntoolit-(hhere) cat ./-file07
#Ope-puntoolit-(
```

Bandit 4=>5

1.Logged on using ssh

Hostname: bandit4

Password: 2EW7BBsr6aMMoJ2HjW067dm8EgX26xNe

Port: 2220

- 2.Looked for files using ls command
- 3. Found a file named inhere
- 4.Set that as directory using the cd command
- 5.Looked for files using the ls command and found 10 files
- 6.Looked into each one of them using the cat command
- 7. Found the password in "-file07"
- 8.Pass = lrIWWI6bB37kxfiCQZqUdOIYfr6eEeqR

```
banditS@bandit:-/inhers find -readable -type f -size 1033c -executable banditS@bandit:-/inhers find -readable -type f -size 1033c i -executable banditS@bandit:-/inhers find -readable -type f -size 1033c i -executable banditS@bandit:-/inhers find -readable -type f -size 1033c i -executable banditS@bandit:-/inhers find -readable -type f -size 1033c i -executable banditS@bandit:-/inhers find -readable -type f -size 1033c i -executable banditS@bandit:-/inhers find -readable -type f -size 1033c i -executable banditS@bandit:-/inhers find -readable -type f -size 1033c i -executable banditS@bandit:-/inhers find -readable -type f -size 103c -executable banditS@bandit:-/inhers find -readable -file -readable -type f -size 103c -executable banditS@bandit:-/inhers find -readable -file -fi
```

Bandit 5=>6

1.Logged on using ssh

Hostname: bandit5

Password: lrIWWI6bB37kxfiCQZqUdOIYfr6eEeqR

Port: 2220

Host: bandit.labs.overthewire.org
2.Looked for files using the ls command

3. Found a file named inhere and opened it

- 4. Found several files and thought they cant be checked one by one
- 5.Used the find command to find a file related to the clues given in the website
- 6.Used find -readable -type f -size 1033c! -executable
- 7. Found the file in .maybeinhere07/.file02
- 8. First opened a wrong file and then corrected it
- 9. Found the password to be P4L4vucdmLnm8I7VI7jG1ApGSfjYKqJU

```
find: '/run/user/11010': Permission dented
find: '/run/user/11024': Permission dented
find: '/run/user/11024': Permission dented
find: '/run/user/11092': Permission dented
find: '/run/user/11092': Permission dented
find: '/run/user/11020': Permission dented
find: '/run/user/11020': Permission dented
find: '/run/user/11025': Permission dented
find: '/run/user/110125': Permission dented
find: '/run/user/110105': Permission dented
find: '/run/user/11001': Permission dented
find: '/run/user/11011': Permission dented
find: '/run/user/11011': Permission dented
find: '/run/sudo': Permission dented
find: '/run/sudo': Permission dented
find: '/run/sudo': Permission dented
find: '/run/system/s-permission dented
find: '/run/creptattals/systemd-sysusers.service': Permission dented
find: '/run/creptattals/systemd-sysusers.service': Permission dented
find: '/run/systemd/inaccessible/dir': Permission dented
find: '/run/systemd/inaccessible/dir': Permission dented
find: '/run/systemd/inaccessible/dir': Permission dented
find: '/sys/kernel/tracing': Permission dented
find: '/sys/fs/bpf': Permission dented
find: '/sys/fs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  bandit6@bandit: ~
```

Bandit 6=>7

1.Logged on using ssh

Hostname: bandit6

Password: P4L4vucdmLnm8I7VI7jG1ApGSfjYKqJU

Port: 2220

- 2.Looked for files using the ls command and found nothing
- 3.Used the find command "find / -user bandit7 -group bandit6 -size 33c 2>/dev/null"
- 4.Got a path to a file
- 5.Used cat on that path
- 6. Found out the password to be **z7WtoNQU2XfjmMtWA8u5rN4vzqu4v99S**

