

Level 0 Password: bandit0

bandit1@bandit: ~

File Actions Edit View Help

(harshitan@harshita)-[~]

```
$ ssh bandit0@bandit.labs.overthewire.org -p 2220
```

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

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

The terminal shows a standard OverTheWire banner and a password prompt. The password is obscured by a grid of characters.

Level 0 > Level 1 Password: NH2SXQwcBdpmTEzi3bvBHMM9H66vVXjL

bandit1@bandit: ~

File Actions Edit View Help

Both python2 and python3 are installed.

-- [ 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:~$ ls
readme
bandit0@bandit:~$ cat readme
NH2SXQwcBdpmTEzi3bvBHMM9H66vVXjL
bandit0@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
```

(harshitan@harshita)-[~]

```
$ ssh bandit1@bandit.labs.overthewire.org -p 2220
```

"the quieter you become, the more you are able to hear"

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

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

The terminal shows a banner with the quote "the quieter you become, the more you are able to hear", followed by the OverTheWire game server banner and a password prompt. The password is obscured by a grid of characters.

Level 1 > Level 2 Password: rRGizSaX8Mk1RTb1CNQoXTcYZWU6lgzi

```
harshitan@harshita:~
```

File Actions Edit View Help

Both python2 and python3 are installed.

--[ 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 < rRGizSaX8Mk1RTb1CNQoXTcYZWU6lgzi
```

```
bandit1@bandit:~$ exit
```

logout

Connection to bandit.labs.overthewire.org closed.

```
(harshitan@harshita)-[~]
```

```
$ ssh bandit2@bandit.labs.overthewire.org -p 2220
```

[ ASCII Art: A 4x4 grid of symbols representing a map or path. ]

"the quieter you become, the more you are heard"

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

bandit2@bandit.labs.overthewire.org's password:

[ ASCII Art: A 4x4 grid of symbols representing a map or path. ]

Level 2 > Level 3 Password: aBZ0W5EmUfAf7kHTQeOwd8bauFJ2lAiG

```
bandit3@bandit:~
```

File Actions Edit View Help

Both python2 and python3 are installed.

--[ 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 "spaces in this filename"
```

```
aBZ0W5EmUfAf7kHTQeOwd8bauFJ2lAiG
```

```
bandit2@bandit:~$ exit
```

logout

Connection to bandit.labs.overthewire.org closed.

```
(harshitan@harshita)-[~]
```

```
$ ssh bandit3@bandit.labs.overthewire.org -p 2220
```

[ ASCII Art: A 4x4 grid of symbols representing a map or path. ]

"the quieter you become, the more you are heard"

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

bandit3@bandit.labs.overthewire.org's password:

[ ASCII Art: A 4x4 grid of symbols representing a map or path. ]

## Level 3 > Level 4 Password: 2EW7BBSr6aMMoJ2HjW067dm8EgX26xNe

```
[bandit3@bandit:~]$ ls
inhere
[bandit3@bandit:~]$ cat inhere
cat: inhere: Is a directory
[bandit3@bandit:~]$ cd inhere/
[bandit3@bandit:~/inhere]$ ls -a
. .. .hidden
[bandit3@bandit:~/inhere]$ cat .hidden
2EW7BBSr6aMMoJ2HjW067dm8EgX26xNe
[bandit3@bandit:~/inhere]$ exit
logout
Connection to bandit.labs.overthewire.org closed.

