

# Bandit CTF

*Name: Smruti Padhi*

*Roll no: 21251*

*Sec: CSE C*

*Level 0*

```
bandit0@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  .profile  readme
bandit0@bandit:~$ cat readme
boJ9jbbUNNfktd7800psq0ltutMc3MYl
bandit0@bandit:~$
```

*Level 1*

```
bandit1@bandit:~$ ls -al
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:~$ du -h
20K      .
bandit1@bandit:~$ cat ~/*
CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9
bandit1@bandit:~$
```

*Level 2*

## Bandit CTF

```
bandit2@bandit:~$ ls -al
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 bandit3 bandit2   33 May  7  2020 spaces in this filename
bandit2@bandit:~$ cat ~/*
UmHadQclWmgdLOKQ3YNgjWxGoRmb5luK
bandit2@bandit:~$
```

### Level 3

```
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 -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

## Bandit CTF

```
bandit4@bandit:~$ ls -al
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
bandit4@bandit:~$ cd inhere
bandit4@bandit:~/inhere$ ls -a
.  -file00  -file02  -file04  -file06  -file08
.. -file01  -file03  -file05  -file07  -file09
bandit4@bandit:~/inhere$ egrep "([a-zA-Z]..[0-9])" -Rns ~/inhere/
Binary file /home/bandit4/inhere/-file00 matches
/home/bandit4/inhere/-file07:1:koReBOKuIDDepwhWk7jZCORTdopnAYKh
bandit4@bandit:~/inhere$
```

### Level 5

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

### Level 6

## Bandit CTF

```
bandit6@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  .profile
bandit6@bandit:~$ cat .profile
# ~/.profile: executed by the command interpreter for login shells.
# This file is not read by bash(1), if ~/.bash_profile or ~/.bash_login
# exists.
```

```
bandit6@bandit:~$ find / -user bandit7 -group bandit6 -size 33c
find: '/root': Permission denied
find: '/home/bandit28-git': Permission denied
find: '/home/bandit30-git': 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

```
bandit7@bandit:~$ ls -la
total 4108
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-----  1 bandit8 bandit7 4184396 May  7  2020 data.txt
-rw-r--r--  1 root    root        675 May 15  2017 .profile
bandit7@bandit:~$ grep millionth ./data.txt
millionth      cvX2JJJa4CFAltqS87jk27qwqGhBM9plV
bandit7@bandit:~$
```

### Level 8



## Bandit CTF

```
bandit8@bandit:~$ ls -al
total 56
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-----  1 bandit9 bandit8 33033 May  7  2020 data.txt
-rw-r--r--  1 root    root     675 May 15  2017 .profile
bandit8@bandit:~$ sort data.txt|uniq -c -u
      1 UsvVyFSfZ2Wbi6wgC7dAFyFuR6jQQUhr
bandit8@bandit:~$
```

### Level 9

```
bandit9@bandit:~$ ls -al
total 40
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-----  1 bandit10 bandit9 19379 May  7  2020 data.txt
-rw-r--r--  1 root    root     675 May 15  2017 .profile
bandit9@bandit:~$ strings data.txt|grep -n "=="
13:===== the*2i"4
61:===== password
83:Z)===== is
192:&===== truKLdjsbJ5g7yyJ2X2R0o3a5HqJFuLk
```

### Level 10

## Bandit CTF

```
bandit10@bandit:~$ ls -al
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-----  1 bandit11 bandit10   69 May  7  2020 data.txt
-rw-r--r--  1 root    root     675 May 15  2017 .profile
bandit10@bandit:~$ cat data.txt | base64 --decode
The password is IFukwKGsFW8MOq3IRFqrxEIhxTNEbUPR
bandit10@bandit:~$
```

### Level 11

```
bandit11@bandit:~$ ls -a;
.  ..  .bash_logout  .bashrc  data.txt  .profile
bandit11@bandit:~$ ls -al
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-----  1 bandit12 bandit11   49 May  7  2020 data.txt
-rw-r--r--  1 root    root     675 May 15  2017 .profile
bandit11@bandit:~$ cat data.txt |tr '[a-zA-Z]' '[n-Za-mN-ZA-M]'
The password is 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu
bandit11@bandit:~$
```

