



## Bandit Level 0

### SSH Information

**Host URL:** bandit.labs.overthewire.org

**Host IP:** 176.9.9.172

**Port:** 2220

**Username:** bandit0

**Password:** bandit0

```
(root@Mysterious)-[/home/Mysterious] # ping bandit.labs.overthewire.org
PING otw.cracksucht.de (176.9.9.172) 56(84) bytes of data.
64 bytes from static.172.9.9.176.clients.your-server.de (176.9.9.172): icmp_seq=1 ttl=51 time=194 ms
^C
Helpful Reading Material
— otw.cracksucht.de ping statistics —
2 packets transmitted, 1 received, 50% packet loss, time 1001ms
rtt min/avg/max/mdev = 193.603/193.603/193.603/0.000 ms

(root@Mysterious)-[/home/Mysterious] #
```

ping bandit.labs.overthewire.org

[Note: This step is optional. I have used it to check whether the site is responding back or not and also find the ipv4 address of the host website.]

Using the given details, connect to the server via ssh

ssh [bandit0@176.9.9.172](https://bandit0@176.9.9.172) -p2220

or

ssh bandit0@ bandit.labs.overthewire.org -p2220

```
For support, questions or comments, contact us through IRC on  
irc.overthewire.org #wargames.  
Level 23 → Level 24  
Enjoy your stay! Server Shell \(SSH\) on Overthewire  
How to use SSH on overthewire  
bandit0@bandit:~$ ls -la  
total 24  
drwxr-xr-x  2 root  root  4096 May  7  2020 .  
drwxr-xr-x  41 root  root  4096 May  7  2020 ..  
-rw-r--r--  1 root  root   220 May 15  2017 .bash_logout  
-rw-r--r--  1 root  root  3526 May 15  2017 .bashrc  
-rw-r--r--  1 root  root   675 May 15  2017 .profile  
-rw-r-----  1 bandit1 bandit0  33 May  7  2020 readme  
bandit0@bandit:~$ cat readme  
boJ9jbbUNNfKtd7800psq0ltutMc3MY1  
bandit0@bandit:~$ █  
Level 23 → Level 24
```

Use `ls -la` to list all the files and directories. We'll get a `readme` file which contains the password of the next level.

Using `cat` command we can print the content in the terminal.

# Bandit Level 1

## SSH Information

**Host URL:** bandit.labs.overthewire.org

**Host IP:** 176.9.9.172

**Port:** 2220

**Username:** bandit1

**Password:**

boJ9jbbUNNfktd78OOpsqOltutMc3MY1

Using the given details, connect to the server via ssh

ssh [bandit1@176.9.9.172](https://bandit1@176.9.9.172) -p2220

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

After listing all the content of the file, we found a file '-'. Using `cat ./-` command, we get the password of next level.

[Note: As the file name is '-', so we can't use `cat -`. We have to use the full path `cat /home/bandit1/-` or `cat ./-`]