[harshtan@harshtita:~]$ ssh bandit4@bandit.labs.overthewire.org -p 2220
[bandit4@bandit:~]$ ls
[bandit4@bandit:~]$ you become, the more
[bandit4@bandit:~]$ This is an OverTheWire game server.
[bandit4@bandit:~]$ More information on http://www.overthewire.org/wargames

bandit4@bandit.labs.overthewire.org's password:
```

## Level 4 > Level 5 Password: lrIWWI6bB37kxfiCQZqUdOIJfr6eEqR

```
[bandit4@bandit:~]$ ls
inhere
[bandit4@bandit:~]$ cd inhere/
[bandit4@bandit:~/inhere]$ ls -la
total 48
drwxr-xr-x 2 root root 4096 Apr 23 18:04 .
drwxr-xr-x 3 root root 4096 Apr 23 18:04 ..
-rw-r-- 1 bandit5 bandit4 33 Apr 23 18:04 -file00
-rw-r-- 1 bandit5 bandit4 33 Apr 23 18:04 -file01
-rw-r-- 1 bandit5 bandit4 33 Apr 23 18:04 -file02
-rw-r-- 1 bandit5 bandit4 33 Apr 23 18:04 -file03
-rw-r-- 1 bandit5 bandit4 33 Apr 23 18:04 -file04
-rw-r-- 1 bandit5 bandit4 33 Apr 23 18:04 -file05
-rw-r-- 1 bandit5 bandit4 33 Apr 23 18:04 -file06
-rw-r-- 1 bandit5 bandit4 33 Apr 23 18:04 -file07
-rw-r-- 1 bandit5 bandit4 33 Apr 23 18:04 -file08
-rw-r-- 1 bandit5 bandit4 33 Apr 23 18:04 -file09
[bandit4@bandit:~/inhere]$ file ./
./file00: data
./file01: data
./file02: data
./file03: data
./file04: data
./file05: data
./file06: data
./file07: ASCII text
./file08: data
./file09: Non-ISO extended-ASCII text, with no line terminators
[bandit4@bandit:~/inhere]$ cat ./file07
lrIWWI6bB37kxfiCQZqUdOIJfr6eEqR
[bandit4@bandit:~/inhere]$ exit
logout
Connection to bandit.labs.overthewire.org closed.

[harshtan@harshtita:~]$ ssh bandit5@bandit.labs.overthewire.org -p 2220
[bandit5@bandit:~]$ ls
[bandit5@bandit:~]$ you become, the more
[bandit5@bandit:~]$ This is an OverTheWire game server.
[bandit5@bandit:~]$ More information on http://www.overthewire.org/wargames

bandit5@bandit.labs.overthewire.org's password:
```

## Level 5 > Level 6 Password: P4L4vucdmLnm8I7Vl7jG1ApGSfjYKqJU

```
harshitan@harshita: ~
File Actions Edit View Help

bandit5@bandit:~$ ls
inhere
bandit5@bandit:~$ cd inhere/
bandit5@bandit:~/inhere$ ls -la
total 88
drwxr-x-- 22 root bandit5 4096 Apr 23 18:04 .
drwxr-xr-x  3 root root 4096 Apr 23 18:04 ..
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 maybehere00
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 maybehere01
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 maybehere02
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 maybehere03
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 maybehere04
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 maybehere05
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 maybehere06
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 maybehere07
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 maybehere08
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 maybehere09
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 maybehere10
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 maybehere11
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 maybehere12
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 maybehere13
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 maybehere14
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 maybehere15
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 maybehere16
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 maybehere17
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 maybehere18
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 maybehere19
bandit5@bandit:~/inhere$ ls -la maybehere00
total 72
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 .
drwxr-x-- 22 root bandit5 4096 Apr 23 18:04 ..
-rwxr-x--  1 root bandit5 1039 Apr 23 18:04 -file1
-rwxr-x--  1 root bandit5 551 Apr 23 18:04 .file1
-rw-r----- 1 root bandit5 9388 Apr 23 18:04 -file2
-rw-r----- 1 root bandit5 7836 Apr 23 18:04 .file2
-rwxr-x--  1 root bandit5 7378 Apr 23 18:04 -file3
-rwxr-x--  1 root bandit5 4802 Apr 23 18:04 .file3
-rwxr-x--  1 root bandit5 6118 Apr 23 18:04 spaces file1
-rw-r----- 1 root bandit5 6850 Apr 23 18:04 spaces file2
-rwxr-x--  1 root bandit5 1915 Apr 23 18:04 spaces file3
```