```
bandit7@bandit: ~
                                                                                                                                compile for 32bit
disable ProPolice
disable relro
                  -fno-stack-protector
-Wl,-z,norelro
       In addition, the execstack tool can be used to flag the stack as executable on \ensuremath{\mathsf{ELF}} binaries.
       Finally, network-access is limited for most levels by a local firewall. % \begin{center} \end{center} \begin{center} \begin{
     -[ 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!
  pandit7@bandit:~$
pandit7@bandit:~$ ls
data.txt
  pardit7@bandit:~$ cat data.txt | grep millionth
millionth TESKZC0XvTetK0S9xNwm25STkSiWrBvP
pandit7@bandit:~$ [
```

Bandit 7=>8

1.Logged on using ssh

Hostname: bandit7

Password: z7WtoNQU2XfjmMtWA8u5rN4vzqu4v99S

Port: 2220

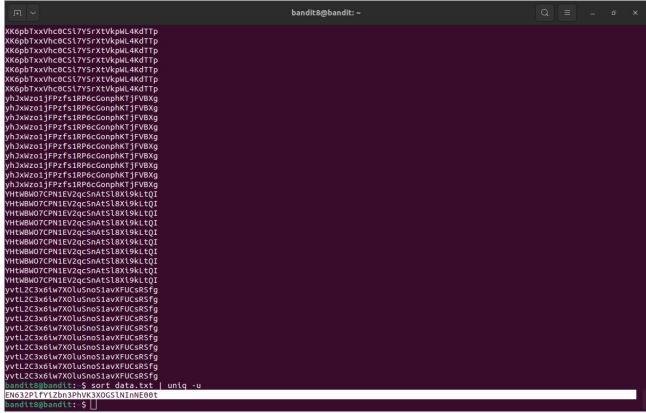
Host: bandit.labs.overthewire.org

2.Used the ls command to search for files and found data.txt

3.It is said that the password is next to the word millionth

4.So I used "cat data.txt | grep millionth

5. Found out the password to be TESKZC0XvTetK0S9xNwm25STk5iWrBvP



Bandit 8=>9

1.Logged on using ssh

Hostname: bandit8

Password: TESKZC0XvTetK0S9xNwm25STk5iWrBvP

Port: 2220

- 2.Used ls to search for any document
- 3.Found data.txt
- 4.Used sort data.txt | uniq -u
- 5. Found the unique password to be EN632PlfYiZbn3PhVK3XOGSlNInNE00t

```
bandit9@bandit: ~
     -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!
oandit9@bandit:~$
oandit9@bandit:~$ ls
data.txt
oandit9@bandit:~$ strings data.txt | grep =======
              = the#
```

Bandit 9=>10

1.Logged on using ssh

Hostname: bandit9

Password: EN632PlfYiZbn3PhVK3XOGSlNInNE00t

Port: 2220

- 2.Used ls command to look for any files
- 3.Found data.txt
- 4.It is said that the password contains a series of = symbols
- 5.So used strings data.txt | grep ====
- 6. Found out the password to be **G7w8LIi6J3kTb8A7j9LgrywtEUlyyp6s**

```
### Comparison of Comparison o
```

Bandit 10=>11\

1.Logged on using ssh

Hostname: bandit10

Password: G7w8LIi6J3kTb8A7j9LgrywtEUlyyp6s

Port: 2220

- 2.Used ls command to look for any files and found out data.txt
- 3. Opened the file using cat command
- 4.Looked at the two == symbols at the end and found out that it might be base 64 encoded string
- 5.Decoded it using base64 -d data.txt command
- 6. Found out the password to be 6zPeziLdR2RKNdNYFNb6nVCKzphlXHBM

```
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/
* punchog (https://github.com/com/dop/ghoda.git) in /opt/penda/
* peda (https://github.com/com/longld/peda.git) in /opt/peda/
* geblinit (https://github.com/com/longld/peda.git) in /opt/peda/
* puntools (https://github.com/com/longld/peda.git) in /opt/peda/
* geblinit (https://github.com/com/longld/peda.git) in /opt/peda/
* puntools (https://www.overthewtre.org/wargames/
* radarez (https://www.overthewtre.org/wargames/
For more information ]--

For more information regarding individual wargames, visit
http://www.overthewtre.org/wargames/
For support, questions or comments, contact us on discord or IRC.
Enjoy your stay!