# Bandit Level 2

## SSH Information

**Host URL:** bandit.labs.overthewire.org

**Host IP:** 176.9.9.172

**Port:** 2220

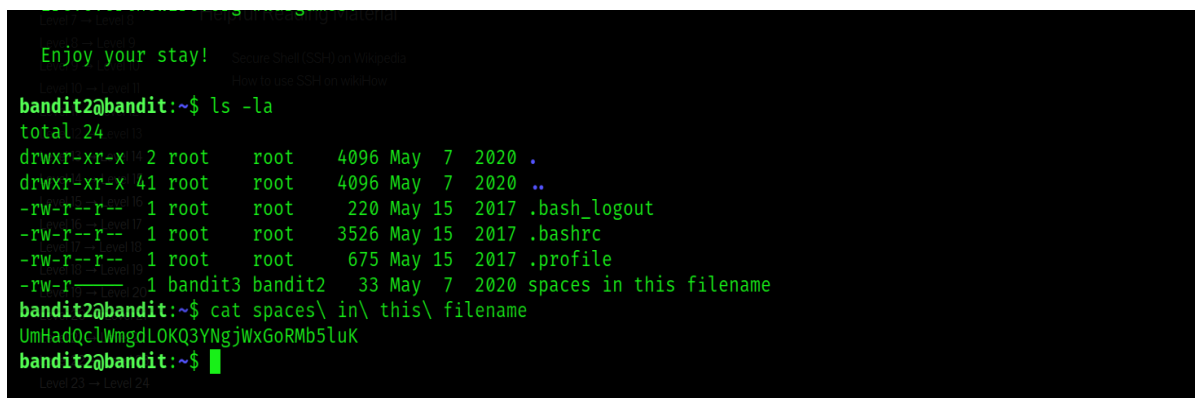
**Username:** bandit2

**Password:**

CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9

Using the given details, connect to the server via ssh

ssh [bandit2@176.9.9.172](https://bandit2@176.9.9.172) -p2220



```
bandit2@bandit:~$ ls -la
total 24
drwxr-xr-x 2 root root 4096 May 7 2020 .
drwxr-xr-x 41 root root 4096 May 7 2020 ..
-rw-r--r-- 1 root root 220 May 15 2017 .bash_logout
-rw-r--r-- 1 root root 3526 May 15 2017 .bashrc
-rw-r--r-- 1 root root 675 May 15 2017 .profile
-rw-r--r-- 1 bandit3 bandit2 33 May 7 2020 spaces in this filename
bandit2@bandit:~$ cat spaces\ in\ this\ filename
UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK
bandit2@bandit:~$
```

After listing all the content of the file, we found a file 'space in this filename '.

Using cat spaces\ in\ this\ filename command, we get the password of next level.

# Bandit Level 3

## SSH Information

**Host URL:** bandit.labs.overthewire.org

**Host IP:** 176.9.9.172

**Port:** 2220

**Username:** bandit3

**Password:**

UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK

Using the given details, connect to the server via ssh

ssh [bandit3@176.9.9.172](https://bandit3@176.9.9.172) -p2220

```
Enjoy your stay!
Helpful Reading Material
bandit3@bandit:~$ ls -la
total 24
drwxr-xr-x  3 root root 4096 May  7  2020 .
drwxr-xr-x 41 root root 4096 May  7  2020 ..
-rw-r--r--  1 root root  220 May 15  2017 .bash_logout
-rw-r--r--  1 root root 3526 May 15  2017 .bashrc
drwxr-xr-x  2 root root 4096 May  7  2020 inhere
-rw-r--r--  1 root root  675 May 15  2017 .profile
bandit3@bandit:~$ cd inhere/
bandit3@bandit:~/inhere$ ls -a
.  ..  .hidden
bandit3@bandit:~/inhere$ cat .hidden
pIwrPrtPN36QITSp3EQaw936yaFoFgAB
bandit3@bandit:~/inhere$
```

We found a sub-dir “inhere” in the current dir. Using `cd inhere` we entered the inhere dir. After that we got a hidden file called “.hidden” inside the inhere dir which contains the password of the next level.

# Bandit Level 4

## SSH Information

**Host URL:** bandit.labs.overthewire.org

**Host IP:** 176.9.9.172

**Port:** 2220

**Username:** bandit4

**Password:**

plwrPrtPN36QITSp3EQaw936yaFoFgAB

Using the given details, connect to the server via ssh

ssh [bandit4@176.9.9.172](https://bandit4@176.9.9.172) -p2220

```
Enjoy your stay! Commands you may need to solve this level
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 ./-file0*
./-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
koReB0KuIDDepwhWk7jZC0RTdopnAYKh
bandit4@bandit:~/inhere$
```

We got 10 files inside the inhere dir. We can find the exact human readable file using the command `file ./-file0*`

# Bandit Level 5

## SSH Information

**Host URL:** bandit.labs.overthewire.org

**Host IP:** 176.9.9.172

**Port:** 2220

**Username:** bandit5

**Password:**

koReBOKuIDDepwhWk7jZC0RTdopnAYKh

Using the given details, connect to the server via ssh

ssh [bandit5@176.9.9.172](https://bandit5@176.9.9.172) -p2220

```
bandit5@bandit:~$ ls
inhere
bandit5@bandit:~$ cd inhere
bandit5@bandit:~/inhere$ ls
maybe00 maybe02 maybe04 maybe06 maybe08 maybe10 maybe12 maybe14 maybe16 maybe18
maybe01 maybe03 maybe05 maybe07 maybe09 maybe11 maybe13 maybe15 maybe17 maybe19
bandit5@bandit:~/inhere$ find . -size 1033c -readable ! -executable
./maybe07/.file2
bandit5@bandit:~/inhere$ cat ./maybe07/.file2
DXjZPULLxYr17uwoI01bNLQbtFemEgo7
Level 16 → Level 17
Level 17 → Level 18
Level 18 → Level 19
Level 19 → Level 20
Level 20 → Level 21
Level 21 → Level 22
bandit5@bandit:~/inhere$
```

