

# Bandit Level 1-10

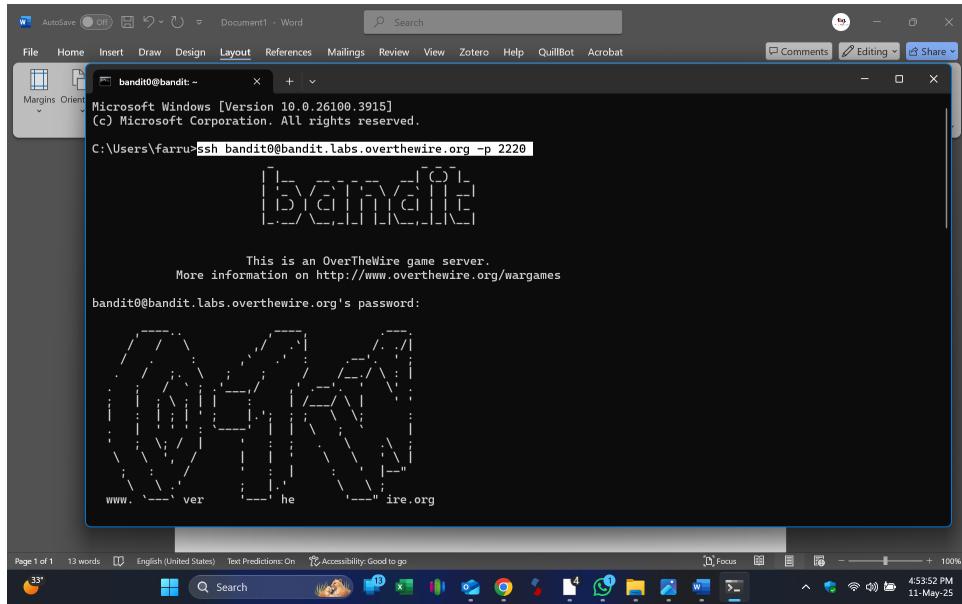
Assignment no 2  
Submitted to Mr. Muhammad Waqar  
Muhammad Farrukh - 24109124

# Level 0 → 1

**Goal:** Find a password in a file named readme.

**Command:** ssh bandit0@bandit.labs.overthewire.org -p 2220

**Password:** bandit0



```
bandit0@bandit:~
```

```
Microsoft Windows [Version 10.0.26100.3915]
(c) Microsoft Corporation. All rights reserved.

C:\Users\farrus>ssh bandit0@bandit.labs.overthewire.org -p 2220

[REDACTED]

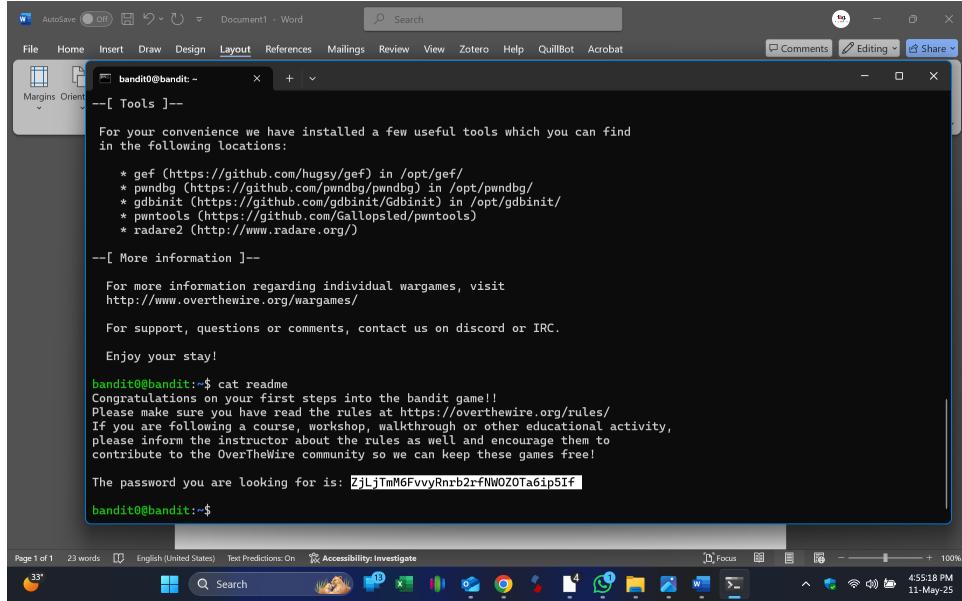
This is an OverTheWire game server.
More information on http://www.overthewire.org/wargames

bandit0@bandit.labs.overthewire.org's password:
```

```
[REDACTED]
```

www. over he ire.org

**Command:** cat readme



```
--[ Tools ]--
```

```
For your convenience we have installed a few useful tools which you can find
in the following locations:
```

```
* gef (https://github.com/hugsy/gef) in /opt/gef/
* pwndbg (https://github.com/pwndbg/pwndbg) in /opt/pwndbg/
* gdbinit (https://github.com/gdbinit/Gdbinit) in /opt/gdbinit/
* gdbtools (https://github.com/Gallopsled/pwntools)
* radare2 (http://www.radare.org/)

--[ More information ]--
```

```
For more information regarding individual wargames, visit
http://www.overthewire.org/wargames/
```

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

```
Enjoy your stay!
```

```
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: ZjLjTmM6FvvyRnrb2rFnVOZOta6ipSif
```

```
bandit0@bandit:~$
```