bandtispandit:-5 lsw
Command 'lsw' not found, but can be installed with:
apt install suckless-tools
Please ask your administrator.
bandtispandit:-5 cat data.txt | tr 'A-Za-z' 'N-ZA-Mn-za-n'
The password is JNNgBFSnzwKKOPOXDFXOOMSchDzSyVRV
bandtispandit:-5 cat data.txt | tr 'A-Za-z' 'N-ZA-Mn-za-n'
The password is JNNgBFSnzwKKOPOXDFXOOMSchDzSyVRV
```

Bandit 11=>12

1.Logged on using ssh

Hostname: bandit11

Password: 6zPeziLdR2RKNdNYFNb6nVCKzphlXHBM

Port: 2220

- 2.Used ls command to look for any files and found out data.txt
- 3. Opened the file using cat command and got a weird set of characters
- 4.Googled it for some clues and found it to be a rot 13 encoded string
- 5.Used the cat data.txt | tr 'A-Za-z' 'N-ZA-Mn-za-m'
- 6. Found out the password to be JVNBBFSmZwKKOP0XbFXOoW8chDz5yVRv

```
modulo 2^32.581
bandit12@bandit1/kmp/=5 mv data.out data.gz
bandit12@bandit1/kmp/=5 grip -d data.gz
grip: data already exists, do you wish to overwrite (y or n)? y
bandit12@bandit1/kmp/=5 grip -d data.gz
grip: data already exists, do you wish to overwrite (y or n)? y
bandit12@bandit1?\mm/=5 file data
data: brip2 compressed data, block size = 900k
bandit12@bandit1/kmp/=5 bzip2 -d data
bzip2: Can't guess ortginal name for data- - using data.out
data.out: grip compressed data, was "data4.bin", last modified: Sun Apr 23 18:04:23 2023, max compression, from Unix, original size
modulo 2^32 20480
bandit12@bandit1/kmp/=5 grip -d data.gz
bandit12@bandit1/kmp/=5 file data.out
data.out: grip compressed data, was "data4.bin" between the compression of the
```

Bandit 12=>13

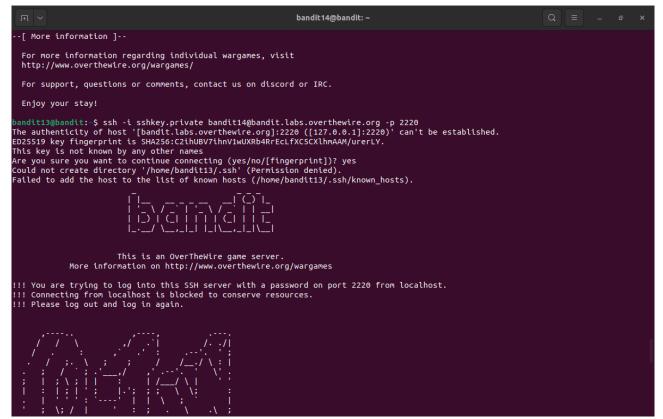
1.Logged on using ssh

Hostname: bandit12

Password: JVNBBFSmZwKKOP0XbFXOoW8chDz5yVRv

Port: 2220

- 2.Created a working folder using the mkdir command in *tmp*/ax/
- 3.Converted hex to binary using the xxd -x data.txt data.out
- 4. Checked the file type of data.out using the file command
- 5.It was in the gzip compressed format
- 6.Renamed data.out to data.gz using the my command
- 7.So decompressed using the gzip -d data.gz command
- 8. Again used the file command and found out that data is in bzip2 compressed file
- 9.So decompressed it using the bzip2 -d data
- 10.It gave a prompt that the file name has been changed to data.out
- 11. Checked the file type and found out that it is again gzip compressed format
- 12. Changed its name to data.gz and decompressed it again
- 13. Now the file type is in POSIX tar archive
- 14.So I used the tar command to decompress and repeated this until the file is in the ASCII text format
- 15 Used cat command on the file after it is converted to ASCII file
- 16. Found the password to be wbWdlBxEir4CaE8LaPhauuOo6pwRmrDw



Bandit 13=>14

1.Logged on using ssh

Hostname: bandit13

Password: wbWdlBxEir4CaE8LaPhauuOo6pwRmrDw

Port: 2220

Host: bandit.labs.overthewire.org

2. The password for the next level is in sshkey.private which we can use to directly login to level 14