We got 20 dir inside the inhere dir. We can find the exact file having 1033 bytes size using the command `find . -size 1033c -readable ! -executable`

# Bandit Level 6

## SSH Information

**Host URL:** bandit.labs.overthewire.org

**Host IP:** 176.9.9.172

**Port:** 2220

**Username:** bandit6

**Password:**

DXjZPULLxYr17uwol01bNLQbtFemEgo7

Using the given details, connect to the server via ssh

ssh [bandit6@176.9.9.172](https://bandit6@176.9.9.172) -p2220

```
bandit6@bandit:~$ ls
bandit6@bandit:~$ find / -size 33c -user bandit7 -group bandit6 -readable ! -executable ! -writable
find: '/root': Permission denied
find: '/home/bandit28-git': Permission denied
find: '/home/bandit30-git': Permission denied
find: '/home/bandit5/inhere': Permission denied
find: '/home/bandit27-git': Permission denied
find: '/home/bandit29-git': Permission denied
find: '/home/bandit31-git': Permission denied
find: '/lost+found': Permission denied
find: '/etc/ssl/private': Permission denied
find: '/etc/polkit-1/localauthority': Permission denied
find: '/etc/lvm/archive': Permission denied
find: '/etc/lvm/backup': Permission denied
find: '/sys/fs/pstore': Permission denied
find: '/proc/tty/driver': Permission denied
find: '/proc/27592/task/27592/fd/6': No such file or directory
find: '/proc/27592/task/27592/fdinfo/6': No such file or directory
find: '/proc/27592/fd/5': No such file or directory
find: '/proc/27592/fdinfo/5': No such file or directory
find: '/cgroup2/csessions': Permission denied
```

Level 23 → Level 24



```

find: '/run/screen/S-bandit7': Permission denied
find: '/run/screen/S-bandit16': Permission denied
find: '/run/screen/S-bandit26': Permission denied
find: '/run/screen/S-bandit8': Permission denied
find: '/run/screen/S-bandit15': Permission denied
find: '/run/screen/S-bandit4': Permission denied
find: '/run/screen/S-bandit19': Permission denied
find: '/run/screen/S-bandit31': Permission denied
find: '/run/screen/S-bandit17': Permission denied
find: '/run/screen/S-bandit2': Permission denied
find: '/run/screen/S-bandit22': Permission denied
find: '/run/screen/S-bandit21': Permission denied
find: '/run/screen/S-bandit14': Permission denied
find: '/run/screen/S-bandit24': Permission denied
find: '/run/screen/S-bandit23': Permission denied
find: '/run/shm': Permission denied
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:~$ █

```

Using the command `find / -size 33c -user bandit7 -group bandit6 -readable ! -executable ! -writable`, we found a bunch of files but among them there is only one file named `“/var/lib/dpkg/info/bandit7.password”` which we have permissions. Therefore, we got our password file.