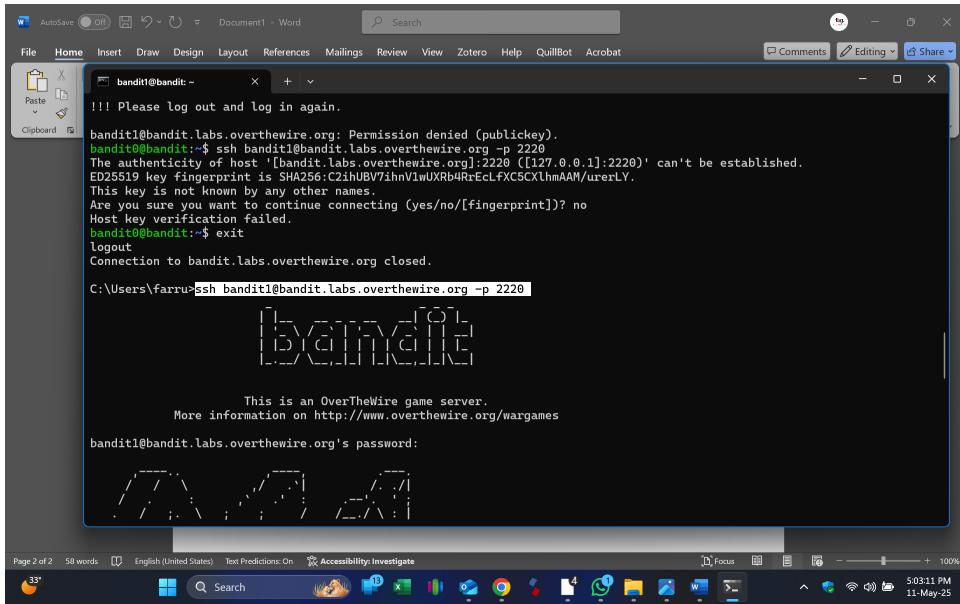
**Conclusion:** The highlighted password is the password for Bandit (Level 1).

## Level 1 → 2

**Goal:** File is called - (a dash). Use cat safely.

**Command:** ssh bandit1@bandit.labs.overthewire.org -p 2220

**Password:** from level 0 (ZjLjTmM6FvvyRnrb2rfNWOZOTa6ip5lf)



```
bandit1@bandit:~$ ssh bandit1@bandit.labs.overthewire.org -p 2220
The authenticity of host '[bandit.labs.overthewire.org]:2220 ([127.0.0.1]:2220)' can't be established.
ED25519 Key Fingerprint is SHA256:C2ihUBV71hmVlwUXRb4RxEclfXC5CXlmAAM/urerLY.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? no
Host key verification failed.
bandit1@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.

C:\Users\farrus>ssh bandit1@bandit.labs.overthewire.org -p 2220
[REDACTED]

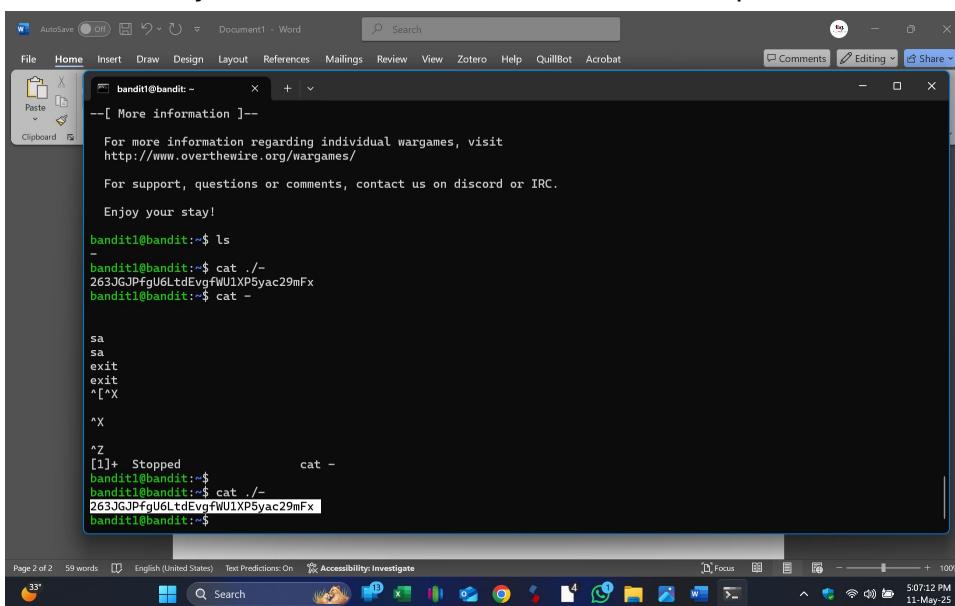
This is an OverTheWire game server.
More information on http://www.overthewire.org/wargames

bandit1@bandit.labs.overthewire.org's password:
```

**Command:** cat ./-

The file name is -, which is a special character in Linux. Normally, when you run cat - It waits for input from the keyboard, because - means "standard input" by default. So, you need a trick to tell Linux that - is a **filename**, not an instruction.

- ./ means "current directory"
- - is now clearly treated as a **filename**, not standard input



```
--[ More information ]--
For more information regarding individual wargames, visit
http://www.overthewire.org/wargames/

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

Enjoy your stay!

bandit1@bandit:~$ ls
-
bandit1@bandit:~$ cat -/
263JGJPfU6LtdEvgfWU1XP5yac29mFx
bandit1@bandit:~$ cat -

sa
sa
exit
exit
^[[X

^X

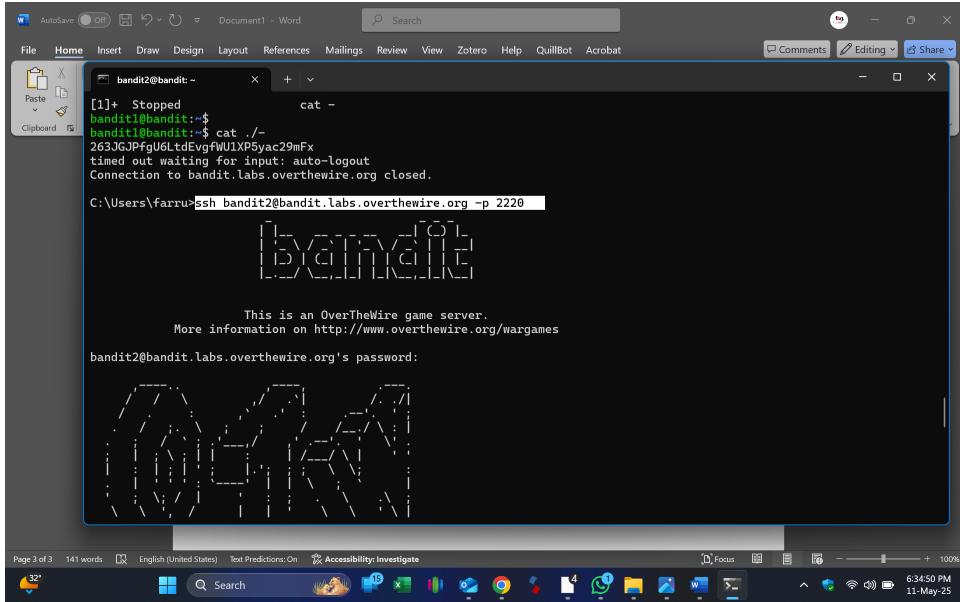
^Z
[1]+ Stopped                  cat -
bandit1@bandit:~$ cat -/
263JGJPfU6LtdEvgfWU1XP5yac29mFx
bandit1@bandit:~$
```