```
harshitan@harshita: ~
File Actions Edit View Help

bandit5@bandit:~$ ls
inhere
bandit5@bandit:~$ cd inhere/
bandit5@bandit:~/inhere$ ls -la
total 64
drwxr-x-- 22 root bandit5 4096 Apr 23 18:04 .
drwxr-x-- 22 root bandit5 4096 Apr 23 18:04 ..
-rwxr-x--  1 root bandit5 2346 Apr 23 18:04 -file1
-rwxr-x--  1 root bandit5 3201 Apr 23 18:04 -file1
-rw-r----- 1 root bandit5 5959 Apr 23 18:04 -file2
-rw-r----- 1 root bandit5 5917 Apr 23 18:04 -file2
-rwxr-x--  1 root bandit5 2572 Apr 23 18:04 -file3
-rwxr-x--  1 root bandit5 4585 Apr 23 18:04 -file3
-rwxr-x--  1 root bandit5 880 Apr 23 18:04 spaces file1
-rw-r----- 1 root bandit5 2420 Apr 23 18:04 spaces file2
-rwxr-x--  1 root bandit5 8585 Apr 23 18:04 spaces file3
bandit5@bandit:~/inhere$ ls -la maybehere06
total 64
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 .
drwxr-x-- 22 root bandit5 4096 Apr 23 18:04 ..
-rwxr-x--  1 root bandit5 5731 Apr 23 18:04 -file1
-rwxr-x--  1 root bandit5 1273 Apr 23 18:04 -file1
-rw-r----- 1 root bandit5 1018 Apr 23 18:04 -file2
-rwxr-x--  1 root bandit5 8076 Apr 23 18:04 -file2
-rwxr-x--  1 root bandit5 3643 Apr 23 18:04 -file3
-rwxr-x--  1 root bandit5 2618 Apr 23 18:04 -file3
-rwxr-x--  1 root bandit5 4073 Apr 23 18:04 spaces file1
-rw-r----- 1 root bandit5 4251 Apr 23 18:04 spaces file2
-rwxr-x--  1 root bandit5 8065 Apr 23 18:04 spaces file3
bandit5@bandit:~/inhere$ ls -la maybehere07
total 56
drwxr-x--  2 root bandit5 4096 Apr 23 18:04 .
drwxr-x-- 22 root bandit5 4096 Apr 23 18:04 ..
-rwxr-x--  1 root bandit5 3663 Apr 23 18:04 -file1
-rwxr-x--  1 root bandit5 3065 Apr 23 18:04 -file1
-rw-r----- 1 root bandit5 2488 Apr 23 18:04 -file2
-rw-r----- 1 root bandit5 1033 Apr 23 18:04 -file2
-rwxr-x--  1 root bandit5 3362 Apr 23 18:04 -file3
-rwxr-x--  1 root bandit5 1997 Apr 23 18:04 -file3
-rwxr-x--  1 root bandit5 4130 Apr 23 18:04 spaces file1
-rw-r----- 1 root bandit5 9064 Apr 23 18:04 spaces file2
-rwxr-x--  1 root bandit5 1022 Apr 23 18:04 spaces file3
bandit5@bandit:~/inhere$ cat ./maybehere07/file2
cat: ./maybehere07/file2: No such file or directory
bandit5@bandit:~/inhere$ cat ./maybehere07/file2
P4L4vucdmLnm8I7Vl7jG1ApGSfjYKqJU
```

```
bandit6@bandit: ~
File Actions Edit View Help

bandit6@bandit:~/inhere$ cat ./maybehere07/file2
cat: ./maybehere07/file2: No such file or directory
bandit6@bandit:~/inhere$ cat ./maybehere07/file2
P4L4vucdmLnm8I7Vl7jG1ApGSfjYKqJU

File System
Home
bandit6@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.