# Bandit Level 7

## SSH Information

**Host URL:** bandit.labs.overthewire.org

**Host IP:** 176.9.9.172

**Port:** 2220

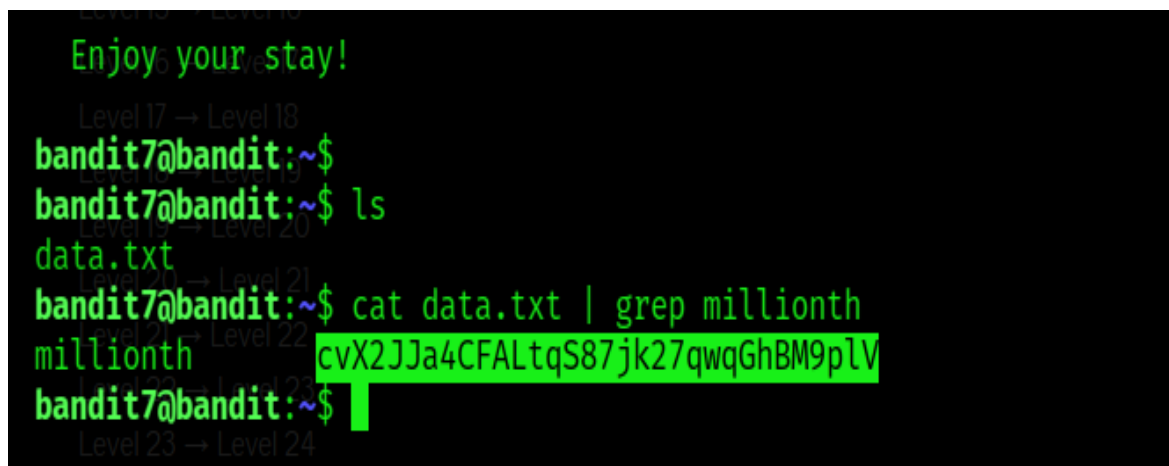
**Username:** bandit7

**Password:**

HKBPTKQnlay4Fw76bEy8PVxKEDQRKTzs

Using the given details, connect to the server via ssh

ssh [bandit7@176.9.9.172](https://bandit7@176.9.9.172:2220) -p2220

A terminal window with a black background and green text. The prompt is 'bandit7@bandit:~\$'. The user runs 'ls' and sees 'data.txt'. Then they run 'cat data.txt | grep millionth' and the output 'millionth cvX2JJJa4CFALtqS87jk27qwqGhBM9plV' is shown, with the password part highlighted in red. The prompt returns to 'bandit7@bandit:~\$'.

```
Enjoy your stay!  
Level 17 → Level 18  
bandit7@bandit:~$  
bandit7@bandit:~$ ls  
data.txt  
bandit7@bandit:~$ cat data.txt | grep millionth  
millionth cvX2JJJa4CFALtqS87jk27qwqGhBM9plV  
bandit7@bandit:~$  
Level 23 → Level 24
```

Using the command `cat data.txt | grep millionth` we can find the password which is located next to the word “millionth” inside the file `data.txt`

