Overthewire Bandit Level 0 - 15


```
bandit0@bandit: ~

Microsoft Windows [Version 10.0.22000.493]
(c) Microsoft Corporation. All rights reserved.

C:\Users\shanm>ssh bandit0@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames

bandit0@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux

        ,----..            ,----,              .----.
       /   /   \         ,/   .`|          /.  ./|
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    .   |  ' ' ' :`----'   |  |   \   \  ,      |
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  www. `---` ver       '---' he        '---" ire.org


Welcome to OverTheWire!

If you find any problems, please report them to Steven or morla on
irc.overthewire.org.

--[ 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
bandit0@bandit:~$
```

```
bandit0@bandit: ~

  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/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 ]--

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  Enjoy your stay!

bandit0@bandit:~$ ls
readme
bandit0@bandit:~$ cat readme
boJ9jbbUNNfktd78OOpsqOltutMc3MY1
bandit0@bandit:~$
```

1. level1-- boJ9jbbUNNfktd78OOpsqOltutMc3MY1

```
bandit1@bandit:~$ ls
-
bandit1@bandit:~$ cat ./-
CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9
bandit1@bandit:~$
```

2. level2 -- CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9

```
bandit2@bandit:~$ ls
spaces in this filename
bandit2@bandit:~$ cat spaces\ in\ this\ filename
UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK
bandit2@bandit:~$
```

3. level3 -- UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK

```
     * 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/)
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bandit3@bandit:~$ ls
inhere
bandit3@bandit:~$ cd inhere/
bandit3@bandit:~/inhere$ ls
bandit3@bandit:~/inhere$ ls -a
.  ..  .hidden
bandit3@bandit:~/inhere$ cat .hidden
pIwrPrtPN36QITSp3EQaw936yaFoFgAB
bandit3@bandit:~/inhere$
```

4. Level4 -- pIwrPrtPN36QITSp3EQaw936yaFoFgAB

```
--[ 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$ file ./-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
koReBOKuIDDepwhWk7jZC0RTdopnAYKh
bandit4@bandit:~/inhere$
```

5. level5 -- koReBOKuIDDepwhWk7jZC0RTdopnAYKh

6. level6 -- DXjZPULLxYr17uwoI01bNLQbtFemEgo7

7. level7 -- HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs

Zanuck 30KRlOQjnCq5DyqNZePHAD6tCZbVjT1f
baritone   XSodKcCZa05ckkLyP4uXwrjIVaCzKcpq
lineman's   Gh8HTLmWxnXJxZF4DzhuiRpV8xejb6yw
aquas   RkI4EWYAjHPMexRFTY9Rq7vQtjhiKgZw
swaddled   snDpr6ve7nuPsjBoTGLrmpOYomdhVzAH
garishness's   UbK1yZ2nCO2GEjArlASLw0bT8jgOp9rx
Benny's QQkZrdiFs47KckVLi5ifsFqtLcRxyjvZ
regulated   sxJ8HT73fvZMMIicL50nhawcrsYGUiWP
knotting   vh268WJXw1OSnszed9MVaHD4rTP69lZr
hymnals 7MqsN32lfDbPigtAX6cwFbMZcPAMUoae
Fremont tCy02wC8xdpFqjlZ8xdBQYAHFZPHk7ls
punter's   zAfzaA1IOuBSamCR6eMmRoc9oNXPQ16a
junking 6Tlr5K8YZ1d2Xsdku3TTFYXWB6WOMXyT
Aymara zSeUS0UyD8Q6a6YPwaClRBbk1x8kFBEc
waned   gL59r6xvewh5y8t0mgiNtHtCUMG8S6Id
conceded   TWLUptX3HbwD4qsYOQ9sENOnOiNy79sC
kilned kLjrgoJvftIyUyotuOI4cxFcxQXbC6aS
Santayana   KKn1I4fuWdzKyvffp1aYrBDzQa3Tr3Pk
Antigua dRyNieqAg0OkCgrKVQFXMXS06vFArL55
heyday UAGwMlFzylGa4fHpQZEelUQEZ5JlUpyX
praiseworthiness's   bjRB0uGXM4dH7ip9hHB3mbFBMMwlNKNq
separatism   p2167YTCJseAv4YhLZNb2fs7JivlDLUW
plan   PLz4ZXwX02fEe4oMd1I78wQXl4MIMxTf
confrontation   KlHScgMgzyBQYxBXkxsjKcQ2A5erDIjL
briquet's   aHc51xHj1t3ANF7jH26dd7mHWBfd8VKz
encapsulate   STOVYQEMWtFz54JtjJRrhDXgZcfVw8lS
wildfowls   PqcMofjmKj8NBvO9exdu7FY2NG6WUMzb
Finland xgXsIYgqUCMriMoT7W2dSwTG1DCvbRvU
bandit7@bandit:~$ cat data.txt | grep millionth
millionth   cvX2JJa4CFALtqS87jk27qwqGhBM9plV
bandit7@bandit:~$

