

# Bandit Level 5 to Level 10

## Level 5 → Level 6:

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
- 1033 bytes in size
- not executable

First, I logged into level 5 using SSH and used the password I found in the previous level.

```
(irfan47391@Kali)-[~]
$ ssh bandit5@bandit.labs.overthewire.org -p 2220
bandit5@bandit.labs.overthewire.org's password:
find . -size 1033c ! -executable -exec ls -lh {} +
This is an OverTheWire game server.
More information on http://www.overthewire.org/wargames
bandit5@bandit.labs.overthewire.org's password:
```

To view the list of files, I used the **ls** command, and it showed a directory named **inhere**. To enter the directory, I used the command **cd inhere**. After that, I ran the **ls** command again, it showed so many directories. I wanted to find the file under the condition: human-readable, 1033 bytes in size, not executable. So I used the command to find the password of next level:

```
find . -type f -size 1033c ! -executable -exec ls -lh {} +
```

## Explanation:

- **find .** → Search in the current directory and its subdirectories.
- **-type f** → Search for files (not directories).
- **-size 1033c** → Find files that are exactly **1033 bytes** (the **c** stands for bytes).
- **! -executable** → Exclude executable files.
- **-exec ls -lh {}** → Display the file details in a human-readable format (-lh).

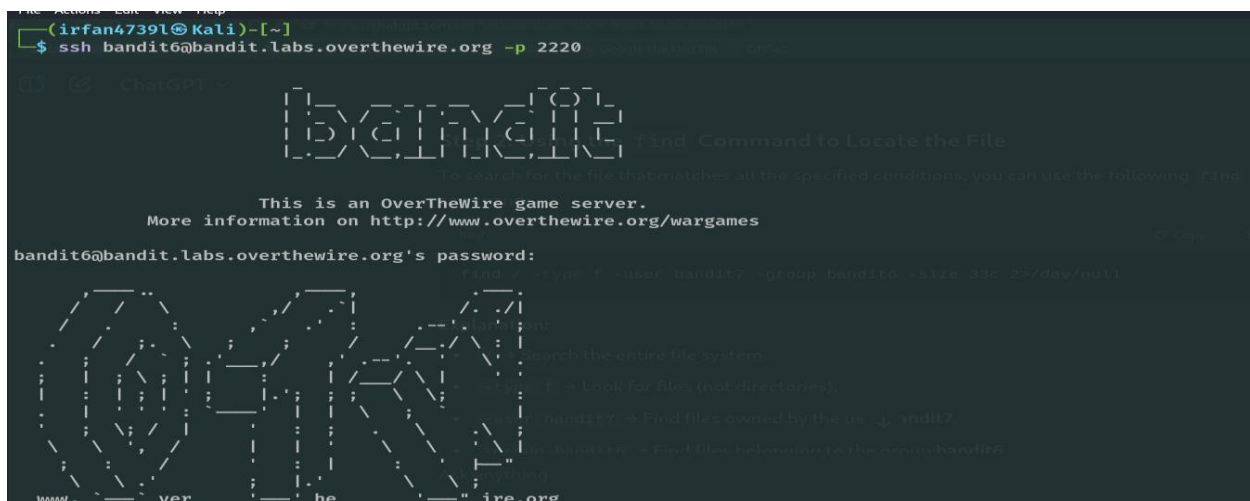
```
bandit5@bandit:~$ ls
inhere
bandit5@bandit:~$ cd inhere
bandit5@bandit:~/inhere$ ls
maybehere00 maybehere02 maybehere04 maybehere06 maybehere08 maybehere10 maybehere12 maybehere14 maybehere16 maybehere18
maybehere01 maybehere03 maybehere05 maybehere07 maybehere09 maybehere11 maybehere13 maybehere15 maybehere17 maybehere19
bandit5@bandit:~/inhere$ find . -type f -size 1033c ! -executable -exec ls -lh {} +
-rw-r----- 1 root bandit5 1.1K Sep 19 2024 ./maybehere07/.file2
bandit5@bandit:~/inhere$ cd maybehere07
bandit5@bandit:~/inhere/maybehere07$ ls
-file1 -file2 -file3 spaces file1 spaces file2 spaces file3
bandit5@bandit:~/inhere/maybehere07$ cat .file2
HWasnPhtq9AVKe0dmk45Nxy20cvUa6EG
```

## Level 6 → Level 7:

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

First, I logged into level 6 using SSH and used the password I found in the previous level.



```
File Actions Edit View Help
(irfan47391@Kali)-[~]
$ ssh bandit6@bandit.labs.overthewire.org -p 2220
bandit6@bandit.labs.overthewire.org's password:
This is an OverTheWire game server.
More information on http://www.overthewire.org/wargames
bandit6@bandit.labs.overthewire.org's password:
find / -type f -user bandit7 -group bandit6 -size 33c 2>/dev/null
```

Based on the given properties in the question, I found the next level password by using the command to find the password of next level:

**find / -type f -user bandit7 -group bandit6 -size 33c 2>/dev/null**

2>/dev/null → Suppress error messages (e.g., permissions denied).