# Bandit Level 8

## SSH Information

**Host URL:** bandit.labs.overthewire.org

**Host IP:** 176.9.9.172

**Port:** 2220

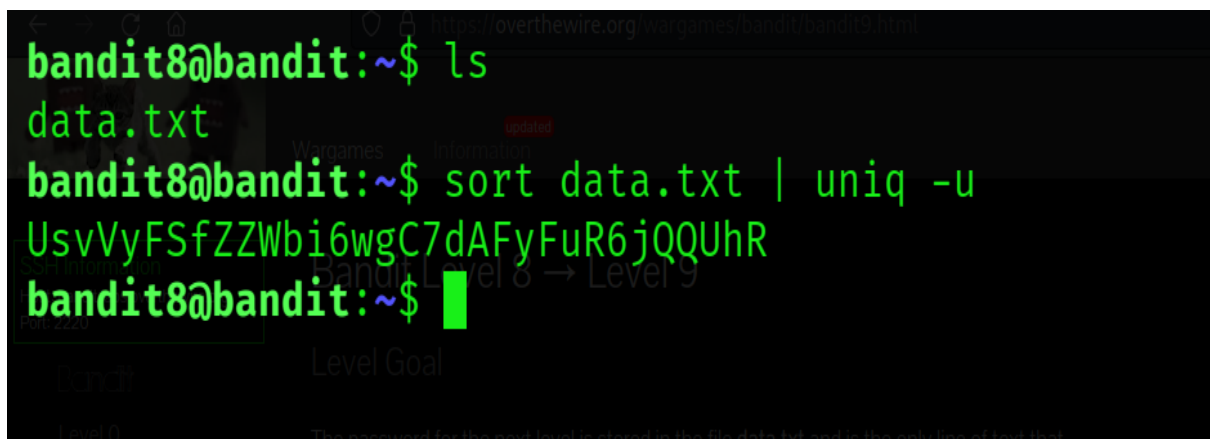
**Username:** bandit8

**Password:**

cvX2JJJa4CFALtqS87jk27qwqGhBM9pIV

Using the given details, connect to the server via  
ssh

ssh [bandit8@176.9.9.172](https://bandit8@176.9.9.172) -p2220

A terminal window with a dark background and green text. The prompt is 'bandit8@bandit:~\$'. The first command is 'ls', which lists 'data.txt'. The second command is 'sort data.txt | uniq -u', which outputs 'UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhr'. The prompt is then 'bandit8@bandit:~\$' followed by a redacted password (a black box).

```
bandit8@bandit:~$ ls
data.txt
bandit8@bandit:~$ sort data.txt | uniq -u
UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhr
bandit8@bandit:~$
```

Using the command `sort data.txt | uniq -u`, we found the unique line, i.e., password inside the file.

# Bandit Level 9

## SSH Information

**Host URL:** bandit.labs.overthewire.org

**Host IP:** 176.9.9.172

**Port:** 2220

**Username:** bandit9

**Password:**

UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhR

Using the given details, connect to the server via ssh

ssh [bandit9@176.9.9.172](https://bandit9@176.9.9.172) -p2220

```
bandit9@bandit:~$ ls
data.txt
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.H6^
bandit9@bandit:~$
```

Using strings command, we can print only the human readable part. So, we can use strings data.txt | grep = command to search the password.

# Bandit Level 10

## SSH Information

**Host URL:** bandit.labs.overthewire.org

**Host IP:** 176.9.9.172

**Port:** 2220

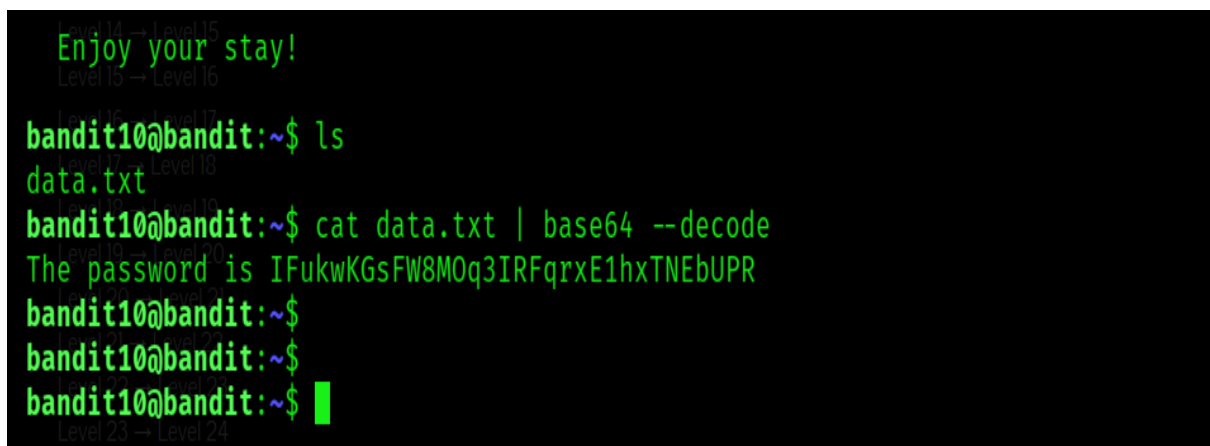
**Username:** bandit10

**Password:**

truKLdjsbJ5g7yyJ2X2R0o3a5HQQJFuLk

Using the given details, connect to the server via ssh

ssh [bandit10@176.9.9.172](https://bandit10@176.9.9.172) -p2220

A terminal window with a black background and green text. The prompt is 'bandit10@bandit:~\$'. The user enters 'ls', showing 'data.txt'. Then they enter 'cat data.txt | base64 --decode', which outputs 'The password is IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR'. The prompt then changes to 'bandit10@bandit:~\$' and the user enters a password, indicated by a redacted box. The prompt returns to 'bandit10@bandit:~\$'.

```
bandit10@bandit:~$ ls
data.txt
bandit10@bandit:~$ cat data.txt | base64 --decode
The password is IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR
bandit10@bandit:~$
bandit10@bandit:~$
bandit10@bandit:~$
```

Since the file “data.txt” is a base64 encrypted file, therefore to decode it we can use `cat data.txt | base64 – decode`.

