

>lv-1

```
bandit0@bandit:~$ ls
readme
bandit0@bandit:~$ cat readme
boJ9jbbUNNfktd780OpsqOltutMc3MY1
```

Pass: boJ9jbbUNNfktd780OpsqOltutMc3MY1

>lv-2

```
bandit1@bandit:~$ ls
-
bandit1@bandit:~$ cat ←
CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9
bandit1@bandit:~$
```

Pass: CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9

>lv-3

```
bandit2@bandit:~$ ls
spaces in this filename
bandit2@bandit:~$ cat "spaces in the filename"
cat: 'spaces in the filename': No such file or directory
bandit2@bandit:~$ cat "spaces in this filename"
UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK
```

Pass: UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK

>lv-4

```
bandit3@bandit:~$ ls
inhere
bandit3@bandit:~$ cd inhere
bandit3@bandit:~/inhere$ ls
bandit3@bandit:~/inhere$ ls -a
.  ..  .hidden
bandit3@bandit:~/inhere$ cat .hidden
pIwrPrtPN36QITSp3EQaw936yaFoFgAB
bandit3@bandit:~/inhere$
```

Pass: plwrPrtPN36QITSp3EQaw936yaFoFgAB

$$>lv-5$$

```
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$ cat -file01
cat: invalid option -- 'f'
Try 'cat --help' for more information.
bandit4@bandit:~/inhere$ cat <-file00
p,ko;er* .!CJ
e)#5
pV h!TQ0`4"aP7phL
bandit4@bandit:~/inhere$ cat <-file01
p,ko;er* .!CJ
bandit4@bandit:~/inhere$ cat <-file02
e)#5
pV h!TQ0`4"aP7phL
bandit4@bandit:~/inhere$ cat <-file03
p,ko;er* .!CJ
bandit4@bandit:~/inhere$ cat <-file04
h!TQ0`4"aP7phL
bandit4@bandit:~/inhere$ cat <-file05
rL$?h9('!yve#0x
bandit4@bandit:~/inhere$ cat <-file06
ly~A~f~E~{
bandit4@bandit:~/inhere$ cat <-file07
koReBOKuIDDepwhWk7jZCORTdopnAYKh
bandit4@bandit:~/inhere$
```

Pass: koReBOKuIDDepwhWk7jZC0RTdopnAYKh

$$>|v-6$$

```
bandit5@bandit:~$ cd inhere
bandit5@bandit:~/inhere$ find . -size 1033c ! -executable
./maybeh ere07/.file2
bandit5@bandit:~/inhere$ cd maybe here07
bandit5@bandit:~/inhere/maybeh ere07$ ls
-file1 -file2 -file3 spaces file1 spaces file2 spaces file3
bandit5@bandit:~/inhere/maybeh ere07$ ls -al
total 56
drwxr-x--- 2 root bandit5 4096 May 7 2020 .
drwxr-x--- 22 root bandit5 4096 May 7 2020 ..
-rwxr-x--- 1 root bandit5 3663 May 7 2020 -file1
-rwxr-x--- 1 root bandit5 3065 May 7 2020 .file1
-rw-r----- 1 root bandit5 2488 May 7 2020 -file2
-rw-r----- 1 root bandit5 1033 May 7 2020 .file2
-rwxr-x--- 1 root bandit5 3362 May 7 2020 -file3
-rwxr-x--- 1 root bandit5 1997 May 7 2020 .file3
-rwxr-x--- 1 root bandit5 4130 May 7 2020 spaces file1
-rw-r----- 1 root bandit5 9064 May 7 2020 spaces file2
-rwxr-x--- 1 root bandit5 1022 May 7 2020 spaces file3
bandit5@bandit:~/inhere/maybeh ere07$ cat .file2
DXjZPULLxYr17uwoI01bNL0btFemEgo7
```

