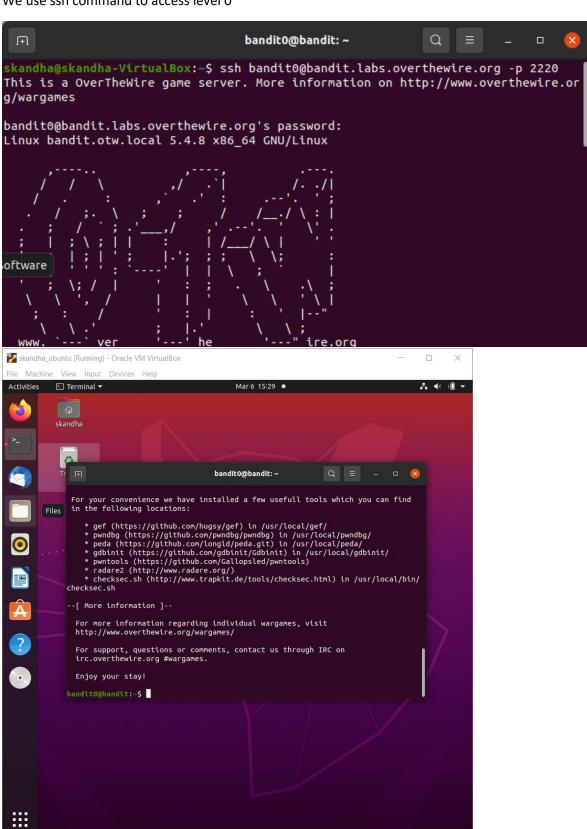
### **Accessing Level 0**

We use ssh command to access level 0



2 O W P Right Ctrl

### Level 0 to Level 1

We use cat command to open the readme file

```
bandit0@bandit: ~
--[ More information ]--
  For more information regarding individual wargames, visit
  http://www.overthewire.org/wargames/
  For support, questions or comments, contact us through IRC on
  irc.overthewire.org #wargames.
  Enjoy your stay!
bandit0@bandit:~S ls
readme
bandit0@bandit:~$ cd readme
-bash: cd: readme: Not a directory
bandit0@bandit:~$ gedit readme
-bash: gedit: command not found
bandit0@bandit:~$ ls -a
       .bash_logout .bashrc .profile readme
bandit0@bandit:~$ cat readme
boJ9jbbUNNfktd7800psq0ltutMc3MY1
```

The password for the next level is boJ9jbbUNNfktd78OOpsqOltutMc3MY1

## Level 1 to Level 2

We again use cat command but since the filename has a dash at the beginning, we use cat <-

```
bandit1@bandit: ~
 F1
                                                            Q
                                                                           * peda (https://github.com/longld/peda.git) in /usr/local/peda/
   * gdbinit (https://github.com/gdbinit/Gdbinit) in /usr/local/gdbinit/
   * pwntools (https://github.com/Gallopsled/pwntools)
   * radare2 (http://www.radare.org/)
   * checksec.sh (http://www.trapkit.de/tools/checksec.html) in /usr/local/bin/
checksec.sh
 -[ More information ]--
 For more information regarding individual wargames, visit
 http://www.overthewire.org/wargames/
 For support, questions or comments, contact us through IRC on
 irc.overthewire.org #wargames.
 Enjoy your stay!
bandit1@bandit:~$ ls
oandit1@bandit:~$ ./-
-bash: ./-: Permission denied
bandit1@bandit:~$ cat <
CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9
handi +1@handi + •-- C
```

The password for the next level is <a href="CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9">CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9</a>

#### Level 2 to Level 3

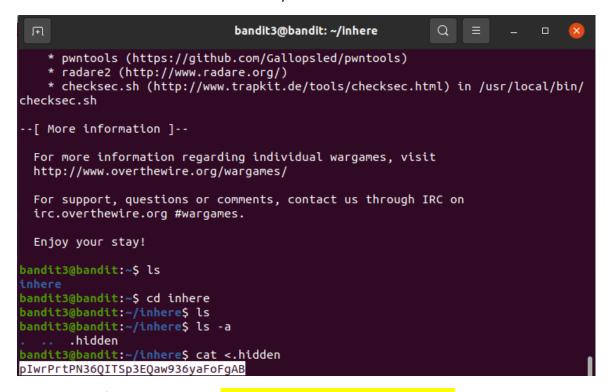
We again use cat command but we use single quotes to open the file since it has spaces in its name

```
bandit2@bandit: ~
                                                                        Q
     * gef (https://github.com/hugsy/gef) in /usr/local/gef/
     * pwndbg (https://github.com/pwndbg/pwndbg) in /usr/local/pwndbg/
* peda (https://github.com/longld/peda.git) in /usr/local/peda/
* gdbinit (https://github.com/gdbinit/Gdbinit) in /usr/local/gdbinit/
     * pwntools (https://github.com/Gallopsled/pwntools)
     * radare2 (http://www.radare.org/)
     * checksec.sh (http://www.trapkit.de/tools/checksec.html) in /usr/local/bin/
checksec.sh
 --[ More information ]--
  For more information regarding individual wargames, visit
  http://www.overthewire.org/wargames/
  For support, questions or comments, contact us through IRC on
  irc.overthewire.org #wargames.
  Enjoy your stay!
bandit2@bandit:~$ ls
spaces in this filename
bandit2@bandit:~$ cat 'spaces in this filename'
UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK
```

