Level 0


```
koushi@koushi:~$ ssh bandit0@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
```

we used the SSH into bandit with the username : bandit0 and
password : bandit0

Level 0 - 1


```
bandit0@bandit:~$ cat readme
boJ9jbbUNNfktd7800psq0ltutMc3MY1
bandit0@bandit:~$
```

PASSWORD : boJ9jbbUNNfktd7800psq0ltutMc3MY1

The password for the next level is stored in the readme file
located in the home directory

Level 1 - 2


```
bandit1@bandit:~$ ls -a
-    .    ..    .bash_logout    .bashrc    .profile
bandit1@bandit:~$ cat ./-
CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9
bandit1@bandit:~$ exit
```

PASSWORD : CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9

The password for this level is stored in a file in a home directory

Level 2 - 3

```
bandit2@bandit:~$ ls
spaces in this filename
bandit2@bandit:~$ cat spaces\ in\this\ filename
cat: 'spaces inthis filename': No such file or directory
bandit2@bandit:~$ cat spaces\ in\ this\ filename
UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK
```

PASSWORD : UmHadQclWmgdLOKQ3YNgjwxGoRMb5luK

The password of this level is stored in a spaces file

Level 3 - 4

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

PASSWORD : pIwrPrtPN36QITSp3EQaw936yaFoFgAB

The password of this is stored in a hidden file of the inhere directory.

Level 4 - 5

```
bandit4@bandit:~$ ls -a
.    ..    .bash_logout    .bashrc    inhere    .profile
bandit4@bandit:~$ cd inhere
bandit4@bandit:~/inhere$ ls -a
.     -file00   -file02   -file04   -file06   -file08
..    -file01   -file03   -file05   -file07   -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
koReBOKuIDDepwhWk7jZC0RTdopnAYKh
```

PASSWORD : koReBOKuIDDepwhWk7jZCORTdopnAYKh

The password of this is stored in inhere directory in an ASCII text

Level 5 - 6

```
bandit5@bandit:~/inhere$ ls -a
.     maybehere00  maybehere02  maybehere04  maybehere06  maybehere08  maybehere10  maybehere12  maybehere14  maybehere16  maybehere18
..    maybehere01  maybehere03  maybehere05  maybehere07  maybehere09  maybehere11  maybehere13  maybehere15  maybehere17  maybehere19
bandit5@bandit:~/inhere$ find -type f -size 1033c
./maybehere07/.file2
bandit5@bandit:~/inhere$ cat ./maybehere07/.file2
DXjZPULLxYr17uwoI01bNLQbtFemEgo7
```

The password of this level is stored in inhere directory
We need to check all the files which are in this directory
Here, we need 1033 bytes in size.

Level 6 - 7

```
bandit6@bandit:~$ cat /var/lib/dpkg/inf
HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs
```

PASSWORD : *HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs*

Level 7 - 8

```
bandit7@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  data.txt  .profile
bandit7@bandit:~$ awk '/^millionth/ {print $2;}' data.txt
cvX2JJa4CFALtqS87jk27qwqGhBM9plV
```

PASSWORD : *cvX2JJa4CFALtqS87jk27qwqGhBM9plV*

The password in this is stored in the file data.txt

Level 8 - 9

```
bandit8@bandit:~$ ls -a
.    ..    .bash_logout    .bashrc    data.txt    .profile
bandit8@bandit:~$ cat data.txt | sort | uniq -u
UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhR
```

PASSWORD : UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhR

The password in this level is stored in data.txt
We Used the sort , pipe , grep to find the password

Level 9 - 10

```
bandit9@bandit:~$ ls -a
.    ..    .bash_logout    .bashrc    data.txt    .profile
bandit9@bandit:~$ strings 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.H&^
```

PASSWORD : TruKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk

The password in this level is stored in data.txt after the "="

Level 10 - 11

```
bandit10@bandit:~$ ls -a
.    ..    .bash_logout  .bashrc  data.txt  .profile
bandit10@bandit:~$ cat data.txt
VGhlIHBhc3N3b3JkIGlzIElGdWt3KS0dzRlc4TU9xM0lSRnFyeEUxaHhUTkViVVBSCg==
bandit10@bandit:~$ echo VGhlIHBhc3N3b3JkIGlzIElGdWt3KS0dzRlc4TU9xM0lSRnFyeEUxaHhUTkViVVBSCg== | base64 --decode
The password is IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR
```

PASSWORD : IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR

The password of this level is stored in data.txt with the base 64 encoded data

Level 11 - 12

```
bandit11@bandit:~$ echo Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHh
Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHh
bandit11@bandit:~$ echo Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHh | tr [a-zA-Z] [n-za-mN-ZA-M]
The password is 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu
```

PASSWORD : 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu

The password of this level is stored in data.txt but here we
need to rotate all the upper and lower cases by 13 positions.