>lv-7

```
bandit6@bandit:~$  
bandit6@bandit:~$ ls  
bandit6@bandit:~$ ls -a  
..  . .bash_logout .bashrc .profile  
bandit6@bandit:~$ find . -size33c -user bandit7 -group bandit6  
find: unknown predicate `-size33c'  
Try 'find --help' for more information.  
bandit6@bandit:~$ find . -size 33c -user bandit7 -group bandit6  
bandit6@bandit:~$ find . -size 33c -user bandit7 -group bandit6 2>/dev/null  
bandit6@bandit:~$ find / -size 33c -user bandit7 -group bandit6 2>/dev/null  
/var/lib/dpkg/info/bandit7.password  
bandit6@bandit:~$ cd /var/lib/dpkg/info/b  
-bash: cd: /var/lib/dpkg/info/b: No such file or directory  
bandit6@bandit:~$ cat /var/lib/dpkg/info/bandit7.password  
HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs
```

Pass: HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs

>lv-8

```
bandit7@bandit:~$ ls -la  
total 4108  
drwxr-xr-x  2 root    root      4096 May  7  2020 .  
drwxr-xr-x 41 root    root      4096 May  7  2020 ..  
-rw-r--r--  1 root    root       220 May 15  2017 .bash_logout  
-rw-r--r--  1 root    root     3526 May 15  2017 .bashrc  
-rw-r----- 1 bandit8 bandit7 4184396 May  7  2020 data.txt  
-rw-r--r--  1 root    root       675 May 15  2017 .profile  
bandit7@bandit:~$ grep millionth data.txt  
millionth      cvX2JJJa4CFALtqS87jk27qwqGhBM9pIV
```

Pass: cvX2JJJa4CFALtqS87jk27qwqGhBM9pIV

>lv-9

```
bandit8@bandit:~$ ls  
data.txt  
bandit8@bandit:~$ sort data.txt | uniq -u  
UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhr  
bandit8@bandit:~$
```

Pass: UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhr

>lv-10

```
bandit9@bandit:~$ ls
data.txt
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&^
```

Pass: truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk

>lv-11

```
bandit10@bandit:~$ ls
data.txt
bandit10@bandit:~$ man base64
bandit10@bandit:~$ cat data.txt | base64
VkdobElIQmhjM04zYjNka0lHbHpJRWxHZFd0M1MwZHpSbGM0VFU5eE0wbFNSbkZ5ZUVVeGFiaFVU
a1ZpVlZCU0NnPT0K
bandit10@bandit:~$ base64 -d data.txt
The password is IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR
```