## Level 2 → 3

**Goal:** File is in spaces in this filename.

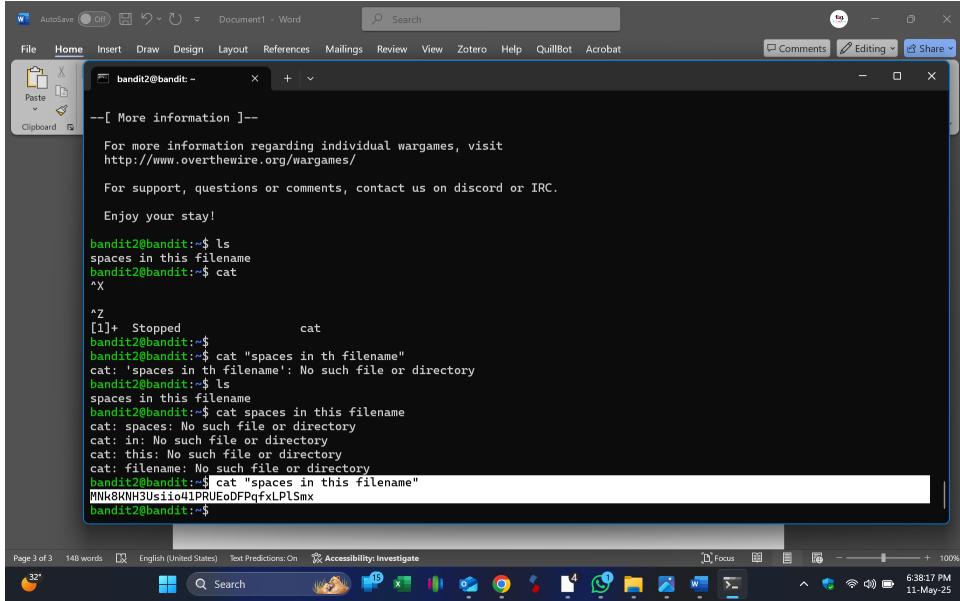
**Command:** ssh bandit2@bandit.labs.overthewire.org -p 2220

**Password:** from level 1 (263JGJPfgU6LtdEvgfWU1XP5yac29mFx)



```
[1]+ Stopped cat -  
bandit2@bandit:~$  
bandit2@bandit:~$ cat ./-  
263JGJPfgU6LtdEvgfWU1XP5yac29mFx  
timed out waiting for input: auto-logout  
Connection to bandit.labs.overthewire.org closed.  
C:\Users\farrussh bandit2@bandit.labs.overthewire.org -p 2220  
[spaces in th filename]  
  
This is an OverTheWire game server.  
More information on http://www.overthewire.org/wargames  
bandit2@bandit.labs.overthewire.org's password:  
[REDACTED]
```

**Command:** cat “spaces in this filename”



```
--[ More information ]--  
  
For more information regarding individual wargames, visit  
http://www.overthewire.org/wargames/  
  
For support, questions or comments, contact us on discord or IRC.  
  
Enjoy your stay!  
  
bandit2@bandit:~$ ls  
spaces in this filename  
bandit2@bandit:~$ cat  
^X  
[1]+ Stopped cat -  
bandit2@bandit:~$  
bandit2@bandit:~$ cat "spaces in th filename"  
cat: 'spaces in th filename': No such file or directory  
bandit2@bandit:~$ ls  
spaces in this filename  
bandit2@bandit:~$ cat spaces in this filename  
cat: spaces: No such file or directory  
cat: in: No such file or directory  
cat: this: No such file or directory  
cat: filename: No such file or directory  
bandit2@bandit:~$ cat "spaces in this filename"  
MNN8KNH3Us1i04lPRUEoDFPqfxLPlSmx  
bandit2@bandit:~$
```

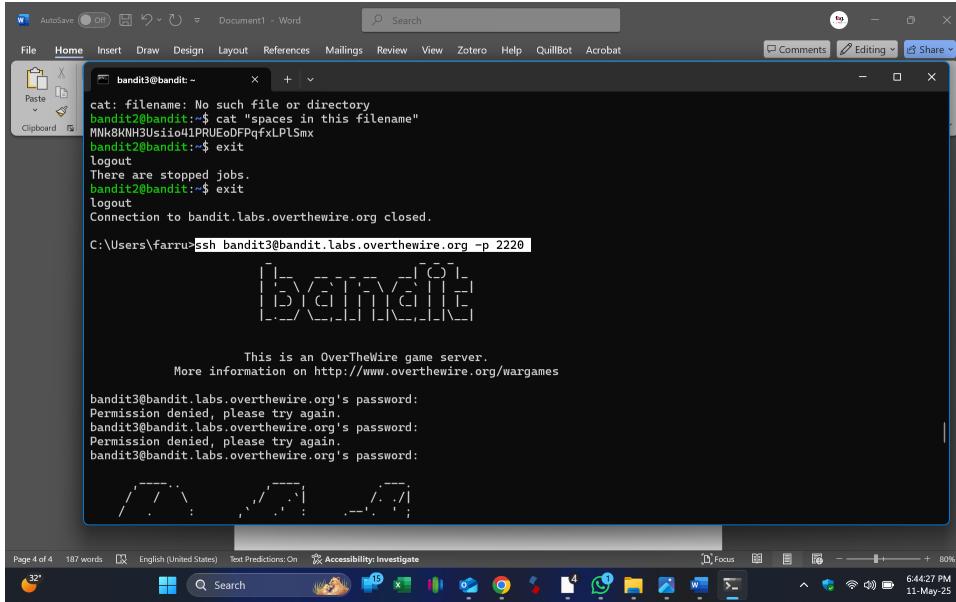
**Conclusion:** Treat everything inside the quotes as one single string—don't split by spaces.

