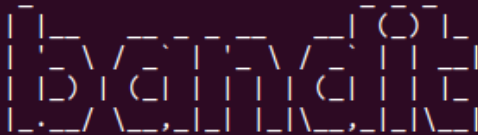


PROTOCOLO SSH


LEVEL 0

```
juan@juan-virtual-machine:~$ ssh bandit0@bandit.labs.overthewire.org -p 2220
```



This is an OverTheWire game server.
More information on <http://www.overthewire.org/wargames>

bandit0@bandit.labs.overthewire.org's password:



www. ver he " ire.org

CDROM to OverTheWire!

If you find any problems, please report them to the #wargames channel on discord or IRC.

--[Playing the games]--

LEVEL 1

```
bandit0@bandit:~$ ls
readme
bandit0@bandit:~$ cat readme
NH2SXQwcBdpmTEzi3bvBHMM9H66vVXjL
bandit0@bandit:~$ S
```

LEVEL 2

```
bandit1@bandit:~$ ls
-
bandit1@bandit:~$ cat <-
rRGizSaX8Mk1RTb1CN0oXTcYZWU6lgzi
bandit1@bandit:~$
```

LEVEL 3

```
bandit2@bandit:~$ ls
spaces in this filename
bandit2@bandit:~$ cat spaces in this filename
cat: spaces: No such file or directory
cat: in: No such file or directory
cat: this: No such file or directory
cat: filename: No such file or directory
bandit2@bandit:~$ cat "spaces in this filename"
aBZ0W5EmUfAf7kHTQeOwd8bauFJ2lAiG
bandit2@bandit:~$ S
```

LEVEL 4

```
bandit3@bandit:~$ ls
inhere
bandit3@bandit:~$ cd inhere/
bandit3@bandit:~/inhere$ ls -a
.  ..  .hidden
bandit3@bandit:~/inhere$ cat .hidden
2EW7BBsr6aMMoJ2HjW067dm8EgX26xNe
bandit3@bandit:~/inhere$
```

LEVEL 5

```
bandit4@bandit:~$ cd inhere
bandit4@bandit:~/inhere$ ls la
ls: cannot access 'la': No such file or directory
bandit4@bandit:~/inhere$ ls -la
total 48
drwxr-xr-x 2 root    root    4096 Oct  5 06:19 .
drwxr-xr-x 3 root    root    4096 Oct  5 06:19 ..
-rw-r----- 1 bandit5 bandit4   33 Oct  5 06:19 -file00
-rw-r----- 1 bandit5 bandit4   33 Oct  5 06:19 -file01
-rw-r----- 1 bandit5 bandit4   33 Oct  5 06:19 -file02
-rw-r----- 1 bandit5 bandit4   33 Oct  5 06:19 -file03
-rw-r----- 1 bandit5 bandit4   33 Oct  5 06:19 -file04
-rw-r----- 1 bandit5 bandit4   33 Oct  5 06:19 -file05
-rw-r----- 1 bandit5 bandit4   33 Oct  5 06:19 -file06
-rw-r----- 1 bandit5 bandit4   33 Oct  5 06:19 -file07
-rw-r----- 1 bandit5 bandit4   33 Oct  5 06:19 -file08
-rw-r----- 1 bandit5 bandit4   33 Oct  5 06:19 -file09
bandit4@bandit:~/inhere$ file ./-file07
./-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
lrIWWI6bB37kxfiCQZqUdOIYfr6eEqR
bandit4@bandit:~/inhere$
```