Pass: 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu

>lv-12

```
bandit12@bandit:~$ mkdir /tmp/koushik
bandit12@bandit:~$ cp data.txt /tmp/koushik
bandit12@bandit:~$ cd /tmp/koushik
bandit12@bandit:/tmp/koushik$ ls -a
.  ..  data.txt
bandit12@bandit:/tmp/koushik$ file data.txt
data.txt: ASCII text
bandit12@bandit:/tmp/koushik$ cat data.txt
00000000: 1f8b 0808 0650 b45e 0203 6461 7461 322e  ....P.^..data2.
00000010: 6269 6e00 013d 02c2 fd42 5a68 3931 4159  bin..= ...BZh91AY
00000020: 2653 598e 4f1c c800 001e 7fff fbf9 7fda  &SY.O.....
00000030: 9e7f 4f76 9fcf fe7d 3fff f67d abde 5e9f  ..Ov ... }? .. ^.
00000040: f3fe 9fbf f6f1 feee bfdf a3ff b001 3b1b  .........;
00000050: 5481 a1a0 1ea0 1a34 d0d0 001a 68d3 4683  T... ..4....h.F.
00000060: 4680 0680 0034 1918 4c4d 190c 4000 0001  F....4..LM..@...
00000070: a000 c87a 81a3 464d a8d3 43c5 1068 0346  ...z..FM..C..h.F
00000080: 8343 40d0 3400 0340 66a6 8068 0cd4 f500  .C@.4..@f..h....
00000090: 69ea 6800 0f50 68f2 4d00 680d 06ca 0190  i.h..Ph.M.h.....
000000a0: 0000 69a1 a1a0 1ea0 194d 340d 1ea1 b280  ..i.....M4.....
000000b0: f500 3406 2340 034d 3400 0000 3403 d400  ..4.#@.M4 ...4...
000000c0: 1a07 a832 3400 f51a 0003 43d4 0068 0d34  ...24.....C..h.4
000000d0: 6868 f51a 3d43 2580 3e58 061a 2c89 6bf3  hh..=C%.>X..,k.
000000e0: 0163 08ab dc31 91cd 1747 599b e401 0b06  .c ...1...GY.....
000000f0: a8b1 7255 a3b2 9cf9 75cc f106 941b 347a  ..rU....u.....4z
00000100: d616 55cc 2ef2 9d46 e7d1 3050 b5fb 76eb  ..U....F..0P..v.
00000110: 01f8 60c1 2201 33f0 0de0 4aa6 ec8c 914f  ..`. ".3 ...J....0
00000120: cf8a aed5 7b52 4270 8d51 6978 c159 8b5a  ....{RBp.Qix.Y.Z
00000130: 2164 fb1f c26a 8d28 b414 e690 bfdd b3e1  !d ...j.(.....
00000140: f414 2f9e d041 c523 b641 ac08 0c0b 06f5  .. / ..A.#.A.....
00000150: dd64 b862 1158 3f9e 897a 8cae 32b0 1fb7  .d.b.X? ..z..2...
00000160: 3c82 af41 20fd 6e7d 0a35 2833 41bd de0c  <..A .n}.5(3A...
00000170: 774f ae52 a1ac 0fb2 8c36 ef58 537b f30a  wO.R.....6.XS{..
00000180: 1510 cab5 cb51 4231 95a4 d045 b95c ea09  ....QB1 ...E.\..
00000190: 9fa0 4d33 ba43 22c9 b5be d0ea eeb7 ec85  ..M3.C".....
000001a0: 59fc 8bf1 97a0 87a5 0df0 7acd d555 fc11  Y.....z..U..
000001b0: 223f fdc6 2be3 e809 c974 271a 920e acbc  "? ..+....t'.....
000001c0: 0de1 f1a6 393f 4cf5 50eb 7942 86c3 3d7a  ....9?L.P.yB..=z
000001d0: fe6d 173f a84c bb4e 742a fc37 7b71 508a  .m.? .L.Nt*.7{qP.
000001e0: a2cc 9cf1 2522 8a77 39f2 716d 34f9 8620  ....%" .w9.qm4..
000001f0: 4e33 ca36 eec0 cd4b b3e8 48e4 8b91 5bea  N3.6 ...K..H...[.
00000200: 01bf 7d21 0b64 82c0 3341 3424 e98b 4d7e  .. }!.d..3A4$..M~
00000210: c95c 1b1f cac9 a04a 1988 43b2 6b55 c6a6  .\.....J..C.kU..
00000220: 075c 1eb4 8ecf 5cdf 4653 064e 84da 263d  .\....\..FS.N..&=
00000230: b15b bcea 7109 5c29 c524 3afc d715 4894  .[ ..q.\).$. ...H.
```



```

00000230: b15b bcea 7109 5c29 c524 3afc d715 4894  .[..q.\).$.: ...H.
00000240: 7426 072f fc28 ab05 9603 b3fc 5dc9 14e1  t&./.(.....]...
00000250: 4242 393c 7320 98f7 681d 3d02 0000  BB9<s ..h*= ...
bandit12@bandit:/tmp/koushik$ xxd -r data.txt koushik
bandit12@bandit:/tmp/koushik$ file koushik
koushik: gzip compressed data, was "data2.bin", last modified: Thu May  7 18:14:30 2020, max compression, from Unix
bandit12@bandit:/tmp/koushik$ mv koushik koushik.gz
bandit12@bandit:/tmp/koushik$ file koushik
koushik: cannot open 'koushik' (No such file or directory)
bandit12@bandit:/tmp/koushik$ gzip -d koushik.gz
bandit12@bandit:/tmp/koushik$ file koushik
koushik: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/koushik$ mv koushik koushik.bz2
bandit12@bandit:/tmp/koushik$ bzip2 -d koushik.bz2
bandit12@bandit:/tmp/koushik$ mv koushik koushik.gz
bandit12@bandit:/tmp/koushik$ gzip -d koushik.gz
bandit12@bandit:/tmp/koushik$ ls -a
.  ..  data.txt  koushik
bandit12@bandit:/tmp/koushik$ file koushik
koushik: POSIX tar archive (GNU)
bandit12@bandit:/tmp/koushik$ mv koushik koushik.tar
bandit12@bandit:/tmp/koushik$ tar -x -f koushik.tar
bandit12@bandit:/tmp/koushik$ ls -a
.  ..  data5.bin  data.txt  koushik.tar
bandit12@bandit:/tmp/koushik$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/koushik$ mv data5.bin data5.tar
bandit12@bandit:/tmp/koushik$ tar -x -f data5.tar
bandit12@bandit:/tmp/koushik$ ls -a
.  ..  data5.tar  data6.bin  data.txt  koushik.tar
bandit12@bandit:/tmp/koushik$ mv data6.bin data6.tar
bandit12@bandit:/tmp/koushik$ tar -x -f data6.tar
bandit12@bandit:/tmp/koushik$ ls -a
.  ..  data5.tar  data6.tar  data8.bin  data.txt  koushik.tar
bandit12@bandit:/tmp/koushik$ file data8.bin
data8.bin: gzip compressed data, was "data9.bin", last modified: Thu May  7 18:14:30 2020, max compression, from Unix
bandit12@bandit:/tmp/koushik$ mv data8.bin data8.gz
bandit12@bandit:/tmp/koushik$ gzip -d data8.gz
bandit12@bandit:/tmp/koushik$ file data8
data8: ASCII text
bandit12@bandit:/tmp/koushik$ cat data8
The password is 8ZjyCRiBWFYkneahHwxCv3wb2a1ORpYL