## Level 3 → 4

**Goal:** Hidden file in the inhere directory.

**Command:** ssh bandit3@bandit.labs.overthewire.org -p 2220

**Password:** from level 2 (MNk8KNH3Usiio41PRUEoDFPqfxLPISmx)



```
bandit3@bandit: ~
cat: filename: No such file or directory
bandit3@bandit: ~$ cat "spaces in this filename"
MNk8KNH3Usiio41PRUEoDFPqfxLPISmx
bandit3@bandit: ~$ exit
logout
There are stopped jobs.
bandit3@bandit: ~$ exit
logout
Connection to bandit.labs.overthewire.org closed.

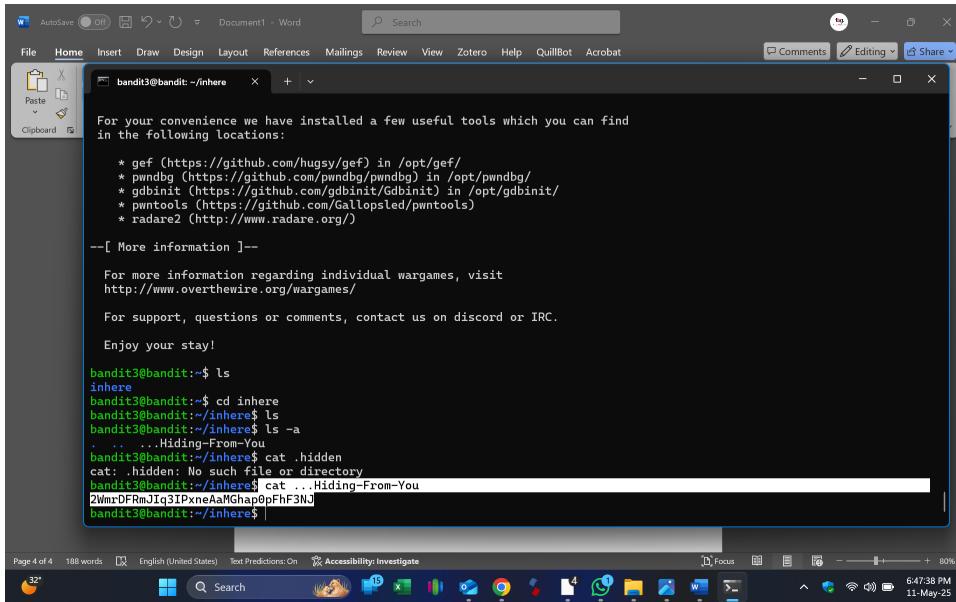
C:\Users\farrus$ ssh bandit3@bandit.labs.overthewire.org -p 2220

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

bandit3@bandit.labs.overthewire.org's password:
Permission denied, please try again.
bandit3@bandit.labs.overthewire.org's password:
Permission denied, please try again.
bandit3@bandit.labs.overthewire.org's password:
```

**Command:** ls → cd inhere → ls -a → cat ...Hiding-From-You

**Purpose:** cd inhere (Enter Target Directory) ls -a (Show Hidden Files)



```
For your convenience we have installed a few useful tools which you can find
in the following locations:
* gef (https://github.com/hugsy/gef) in /opt/gef/
* pwndbg (https://github.com/pwndbg/pwndbg) in /opt/pwndbg/
* gdbinit (https://github.com/gdbinit/Gdbinit) in /opt/gdbinit/
* pwntools (https://github.com/Gallopsolo/pwntools)
* radare2 (http://www.radare.org/)

--[ More information ]--

For more information regarding individual wargames, visit
http://www.overthewire.org/wargames/

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

Enjoy your stay!

bandit3@bandit: ~$ ls
inhere
bandit3@bandit: ~$ cd inhere
bandit3@bandit:~/inhere$ ls
bandit3@bandit:~/inhere$ ls -a
. . . ..Hiding-From-You
bandit3@bandit:~/inhere$ cat .hidden
cat: .hidden: No such file or directory
bandit3@bandit:~/inhere$ cat ..Hiding-From-You
2WmrDFRmJlq3IPxneAMGhapOpFhF3NJ
bandit3@bandit:~/inhere$
```

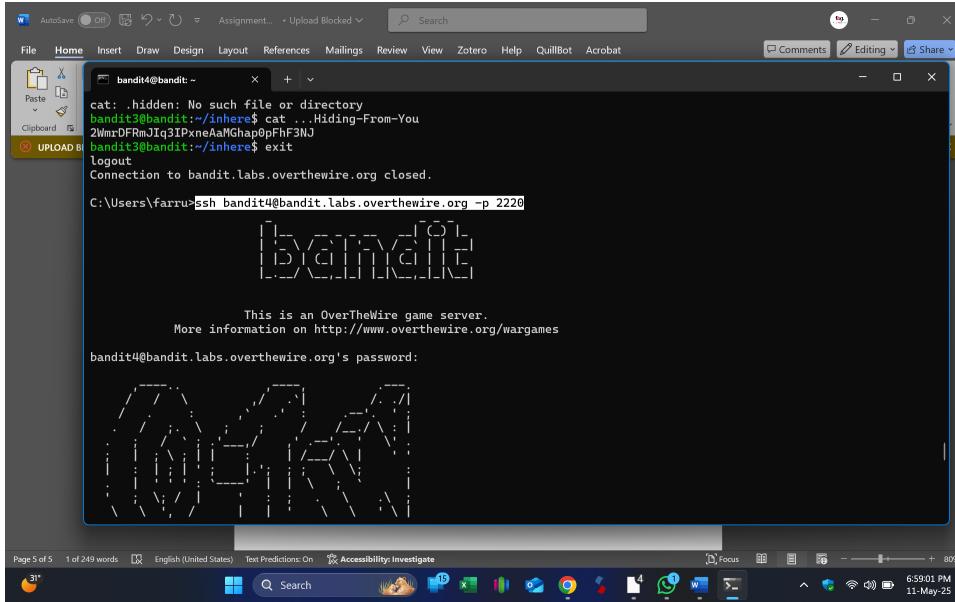
**Conclusion:** Find and enter the target directory, show the hidden files, and read the password from the hidden files.

