

# TASK 7

THE COGNIZANCE

OverTheWire

15 Levels

Aparna S

## LEVEL 0

Password: bandit0

```
bandit0@bandit: ~  
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  
working directory with a hard-to-guess name in /tmp/. You can use the  
command "mktmp -d" in order to generate a random and hard to guess  
directory in /tmp/. Read-access to both /tmp/ and /proc/ is disabled  
so that users can not snoop on eachother. Files and directories with  
easily guessable or short names will be periodically deleted!  
  
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
```

## LEVEL 0-1

Password: boJ9jbbUNNfktd7800psq0ltutMc3MY1

```
Enjoy your stay!  
  
bandit0@bandit:~$ ls -alps  
total 24  
4 drwxr-xr-x  2 root   root   4096 May  7  2020 ./  
4 drwxr-xr-x 41 root   root   4096 May  7  2020 ../  
4 -rw-r--r--  1 root   root    220 May 15  2017 .bash_logout  
4 -rw-r--r--  1 root   root   3526 May 15  2017 .bashrc  
4 -rw-r--r--  1 root   root    675 May 15  2017 .profile  
4 -rw-r-----  1 bandit1 bandit0  33 May  7  2020 readme  
bandit0@bandit:~$ cat readme  
boJ9jbbUNNfktd7800psq0ltutMc3MY1  
bandit0@bandit:~$ █
```

## LEVEL 1-2

Password: CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9

Enjoy your stay:

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

## LEVEL 2-3

Password: UmHadQclWmgdLOKQ3YNgjWxGoRMB5luK

```
bandit2@bandit:~$ ls -alps
total 24
4 drwxr-xr-x 2 root root 4096 May 7 2020 ./
4 drwxr-xr-x 41 root root 4096 May 7 2020 ../
4 -rw-r--r-- 1 root root 220 May 15 2017 .bash_logout
4 -rw-r--r-- 1 root root 3526 May 15 2017 .bashrc
4 -rw-r--r-- 1 root root 675 May 15 2017 .profile
4 -rw-r----- 1 bandit3 bandit2 33 May 7 2020 spaces in this filename
bandit2@bandit:~$ cat spaces\ in\ this\ filename
UmHadQclWmgdLOKQ3YNgjWxGoRMB5luK
bandit2@bandit:~$
```

## LEVEL 3-4

Password: plwrPrtPN36QITSp3EQaw936yaFoFgAB

```
bandit3@bandit:~$
bandit3@bandit:~$ ls -alps
total 24
4 drwxr-xr-x 3 root root 4096 May 7 2020 ./
4 drwxr-xr-x 41 root root 4096 May 7 2020 ../
4 -rw-r--r-- 1 root root 220 May 15 2017 .bash_logout
4 -rw-r--r-- 1 root root 3526 May 15 2017 .bashrc
4 drwxr-xr-x 2 root root 4096 May 7 2020 inhere/
4 -rw-r--r-- 1 root root 675 May 15 2017 .profile
bandit3@bandit:~$ cd inhere/
bandit3@bandit:~/inhere$ ls -al
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
pIwrPrtPN36QITSp3EQaw936yaFoFgAB
bandit3@bandit:~/inhere$
```

## LEVEL 4-5

Password: koReBOKuIDDepwhWk7jZC0RTdopnAYKh

```
-bash: args: command not found
bandit4@bandit:~/inhere$ find . -type f | xargs file
./-file01: data
./-file00: data
./-file06: data
./-file03: data
./-file05: data
./-file08: data
./-file04: data
./-file07: ASCII text
./-file02: data
./-file09: data
bandit4@bandit:~/inhere$ man xargs
bandit4@bandit:~/inhere$ cat ./-file07
koReBOKuIDDepwhWk7jZC0RTdopnAYKh
bandit4@bandit:~/inhere$ exit
```

## LEVEL 5-6

Password: DXjZPULLxYr17uwoI01bNLQbtFemEgo7

```
bandit5@bandit:~$
bandit5@bandit:~$ ls -alps
total 24
4 drwxr-xr-x  3 root root   4096 May  7  2020 ./
4 drwxr-xr-x 41 root root   4096 May  7  2020 ../
4 -rw-r--r--  1 root root    220 May 15  2017 .bash_logout
4 -rw-r--r--  1 root root  3526 May 15  2017 .bashrc
4 drwxr-x--- 22 root bandit5 4096 May  7  2020 inhere/
4 -rw-r--r--  1 root root    675 May 15  2017 .profile
bandit5@bandit:~$ cd inhere/
bandit5@bandit:~/inhere$ ls
maybehere00 maybehere02 maybehere04 maybehere06 maybehere08 maybehere10 maybehere12 maybehere
maybehere01 maybehere03 maybehere05 maybehere07 maybehere09 maybehere11 maybehere13 maybehere
bandit5@bandit:~/inhere$ find . -type f -size 1033c ! -executable
./maybehere07/.file2
bandit5@bandit:~/inhere$ cat ./maybehere07/.file2
DXjZPULLxYr17uwoI01bNLQbtFemEgo7
```