(harshitan@harshita) [~]
$ ssh bandit6@bandit.labs.overthewire.org -p 2220
This is an OverTheWire game server.
More information on http://www.overthewire.org/wargames
bandit6@bandit.labs.overthewire.org's password:
```



Level 6 > Level 7 Password: z7WtoNQU2XfjmMtWA8u5rN4vzqu4v99S

```
bandit6@bandit:~$ ls
ff02::1          ip6-localhost
ff02::2          ip6-localnet
bandit6@bandit:~$ ls -a
. .. .bash_logout .bashrc .profile
bandit6@bandit:~$ find / -user bandit7 -group bandit6 -size 33c
find: '/var/log': Permission denied
find: '/var/crash': Permission denied
find: '/var/spool/syslog': Permission denied
find: '/var/spool/bandit24': Permission denied
find: '/var/spool/cron/crontabs': Permission denied
find: '/var/tmp': Permission denied
find: '/var/lib/polkit-1': Permission denied
/var/lib/dpkg/info/bandit7.password
find: '/var/lib/chrony': Permission denied
find: '/var/lib/apt/lists/partial': Permission denied
find: '/var/lib/amazon': Permission denied
find: '/var/lib/update-notifier/package-data-downloads/partial': Permission denied
find: '/var/lib/snappy/void': Permission denied
find: '/var/lib/snappy/cookie': Permission denied
find: '/var/lib/ubuntu-advantage/apt-esm/var/lib/apt/lists/partial': Permission denied
find: '/var/lib/private': Permission denied
find: '/var/snap/lxd/common/lxd': Permission denied
find: '/var/cache/ldconfig': Permission denied
find: '/var/cache/apt/archives/partial': Permission denied
find: '/var/cache/pollinate': Permission denied
find: '/var/cache/private': Permission denied
find: '/var/cache/apparmor/aadd844e.0': Permission denied
find: '/var/cache/apparmor/8eeb6286.0': Permission denied
find: '/drifter/drifter14_src/axTLS': Permission denied
find: '/home/bandit29-git': Permission denied
find: '/home/drifter6/data': Permission denied
find: '/home/bandit28-git': Permission denied
find: '/home/drifter8/chroot': Permission denied
find: '/home/ubuntu': Permission denied
find: '/home/bandit5/inhere': Permission denied
find: '/home/bandit27-git': Permission denied
find: '/home/bandit30-git': Permission denied
find: '/home/bandit31-git': Permission denied
find: '/boot/efi': Permission denied
find: '/proc/tty/driver': Permission denied
```

```
bandit7@bandit:~$ ls
File Actions Edit View Help
find: '/run/user/11006/systemd/inaccessible/dir': Permission denied
find: '/run/user/11005': Permission denied
find: '/run/sudo': Permission denied
find: '/run/screen/S-bandit20': Permission denied
find: '/run/screen/S-bandit21': Permission denied
find: '/run/multipath': Permission denied
find: '/run/cryptsetup': Permission denied
find: '/run/lvm': Permission denied
find: '/run/credentials/systemd-sysusers.service': Permission denied
find: '/run/systemd/propagate': Permission denied
find: '/run/systemd/unit-root': Permission denied
find: '/run/systemd/inaccessible/dir': Permission denied
find: '/run/lock/lvm': Permission denied
find: '/root': Permission denied
find: '/sys/kernel/tracing': Permission denied
find: '/sys/kernel/debug': Permission denied
find: '/sys/fs/ptstore': Permission denied
find: '/sys/fs/bpf': Permission denied
bandit6@bandit:~$ cat var/lib/dpkg/info/bandit7.password
cat: var/lib/dpkg/info/bandit7.password: No such file or directory
bandit6@bandit:~$ cat /var/lib/dpkg/info/bandit7.password
z7WtoNQU2XfjmMtWA8u5rN4vzqu4v99S
bandit6@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.

