Bandit Level 00

To begin the Bandit wargame, connect to the host `bandit.labs.overthewire.org` on port `2220` using SSH. The username and password are both `bandit0`. You can connect using the command:

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

Once logged in, you'll find a file named `readme` in the home directory. To list all files including hidden ones, use:

```
ls -l
```

To read the content of the file and obtain the password for the next level:

```
cat readme
```

Password: `ZjLjTmM6FvvyRnrb2rfNWOZOTa6ip5If`

Bandit Level 01

The file containing the password is named `-` and is located in the home directory. Since `-` usually refers to standard input, you need to specify its path explicitly. Connect using:

```
ssh bandit1@bandit.labs.overthewire.org -p 2220
```

Then, to read the file:

```
cat ./-
```

Password: `263JGJPfgU6LtdEvgfWU1XP5yac29mFx`

Bandit Level 02

The password is stored in a file with spaces in its name: `spaces in this filename`. Connect using:

```
ssh bandit2@bandit.labs.overthewire.org -p 2220
```

You can read this file using either of the following commands:

```
cat "spaces in this filename"
```

Password: `MNk8KNH3Usiio41PRUEoDFPqfxLPlSmx`

Bandit Level 03

The password is stored in a hidden file inside the `inhere` directory. Connect using:

```
ssh bandit3@bandit.labs.overthewire.org -p 2220
```
Navigate to the directory and list all files, including hidden ones:

```
cd inhere
ls -la
```
Read the hidden file:

```
cat …Hiding-From-You
```

Password: `2WmrDFRmJIq3IPxneAaMGhap0pFhF3NJ`

Bandit Level 04

You need to find the only human-readable file in the `inhere` directory. Connect using:

```
ssh bandit4@bandit.labs.overthewire.org -p 2220
```
Navigate to the directory:

```
cd inhere
```
Use the `file` command on each file to identify the human-readable file:

```
file ./-file0
```
And so on…
Locate the file marked as `ASCII text`, and read it:

```
cat ./-file07
```

Password: `4oQYVPkxZOOEOO5pTW81FB8j8lxXGUQw`

Bandit Level 05

The password is hidden in a file somewhere inside the `inhere` directory. The file must be human-readable, exactly 1033 bytes in size, and not executable. Connect using:

```
ssh bandit5@bandit.labs.overthewire.org -p 2220
```
Use the `find` command to search for the file:

```
find ./inhere/ -type f -readable ! -executable -size 1033c
```
Then, read the file identified by the command:

```
cat /home/bandit5/inhere/maybehere07/.file2
```
Password: `HWasnPhtq9AVKe0dmk45nxy20cvUa6EG`

Bandit Level 06

The password is located somewhere on the server. The file is owned by `bandit7`, belongs to the group `bandit6`, and is exactly 33 bytes in size. Connect using:

```
ssh bandit6@bandit.labs.overthewire.org -p 2220
```

Run a `find` command starting from the root directory, filtering by size, owner, and group. Suppress permission error messages:

```
find / -type f -size 33c -group bandit6 -user bandit7
```

Then, read the discovered file:

```
cat /var/lib/dpkg/info/bandit7.password
```

Password: `morbNTDkSW6jIlUc0ymOdMaLnOlFVAaj`

Bandit Level 07

The password for the next level is stored in a file named `data.txt` located in the home directory. It contains many lines, and only one of them contains the word `millionth`. Connect using:

```
ssh bandit7@bandit.labs.overthewire.org -p 2220
```

To extract the line containing the word `millionth`:

```
grep millionth data.txt
```

This will directly print the line with the password.

Password: `dfwvzFQi4mU0wfNbFOe9RoWskMLg7eEc`

Bandit Level 08

The password is stored in the file `data.txt`, and it is the only line that occurs **only once**. Connect using:

```
ssh bandit8@bandit.labs.overthewire.org -p 2220
```

Sort the file and use `uniq` to find the unique line:

```
sort data.txt | uniq -u
```

This command will output the password.