## Level 4 → 5

**Goal:** File with human-readable content, 1033 bytes.

**Commands:** ssh bandit4@bandit.labs.overthewire.org -p 2220

**Password:** from level 3 (2WmrDFRmJlq3IPxneAaMGhap0pFhF3NJ)

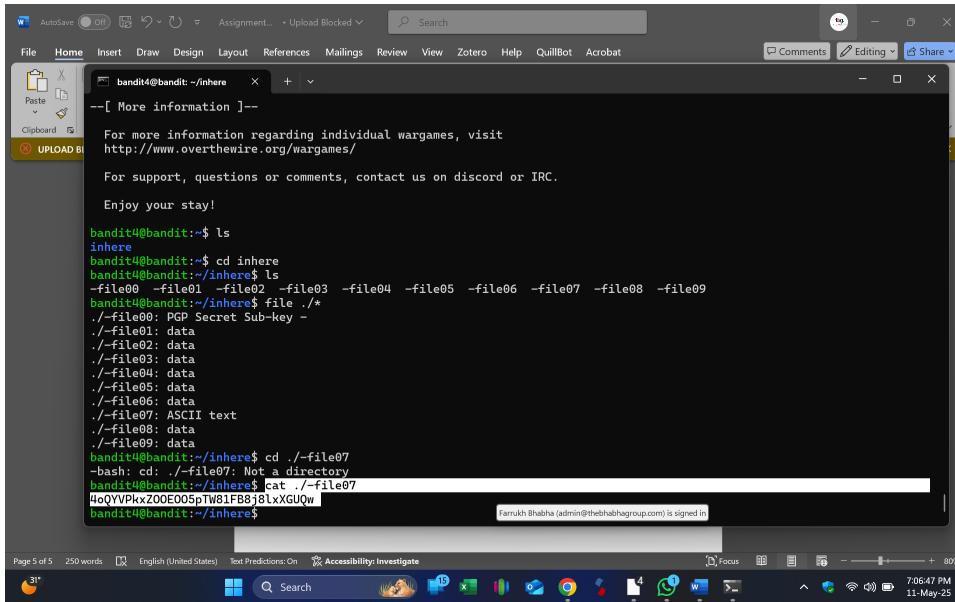


```
bandit4@bandit: ~
cat: .hidden: No such file or directory
bandit3@bandit:~/inhere$ cat ./Hiding-From-You
2WmrDFRmJlq3IPxneAaMGhap0pFhF3NJ
bandit3@bandit:~/inhere$ exit
logout
Connection to bandit.labs.overthewire.org closed.

C:\Users\farrussh bandit4@bandit.labs.overthewire.org -p 2220
[REDACTED]
This is an OverTheWire game server.
More information on http://www.overthewire.org/wargames
bandit4@bandit.labs.overthewire.org's password:
[REDACTED]
```

**Commands:** ls → cd inhere → ls → file /\* → cat ./-file07

**Purpose:** file./\* (To check the file type of each) We need ASCII text file which is file 07. So, we are using cat with ./ to handle the dash (-) in the filename.



```
--[ More information ]--
For more information regarding individual wargames, visit
http://www.overthewire.org/wargames/
For support, questions or comments, contact us on discord or IRC.
Enjoy your stay!

bandit4@bandit:~$ ls
inhere
bandit4@bandit:~$ cd inhere
bandit4@bandit:~/inhere$ ls
-file00 -file01 -file02 -file03 -file04 -file05 -file06 -file07 -file08 -file09
bandit4@bandit:~/inhere$ file ./*
./file00: PGP Secret Sub-key -
./file01: data
./file02: data
./file03: data
./file04: data
./file05: data
./file06: data
./file07: ASCII text
./file08: data
./file09: data
bandit4@bandit:~/inhere$ cd ./file07
-bash: cd: ./file07: Not a directory
bandit4@bandit:~/inhere$ cat ./file07
4oQVPrxxZ0DE005pTW81FB8j8lxXGUQw
bandit4@bandit:~/inhere$
```

**Conclusion:** To check the file type of each file helps us to identify the exact file we need to extract the password from file07.

# Level 5 → 6

**Goal:** File is executable and owned by bandit6.

**Commands:** ssh bandit5@bandit.labs.overthewire.org -p 2220

**Password:** from level 4 (4oQYVPkxZOOEOO5pTW81FB8j8lxXGUQw)

**Commands:** ls → cd inhere → ls -l ./\* → find . -readable -size 1033c ! -executable → cat maybehere07/.file2

**Purpose:** find (the command search file) . (search in current directory) -readable (find file that has read permission) -size 1033c (find exactly 1033 bytes in size) ! -executable (exclude file that are executable "!" means NOT)

Assignment... + Upload Blocked

File Home Insert Draw Design Layout References Mailings Review View Zotero Help QuillBot Acrobat

Comments Editing Share

```
bandit5@bandit:~/inhere
```

./mayberehere18:  
total 44  
-rwxr-x--- 1 root bandit5 9697 Apr 10 14:23 -file1  
-rwxr----- 1 root bandit5 77 Apr 10 14:23 -file2  
-rwxr-x--- 1 root bandit5 2306 Apr 10 14:23 -file3  
-rwxr-x--- 1 root bandit5 7334 Apr 10 14:23 spaces file1  
-rwxr----- 1 root bandit5 6348 Apr 10 14:23 spaces file2  
-rwxr-x--- 1 root bandit5 7040 Apr 10 14:23 spaces file3

./mayberehere19:  
total 48  
-rwxr-x--- 1 root bandit5 6302 Apr 10 14:23 -file1  
-rwxr----- 1 root bandit5 5594 Apr 10 14:23 -file2  
-rwxr-x--- 1 root bandit5 7965 Apr 10 14:23 -file3  
-rwxr-x--- 1 root bandit5 7186 Apr 10 14:23 spaces file1  
-rwxr----- 1 root bandit5 8785 Apr 10 14:23 spaces file2  
-rwxr-x--- 1 root bandit5 2307 Apr 10 14:23 spaces file3  
bandit5@bandit:~/inhere\$ find . -readable -size 1033c ! -executable  
. ./mayberehere07/.file2  
bandit5@bandit:~/inhere\$ cat mayberehere07/.file2  
HWasnPhtq9AVKe0dmk45nxy20cvUa6EG

bandit5@bandit:~/inhere\$

Commands:

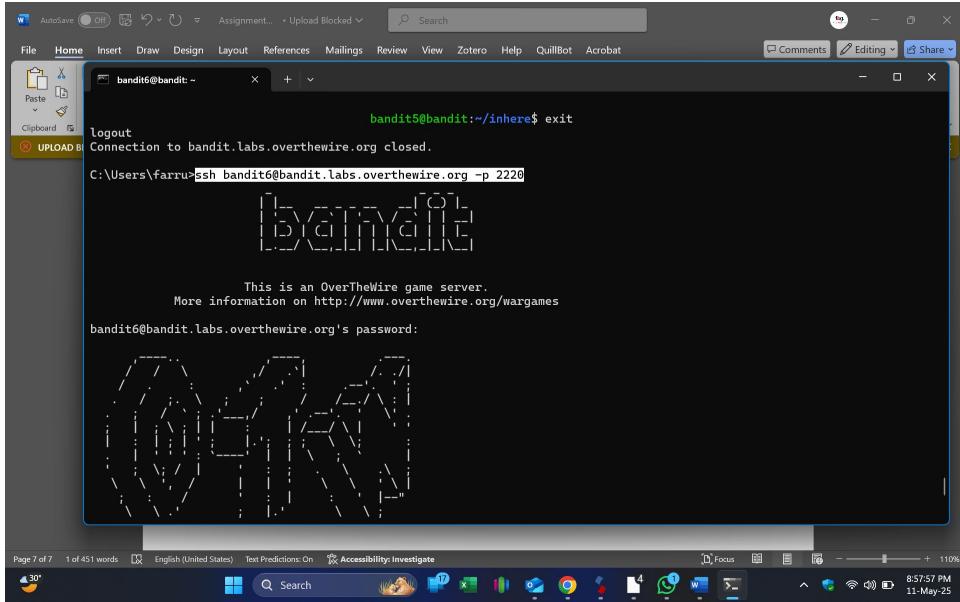
**Conclusion:** To find the file from the directory with the exact file size, add more filters to find the exact file name, which has the password to unlock the next step.

## Level 6 → 7

**Goal:** Password is stored in user bandit7's home directory, readable via SSH.

**Commands:** ssh bandit6@bandit.labs.overthewire.org -p 2220

**Passwords:** from level 5 (HWasnPhtq9AVKe0dmk45nxy20cvUa6EG)



```
bandit6@bandit: ~
```

```
bandit5@bandit:~/inhere$ exit
```

```
logout
```

```
Connection to bandit.labs.overthewire.org closed.
```

```
C:\Users\farrus>ssh bandit6@bandit.labs.overthewire.org -p 2220
```

```
[BANDIT6]
```

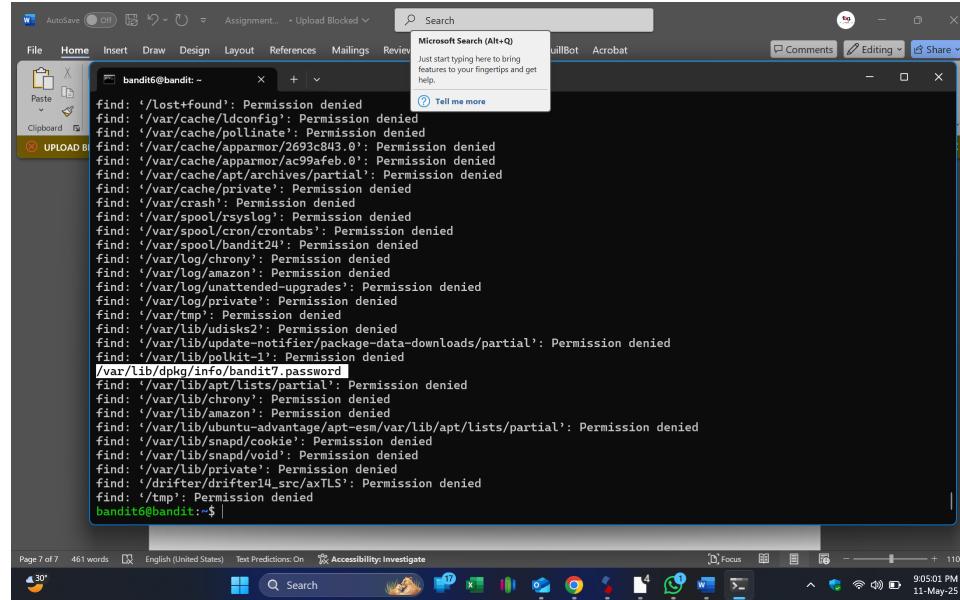
```
This is an OverTheWire game server.  
More information on http://www.overthewire.org/wargames
```

```
bandit6@bandit.labs.overthewire.org's password:
```

```
[REDACTED]
```

**Commands:** find / -user bandit7 -group bandit6 -size 33c

**Purpose:** / (Search in root directory) -user bandit7 (look for the files owned by user bandit7) -group bandit6 (that also belongs to group bandit6) -size 33c (have an exact same size)



```
bandit6@bandit: ~
```

```
find: '/lost+found': Permission denied
```

```
find: '/var/cache/ldcnfig': Permission denied
```

```
find: '/var/cache/pollinate': Permission denied
```

```
find: '/var/cache/apparmor/2693c8d3 0': Permission denied
```

```
find: '/var/cache/apparmor/ac99afeb 0': Permission denied
```

```
find: '/var/cache/apt/archives/partial': Permission denied
```

```
find: '/var/cache/private': Permission denied
```

```
find: '/var/crash': Permission denied
```

```
find: '/var/spool/rsyslog': Permission denied
```

```
find: '/var/spool/cron/crontabs': Permission denied
```

```
find: '/var/spool/bandit2u': Permission denied
```

```
find: '/var/log/chrony': Permission denied
```

```
find: '/var/log/amazon': Permission denied
```

```
find: '/var/log/unattended-upgrades': Permission denied
```

```
find: '/var/log/private': Permission denied
```

```
find: '/var/tmp': Permission denied
```

```
find: '/var/lib/udisks2': Permission denied
```

```
find: '/var/lib/update-notifier/package-data-downloads/partial': Permission denied
```

```
find: '/var/lib/polkit-1': Permission denied
```

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

```
find: '/var/lib/apt/lists/partial': Permission denied
```

```
find: '/var/lib/chrony': Permission denied
```

```
find: '/var/lib/amazon': Permission denied
```

```
find: '/var/lib/ubuntu-adantage/apt-esm/var/lib/apt/lists/partial': Permission denied
```

```
find: '/var/lib/snappy/cookie': Permission denied
```

```
find: '/var/lib/snappy/void': Permission denied
```

