

Name Sonia

ID 24109119

Assignment: Bandit Wargame Levels 0 to 10

## Level 0

**Objective:** Connect to the game server via SSH on port 2220 using the provided credentials.

**Concept:** Learn how to establish a basic SSH connection.

```
Windows PowerShell
PS C:\Users\PMLS> ssh -p 2220 bandit@bandit.labs.overthewire.org
The authenticity of host '[bandit.labs.overthewire.org]:2220 ([16.171.91.169]:2220)' can't be established.
ED25519 key fingerprint is SHA256:C2ihUBV7ihnV1wUXRb4RrEcLfXC5CXlhmAAM/urerLY.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '[bandit.labs.overthewire.org]:2220' (ED25519) to the list of known hosts.

      _ _ _ _ _
     / _ _ _ _ \
    / _ _ _ _ \
   / _ _ _ _ \
  / _ _ _ _ \
 / _ _ _ _ \
/_ _ _ _ _ \

      This is an OverTheWire game server.
      More information on http://www.overthewire.org/wargames

!!! You are trying to log into this SSH server on port 2220 with a username
!!! that does not match the bandit game.

bandit@bandit.labs.overthewire.org's password: |
```

## Level 0 - 1

**Objective:** Locate the password stored in a file named readme within the home directory.

**Concept:** Practice listing files and reading file contents with commands like ls and cat.

```
http://www.overthewire.org/wargames/

For support, questions or comments, contact us on discord or IRC.

Enjoy your stay!

bandit0@bandit:~$ ls
readme
bandit0@bandit:~$ cat readme
Congratulations on your first steps into the bandit game!!
Please make sure you have read the rules at https://overthewire.org/rules/
If you are following a course, workshop, walkthrough or other educational activity,
please inform the instructor about the rules as well and encourage them to
contribute to the OverTheWire community so we can keep these games free!

The password you are looking for is: ZjLjTmM6FvvyRnrb2rfNWOZ0Ta6ip5If
```

## Level 1 - 2

**Objective:** Read the contents of a file named - to obtain the password.

**Concept:** Understand how to handle files with special characters using ./ or proper escaping.

```
bandit1@bandit:~$ cat ./-
263JGJPfgU6LtdEvgfWU1XP5yac29mFx
bandit1@bandit:~$ exit
logout
```

## Level 2 - 3

**Objective:** Find the password in a file with spaces in its name.

**Concept:** Use quotation marks or escape characters to access filenames with spaces.

```
bandit2@bandit:~$ ls
spaces in this filename
bandit2@bandit:~$ vim spaces\ in\ this\ filename
bandit2@bandit:~$ cat spaces\ in\ this\ filename
MNk8KNH3Usiio41PRUEoDFPqfxLPLSmx
bandit2@bandit:~$ exit
logout
```

### Level 3 – 4

Objective: **Discover a hidden file within the inhere directory.**

Concept: **Utilize the ls -a command to reveal hidden files.**

```
bandit3@bandit:~/inhere$ ls
bandit3@bandit:~/inhere$ vim ...Hiding-From-You
bandit3@bandit:~/inhere$ cat ...Hiding-From-You
2WmrDFRmJIq3IPxneAaMGhap0pFhF3NJ
```

### Level 4 – 5

Objective: **Identify the only human-readable file in the inhere directory.**

Concept: **Apply the file command to distinguish readable files from others**

```
bandit4@bandit:~$ ls -ah
.  ..  .bash_logout  .bashrc  inhere  .profile
bandit4@bandit:~$ cd inhere/
bandit4@bandit:~/inhere$ ls
-file00 -file01 -file02 -file03 -file04 -file05 -file06 -file07 -file08 -file09
bandit4@bandit:~/inhere$ file ./-file07
./-file07: ASCII text
bandit4@bandit:~/inhere$ cat ./-file07
4oQYVPkxZ00E005pTW81FB8j8lxXGUQw
bandit4@bandit:~/inhere$ exit
logout
```