Password: `4CKMh1JI91bUIZZPXDqGanal4xvAg0JM`

Bandit Level 09

The password is stored in the file `data.txt`, which contains multiple lines. It's in one of the few human-readable strings, preceded by several '=' characters. Connect using:

```
ssh bandit9@bandit.labs.overthewire.org -p 2220
```

Use `strings` and `grep` to find the line with the different character:

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

This will show the line that contains the different character (the password).

Password: `FGUW5ilLVJrxX9kMYMmlN4MgbpfMiqey`

Bandit Level 10

The password is stored in `data.txt`, which contains base64 encoded text. Connect using:

```
ssh bandit10@bandit.labs.overthewire.org -p 2220
```

To decode the password:

```
base64 -d data.txt
```

Password: `dtR173fZKb0RRsDFSGsg2RWnpNVj3qRr`

Bandit Level 11

The password is stored in `data.txt`, and it has been encoded with ROT13. Connect using:

```
ssh bandit11@bandit.labs.overthewire.org -p 2220
```

To decode ROT13:

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

Password: `7x16WNeHIi5YkIhWsfFIqoognUTyj9Q4`

Bandit Level 12

The password is stored in a file `data.txt` that was created by compressing a text file multiple times. Connect using:

```
ssh bandit12@bandit.labs.overthewire.org -p 2220
```

First, create a working directory and copy the file:

```
mktemp -d
cp data.txt /tmp/tmp.vw0ltfgVJp
cd /tmp/tmp.vw0ltfgVJp
mv data.txt a1.txt
```

Now iteratively decompress it

```
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ xxd -r a1.txt original.bin
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ ls
a1.txt  original.bin
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ file original.bin
original.bin: gzip compressed data, was "data2.bin", last modified: Thu Apr 10 14:22:57 2025, max compression, from Unix, original size modulo 2^32 585
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ mv original.bin original.gz
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ gunzip original.gz
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ ls
a1.txt  original
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ file original
original: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ mv original a2.bz2
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ bunzip2 a2.bz2
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ ls
a1.txt  a2
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ file a2
a2: gzip compressed data, was "data4.bin", last modified: Thu Apr 10 14:22:57 2025, max compression, from Unix, original size modulo 2^32 20480
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ mv a2 a2.gz
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ gunzip a2.gz
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ ls
a1.txt  a2
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ file a2
a2: POSIX tar archive (GNU)
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ tar -xvf a2
data5.bin
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ ls
a1.txt  a2  data5.bin
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ tar -xvf data5.bin
data6.bin
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ mv data6.bin a3.bz2
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ bunzip2 a3.bz2
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ ls
a1.txt  a2  a3  data5.bin
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ file a3
a3: POSIX tar archive (GNU)
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ tar -xvf a3
data8.bin
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ file data8.bin
data8.bin: gzip compressed data, was "data9.bin", last modified: Thu Apr 10 14:22:57 2025, max compression, from Unix, original size modulo 2^32 49
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ mv data8.bin a4.gz
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ gunzip a4.gz
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ ls
a1.txt  a2  a3  a4  data5.bin
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ file a4
a4: ASCII text
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$ cat a4
The password is FO5dwFsc0cbaIiH0h8J2eUks2vdTDwAn
bandit12@bandit:/tmp/tmp.vw0ltfgVJp$
```

Password: `FO5dwFsc0cbaIiH0h8J2eUks2vdTDwAn`

Bandit Level 13

The password is stored in the `sshkey.private` file. Connect using:

```
ssh bandit13@bandit.labs.overthewire.org -p 2220
```

To log in to the next level using the SSH key:

```
ssh -i sshkey.private bandit14@bandit.labs.overthewire.org -p 2220
```

Make sure the key file has correct permissions:

```
chmod 600 sshkey.private
```

Then, log in and you'll be able to proceed to the next level.