```
bandit14@bandit: ~
       compiler flags might be interesting:
                 -m32 compile for 32bit
-fno-stack-protector disable ProPolice
-Wl,-z,norelro disable relro
                -Wl,-z,norelro
      In addition, the execstack tool can be used to flag the stack as executable on \ensuremath{\mathsf{ELF}} binaries.
      Finally, network-access is limited for most levels by a local firewall. % \begin{center} \end{center} \begin{center} \begin{
     -[ 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/ddbinit) 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!
   andit14@bandit:-$ cat /etc/bandit_pass/bandit14 | nc localhost 30000
jN2kgmIXJ6fShzhT2avhotn4Zcka6tnt
 oandit14@bandit:~$
```

Bandit 14=>15

- 1.Logged in directly from level 13 using the sshkey.private
- 2. The passwrod must be submitted to the port 30000
- 3. The password is in the etc/bandit_pass/bandit14
- 4.The pass can be submitted directly using cat etc/bandit_pass/bandit14
- 5.Got the password jN2kgmIXJ6fShzhT2avhotn4Zcka6tnt

Bandit 15=>16

1.Logged on using ssh

Hostname: bandit15

Password: jN2kgmIXJ6fShzhT2avhotn4Zcka6tnt

Port: 2220

- 2.The password for the next level can be retrieved by submitting the password of the current level to **port 30001 on localhost** using SSL encryption.
- 3. The pass is in *etc*bandit_pass/bandit15
- 4.The pass can be submitted using the command cat *etc*/bandit_pass/bandit15 | openssl s_client connect localhost:>30001 -quiet
- 5. Now we get the pass for the next level JqttfApK4SeyHwDlI9SXGR50qclOAil1