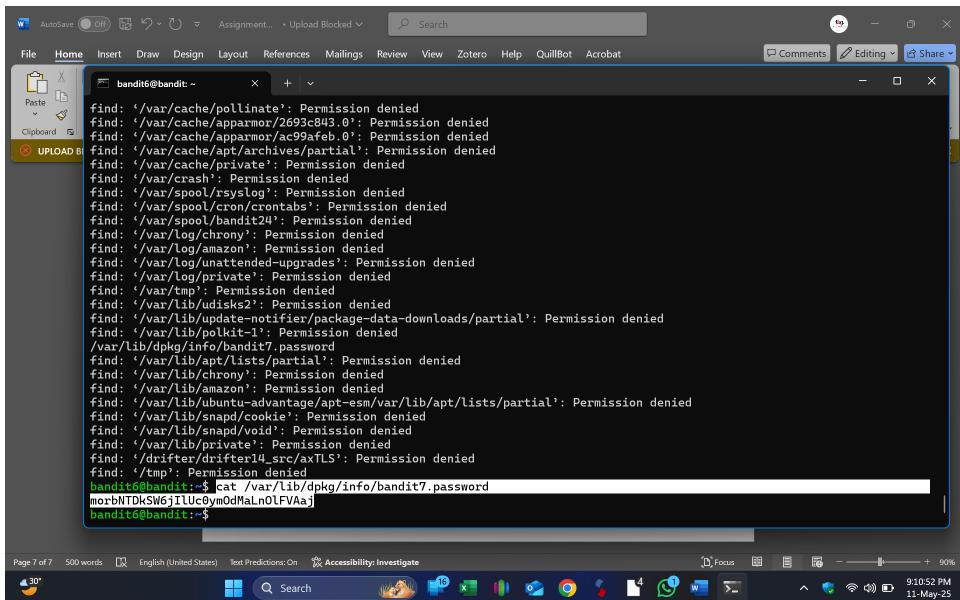
```
find: '/var/lib/private': Permission denied
```

```
find: '/drifter/drifter14_src/axTLS': Permission denied
```

```
find: '/tmp': Permission denied
```

```
bandit6@bandit:~$ |
```

The commands found the file that contains the password.



```
bandit6@bandit: ~ + 
find: '/var/cache/pollinate': Permission denied
find: '/var/cache/apparmor/2693c043.0': Permission denied
find: '/var/cache/apparmor/ac99afeb.0': Permission denied
find: '/var/cache/apt/archives/partial': Permission denied
find: '/var/cache/private': Permission denied
find: '/var/crash': Permission denied
find: '/var/spool/rsyslog': Permission denied
find: '/var/spool/cron/crontabs': Permission denied
find: '/var/spool/bandit24': Permission denied
find: '/var/log/chrony': Permission denied
find: '/var/log/amazon': Permission denied
find: '/var/log/unattended-upgrades': Permission denied
find: '/var/log/packetbeat': Permission denied
find: '/var/log/privated': Permission denied
find: '/var/lib/lddmap': Permission denied
find: '/var/lib/ubuntu-notifier/package-data-downloads/partial': Permission denied
find: '/var/lib/polkit-1': Permission denied
/var/lib/dpkg/info/bandit7.password
find: '/var/lib/ubuntu/lists/partial': Permission denied
find: '/var/lib/chrony': Permission denied
find: '/var/lib/Amazon': Permission denied
find: '/var/lib/ubuntu-advantage/apt-cfm/var/lib/apt/lists/partial': Permission denied
find: '/var/lib/snappy/cookie': Permission denied
find: '/var/lib/snappy/void': Permission denied
find: '/var/lib/private': Permission denied
find: '/drifter/drifter14_src/xTLS': Permission denied
find: '/tmp': Permission denied
bandit6@bandit:~$ cat /var/lib/dpkg/info/bandit7.password
m0zbNTkSW6jIUc8ym0dMaLn0LFVAAj
bandit6@bandit:~$
```

**Conclusion:** Find files in the root directory in specific users and groups with the exact file size to get the password to unlock the next level.

## Level 7 → 8

**Goal:** File is in /var/lib/dpkg/info/ and contains the word "millionth".

**Commands:** ssh bandit7@bandit.labs.overthewire.org -p 2220

**Password:** from level 6 (morbNTDkSW6jIUc0ymOdMaLnOlFVaaj)

A screenshot of a Microsoft Word document titled "bandit7@bandit:". The document contains several lines of text, mostly consisting of permission denied errors from a terminal session. It ends with the command "cat /var/lib/dpkg/info/bandit7.password". Below this, the text "bandit7@bandit:~\$ cat /var/lib/dpkg/info/bandit7.password" is displayed. At the bottom of the document, there is a large watermark-like graphic of the word "BANDIT" and some smaller text below it.

```
find: '/var/lib/update-notifier/package-data-downloads/partial': Permission denied
find: '/var/lib/polkit-1': Permission denied
/var/lib/dpkg/info/bandit7.password
find: '/var/lib/apt/lists/partial': Permission denied
find: '/var/lib/chrony': Permission denied
find: '/var/lib/amazon': Permission denied
find: '/var/lib/ubuntu-adantage/apt-esm/var/lib/apt/lists/partial': Permission denied
find: '/var/lib/snappy/cookie': Permission denied
find: '/var/lib/snappy/void': Permission denied
find: '/var/lib/private': Permission denied
find: '/drifter/drifter1_u:/etc/ssl/': Permission denied
find: '/tmp': Permission denied
bandit7@bandit:~$ cat /var/lib/dpkg/info/bandit7.password
bandit7@bandit:~$ client_loop: send disconnect: Connection reset
C:\Users\farru\ssh bandit7@bandit.labs.overthewire.org -p 2220

This is an OverTheWire game server.
More information on http://www.overthewire.org/wargames
bandit7@bandit.labs.overthewire.org's password:
```

**Commands:** ls → cat data.txt → grep millionth data.txt

**Purpose:** grep (used to search pattern in text) millionth (the search term (pattern) we are looking for) data.txt (the file where “grep” will search the word “miilionth”)