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

## Level 7 → Level 8:

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

First, I logged into level 7 using SSH and used the password I found in the previous level.

```
(irfan4739l@Kali)-[~]
$ ssh bandit5@bandit.labs.overthewire.org -p 2220
bandit5@bandit.labs.overthewire.org's password:
This is an OverTheWire game server.
More information on http://www.overthewire.org/wargames
bandit5@bandit.labs.overthewire.org's password:
bandit5@bandit.labs.overthewire.org:~$
```

To view the list of directories or files, I used the `ls` command, and it showed a file named **data.txt**. Based on the question, the password is stored in the word **millionth**. To find this, I used the following command to find the password of next level:

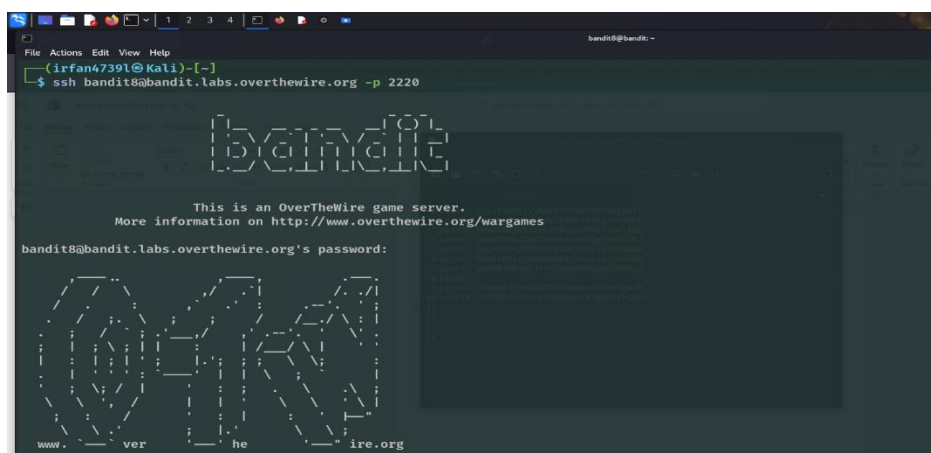
**cat data.txt | grep millionth**

```
bandit7@bandit:~$ ls
data.txt
bandit7@bandit:~$ cat data.txt | grep millionth
millionth      dfwvzFQi4mU0wfNbFOe9RoWskMLg7eEc
bandit7@bandit:~$
```

## Level 8 → Level 9:

The password for the next level is stored in the file **data.txt** and is the only line of text that occurs only once.

First, I logged into level 8 using SSH and used the password I found in the previous level.



To view the list of directories or files, I used the `ls` command, and it showed a file named **data.txt**. Based on the question, to find the only line of text that occurs once, I used the following command to find the password of next level::

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

**uniq** → This command filters out **duplicate** lines from the sorted output.

**-u** → This option specifically **prints only the lines that are unique** (appear **exactly once**).

```
bandit8@bandit:~$ ls
data.txt
bandit8@bandit:~$ sort data.txt | uniq -u
4CKMh1JI91bUIZZPXQqGana14xvAg0JM
bandit8@bandit:~$
```

## Level 9 → Level 10:

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.

First, I logged into level 8 using SSH and used the password I found in the previous level.

```
(irfan47391@Kali)-[~]
$ ssh bandit9@bandit.labs.overthewire.org -p 2220

bandit9@bandit.labs.overthewire.org's password:

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

bandit9@bandit.labs.overthewire.org's password:
```

To view the list of directories or files, I used the `ls` command, and it showed a file named **data.txt**. Based on the Question, to find one of the few human-readable strings, preceded by several '=' characters. So I used the following command to find the password of next level:

**strings data.txt | grep '='**

```
bandit9@bandit:~$ ls
data.txt
bandit9@bandit:~$ strings data.txt | grep '='
}===== the
3JprD===== passwordi
~fDV3===== is
D9===== FGUW5illLVJrxX9kMYMmlN4MgbpfMiqey
bandit9@bandit:~$
```