```
DSIZECHMATHAL-JFF,5604T6;28HMAM18BRGYGTMQTQ/KALHYW3DekePQALZBUYUND
3CT165CKDnzc/Jv4+mqQywarphtMa.JJTzAzQxhlbkRZMBCySvDLrjgGLMBCXFWX
XOVVIT/JnlRyfKuljMs-9EbWnj-nJrFQJuaQTDAQABAO18ABagpxpH1aoLMfV0
KKLjiBnqcaGe-deiliafYvQukfx-fyt-24pRhWlardsSt-fbaar=0jpRlLwollhNrxJBL
J9noN80.30vTrum43U0S6VxF8bWhJrYiVcnc1ssbbxpXuDLc9uX4-UESzHZ2P2Povd
d8BEF-V0pPxwBpbJLMxkzthHhhpVrfe0805ev9f1SwpBuyalAbssgTcxKknpUnpwnc
NNR0DDZ1bcBrvgT9VCklcc-zKurDs2y0Q9q0kwFTEQpjtF4uktJon-asvLpns8a
vLy9r60wYswZhlnBgUlrJyLxthHibkdwfrff7xf-bjlndxykulpJDGLSistonana
+TOWNBCGYFEASItrxPeGRJ+TQKX2G2jN3dElKza8kySnoJWQvdsx0NxHgRRhDRT
8c8hauRBbZG2SevDWHkfrur18050FC9TncnvZcrpoqspftkfkxrJgtT-qDPfZnx
SatLd18cfQ8SyA7hnwNJZNkr3NacSDny7SLsn+tBbALyc9P2jGRNtMSkCgYEAypHd
HctNlfyFujUy3aGwhw1ZvtxSAG2JWASbANyFm8xR7bDeifTXAssxx-Exdt
SqharBbZG2SvDVHkfrur18050FC9TncnvZcrpoqspftkfkxrJgtT-qDPfZnx
SatLd18cfQ8SyA7hnwNJZNkr3NacSDny7SLsn+tBbALyc9P2jGRNtMSkCgYEAypHd
HctNlfyFujUy3aGwhw1ZvtxSAG2JWASbANyFm8xR7bDeifTXAssxx-Exdt
SqharBbZG2SvDVHkfrur18050FC9TncnvZcrpoqspftkfkxrJgtT-qDPfZnx
SatLd18cfQ8SyA7hnwNJZNkr3NacSDny7SLsn+tBbALyc9P2jGRNtMSkCgYEAypHd
HctNlfyFujUy3aGwhw1ZvtxSAGQJUAbCyANDfvtntC2CgSyC3CJTFNKOHJF6C0Tu
L8ktHMPvodBwhsSBULpGQKg8gaplTfC1HonMtMcOuJKPwYkt0oCcdTRmJOnLBNt
blbely2P3-6Sxgg1R8NSRQWZvxtxSAGQJUAbCXAHAVYK1OGCCdTRmJONLBNt
blbely2P3-6Sxgg1R8NSRQWZvxtxSAGQJUAbCXAHATVANAWWL
V0dJHdSookvQNNMusucyLRAMFUJSeXw3a/9p7ftpxn0fsgywnflF2NJAEwyXqaa
Y7PBAOCAMPJJAJdje-E28dVJxTxtSAQQJUAbdAddydZyQTYGVTQSUAZEAnbXvwMkU
V0dJHdSookvQNNMusucyLRAMFUJSeXw3a/9p7ftpxn0fsgywnflF2NJAEwyXqaa
Y7PBAOCAMPJJAJdje-E28dVJxTkSAQQJUAbdAddydZyQTYGYTQSUAZEAnbXvwMkU
V0dJHdSookvQNNMusucyLRAMFUJSeXw3a/9p7ftpxn0fsgywnflF2NJAEwyXqaa
Y7PBAOCAMPJJAJdje-E28dVJxTkSAQQJUAbdAddydZyQTYGYTQSUAZEAnbXvwMkU
V0dJHdSookvQNNMusucyLRAMFUJSeX nano sshkey.private
Unable to create directory /hone/bandtitl06
bandtitgBbandti; 5 cd /tmp/bandtitl05
sarch flooralyshare/nano/: No such file or directory
It is required for saving/loading search history or cursor positions.

bandtitgBbandti; /tmp/bandtitl05
sh -i sshkey.private
bandtitgBband
```

Bandit 16=>17

1.Logged on using ssh

Hostname: bandit16

Password: JqttfApK4SeyHwDlI9SXGR50qclOAil1

Port: 2220

Host: bandit.labs.overthewire.org

2.Search for open ports in between 31000 and 32000 which have server listening on them and must speak ssl

3.So I used "for i in {31000..32000}; do"

- > SERVER="localhost"
- > PORT=\$i
- > (echo > /dev/tcp/\$SERVER/\$PORT) >& /dev/null &&
- > echo "Port \$PORT open"
- 4. This gave me 5 ports out of which only two have echo and one have ssl listening to it
- 5. So the password has been sent to the port 31790 using the command "cat

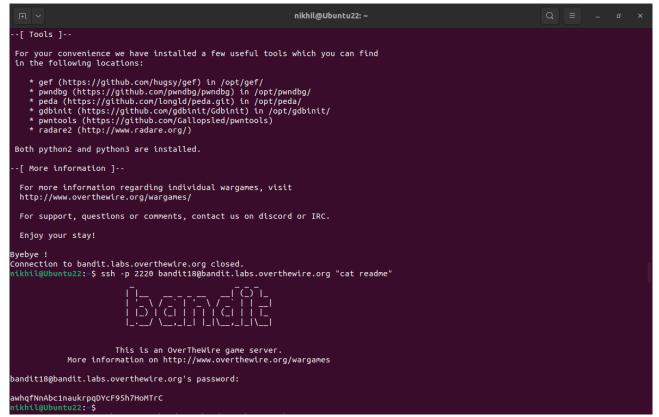
/etc/bandit_pass/bandit16 | openssl s_client -connect localhost:31790 -quiet"

- 5. Sending the pass gave me a private rsa key
- 6. Now I created a directory using the mkdir command
- 7.Used the nano command to save the private key and named it to be sshkey.private
- 8. Now used chmod 400 sshkey.private to change the permission of the key to only admin
- 9. Now I used this key to directly access level 17