A screenshot of a Microsoft Word document titled "bandit7@bandit:". The document contains a large amount of text, mostly consisting of various user names and their corresponding hashed passwords. In the middle of the list, the password "millionth" is visible. Below this, the command "grep millionth data.txt" is typed into the document. At the bottom of the document, there is a large watermark-like graphic of the word "BANDIT" and some smaller text below it.

```
hardwoods SP7FimZLjm9tH8pmk/zFdtkh8whGZN6dp
goldsmith's CrXR10nN4OT7WosFyUfAVzC2cb0W5bYn
paired SmaaOtgrlrvpzd6DA1T3pmLTeUBRLK14
Becky NpPZj1OYboeQzrPFSS1MHuW63DXNPgW
columnists PUF75X5esnl7kvIy3D0AWwrx1zE4UPPof
avocations FA877P9tbm02kbINOGSxaB1JxXFkbyK
foolery's nlXn7DJEFSF9JokQVikopeboxyxpnlMv
papyrus'es MgIBLJSn/BcApJ94kAo/g6PL1t7GcFmp
palace's 3P3NTvJCAG1zOPPEL6Bwnjnbl613Fsole
attiring Phy40t:f8gzbPkg9nfjyvBCGFaIUhKyUW
bogeyman's 7tA810OUUlcwQYSpExPqF04zgJ0Ica991
plaid ochCeakS7xxvxEf1xTw0E5bf8WrrrFx
crinoline's 7m7MqeNz2EP1yyRzLSkdwv88CqOSWDHF
lovely blteD9ejobhkhZ1XCh5X80PFBryxx2
hounding quxySkWoeghDLijSmZsq1ChdrwYnxjzxXX
worriers AyvR16aruz2YuxCEFLeuu1wQS83K6
whens zL6LbzIsVxBVx6hdJewd4sol_QFA1Eda
betray iGLlyYYF6ZYochuJwQo6c4nSXESTr
nakedness 2jywzvd0g01W17u011512z2LwoY0gpr
doghouse's B3L6ehVg5dL47EFZJ6VTPdx5CFKasXqn
mitigates C0918FgWYvwj0hjYzeFVIA5WnQgtzLRm
donor's TRFc1w69NkyvpAV10nDVy3wNDx3jewG9
kitchening DXIV10nqj1D5b5tSLRTHs4VnaYeMko
reclining 6GvvluOX1HsImFyA106y5rZB0dnFcB
achoo uZoJJJIhx4xaQTkTTjp/HhqgqgWPR6W
detonators 0WF07wP92Anjso580AP5tktgtZXP5nZ0
steeple's wYdpBLfOnvICttzBwVnPnUpk1vU1kv0
bandit7@bandit:~$ grep millionth data.txt
millionth dfvvzFQi4mU0wfNbFOe9RoWsKMLg7eEc
bandit7@bandit:~$
```

**Conclusion:** This command searches for the word "**millionth**" in the file named **data.txt**. The data.txt file has many codes, but the correct password is millionth and grep helps us to identify the pattern.

## Level 8 → 9

**Goal:** Password is one of many files. Find one with unique content.

**Commands:** ssh bandit8@bandit.labs.overthewire.org -p 2220

**Password:** from level 7 (dfwvzFQi4mU0wfNbFOe9RoWskMLg7eEc)

Assignment... - Upload Blocked

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bandit@bandit:~\$ exit  
logout  
Connection to bandit.labs.overthewire.org closed.

C:\Users\farru>ssh bandit@bandit.labs.overthewire.org -p 2220\\  
Bad port '2220'.

C:\Users\farru>ssh bandit@bandit.labs.overthewire.org -p 2220

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

bandit8@bandit.labs.overthewire.org's password:



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**Commands:** ls → cat data.txt → sort data.txt | uniq -u

**Purpose:** sort data.txt (sort all lines alphabetically). uniq -u (print only unique lines, lines that do not repeat)

**Conclusion:** Using sort command to sort the data.txt content and uniq -u to show the unique passwords that do not repeat in the list of passwords. The unique password are correct password for the next step.

## Level 9 → 10

**Goal:** 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.

**Commands:** ssh bandit9@bandit.labs.overthewire.org -p 2220

**Password:** from level 8 (4CKMh1JI91bUIZZPXDqGanal4xvAg0JM)

```
pZX0E5uS8oJx5019kaFKFRhw2f9Xrs5
pVAAhUZh6nq4x0Y8X52yqc8hk41n40
tssQ8T2290qjsz1bNnS9pUpczCJV
YhKRNXz120v2ycD7aCnzaRseadLEG
IfhzpDRzr2rIteuCHl2zA3t7jaJIV
bandit8@bandit:~$ sort data.txt | uniq -u
4CKMh1JI91bUIZZPXDqGanal4xvAg0JM
bandit8@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.

C:\Users\farru>ssh bandit9@bandit.labs.overthewire.org -p 2220
[REDACTED]
[REDACTED]

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

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

**Commands:** ls → cat data.txt → strings data.txt | grep "=="

**Purpose:** strings data.txt (extract all printable strings from data.txt) “==” (filter and display only lines containing ==)

```
***l,t***.
0N***u-3*t*c4*/o***X**;o<e*h*n***nZ*xup*Q**;-
X'*v*U***.
S'*z**Leml?*
****

X
+H1Q**, o$*G**o
.aN**l,C***oQ!NnjdN?***o**ZJ-***o***d=***+X**8***Sbw**z<7p**Ac*[***g*G**c***A*   eyX***U**j**Y**e***f*:JrM*****P*oU**j*p99
*5*5n**oJ*y**y**?*}[****

*Dji***z*\i@[P*8**=**h|1***=**i
l***ey{***9***=**b=Q***[[***7*o***6*R*2 **$*O***pp*H@]*oF*%***Q*2*}oY***b***E*0***;j*#*u*H***P[
***D*#*=-

*:***[Gm*q***o*#
**c
*?***t***g***o***-***y*As***leg*K***F***$**;***#***V***o***Z;***u***v***o***e***v***c
U6***o***o***x*V*|o|x*pe***S*o***m
c***o***l*I*F***"***M***G*ho*f/*;***?
***"***.o***5*0***_F*ob***d***o***/***"8*m*7***]
***{***u*_V***o***f*;o<[e*B*Z(+***o***F***T*o@0="I*3*s***8***j s3v*^t*o
*D*?***o***o***Z*o***o***o***BL*o***R*o***v!*x*F***o*o*o*,~pYbandit9@bandit:>$ strings data.txt | grep "=="
Command 'strings' not found, did you mean:
  command 'strings' from deb binutils (2.42-1ubuntu2.4)
Try: apt install <deb name>
bandit9@bandit:>$ strings data.txt | grep ==
=====
the
password{k
is
FGUW5iLVJrxX9kMYMmlN4MgbpfMiqey
bandit9@bandit:>
```

**Conclusion:** To extract printable text from data.txt, then search for lines containing ==.

**Level 10 unlocked and password for Level 10 is FGUW5iLVJrxX9kMYMmlN4MgbpfMiqey**