(harshit@harshita) [~]
$ 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:
```

Level 7 > Level 8 Password: TESKZC0XvTetK0S9xNwm25STk5iWrBvP

Level 8 > Level 9 Password: EN632PlfYiZbn3PhVK3XOGSlNInNE00t

```
bandit8@bandit:~$ ls
data.txt
bandit8@bandit:~$ cat data.txt
QWi1bJhqUoMj0lCD9NxRkTM1M04eiPMV
UkkkkI1oUVJG6zdi1DfekBdrJptqSn7
ITQy9WLsn3q168qH29wYML0jgH9lNP
JddNHIO2SAqKPHrrCcl7yTzArusoNwrt
0dEXK1sDwYtc4vyjrpgu0ecWBsDa9
yvtL2C3xw7x0luSno1avxFUcsrSfg
QbKQeOyoQUlrmFovag1zwC3F2Gmu1
lpRbcU2vMhMRbAv65HnLyKau0jtzeh
JddNHIO2SAqKPHrrCcl7yTzArusoNwrt
EN632PlfyiZbn3PhVK3XOGSlNInNE00t
T1xMHNcJEvQyLxoZhdMdfpmxFr7orEU
08Jd2vmb6FjR4zXptegHhpJm8A000A5B
eRgm0TR1fqHwaNeu0xDIC7r2MzVeLMU
H06jdLvch1Uq9N3QIOjHgmt1G34Gu5WM
eRgm0TR1fqHwaNeu0xDIC7r2MzVeLMU
3CTUFe6MT1FDAL0249cRBVfq1MRlxJ
08Jd2vmb6FjR4zXptegHhpJm8A000A5B
XK6pbTxvHc0CS17Y5rtvKpWl4kdTTp
KzsSoDtds908qA3uRuXg7og60J293tDA
XhvIgr0IlONuojxs0iHtDDuuk66tyJB
I2F3M2fsgrEVi1t7gsF7BUEi195f1vA
w0bmQw05XwirIfvz7o7Nd7GzhkPeIFN
Flux7SEmtlaio0Bob1V7AbALW69gIBXZ
9rdQWtaWPaCws1YumcR7DzstJ1ldzC1Dk
yvtL2C3xw7x0luSno1avxFUcsrSfg
1jZv2X102jypCB1gDNrWWzS1CyhvByt
EoxGdakqWSJE03uzpJBLKab1yE65j458U