LEVEL 6

```
bandit5@bandit:~$ ls
inhere
bandit5@bandit:~$ cd inhere
bandit5@bandit:~/inhere$ ls -la
total 88
drwxr-x--- 22 root bandit5 4096 Oct  5 06:19 .
drwxr-xr-x  3 root root    4096 Oct  5 06:19 ..
drwxr-x---  2 root bandit5 4096 Oct  5 06:19 maybehere00
drwxr-x---  2 root bandit5 4096 Oct  5 06:19 maybehere01
drwxr-x---  2 root bandit5 4096 Oct  5 06:19 maybehere02
drwxr-x---  2 root bandit5 4096 Oct  5 06:19 maybehere03
drwxr-x---  2 root bandit5 4096 Oct  5 06:19 maybehere04
drwxr-x---  2 root bandit5 4096 Oct  5 06:19 maybehere05
drwxr-x---  2 root bandit5 4096 Oct  5 06:19 maybehere06
drwxr-x---  2 root bandit5 4096 Oct  5 06:19 maybehere07
drwxr-x---  2 root bandit5 4096 Oct  5 06:19 maybehere08
drwxr-x---  2 root bandit5 4096 Oct  5 06:19 maybehere09
drwxr-x---  2 root bandit5 4096 Oct  5 06:19 maybehere10
drwxr-x---  2 root bandit5 4096 Oct  5 06:19 maybehere11
drwxr-x---  2 root bandit5 4096 Oct  5 06:19 maybehere12
drwxr-x---  2 root bandit5 4096 Oct  5 06:19 maybehere13
drwxr-x---  2 root bandit5 4096 Oct  5 06:19 maybehere14
drwxr-x---  2 root bandit5 4096 Oct  5 06:19 maybehere15
drwxr-x---  2 root bandit5 4096 Oct  5 06:19 maybehere16
drwxr-x---  2 root bandit5 4096 Oct  5 06:19 maybehere17
drwxr-x---  2 root bandit5 4096 Oct  5 06:19 maybehere18
drwxr-x---  2 root bandit5 4096 Oct  5 06:19 maybehere19
```

```
bandit5@bandit:~/inhere$ ls -la maybehere00
total 72
drwxr-x---  2 root bandit5 4096 Oct  5 06:19 .
drwxr-x--- 22 root bandit5 4096 Oct  5 06:19 ..
-rwxr-x---  1 root bandit5 1039 Oct  5 06:19 -file1
-rwxr-x---  1 root bandit5  551 Oct  5 06:19 .file1
-rw-r-----  1 root bandit5 9388 Oct  5 06:19 -file2
-rw-r-----  1 root bandit5 7836 Oct  5 06:19 .file2
-rwxr-x---  1 root bandit5 7378 Oct  5 06:19 -file3
-rwxr-x---  1 root bandit5 4802 Oct  5 06:19 .file3
-rwxr-x---  1 root bandit5 6118 Oct  5 06:19 spaces file1
-rw-r-----  1 root bandit5 6850 Oct  5 06:19 spaces file2
-rwxr-x---  1 root bandit5 1915 Oct  5 06:19 spaces file3
bandit5@bandit:~/inhere$ file */{.,}* | grep "ASCII text" | grep -v ', with very long lines'
maybehere10/.file2:      ASCII text
maybehere15/.file2:      ASCII text
maybehere01/-file2:      ASCII text
maybehere08/spaces file1: ASCII text
maybehere12/-file2:      ASCII text
maybehere15/spaces file2: ASCII text
maybehere18/-file2:      ASCII text
bandit5@bandit:~/inhere$ du -b -a | grep 1033
1033      ./maybehere07/.file2
bandit5@bandit:~/inhere$ cat ./maybehere07/.file2
P4L4vucdmLnM8I7Vl7jG1ApGSfjYKqJU
```

LEVEL 7

```
bandit6@bandit:~$ ls -l
total 0
bandit6@bandit:~$ ls
bandit6@bandit:~$ find / -type f -user bandit7 -group bandit6 -size 33c 2>/dev/null
/var/lib/dpkg/info/bandit7.password
bandit6@bandit:~$ cat /var/lib/dpkg/info/bandit7.password
z7WtoNQU2XfjmMtWA8u5rN4vzqu4v99S
```

LEVEL 8

```
bandit7@bandit:~$
bandit7@bandit:~$ du -b data.txt
4184396 data.txt
bandit7@bandit:~$ cat data.txt | grep millionth
millionth      TESKZC0XvTetK0S9xNwm25STk5iWrBvP
bandit7@bandit:~$
```

LEVEL 9

```
bandit8@bandit:~$ sort data.txt | uniq -u
EN632PlfYiZbn3PhVK3XOGSlnInNE00t
```

LEVEL 10

```
bandit9@bandit:~$ strings data.txt | grep ==
x]T===== theG)"
===== passwordk^
===== is
===== G7w8LIi6J3kTb8A7j9LgrywtEUlyyp6s
```

LEVEL 11

```
bandit10@bandit:~$ ls
data.txt
bandit10@bandit:~$ cat data.txt
VGhliHBhc3N3b3JkIGlzIDZ6UGV6aUxkUjJSS05kTllGTmI2blZDS3pwaGxYSEJNCg==
bandit10@bandit:~$ base64 -d data.txt
The password is 6zPezILdR2RKNdNYFNb6nVCKzphlXHBM
```

LEVEL 12

```
bandit11@bandit:~$ ls
data.txt
bandit11@bandit:~$ cat data.txt | tr 'A-Za-z' 'N-ZA-Mn-za-m'
The password is JVNBBFSmZwKKOP0XbFX0oW8chDz5yVRv
```