The password for the next level is <a href="UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK">UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK</a>

### Level 3 to Level 4

We use Is -a to find hidden files of a directory after that we use the cat command to find the file.



The password for the next level is <a href="mailto:plwrPrtPN36QITSp3EQaw936yaFoFgAB">plwrPrtPN36QITSp3EQaw936yaFoFgAB</a>

### Level 4 to Level 5

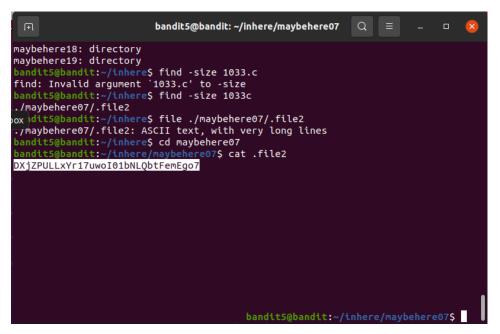
We can open each file one by one to find the password or use the find command to find the file with ASCII text and then open the required file.

```
JŦ1
                                bandit4@bandit: ~/inhere
                                                              Q
file: Cannot open `ile00' (No such file or directory).
bandit4@bandit:~/inhere$ cat <-file01
00p,k0;00r*00
                                 *dx,*bandit4@bandit:~/inhere$ cat <-file02</pre>
                0.!00C00J
ee)e#ee5ee
          ♦♦p♦♦V♦_♦♦♦₽₽₩mmbandit4@bandit:~/inhere$ cat <-file03
««««»»»h!ΤQO«`«4"a۲«/phΤ«»,«Abandit4@bandit:~/inhere$ cat <-file04
?*bandit4@bandit:~/inhere$ cat <-file05</pre>
orol$o?ho9('ooo!yoeo#oxoOoo=oobandit4@bandit:~/inhere$ cat <-file06</pre>
lyooo~ooAofoooo-Eo{ooomooooogMbandit4@bandit:~/inhere$ cat <-file07
koReBOKuIDDepwhWk7jZC0RTdopnAYKh
bandit4@bandit:~/inhere$ file -- *
-file00: data
-file01: data
-file02: data
-file03: data
-file04: data
-file05: data
-file06: data
-file07: ASCII text
-file08: data
-file09: data
bandit4@bandit:~/inhere$ cat<-file07</pre>
koReBOKuIDDepwhWk7jZC0RTdopnAYKh
bandit4@bandit:~/inhere$
```

The password for the next level is koReBOKuIDDepwhWk7jZC0RTdopnAYKh

## Level 5 to Level 6

Here if we use the find command with the size parameter, we can narrow down the needed file. After that we can use the cd and cat command consecutively to find the password



The password for the next level is <a href="DXjZPULLxYr17uwol01bNLQbtFemEgo7">DXjZPULLxYr17uwol01bNLQbtFemEgo7</a>

# **Level 6 to Level 7**

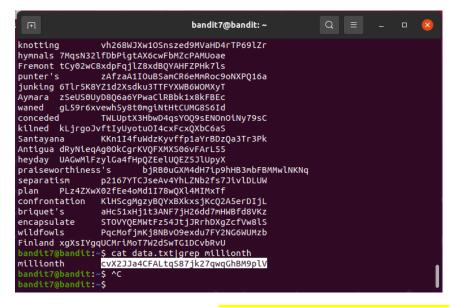
We use find command with user, size and group parameters and enter the needed parameters