Level 12 - 13

PASSWORD : 8ZjyCRiBWFYkneahHwxCv3wb2a10RpYL

```
bandit12@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  data.txt  .profile
bandit12@bandit:~$ mkdir /tmp/likhith123
bandit12@bandit:~$ cp data.txt /tmp/likhith123
bandit12@bandit:~$ cd /tmp/likhith123
bandit12@bandit:/tmp/likhith123$ ls
data.txt
bandit12@bandit:/tmp/likhith123$ file data.txt
data.txt: ASCII text
bandit12@bandit:/tmp/likhith123$ cat data.txt
00000000: 1f8b 0808 0650 b45e 0203 6461 7461 322e  .....P.^..data2.
00000010: 6269 6e00 013d 02c2 fd42 5a68 3931 4159  bin..=...BZh91AY
00000020: 2653 598e 4f1c c800 001e 7fff fbf9 7fda  &SY.O...........
00000030: 9e7f 4f76 9fcf fe7d 3fff f67d abde 5e9f  ..Ov...}?..}..^.
00000040: f3fe 9fbf f6f1 feee bfdf a3ff b001 3b1b  ..............;.
00000050: 5481 a1a0 1ea0 1a34 d0d0 001a 68d3 4683  T......4....h.F.
00000060: 4680 0680 0034 1918 4c4d 190c 4000 0001  F....4..LM..@...
00000070: a000 c87a 81a3 464d a8d3 43c5 1068 0346  ...z..FM..C..h.F
00000080: 8343 40d0 3400 0340 66a6 8068 0cd4 f500  .C@.4..@f..h....
00000090: 69ea 6800 0f50 68f2 4d00 680d 06ca 0190  i.h..Ph.M.h.....
000000a0: 0000 69a1 a1a0 1ea0 194d 340d 1ea1 b280  ..i.......M4.....
000000b0: f500 3406 2340 034d 3400 0000 3403 d400  ..4.#@.M4...4...
000000c0: 1a07 a832 3400 f51a 0003 43d4 0068 0d34  ...24....C..h.4
000000d0: 6868 f51a 3d43 2580 3e58 061a 2c89 6bf3  hh..=C%.>X..,.k.
000000e0: 0163 08ab dc31 91cd 1747 599b e401 0b06  .c...1...GY.....
000000f0: a8b1 7255 a3b2 9cf9 75cc f106 941b 347a  ..rU....u......4z
00000100: d616 55cc 2ef2 9d46 e7d1 3050 b5fb 76eb  ..`..U...F..0P..v.
00000110: 01f8 60c1 2201 33f0 0de0 4aa6 ec8c 914f  ...`.".3...J....O
00000120: cf8a aed5 7b52 4270 8d51 6978 c159 8b5a  ....{RBp.Qix.Y.Z
00000130: 2164 fb1f c26a 8d28 b414 e690 bfdd b3e1  !d...j.(......
00000140: f414 2f9e d041 c523 b641 ac08 0c0b 06f5  ../..A.#.A......
00000150: dd64 b862 1158 3f9e 897a 8cae 32b0 1fb7  .d.b.X?..z..2...
00000160: 3c82 af41 20fd 6e7d 0a35 2833 41bd de0c  <..A .n}.5(3A...
00000170: 774f ae52 a1ac 0fb2 8c36 ef58 537b f30a  wO.R.....6.XS{..
00000180: 1510 cab5 cb51 4231 95a4 d045 b95c ea09  .....QB1...E.\..
00000190: 9fa0 4d33 ba43 22c9 b5be d0ea eeb7 ec85  ..M3.C".........
```

```
bandit12@bandit:/tmp/likhith123$ xxd -r data.txt data
bandit12@bandit:/tmp/likhith123$ file data
data: gzip compressed data, was "data2.bin", last modified: Thu May  7 18:14:30 2020, max compression, from Un
bandit12@bandit:/tmp/likhith123$ mv data data.gz
bandit12@bandit:/tmp/likhith123$ gzip -d data.gz
bandit12@bandit:/tmp/likhith123$ ls
data  data.txt
bandit12@bandit:/tmp/likhith123$ file data
data: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/likhith123$ mv data data.bz2
bandit12@bandit:/tmp/likhith123$ ls
data.bz2  data.txt
bandit12@bandit:/tmp/likhith123$ man bzip2
bandit12@bandit:/tmp/likhith123$ bzip2 -d data.bz2
bandit12@bandit:/tmp/likhith123$ ls
data  data.txt
bandit12@bandit:/tmp/likhith123$ mv data data.gz
bandit12@bandit:/tmp/likhith123$ gzip -d data.gz
bandit12@bandit:/tmp/likhith123$ ls
data  data.txt
bandit12@bandit:/tmp/likhith123$ file data
data: POSIX tar archive (GNU)
bandit12@bandit:/tmp/likhith123$ man tar
bandit12@bandit:/tmp/likhith123$ mv data data.tar
bandit12@bandit:/tmp/likhith123$ tar -x -f data.tar
bandit12@bandit:/tmp/likhith123$ ls
data5.bin  data.tar  data.txt
bandit12@bandit:/tmp/likhith123$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/likhith123$ ls
```

```
data5.bin  data.tar  data.txt
bandit12@bandit:/tmp/likhith123$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/likhith123$ mv data5.bin data5.tar
bandit12@bandit:/tmp/likhith123$ tar -x -f data6.tar
tar: data6.tar: Cannot open: No such file or directory
tar: Error is not recoverable: exiting now
bandit12@bandit:/tmp/likhith123$ tar -x -f data5.tar
bandit12@bandit:/tmp/likhith123$ ls
data5.tar  data6.bin  data.tar  data.txt
bandit12@bandit:/tmp/likhith123$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/likhith123$ mv data6.bin data6.tar
bandit12@bandit:/tmp/likhith123$ tar -x -f data6.tar
bandit12@bandit:/tmp/likhith123$ ls
data5.tar  data6.tar  data8.bin  data.tar  data.txt
bandit12@bandit:/tmp/likhith123$ file data.bin
data.bin: cannot open `data.bin' (No such file or directory)
bandit12@bandit:/tmp/likhith123$ file data8.bin
data8.bin: gzip compressed data, was "data9.bin", last modified: Thu May  7 18:14:30 2020, max compression
bandit12@bandit:/tmp/likhith123$ mv data8.bin data8.gz
bandit12@bandit:/tmp/likhith123$ gzip -d data8.gz
bandit12@bandit:/tmp/likhith123$ file data8
data8: ASCII text
bandit12@bandit:/tmp/likhith123$ cat data8
The password is 8ZjyCRiBWFYkneahHwxCv3wb2a1ORpYL
```