LEVEL 13

```

bandit12@bandit:~$ cd /tmp
bandit12@bandit:/tmp$
bandit12@bandit:/tmp$ mktmp -d
/tmp/tmp.omXBHH5RMQ
bandit12@bandit:/tmp$ cd /tmp/tmp.W5t1vua6G9
-bash: cd: /tmp/tmp.W5t1vua6G9: No such file or directory
bandit12@bandit:/tmp$
bandit12@bandit:/tmp$ cd /tmp/tmp.omXBHH5RMQ
bandit12@bandit:/tmp/tmp.omXBHH5RMQ$ cp ~/data.txt .
bandit12@bandit:/tmp/tmp.omXBHH5RMQ$ ls
data.txt
bandit12@bandit:/tmp/tmp.omXBHH5RMQ$ mv data.txt hexdump_data
bandit12@bandit:/tmp/tmp.omXBHH5RMQ$ ls
hexdump_data
bandit12@bandit:/tmp/tmp.omXBHH5RMQ$ cat hexdump_data | head
00000000: 1f8b 0808 6855 1e65 0203 6461 7461 322e ....hU.e..data2.
00000010: 6269 6e00 013d 02c2 fd42 5a68 3931 4159 bin..=...BZh91AY
00000020: 2653 5948 1b32 0200 0019 ffff faee cff7 &SYH.2.....
00000030: f6ff e4f7 bfbc ffff bff7 ffb9 39ff 7ffb .....9...
00000040: bd31 eeff b9fb fbbb b9bf f77f b001 3b2c .1.....;
00000050: d100 0d03 d200 6868 0d00 0069 a00d 0340 .....hh...i...@
00000060: 1a68 00d0 0d01 a1a0 0001 a680 0003 46d4 .h.....F.
00000070: 6434 3234 611a 340d 07a4 c351 068f 5000 d424a.4....Q..P.
00000080: 069a 0680 0000 0006 8006 8da4 681a 6868 .....h.hh
00000090: 0d06 8d00 6834 3400 d07a 9a00 01a0 0341 ....h44..z.....A
bandit12@bandit:/tmp/tmp.omXBHH5RMQ$ xxd -r hexdump_data compressed_data
bandit12@bandit:/tmp/tmp.omXBHH5RMQ$ ls
compressed_data hexdump_data
bandit12@bandit:/tmp/tmp.omXBHH5RMQ$ cat compressed_data | head
h44ezA@@@eh4hhhd91;
23d*58~ S^P^luYBr$FPI%sh?)[=hO(B2A)etZc:pā)A' 00
~AoyjeU,((zzE+ "2/-ee"^^etj$de@dJd'7\ssm1c>eahEVFF
OCAC@MCC]Y2^h8D=~ OIeNDPf+|b#Jv#JddL/W$Uy`
\& [wM
00nrcC`eSb
~{
`<aaa?e:TeeT4±b)
v<ad.c.TcT4b)
@x=bandit12@bandit:/tmp/tmp.
p.omXBHH5RMQ$ cat hexdump_data
00000000: 1f8b 0808 6855 1e65 0203 6461 7461 322e ....hU.e..data2.
00000010: 6269 6e00 013d 02c2 fd42 5a68 3931 4159 bin..=...BZh91AY
00000020: 2653 5948 1b32 0200 0019 ffff faee cff7 &SYH.2.....
00000030: f6ff e4f7 bfbc ffff bff7 ffb9 39ff 7ffb .....9...
00000040: bd31 eeff b9fb fbbb b9bf f77f b001 3b2c .1.....;
00000050: d100 0d03 d200 6868 0d00 0069 a00d 0340 .....hh...i...@
00000060: 1a68 00d0 0d01 a1a0 0001 a680 0003 46d4 .h.....F.
00000070: 6434 3234 611a 340d 07a4 c351 068f 5000 d424a.4....Q..P.
00000080: 069a 0680 0000 0006 8006 8da4 681a 6868 .....h.hh
00000090: 0d06 8d00 6834 3400 d07a 9a00 01a0 0341 ....h44..z.....A
bandit12@bandit:/tmp/tmp.omXBHH5RMQ$ mv compressed_data compressed_data.gz
bandit12@bandit:/tmp/tmp.omXBHH5RMQ$ ls
compressed_data.gz hexdump_data
bandit12@bandit:/tmp/tmp.omXBHH5RMQ$ gzip -d compressed_data.gz
bandit12@bandit:/tmp/tmp.omXBHH5RMQ$ ls
compressed_data hexdump_data
bandit12@bandit:/tmp/tmp.omXBHH5RMQ$ xxd compressed_data
00000000: 425a 6839 3141 5926 5359 481b 3202 0000 BZh91AY&SYH.2...
00000010: 19ff fffa eecf f7f6 ffe4 f7bf bcf7 ffbf .....
00000020: f7ff b939 ff7f fbbd 31ee ffb9 fbfb bbb9 ...9...1.....
00000030: bff7 7fb0 013b 2cd1 000d 03d2 0068 680d .....;.....hh.
00000040: 0000 69a0 0d03 401a 6800 d00d 01a1 a000 ..i...@.h.....