# Bandit Level 11

## SSH Information

**Host URL:** bandit.labs.overthewire.org

**Host IP:** 176.9.9.172

**Port:** 2220

**Username:** bandit11

**Password:**

IFukwKGSFW8MOq3IRFqrxE1hxTNEbUPR

Using the given details, connect to the server via ssh

ssh [bandit11@176.9.9.172](https://bandit11@176.9.9.172) -p2220

```
bandit11@bandit:~$ cat data.txt
Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHH
bandit11@bandit:~$
```

Here "data.txt" is encrypted with rot13. So, we can use [cyberchef.io](https://cyberchef.io) to decrypt it.

The screenshot shows the CyberChef web interface. On the left, the 'Operations' list includes 'rot', 'ROT13', 'ROT47', 'Rotate left', 'Rotate Image', 'Rotate right', 'Parse ObjectID timestamp', 'Avro to JSON', 'From UNIX Timestamp', 'From Octal', 'Protobuf Decode', and 'Protobuf Encode'. The 'Recipe' panel shows a 'ROT13' operation with 'Rotate lower case chars' and 'Rotate upper case chars' checked, and 'Rotate numbers' unchecked. The 'Amount' is set to 13. The 'Input' panel shows the encrypted text: 'Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHH'. The 'Output' panel shows the decrypted text: 'The password is 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUU'. At the bottom, there is a 'BAKE!' button and an 'Auto Bake' checkbox.

# Bandit Level 12

## SSH Information

**Host URL:** bandit.labs.overthewire.org

**Host IP:** 176.9.9.172

**Port:** 2220

**Username:** bandit12

**Password:**

5Te8Y4drgCRfCx8ugdwwEX8KFC6k2EUu

Using the given details, connect to the server via ssh

ssh [bandit12@176.9.9.172](ssh://bandit12@176.9.9.172) -p2220

As we have less permissions in home directory so we can create a new directory inside the /tmp directory for full access. Copy the “data.txt file” into the new dir. Reverse the hexdump file and copy it inside a new file. Now check the file type of the new file.

```
bandit12@bandit:~$ mkdir /tmp/Bandit12
bandit12@bandit:~$ cp data.txt /tmp/Bandit12
bandit12@bandit:~$ cd /tmp/Bandit12
bandit12@bandit:/tmp/Bandit12$ ls
data.txt
bandit12@bandit:/tmp/Bandit12$ xxd -r data.txt > data
bandit12@bandit:/tmp/Bandit12$ ls
data  data.txt
bandit12@bandit:/tmp/Bandit12$ file data
data: gzip compressed data, was "data2.bin", last modified: Thu May  7 18:14:30 2020, max compression, from Unix
bandit12@bandit:/tmp/Bandit12$ mv data file.gz
bandit12@bandit:/tmp/Bandit12$ ls
data.txt  file.gz
bandit12@bandit:/tmp/Bandit12$ gzip -d file.gz
bandit12@bandit:/tmp/Bandit12$ ls
data.txt  file
```

Change the extension of the file accordingly and use `gzip -d file_name.gz`, `bzip2 -d file_name.bz2`, `tar xf file_name.tar` according to the compressed file type. After decompressing many times, we will get a human readable file called “data8” which contains the password.

```
bandit12@bandit:/tmp/Bandit12$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/Bandit12$ mv data5.bin data5.tar
bandit12@bandit:/tmp/Bandit12$ tar xf data5.tar
bandit12@bandit:/tmp/Bandit12$ ls
data5.tar  data6.bin  data.txt  file.tar
bandit12@bandit:/tmp/Bandit12$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/Bandit12$ mv data6.bin data6.bz2
bandit12@bandit:/tmp/Bandit12$ bzip2 -d data6.bz2
bandit12@bandit:/tmp/Bandit12$ ls
data5.tar  data6  data.txt  file.tar
bandit12@bandit:/tmp/Bandit12$ file data
data: cannot open 'data' (No such file or directory)
bandit12@bandit:/tmp/Bandit12$ file data6
data6: POSIX tar archive (GNU)
bandit12@bandit:/tmp/Bandit12$ mv data6 data6.tar
bandit12@bandit:/tmp/Bandit12$ tar xf data6.tar
bandit12@bandit:/tmp/Bandit12$ ls
data5.tar  data6.tar  data8.bin  data.txt  file.tar
bandit12@bandit:/tmp/Bandit12$ 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/Bandit12$ mv data8.bin data8.gz
bandit12@bandit:/tmp/Bandit12$ gzip -d data8.gz
bandit12@bandit:/tmp/Bandit12$ ls
data5.tar  data6.tar  data8  data.txt  file.tar
bandit12@bandit:/tmp/Bandit12$ file data8
data8: ASCII text
bandit12@bandit:/tmp/Bandit12$ cat data8
The password is BZjyCRiBWfYkneahHwxCv3wb2a10RpYL
bandit12@bandit:/tmp/Bandit12$
```



