Level 0

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

Level 0 → Level 1

Task: Read the file named `readme` in the home directory.

```
cat readme
```

Level 1 → Level 2

Task: Read a file named `-`.

Soln: Write full address of file starting with ./

```
cat ./-
```

Level 2 → Level 3

Task: Read a file named `spaces in this filename`.

Soln: Write file name within quotes.

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

Level 3 → Level 4

Task: Read a hidden file in the `inhere` directory.

Soln: use ls -a to list *all* files/directories.

```
cd inhere
```

```
ls -a
```

```
cat .hidden
```

Level 4 → Level 5

Task: Find a human-readable file (not executable, not a directory).

Soln: Use file ./* to run file command on all files in given directory, file of type ASCII text contains password.

```
cd inhere

file ./*

cat ./-file07
```

Level 5 → Level 6

Task: Find a file of 1033 bytes, human-readable, not executable.

Soln: find file of given size which is *not* executable. Note: Bytes is represented using 'c'.

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

cat ./inhere/maybehere07/.file2
```

Level 6 → Level 7

Task: Find a file owned by `bandit7`, group `bandit6`, and size 33 bytes.

Soln: use find / to start search from root directory, add the user and group names along with mentioned size.

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

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

Level 7 → Level 8

Task: Find the password next to the word `millionth`.

Soln: Use grep to search for millionth in file and print corresponding line.

```
grep "millionth" data.txt
```

Level 8 → Level 9

Task: Find the only line that appears once.

Soln: uniq only scans for lines unique among its neighbours therefore precede it by sorting the data so that similar lines become neighbours.

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

Level 9 → Level 10

Task: Find human-readable string preceded by multiple =.

Soln: Use strings to get all human readable lines followed by grep "==" to output all lines preceded by more than one =

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

Level 10 → Level 11

Task: Decode a base64-encoded file.

Soln: Use base64 -d to decode data.

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

Level 11 → Level 12

Task: The file is a hexdump.

Soln: Convert it back using `xxd -r` and check using `file` command.

```
xxd -r data.txt decoded_file
```

```
file decoded_file
```

Level 12 → Level 13

Task: Use `ssh` with a private key.

Soln: Save the key to a file, give it the correct permissions, and ssh into the next level.

```
chmod 600 bandit14.key
```

```
ssh -i bandit14.key bandit14@localhost -p 2220
```