## Level 5 -6

**Objective:** Locate a file within the inhere directory that is 1033 bytes, readable, and not executable.

**Concept:** Use the find command with conditions for size and permissions.

```
bandit5@bandit:~$ ls
inhere
bandit5@bandit:~$ cd inhere/
bandit5@bandit:~/inhere$ ls
maybeh ere00  maybeh ere02  maybeh ere04  maybeh ere06  maybeh ere08  maybeh ere10  maybeh ere12  maybeh ere14  maybeh ere16  maybeh ere18
maybeh ere01  maybeh ere03  maybeh ere05  maybeh ere07  maybeh ere09  maybeh ere11  maybeh ere13  maybeh ere15  maybeh ere17  maybeh ere19
bandit5@bandit:~/inhere$ ls -ah
.      maybeh ere00  maybeh ere02  maybeh ere04  maybeh ere06  maybeh ere08  maybeh ere10  maybeh ere12  maybeh ere14  maybeh ere16  maybeh ere18
..     maybeh ere01  maybeh ere03  maybeh ere05  maybeh ere07  maybeh ere09  maybeh ere11  maybeh ere13  maybeh ere15  maybeh ere17  maybeh ere19
bandit5@bandit:~/inhere$ find . -type f -size 1033c ! -executable -exec file {} \; | grep "ASCII text"
./maybeh ere07/.file2: ASCII text, with very long lines (1000)
bandit5@bandit:~/inhere$ cat ./maybeh ere07/.
./      ./      .file1 .file2 .file3
bandit5@bandit:~/inhere$ cat ./maybeh ere07/.file2
HWasnPhTq9AVKe0dmk45nxy20cvUa6EG
```

## Level 6 - 7

**Objective:** Search the system for a file that matches specific owner, group, and size criteria.

**Concept:** Combine find with -user, -group, and -size flags.

```
bandit6@bandit:~$ ls -ah
.  .. .bash_logout .bashrc .profile
bandit6@bandit:~$ cd ..
bandit6@bandit:/home$ find / -user bandit7 -group bandit6 -size 33c 2>/dev/null
/var/lib/dpkg/info/bandit7.password
bandit6@bandit:/home$ cat /var/lib/dpkg/info/bandit7.password
morbNTDkSW6jILUc0ymOdMaLn0LFVAaj
bandit6@bandit:/home$ exit
logout
```

## Level 7 - 8

**Objective:** Retrieve the password from a file line containing the word "millionth".

**Concept:** Use grep to search for lines containing specific keywords.

```
bandit7@bandit:~$ cd ~
bandit7@bandit:~$ ls -l
total 4088
-rw-r----- 1 bandit8 bandit7 4184396 Apr 10 14:23 data.txt
bandit7@bandit:~$ grep millionth data.txt
millionth      dfwvzFQi4mU0wfNbFOe9RoWskMLg7eEc
bandit7@bandit:~$ exit
logout
```

## Level 8 – 9

**Objective:** Identify the unique line in the data.txt file.

**Concept:** Use sort and uniq -u to filter out all duplicate lines.

```
bandit8@bandit:~$ cd ~
bandit8@bandit:~$ sort data.txt | uniq -u
4CKMh1JI91bUIZZPXDqGanaL4xvAg0JM
bandit8@bandit:~$ exit
logout
```

## Level 9 - 10

**Objective:** Find the password that is on a line starting with the = character.

**Concept:** Use strings to extract printable characters and grep to match the required pattern.

```
bandit9@bandit:~$ cd ~
bandit9@bandit:~$ strings data.txt | grep '===='
===== the
===== password{k
===== is
===== FGUW5illLVJrxX9kMYMmLN4MgbpfMiqey
bandit9@bandit:~$ exit
logout
```

## Level 10 - 11

**Objective:** Decode the password from a Base64-encoded string in data.txt.

**Concept:** Use the base64 command to decode encoded data.

```
bandit10@bandit:~$ cd ~/
bandit10@bandit:~$ cat data.txt | base64 -d
The password is dtR173fZKb0RRsDFSGsg2RWnpNVj3qRr
```