8. level8 -- cvX2JJa4CFALtqS87jk27qwqGhBM9plV

WBqr9xvf6mYTT5kLcTGCG6jb3ex94xWr
LfrBHfAh0pP9bgGAZP4QrVkut3pysAYC
qaWWAOOquC3yHnfJI4zvPWzCBdfHQ8wa
f0tri5KLH5eiTU0zQOqWvXTsrl1ekqnU
PSdVQSeUUBPRZD58WWP0OXLKxSgU3RxX
K9D1CLsVCdkodgvJJIt1oHIaiOY1h8hg
BccauS9LeE8NUz4HVLXUwE8M1LWisPlG
WBqr9xvf6mYTT5kLcTGCG6jb3ex94xWr
iwE0KTeKQ8PWihqvjUnpu52YZeIO8Pqb
qaWWAOOquC3yHnfJI4zvPWzCBdfHQ8wa
0N65ZPpNGkUJePzFxctCRZRXVrCbUGfm
cR6riSWC0ST7ALZ2i1e47r3gc0QxShGo
TKUtQbeYnEzzYIne7BinoBx2bHFLBXzG
8NtHZnWzCA8HswoJSCU7Ojg8nP3eKpsA
SzwgS2ADSjP6ypOzp2bIvdqNyusRtrHj
5AdqWjoJOEdx5tJmZVBMo0K2e4arD3ZW
gqyF9CW3NNIiGW27AtWVNPqp3i1fxTMY
flyKxCbHB8uLTaIB5LXqQNuJj3yj00eh
w4zUWFGTUrAAh8lNkS8gH3WK2zowBEkA
bandit8@bandit:~$ cat data.txt | sort | uniq -u
UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhR
bandit8@bandit:~$

9. level9 -- UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhR

10. level10 -- truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk

11. level11 -- IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR

```
    * 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 ]--

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bandit11@bandit:~$ ls
data.txt
bandit11@bandit:~$ cat data.txt
Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHh
bandit11@bandit:~$ cat data.txt | tr '[A-Za-z]' '[N-ZA-Mn-za-m]'The password is 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu
bandit11@bandit:~$
```

12. level12 -- 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu


```
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/shannu$ mv data5.bin data.tar
bandit12@bandit:/tmp/shannu$ tar xf data.tar
bandit12@bandit:/tmp/shannu$ ls
data6.bin  data.tar
bandit12@bandit:/tmp/shannu$ rm data.tar
bandit12@bandit:/tmp/shannu$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/shannu$ mv data6.bin data.bz2
bandit12@bandit:/tmp/shannu$ bzip2 -d data.bz2
bandit12@bandit:/tmp/shannu$ ls
data
bandit12@bandit:/tmp/shannu$ file data
data: POSIX tar archive (GNU)
bandit12@bandit:/tmp/shannu$ mv data data.tar
bandit12@bandit:/tmp/shannu$ tar xf data.tar
bandit12@bandit:/tmp/shannu$ ls
data8.bin  data.tar
bandit12@bandit:/tmp/shannu$ rm data.tar
bandit12@bandit:/tmp/shannu$ 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/shannu$ mv data8.bin data.gz
bandit12@bandit:/tmp/shannu$ gzip -d data.gz
bandit12@bandit:/tmp/shannu$ ls
data
bandit12@bandit:/tmp/shannu$ file data
data: ASCII text
bandit12@bandit:/tmp/shannu$ cat data
The password is 8ZjyCRiBWFYkneahHwxCv3wb2a1ORpYL
bandit12@bandit:/tmp/shannu$
```

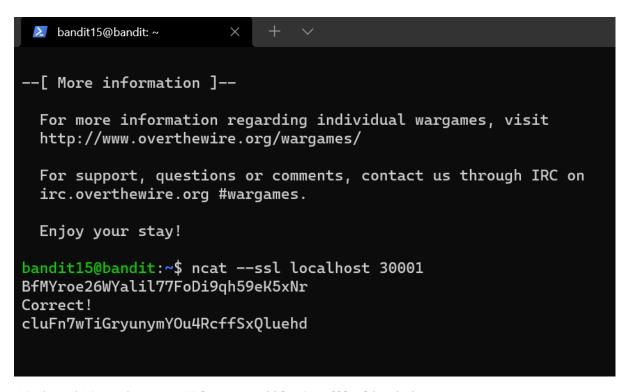## 13. level13 -- 8ZjyCRiBWFYkneahHwxCv3wb2a1ORpYL

```
    * 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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bandit13@bandit:~$ ls
sshkey.private
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 SHA256:98UL0ZWr85496EtCRkKlo20X3OPnyPSB5tB5RPbhczc.
Are you sure you want to continue connecting (yes/no)? y
Please type 'yes' or 'no': yes
Failed to add the host to the list of known hosts (/home/bandit13/.ssh/known_hosts).
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames

Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux

    ,----..            ,----,            .---.
   /   /   \         ,/   .`|          /. ./|
  /   .     :      ,`   .'  :      .--'.  ' ;
```

```
    * pwntools (https://github.com/Gallopsled/pwntools)
    * radare2 (http://www.radare.org/)
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bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e
bandit14@bandit:~$
```

14. level14 -- 4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e

```
    * radare2 (http://www.radare.org/)
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bandit14@bandit:~$ nc localhost 30000
4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e
Correct!
BfMYroe26WYalil77FoDi9qh59eK5xNr
```

15. level15 -- BfMYroe26WYalil77FoDi9qh59eK5xNr


```
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bandit15@bandit:~$ ncat --ssl localhost 30001
BfMYroe26WYalil77FoDi9qh59eK5xNr
Correct!
cluFn7wTiGryunymYOu4RcffSxQluehd
```

16. level16 -- cluFn7wTiGryunymYOu4RcffSxQluehd