## LEVEL 6-7

Password: HKBPTKQnlay4Fw76bEy8PVxKEDQRKTzs

```

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:~$

```

## LEVEL 7-8

Password: cvX2JJJa4CFALtqS87jk27qwqGhBM9pIV

```

waxed gL59r6xvewh5y8t0mgiNtHtCUMG8S6Id
conceded TWLUptX3HbwD4qsYQ9sENOn0iNy79sC
kilned kLjrgoJvftIyUyotu0I4cxFcXbC6aS
Santayana KKn1I4fuWdzKyvffp1aYrBDzQa3Tr3Pk
Antigua dRyNieqAg00kCgrKVQFXMXS06vFARL55
heyday UAGwMlFzylGa4fHpQZEeLUQE5JlUpyX
praiseworthiness's bJR80uGXM4dH7ip9hHB3mbFBMMwLNKNq
separatism p2167YTCJseAv4YhLZNb2fs7JivlDLUW
plan PLz4ZXwX02fEe4oMd1I78wQXl4MIMxTf
confrontation KLHScgMgzyBQYxBXkxsjKcQ2A5erDIjL
briquet's aHc51xHj1t3ANF7jH26dd7mHwBfd8VKz
encapsulate STOVYQEMWtFz54JtjJRrhdXgZcfVw8ls
wildfowls PqcMofjmKj8NBv09exdu7FY2NG6WUMzb
Finland xgXsIYgqUCMriMoT7W2dSwTG1DCvBrvU
bandit7@bandit:~$ strings data.txt | grep "millionth"
millionth cvX2JJJa4CFALtqS87jk27qwqGhBM9pIV
bandit7@bandit:~$

```

## LEVEL 8-9

Password: UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhr

```

10 TKUtQbeYnEzzYIne7BinoBx2bHFLBXzG
10 TThRArdF2ZEXM047TIYkyPPLtvzzLcDf
10 tVW9iY1Ml0uHPK4usZnN8oZXbjRt2ATY
10 U0NYdD3wHZKpfEg9qGQOLJimaJy6qxhS
10 UASW6CQwD6MRzftu6FAfyXBK0cVvnBLP
10 UJiCNvDNfgb3fcCj8PjjnAXHqUM63UyJ
10 UjsVbcqKeJqdCZQCDmkzv6A9X7hLbNE4
1 UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhr
10 UVnZvhiVQECraz5jl8U14sMVZQhjuXia
10 V2d9umHluPLYLIDsuHj0froEmreCZMaA
10 v9zaxkVA0dIOLITZY2uoCtB1fX2gmly9
10 VkBAEWyIibVkeURZV5mowiGg6i3m7Be0
10 w4zUWFGTurAAh8lNks8gH3WK2zowBEKA
10 WBqr9xvf6mYTT5kLcTGCG6jb3ex94xWr
10 wjNwumEX58RUQTrufHMcIWz5Yx10GtTC
10 X1JH0Ukrb4KgugMXIzMMWIWvrKeZLeTI
10 XyeJdbrUJyGtdGx8cXLQST0pwu5cvpcA
10 yo0HbSe2GM0jJNHRQLxwoPp7ayYEMRKY
10 ySvsTwlMgnUF0n86Fgmn2TNjkS0LrV72
10 Z90C6DQpppreChPhwrJJV9YYTtrXNVc0
10 zdd2ctVver0GeiS2WE3TeLZMeL5jL7lM

```

## LEVEL 9-10

Password: truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk

```
/1x+BoUeej8z?
33\wLnzSwS^f}Sfd:R?X(i2E+n
D?I?l?o?k;Z?/?h?r?)<[3XB(?<@G?I?[_?v?%?G ?m0?ö?!`? ?L?.W?>?o?W?v
s data.txt | grep "="
===== the*2i"4
=:G e
===== password
<I=zsGi
Z)===== is
A=|t&E
Zdb=
c^ LAh=3G
*SF=s
&===== truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk
S=A.H8^
bandit9@bandit:~$
```