```
nikhil@Ubuntu22: ~
      Finally, network-access is limited for most levels by a local firewall. % \begin{center} \end{center} \begin{center} \begin{
    -[ Tools ]--
 * 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!
passwords.new passwords.old
bandit17@bandit:~$ diff passwords.old passwords.new
     glZreTEH1V3cGKL6g4conYqZqaEj0mte
     hga5tuuCLF6fFzUpnagiMN8ssu9LFrdg
             dit17@bandit:~$ exit
 logout
  Connection to bandit.labs.overthewire.org closed.
Connection to bandit.labs.overthewire.org closed.
nikhil@Ubuntu22:~$ []
```

Bandit 17=>18

- 1.Logged in directly from level 16 using the private key given previously
- 2.Ran the ls command to look for the password files
- 3.Used diff command to compare the two files line by line
- 4.Used the first line of password and my permission to level 18 got denied
- 5. Now used the second line of password and got "ByeBye" at the end
- 6. Second line is hga5tuuCLF6fFzUpnagiMN8ssu9LFrdg



Bandit 18=>19

- 1.Gets logged out if we try to login like the other levels
- 2. The password for the next level is in the readme file
- 3.So we can directly enter the command cat readme wrapped with ""
- **4.**Then after entering the password we get the key for next levl to be **awhqfNnAbc1naukrpqDYcF95h7HoMTrC**

```
bandit19@bandit: ~
        -fno-stack-protector
-Wl,-z,norelro
                                                     disable ProPolice
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!
  oandit19@bandit:~$ ls
bandit19@bandit:-$ ts
bandit20-do
bandit19@bandit:-$ ./bandit20-do
Run a command as another user.
Example: ./bandit20-do id
bandit19@bandit:-$ ./bandit20-do cat /etc/bandit pass/bandit20
VXCazJaVykI6W36BkBU0mJTCM8rR95XT
bandit19@bandit:-$
```

Bandit 19=>20

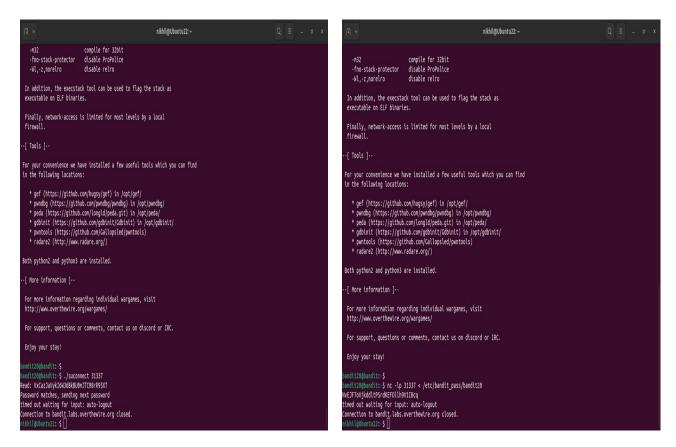
1.Logged on using ssh

Hostname: bandit19

Password: awhqfNnAbc1naukrpqDYcF95h7HoMTrC

Port: 2220

- 2.Used ls command to check for files
- 3. The password must be accessed as another user bandit 20-do
- 4.So I used the command ./bandit20-do cat "/etc/bandit_pass/bandit20"
- 5. Found out the password to be VxCazJaVykI6W36BkBU0mJTCM8rR95XT



Bandit 20=>21

1.Logged on using ssh

Hostname: bandit20

Password: VxCazJaVykI6W36BkBU0mJTCM8rR95XT

Port: 2220

Host: bandit.labs.overthewire.org

2. Established a connection with ./suconnect 31337 command

3. Sent the password through another terminal using nc command

4. Then got the password NvEJF7oVjkddltPSrdKEFOllh9V1IBcq