The password of this level is stored in a file data.txt which is in form of
hexdump of a file which has been repeatedly compressed.

Level 13 - 14

```
bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e
```

PASSWORD : 4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e

The password for thisn level is stored in /etc/bandit_pass/bandit14 and it can only be read by user bandit14

Level 14 - 15

```
bandit14@bandit:~$ telnet localhost 30000
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e
Correct!
BfMYroe26WYalil77FoDi9qh59eK5xNr
```

PASSWORD : BfMYroe26WYalil77FoDi9qh59eK5xNr

The password of this level can be know by submitting the password of the current level to port 30000 localhost.

Level 15 - 16


```
       this option gives the location of the PEM encoded private
    --ssl-trustfile cert.pem (List trusted certificates)
        with --ssl-verify. The argument to this option is the na
    --ssl-ciphers cipherlist (Specify SSL ciphersuites)
        http://www.openssl.org
bandit15@bandit:~$ ncat --ssl localhost 30001
BfMYroe26WYalil77FoDi9qh59eK5xNr
Correct!
cluFn7wTiGryunymYOu4RcffSxqluehd
```

PASSWORD : cluFn7wTiGryunymYOu4RcffSxqluehd

The password of this level can be know by submitting the password of the current level to port 30001 on localhost using SSL encryption.