# Bandit Level 13

## SSH Information

**Host URL:** bandit.labs.overthewire.org

**Host IP:** 176.9.9.172

**Port:** 2220

**Username:** bandit13

**Password:**

8ZjyCRiBWFYkneahHwxCv3wb2a1ORpYL

Using the given details, connect to the server via ssh

ssh [bandit13@176.9.9.172](https://bandit13@176.9.9.172) -p2220

After login to bandit13 we get a ssh private key for accessing bandit14.

Using the command `ssh bandit14@localhost -i sshkey.private`, we can login to bandit14 without any password.

```
bandit13@bandit:~$ ssh bandit14@localhost -i sshkey.private
Could not create directory '/home/bandit13/.ssh'.
The authenticity of host 'localhost (127.0.0.1)' can't be established.
ECDSA key fingerprint is SHA256:98UL0ZW85496EtCRKKlo20X30PnyPSB5tB5RPbhczc.
Are you sure you want to continue connecting (yes/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

Level 0
The password for the next level is stored in /home/bandit14/.sshkey.private and can only be
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux and you get a prompt
```

# Bandit Level 14

## SSH Information

**Host URL:** bandit.labs.overthewire.org

**Host IP:** 176.9.9.172

**Port:** 2220

**Username:** bandit14

```
Level 16 → Level 17
bandit14@bandit:~$ ls
Level 16 → Level 19
bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
Level 19 → Level 20
4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e
Level 20 → Level 21
bandit14@bandit:~$ █
Level 23 → Level 24
```

Since the file name was given is the previous level, so we can directly print the content of the “/etc/bandit\_pass/bandit14” file. Now copy the content and submit it to the localhost at port 30000.

```
bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e
bandit14@bandit:~$ echo "4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e" | nc localhost 30000
Correct! Bandit Level 14 → Level 15
BfMYroe26WYalil77FoDi9qh59eK5xNr
Level 15 → Level 16
bandit14@bandit:~$ █
Level 16 → Level 17
bandit14@bandit:~$ █
```

After submitting, you will get the original password of the next level.

# Bandit Level 15

## SSH Information

**Host URL:** bandit.labs.overthewire.org

**Host IP:** 176.9.9.172

**Port:** 2220

**Username:** bandit15

**Password:** BfMYroe26WYalil77FoDi9qh59eK5xNr

Using the given details, connect to the server via ssh

ssh [bandit15@176.9.9.172](https://bandit15@176.9.9.172) -p2220

```
bandit14@bandit:~$ echo "BfMYroe26WYalil77FoDi9qh59eK5xNr" | openssl s_client -connect localhost:30001 -ign_eof
CONNECTED(00000003)
depth=0 CN = localhost
verify error:num=18:self signed certificate
verify return:1
depth=0 CN = localhost
verify return:1
---
Certificate chain
 0 s:/CN=localhost
  i:/CN=localhost
---
Server certificate
-----BEGIN CERTIFICATE-----
```

Using the command echo

"BfMYroe26WYalil77FoDi9qh59eK5xNr" | openssl s\_client -connect localhost:30001 -ign\_eof, we will get our password for next level.

```
0090 - 4b 25 f1 f5 22 b6 3a d5-2c d9 85 29 19 c2 ce 60 K%.." :.:, .. ) ... ^
Start Time: 1656441024
Timeout : 7200 (sec)
Verify return code: 18 (self signed certificate)
Extended master secret: yes
---
Correct!
cluFn7wTiGryunymYOu4RcffSxQluehd
closed
```