### Level 12

## Bandit CTF

```
bandit12@bandit:~$ ls -a;
.  ..  .bash_logout  .bashrc  data.txt  .profile
bandit12@bandit:~$ mkdir /tmp/alice
bandit12@bandit:~$ cp data.txt /tmp/alice
bandit12@bandit:~$ cd /tmp/alice
bandit12@bandit:/tmp/alice$ ls -a
.  ..  data.txt
bandit12@bandit:/tmp/alice$ xxd -r data.txt > data
bandit12@bandit:/tmp/alice$ ls -a
.  ..  data  data.txt
bandit12@bandit:/tmp/alice$ 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/alice$ mv data file.gz
bandit12@bandit:/tmp/alice$ gunzip -d file.gz
bandit12@bandit:/tmp/alice$ ls
data.txt  file
bandit12@bandit:/tmp/alice$ file file
file: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/alice$ mv file file.bz2
bandit12@bandit:/tmp/alice$ bzip2 -d file.bz2
bandit12@bandit:/tmp/alice$ ls
data.txt  file
bandit12@bandit:/tmp/alice$ file file
file: gzip compressed data, was "data4.bin", last modified: Thu May  7 18:14:30
2020, max compression, from Unix
bandit12@bandit:/tmp/alice$
```

```
bandit12@bandit:/tmp/alice$ mv file file.gz
bandit12@bandit:/tmp/alice$ gunzip -d file.gz
bandit12@bandit:/tmp/alice$ ls
data.txt  file
bandit12@bandit:/tmp/alice$ file file
file: POSIX tar archive (GNU)
bandit12@bandit:/tmp/alice$ mv file file.tar
bandit12@bandit:/tmp/alice$ tar xf file.tar
bandit12@bandit:/tmp/alice$ ls
data5.bin  data.txt  file.tar
bandit12@bandit:/tmp/alice$
```

## Bandit CTF

```
bandit12@bandit:/tmp/alice$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/alice$ rm file.tar
bandit12@bandit:/tmp/alice$ rm data.txt
bandit12@bandit:/tmp/alice$ ls
data5.bin
bandit12@bandit:/tmp/alice$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/alice$ mv data5.bin data.tar
```

```
bandit12@bandit:/tmp/alice$ ls
data.tar
bandit12@bandit:/tmp/alice$ tar xf data.tar
bandit12@bandit:/tmp/alice$ ls
data6.bin  data.tar
bandit12@bandit:/tmp/alice$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/alice$ mv data6.bin data.bz2
bandit12@bandit:/tmp/alice$ bzip2 -d data.bz2
bandit12@bandit:/tmp/alice$ ls
data  data.tar
bandit12@bandit:/tmp/alice$
```

```
bandit12@bandit:/tmp/alice$ file data
data: POSIX tar archive (GNU)
bandit12@bandit:/tmp/alice$ mv data data.tar
bandit12@bandit:/tmp/alice$ tar xf data.tar
bandit12@bandit:/tmp/alice$ ls
data8.bin  data.tar
bandit12@bandit:/tmp/alice$ 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/alice$
```



## Bandit CTF

```
bandit12@bandit:/tmp/alice$ mv data8.bin data.gz
bandit12@bandit:/tmp/alice$ gzip -d data.gz
bandit12@bandit:/tmp/alice$ ls
data  data.tar
bandit12@bandit:/tmp/alice$ file data
data: ASCII text
bandit12@bandit:/tmp/alice$ cat data
The password is 8ZjyCRiBWFYkneahHwxCv3wb2a1ORpYL
bandit12@bandit:/tmp/alice$
```

### Level 13

```
bandit13@bandit:~$ ls -al
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 bandit14 bandit13 1679 May  7  2020 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 SHA256:98UL0ZW85496EtCRkKlo20X3OPnyPSB5tB5RPbhczc.
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

Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```

### Level 14

## Bandit CTF

```
bandit14@bandit:/$ ls -a
.      cgroup2  initrd.img  lib64      mnt         root  srv  var
..     dev    initrd.img.old  libx32     opt         run   sys  vmlinuz
bin    etc     lib         lost+found  proc        sbin  tmp  vmlinuz.old
boot  home   lib32       media      README.txt  share usr

bandit14@bandit:/$ cd /etc/bandit_pass
bandit14@bandit:/etc/bandit_pass$ ls -a;
.      bandit11  bandit16  bandit20  bandit25  bandit3  bandit4  bandit9
..     bandit12  bandit17  bandit21  bandit26  bandit30  bandit5
bandit0 bandit13  bandit18  bandit22  bandit27  bandit31  bandit6
bandit1 bandit14  bandit19  bandit23  bandit28  bandit32  bandit7
bandit10 bandit15  bandit2   bandit24  bandit29  bandit33  bandit8
bandit14@bandit:/etc/bandit_pass$ cat bandit14
4wcYUJFw0k0XLShlDzztnTBHlqxU3b3e
bandit14@bandit:/etc/bandit_pass$
```

```
bandit14@bandit:/$ nc localhost 30000
4wcYUJFw0k0XLShlDzztnTBHlqxU3b3e
Correct!
BfMYroe26WYalil177FoDi9qh59eK5xNr

bandit14@bandit:/$
```