```



```
bandit12@bandit:/tmp/tmp.omXBHH5RMQ$ mv compressed_data compressed_data.bz2
bandit12@bandit:/tmp/tmp.omXBHH5RMQ$ ls
compressed_data.bz2  hexdump_data
bandit12@bandit:/tmp/tmp.omXBHH5RMQ$ bzip2 -d compressed_data.bz2
bandit12@bandit:/tmp/tmp.omXBHH5RMQ$ mv compressed_data compressed_data.gz
bandit12@bandit:/tmp/tmp.omXBHH5RMQ$ gzip -d compressed_data.gz
bandit12@bandit:/tmp/tmp.omXBHH5RMQ$ cat compressed_data
data5.bin0000064400000000000000000000000002400014507452550011247 0ustar  rootrootdata6.b
in00000644000000000000000000000000033114507452550011251 0ustar  rootrootBZh91AY&SY++++
J!1++++&2i6+++I+P+2+++@+@4++k+R+@++8M|+V1+@++P++++2[j.+v'+1++s+++TTI++V++*A+^0
+25++5P+++++a++'1+U+GL~BH+e+rE8P+++bandit12@bandit:/tmp/tmp.omXBHH5RMQ$ xxd compressed
xxd compressed_data | head
00000000: 6461 7461 352e 6269 6e00 0000 0000 0000  data5.bin.....
00000010: 0000 0000 0000 0000 0000 0000 0000 0000  ....
00000020: 0000 0000 0000 0000 0000 0000 0000 0000  ....
00000030: 0000 0000 0000 0000 0000 0000 0000 0000  ....
```

```
bandit12@bandit: /tmp/tmp.omXBHH5RMQ$ bzip2 -d data6.bin
bzip2: Can't guess original name for data6.bin -- using data6.bin.out
bandit12@bandit: /tmp/tmp.omXBHH5RMQ$ ls
compressed_data.tar  data5.bin  data6.bin.out  hexdump_data
bandit12@bandit: /tmp/tmp.omXBHH5RMQ$ tar -xf data6.bin.out
bandit12@bandit: /tmp/tmp.omXBHH5RMQ$ ls
compressed_data.tar  data5.bin  data6.bin.out  data8.bin  hexdump_data
bandit12@bandit: /tmp/tmp.omXBHH5RMQ$ xxd data8.bin
00000000: 1f8b 0808 6855 1e65 0203 6461 7461 392e  ....hU.e..data9.
00000010: 6269 6e00 0bc9 4855 2848 2c2e 2ecf 2f4a  bin...HU(H,.../J
00000020: 51c8 2c56 284f 0a4f c971 aa70 cd2c 3271  Q.,V(0.0.q.p.,2q
00000030: 4e74 b5f0 490c c848 2c2d f5cf 372b 280f  Nt..I..H,-..7+(.
00000040: ca2d 7229 e702 00dc ec75 4731 0000 00    .-r).....UG1...
bandit12@bandit: /tmp/tmp.omXBHH5RMQ$ mv data8.bin data8.gz
bandit12@bandit: /tmp/tmp.omXBHH5RMQ$ gzip -d data8.gz
bandit12@bandit: /tmp/tmp.omXBHH5RMQ$ ls
compressed_data.tar  data5.bin  data6.bin.out  data8  hexdump_data
bandit12@bandit: /tmp/tmp.omXBHH5RMQ$ cat data8
The password is wbWdLBxEir4CaE8LaPhauu0O6pWRmrDw
bandit12@bandit: /tmp/tmp.omXBHH5RMQ$ ^C
bandit12@bandit: /tmp/tmp.omXBHH5RMQ$ SSSSS
```

```
bandit13@bandit:~$ ls
sshkey.private
bandit13@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
juan@juan-virtual-machine:~$ scp -P 2220 bandit13@bandit.labs.overthewire.org:sshkey.private .
bandit13@bandit.labs.overthewire.org:
juan@juan-virtual-machine:~$ ssh -i sshkey.private bandit14@bandit.labs.overthewire.org -p 2220
```

```
juan@juan-virtual-machine:~$ chmod 700 sshkey.private
juan@juan-virtual-machine:~$ ssh -i sshkey.private bandit14@bandit.labs.overthewire.org -p 2220
```

LEVEL 15

```
bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
fGrHPx402xGC7U7rXKDaxiWFT0iF0ENq
bandit14@bandit:~$
bandit14@bandit:~$ nc localhost 30000
fGrHPx402xGC7U7rXKDaxiWFT0iF0ENq
Correct!
jN2kgmIXJ6fShzhT2avhotn4Zcka6tnt
```