

CLI Commands by Suteerth Subramaniam

- [Bandit Website Game](#)
- [Main Github Repo](#)
- [Exercise Repo](#)

Level 0 -> Level 1

ZjLjTmM6FvvyRnrb2rfNW0Z0Ta6ip5If

```
ssh bandit0@bandit.labs.overthewire.org -p 2220
ls
cat readme
```

Level 1 -> Level 2

263JGJPfgU6LtdEvqfWU1XP5yac29mFx

- The filename is - so it has to be accessed in a different way.

```
cat < -
cat ./-
```

Level 2 -> Level 3

MNk8KNH3Usiio41PRUEoDFPqfxLP1Smx

- The filename has spaces in it's name so it needs to be accessed with it's name in quotes.

```
ls
cat < "spaces in this filename"
```

Level 3 -> Level 4

2WmrDFRmJIq3IPxneAaMGhap0pFhF3NJ

- The filename is hidden so we have to first access it (they start with .)

```
ls -a
cat ./...Hiding-From-You
```

Level 4 -> Level 5

4oQYVPkxZ00E005pTW81FB8j81xXGUQw

- The files are having a common prefix and only the last number changes so we can use * to make this easy for us.

```
cat ./-file0*
```

Level 5 -> Level 6

HWasnPhtq9AVKe0dmk45nxy20cvUa6EG

- The password for the next level is stored in a file somewhere under the inhere directory and has all of the following properties:
 - human-readable (ASCII only)
 - 1033 bytes in size
 - not executable

```
cd inhere
```

```
find . -type f -size 1033c ! -executable
```

- We can specify the exact size using the -size option. Adding +/- can be used to find it in a range.

Level 6 -> Level 7

morbNTDkSW6jI1Uc0ymOdMaLn0lFVAaj

- The password for the next level is stored somewhere on the server and has all of the following properties:
 - owned by user bandit7
 - owned by group bandit6
 - 33 bytes in size

```
find / -group bandit6 -user bandit7 -size 33c  
cat /var/lib/dpkg/info/bandit7.password
```

Level 7 -> Level 8

dfwvzFQi4mU0wfNbFOe9RowskMLg7eEc

- The password for the next level is stored in the file data.txt next to the word millionth

```
grep --help  
grep -F "millionth" data.txt
```

Level 8 -> Level 9

4CKMh1JI91bUIZZPXDqGana14xvAg0JM

- We have to find the password but it occurs only ONCE. This can be demonstrated as well.

```
sort data.txt | uniq -c  
sort data.txt | uniq -c | grep "1 "  
sort data.txt | uniq -u
```

Level 9 -> Level 10

FGUW5i1LVJrxX9kMYMmlN4MgbpfMiqey

- The password for the next level is stored in the file data.txt in one of the few human-readable strings, preceded by several '=' characters.
- strings command can be used to distinguish human-readable strings

```
strings data.txt | grep "====="
```

Level 10 -> Level 11

```
dtR173fZKb0RRsDFSGsg2RWnpNVj3qRr
```

- Pretty easy as you just gotta decode the base64 string to human readable text.

```
cat data.txt | base64 -d
```

Level 11 -> Level 12

```
7x16WNeHIi5YkIhWsfFIqoognUTyj9Q4
```

- The password for the next level is stored in the file data.txt, where all lowercase (a-z) and uppercase (A-Z) letters have been rotated by 13 positions
- Decode ROT13 encryption which can be achieved by tr old new

```
cat data.txt | tr 'A-Za-z' 'N-ZA-Mn-za-m'
```

Level 12 -> Level 13

```
F05dwFsc0cbaIiH0h8J2eUks2vdTDwAn
```

- data.txt is a hexdump of a file that has been repeatedly compressed
- Might be useful to create a directory under /tmp in which you can work. Use mkdir with a hard to guess directory name. Or better, use the command "mktemp -d". Then copy the datafile using cp, and rename it using mv (read the manpages!)
- 1f8b is gzip as we can see in the hexdump data. File signature will be the first few bytes.
- After decompressing first time, the new signature is 425a 68 which is bzip.s
- Once we see .bin file, its an archive so we can use tar
- data6.bin is again bz2

```
cd /tmp
mktemp -d
cd /tmp/tmp.agG7Rxjoj6
cp ~/data.txt /tmp/tmp.agG7Rxjoj6/data.txt
mv data.txt hexdump_data
xxd -r hexdump_data reversed
mv reversed reversed.gz
gzip -d reversed.gz
xxd reversed
mv reversed reversed.bz2
bzip2 -d reversed.bz2
mv reversed reversed.gz
gzip -d reversed.gz
xxd reversed.gz | head
```

```
mv reversed.gz reversed.tar
tar -xf data5.bin
xxd data6.bin.out | head
tar -xf data6.bin.out
xxd data8.bin | head
mv data8.bin data8.bin.gz
gzip -d data8.bin.gz
```