In the list we can find the file ./var/lib/dpkg/info/bandit7.password and then use the cat command to find the password

```
F
                                   bandit6@bandit:/
                                                               Q
                                                                              './run/screen/S-bandit17': Permission denied
       ./run/screen/S-bandit2': Permission denied
      './run/screen/S-bandit22': Permission denied
find:
      './run/screen/S-bandit21': Permission denied
find:
      './run/screen/S-bandit14': Permission denied
find:
      './run/screen/S-bandit13': Permission denied
find:
      './run/screen/S-bandit24': Permission denied
find:
      './run/screen/S-bandit23': Permission denied
find:
      './run/shm': Permission denied
find:
      './run/lock/lvm': Permission denied
find:
      './var/spool/bandit24': Permission denied
find:
find:
      './var/spool/cron/crontabs': Permission denied
find:
       './var/spool/rsyslog': Permission denied
       './var/tmp': Permission denied
find:
      './var/lib/apt/lists/partial': Permission denied
'./var/lib/polkit-1': Permission denied
find:
find:
./var/lib/dpkg/info/bandit7.password
find: './var/log': Permission denied
find: './var/cache/apt/archives/partial': Permission denied
find: './var/cache/ldconfig': Permission denied
bandit6@bandit:/$ ^C
bandit6@bandit:/$ cat <./var/lib/dpkg/info/bandit7.password</pre>
HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs
bandit6@bandit:/$
```

## Level 7 to Level 8

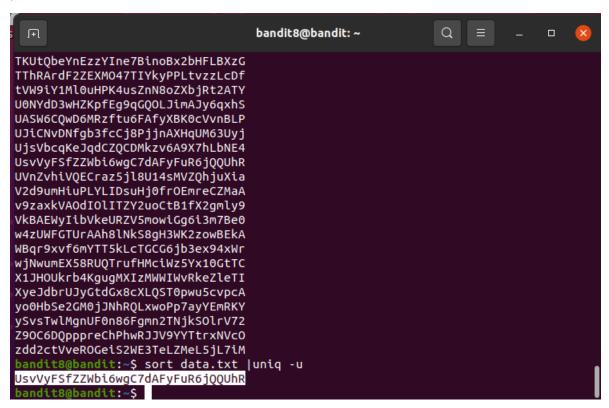
Here we use the grep command and find the line in the file with the password as given in the question



The password for the next level is <a href="mailto:cvX2JJa4CFALtqS87jk27qwqGhBM9plV">cvX2JJa4CFALtqS87jk27qwqGhBM9plV</a>

### Level 8 to Level 9

Here in this level, we pipe the sort and uniq with -u parameter to get the only line which is the password for the next level



The password for the next level is <a href="UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhR">UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhR</a>

## Level 9 to Level 10

Here we use strings command for the readable text and grep with = and pipe them together

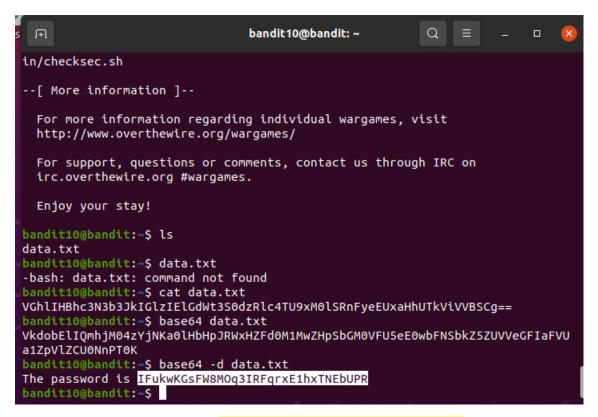
We can then find the password for next Level

```
bandit9@bandit:~$ strings data.txt |grep =
======= the*2i"4
=:G e
====== password
<I=zsGi
Z)======= is
A=|t&E
Zdb=
c^ LAh=3G
*SF=s
&======= truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk
S=A.H&^</pre>
```

The password for the next level is <a href="mailto:truKLdjsbJ5g7yyJ2X2R003a5HQJFuLk">truKLdjsbJ5g7yyJ2X2R003a5HQJFuLk</a>

### Level 10 to Level 11

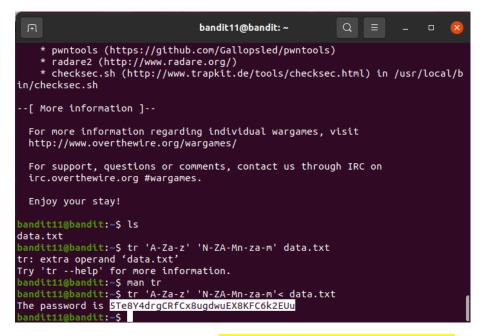
Here we use the base64 with -d to decrypt the encoded data and find the password for the next Level



The password for the next level is <a href="IFukwKGsFW8MOg3IRFgrxE1hxTNEbUPR">IFukwKGsFW8MOg3IRFgrxE1hxTNEbUPR</a>

### Level 11 to Level 12

We use the tr command and use the encoding pattern of ROT13 and then translate the file to find the next password



The password for the next level is <a href="5">5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu</a>

#### Level 12 to Level 13

In this Level we use the temporary directory and create a directory there and then copy the data.txt file to this the directory we have created and then use xxd -r on the data.txt file and direct it to file (here named test). Here the test file will be of gz (using file command).So rename it with .gz extension.