```

Pass: 8ZjyCRiBWFYkneahHwxCv3wb2a1ORpYL

>lv-13

```
bandit13@bandit:~$ ls -a
.  ..  .bash_logout .bashrc .profile sshkey.private
bandit13@bandit:~$ ssh -l sshkey.private bandit14@localhost
Could not create directory '/home/bandit13/.ssh'.
The authenticity of host 'localhost (127.0.0.1)' can't be established.
ECDSA key fingerprint is SHA256:98UL0ZWr85496EtCRkKlo20X30PnyPSB5tB5RPbhczc.
Are you sure you want to continue connecting (yes/no)? yes
Failed to add the host to the list of known hosts (/home/bandit13/.ssh/known_hosts).
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames

bandit14@localhost's password:
Permission denied, please try again.
bandit14@localhost's password:
Permission denied, please try again.
bandit14@localhost's password:

bandit13@bandit:~$ ssh -i sshkey.private bandit14@localhost
Could not create directory '/home/bandit13/.ssh'.
The authenticity of host 'localhost (127.0.0.1)' can't be established.
ECDSA key fingerprint is SHA256:98UL0ZWr85496EtCRkKlo20X30PnyPSB5tB5RPbhczc.
Are you sure you want to continue connecting (yes/no)? yes
Failed to add the host to the list of known hosts (/home/bandit13/.ssh/known_hosts).
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames

Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```

```
bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4wcYUJFw0k0XLShlDzztnTBHixU3b3e
bandit14@bandit:~$ exit
logout
Connection to localhost closed.
bandit13@bandit:~$
```

Pass: 4wcYUJFw0k0XLShlDzztnTBHixU3b3e

>lv-14

```
bandit14@bandit:~$ telnet localhost 30000
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
4wcYUJFw0k0XLShlDzztnTBHixU3b3e
Correct!
BfMYroe26WYalil77FoDi9qh59eK5xNr
Connection closed by foreign host.
```

Pass: BfMYroe26WYalil77FoDi9qh59eK5xNr

>lv-15

```
(koushik@kali)-[~]
$ ssh bandit15@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames

bandit15@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux

Level 15 → Level 16

The next level can be retrieved by submitting the password of the current
level to the next user on the SSH server. It is possible to connect to the
server on localhost using SSL encryption.

Welcome to OverTheWire!
“HEARTBEATING” and “Read B BLOCK”? Use -lgn, eof and read
```