wiwZBuvDRBt3evJudec3g7K1osQ2Ez
eRgm0TR1fqHwaNeu0xDIC7r2MzVeLMU
4a0tpqjG1M0cyq1ndla7J8S3jz2Ay
Uy1DDzbLB8h0D4nY8PHz5PbtkoJG9bKpo
eRgm0TR1fqHwaNeu0xDIC7r2MzVeLMU
WYU7z3ZVSfnK3WEvU5t7HDAAHIrhyzNR
gByqao56n9wRfMcKuRoEB6JDzo0koeB
1MUDfR7rbGGpNfGEOXaiEdra8ht2L8Tb
vng8trbLzVxa2swE0yEND17vh978enVX
i4nyRlk5UsNce0xut0feTvK7L0mvQiqc
```

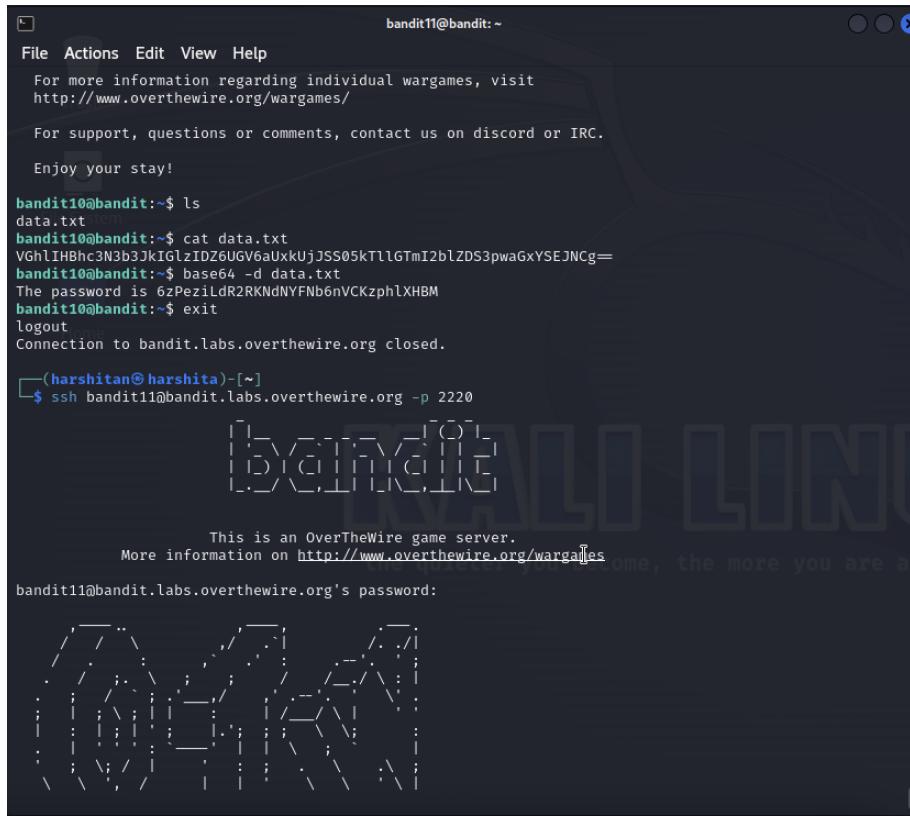
```
bandit9@bandit:~$ ls
data.txt
bandit9@bandit:~$ cat data.txt
yhJxWz01jfPzfs1RP6cGonphKTjFVBxg
FJHGxIq81bo0UfSaF91vozjntlpvHPW
JddNHIO2SAqKPHrrCcl7yTzArusoNwrt
KzsSoDtds908qA3uRuXg7og60J293tda
08Jd2vmb6FjR4zXptegHhpJm8A000A5B
o7U2dEUFScmdg7CglgZxohamKTBdTQ8
dMNFFw0t7tDLsN6jM4t15q7sdX1J1D0
uuax6627cdLAB1BkrIMsqPUTyQDxsDql
LWyPVHJfWrccic0nuzzZWGnk1Pq3mSo
a65MgsFpTKq8UGnddnirB60ohHccj0
txpo055vNR55wYu62j7uGLRKNrxdyM
cntlaZwCnfmS07dz52edwhfVxDsh80x
0ZP9wfUcMKjZM2hiQUYR1nfmaKdYSQE
8mUgsbsFDyMVhqsbCiU5QdkyNS684yK
p13SEH0Rq3gd0sNEi8038Sh55ATy1nrR
1MUDfR7rbGGpNfGEOXaiEdra8ht2L8Tb
S9dqkwuCTyH9TyUrDf08b0Vwyef9rvsh
bandit9@bandit:~$ sort data.txt | uniq -u
EN632PlfyiZbn3PhVK3XOGSlNInNE00t
bandit8@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.