After this use gzip -d to decompress the file.

Since there are many consecutive steps, I have mentioned the types of files and how to decompress it.

- Bzip2: We use bzip2 -d to decompress the file
- Tar: We use tar -xf to decompress the file

Note: Some of the file names will be not right and the type may not be right, so by using the file command we can find the right name and type of the file and then decompress the correct way.

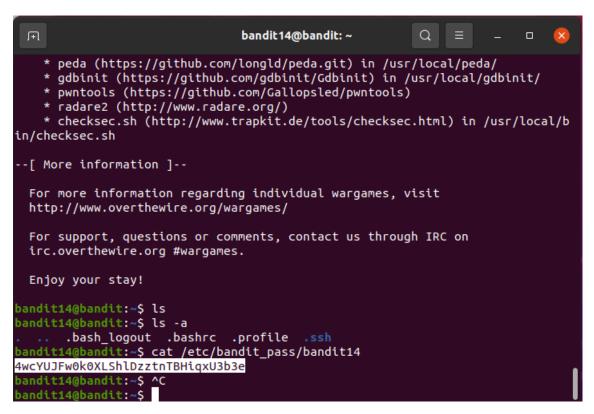
Finally, we get an ASCII text file where the password can be retrieved.

```
JŦ1
                         bandit12@bandit: /tmp/elnmsk123
                                                        Q
data5.bin data6.bin.out data8.bin data.txt test
bandit12@bandit:/tmp/elnmsk123$ file data6.bin.out
data6.bin.out: POSIX tar archive (GNU)
bandit12@bandit:/tmp/elnmsk123$ tar -xf data6.bin.out
bandit12@bandit:/tmp/elnmsk123$ ls
data5.bin data6.bin.out data8.bin data.txt test
bandit12@bandit:/tmp/elnmsk123$ file data8.bin
data8.bin: gzip compressed data, was "data9.bin", last modified: Thu May 7 1
8:14:30 2020, max compression, from Unix
bandit12@bandit:/tmp/elnmsk123$ gzip -d data9.bin
gzip: data9.bin.gz: No such file or directory
bandit12@bandit:/tmp/elnmsk123$ gzip -d data9.bin.gz
gzip: data9.bin.gz: No such file or directory
bandit12@bandit:/tmp/elnmsk123$ mv data8.bin data8.gz
bandit12@bandit:/tmp/elnmsk123$ ls
data5.bin data6.bin.out
                                    data.txt test
bandit12@bandit:/tmp/elnmsk123$ gzip -d data8.gz
bandit12@bandit:/tmp/elnmsk123$ ls
data5.bin data6.bin.out data8 data.txt test
bandit12@bandit:/tmp/elnmsk123$ file data8
data8: ASCII text
bandit12@bandit:/tmp/elnmsk123$ cat data8
The password is 8ZjyCRiBWFYkneahHwxCv3wb2a10RpYL
bandit12@bandit:/tmp/elnmsk123S
```

The password for the next level is 8ZjyCRiBWFYkneahHwxCv3wb2a1ORpYL

#### Level 13 to Level 14

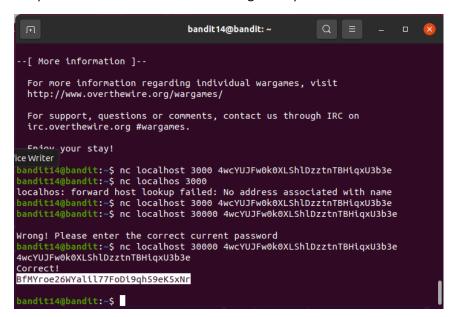
We use ssh -i ./sshkey.private bandit14@localhost to access the Level 14 via a private key present in Level 13. After that we open the file path given in the question to find the actual password of this Level.



The password for the next level is <a href="mailto:4wcYUJFw0k0XLShlDzztnTBHigxU3b3e">4wcYUJFw0k0XLShlDzztnTBHigxU3b3e</a>

#### Level 14 to Level 15

Now here we use the netcat command via localhost to the given port in the question and the enter the password of this level and then we get the password for Level 15



The password for the next level is BfMYroe26WYalil77FoDi9gh59eK5xNr.

### **Accessed Level 15**