## LEVEL 10-11

Password: IFukwKGsFW8M0q3IRFqrxE1hxTNEbUPR

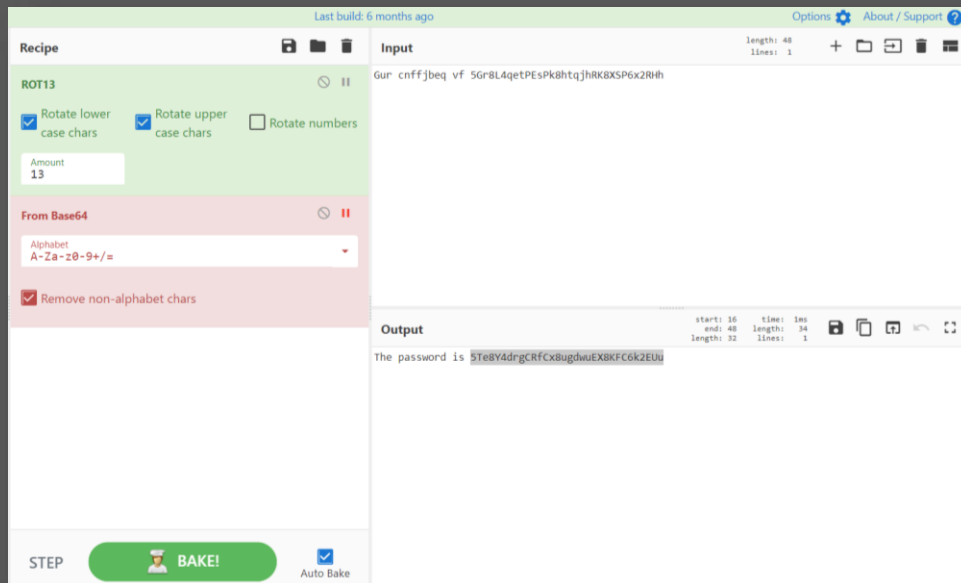
```
bandit10@bandit:~$ ls -alps
total 24
4 drwxr-xr-x 2 root root 4096 May 7 2020 ./
4 drwxr-xr-x 41 root root 4096 May 7 2020 ../
4 -rw-r--r-- 1 root root 220 May 15 2017 .bash_logout
4 -rw-r--r-- 1 root root 3526 May 15 2017 .bashrc
4 -rw-r----- 1 bandit11 bandit10 69 May 7 2020 data.txt
4 -rw-r--r-- 1 root root 675 May 15 2017 .profile
bandit10@bandit:~$ cat data.txt
VGhlIHBhc3N3b3JkIGlzIElGdWt3S0dzRlc4TU9xM0lSRnFyeEUxaHhUTkViVVBSRG==
bandit10@bandit:~$ base64 -d data.txt
The password is IFukwKGsFW8M0q3IRFqrxE1hxTNEbUPR
bandit10@bandit:~$
```

## LEVEL 11-12

Password: 5Te8Y4drgCRfCx8ugdwwEX8KFC6k2EUu

```
bandit11@bandit:~$ cat data.txt
Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHH
bandit11@bandit:~$ client_loop: send disconnect: Broken pipe
aparna@aparna-VirtualBox:~$ ssh bandit12@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
```





LEVEL 12-13

Password: 8ZjyCRiBWFYkneahHwxCv3wb2a10RpYL

```
bandit12@bandit:/tmp/aparna$ ls
data  data.tar
bandit12@bandit:/tmp/aparna$ file data
data: POSIX tar archive (GNU)
bandit12@bandit:/tmp/aparna$ mv data data.tar
bandit12@bandit:/tmp/aparna$ ls
data.tar
bandit12@bandit:/tmp/aparna$ tar xf data.tar
bandit12@bandit:/tmp/aparna$ ls
data8.bin  data.tar
bandit12@bandit:/tmp/aparna$ file data8.bin
data8.bin: gzip compressed data, was "data9.bin", last modified: Thu May  7 18:14:30 2020, max compr
bandit12@bandit:/tmp/aparna$ mv data8.bin data.gz
bandit12@bandit:/tmp/aparna$ ls
data.gz  data.tar
bandit12@bandit:/tmp/aparna$ gzip -d data.gz
bandit12@bandit:/tmp/aparna$ ls
data  data.tar
bandit12@bandit:/tmp/aparna$ file data
data: ASCII text
bandit12@bandit:/tmp/aparna$ cat data
The password is 8ZjyCRiBWFYkneahHwxCv3wb2a10RpYL
bandit12@bandit:/tmp/aparna$
```

LEVEL 13-14

Password: 4wcYUJFw0k0XLShlDzztnTBHixU3b3e

```

* 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/bandit_pass/bandit14
4wcYUJFw0k0XLShLDzztnTBHixU3b3e
bandit14@bandit:~$

```

## LEVEL 14-15

Password: BfMYroe26WYalil77FoDi9qh59eK5xNr

```

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/bandit_pass/bandit14
4wcYUJFw0k0XLShLDzztnTBHixU3b3e
bandit14@bandit:~$ nc localhost 30000
4wcYUJFw0k0XLShLDzztnTBHixU3b3e
Correct!
BfMYroe26WYalil77FoDi9qh59eK5xNr
bandit14@bandit:~$

```

## LEVEL 15-16

Password: cluFn7wTiGryunymY0u4RcffSxQluehd

```

In client mode, --ssl-verify is like --ssl except that it also requires verification of the
these will also be used if available. Use --ssl-trustfile to give a custom list. Use -v to
--ssl-cert certfile.pem (Specify SSL certificate)
connect mode). Use it in combination 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 cer
--ssl-trustfile cert.pem (List trusted certificates)
--ssl-verify. The argument to this option is the name of a PEM file containing trusted ce
--ssl-ciphers cipherlist (Specify SSL ciphersuites)
http://www.openssl.org
bandit15@bandit:~$ ncat --ssl localhost 30001
BfMYroe26WYalil77FoDi9qh59eK5xNr
Correct!
cluFn7wTiGryunymY0u4RcffSxQluehd
...

```