(harshitan@harshita)-[~]
$ ssh bandit9@bandit.labs.overthewire.org -p 2220
[ ! ] [ - ] [ - ] [ - ] [ - ] [ - ] [ - ] [ - ] [ - ] [ - ]
[ | ] [ | ] [ | ] [ | ] [ | ] [ | ] [ | ] [ | ] [ | ]
[ / ] [ / ] [ / ] [ / ] [ / ] [ / ] [ / ] [ / ] [ / ] [ / ]
[ \ ] [ \ ] [ \ ] [ \ ] [ \ ] [ \ ] [ \ ] [ \ ] [ \ ] [ \ ]
[ : ] [ : ] [ : ] [ : ] [ : ] [ : ] [ : ] [ : ] [ : ] [ : ]
you become, the more you are ab

This is an OverTheWire game server.
More information on http://www.overthewire.org/wargames
bandit9@bandit.labs.overthewire.org's password:
```

Level 9 > Level 10 Password: G7w8Lli6J3kTb8A7j9LgrywtEULyyp6s

Level 10 > Level 11 Password: 6zPeziLdR2RKNdNYFNb6nVCKzphlXHBM



```
bandit11@bandit:~
File Actions Edit View Help
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!
bandit10@bandit:~$ ls
data.txt
bandit10@bandit:~$ cat data.txt
VGhIHbh3N3b3JkIGlzIDZ6UGV6aUxkJSS05kTl1GTmI2blZDS3pwaGxYSEJNCg==
bandit10@bandit:~$ base64 -d data.txt
The password is 6zPeziLdR2RKNdNYFNb6nVCKzphlXHBM
bandit10@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.

[~] -> $ ssh bandit11@bandit.labs.overthewire.org -p 2220
[~] -> [REDACTED]
This is an OverTheWire game server.
More information on http://www.overthewire.org/wargames
bandit11@bandit.labs.overthewire.org's password:
```



Level 11 > Level 12 Password: JVNBBFSmZwKKOP0XbFXOoW8chDz5yVRv



```
bandit12@bandit:~
File Actions Edit View Help
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!
bandit11@bandit:~$ ls
data.txt
bandit11@bandit:~$ cat data.txt
cat: data.txt: No such file or directory
bandit11@bandit:~$ cat data.txt
Gur cnffjbeq vf WIAOOFSzMjXXBC0KoSKBbj8puQm5lIEi
bandit11@bandit:~$ man tr
bandit11@bandit:~$ cat data.txt | tr A-Za-z N-ZA-Mn-za-m
The password is JVNBBFSmZwKKOP0XbFXOoW8chDz5yVRv
bandit11@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.

[~] -> $ ssh bandit12@bandit.labs.overthewire.org -p 2220
[~] -> [REDACTED]
This is an OverTheWire game server.
More information on http://www.overthewire.org/wargames
bandit12@bandit.labs.overthewire.org's password:
```



## Level 12 > Level 13 Password: wbWdlBxEir4CaE8LaPhauuOo6pwRmrDw

```
bandit12@bandit:~$ cat data.txt
data1
bandit12@bandit:~$ ls
data1.txt
bandit12@bandit:~$ cat data1.txt
00000000: 1fb0 0808 2773 4564 0203 6461 7461 222e ...'sEd..data2.
00000010: 0269 6000 0145 02ba fd42 5a68 3931 4159 bin..E..BZh9IAV
00000020: 2653 597b 4f96 5f00 0018 ffff fd6f e7ed 65Y0_._.....
00000030: bff7 be00 0000 0000 0000 0000 0000 0000 .....
00000040: 0400 0000 0004 3400 d341 a000 0680 0699 ...h.d4..A....
00000050: 0000 69a8 0000 1a00 1a0d 0034 0034 03d6 ..l.....4.4.
00000060: 0000 d464 6831 6403 4469 b42d 0000 3400 ..dhd..1'..4..
00000070: 0000 0000 0000 0000 0000 0000 0000 0000 ..J..4..4..4.4.
00000080: 4b31 3119 0000 1a08 1374 c86d 6460 0600 811...n.4.mf0...
00000090: 0007 a80d 000d 0009 3340 d034 0341 a000 .....@.4.A..
000000a0: 0699 07a9 881e a010 d800 0384 w4c5 4068 .....N4.C@h
000000b0: 6401 747a 0000 1a08 1374 c86d 6460 0600 ..0@..F..P...
000000c0: 0000 f6a1 819a 1958 07a6 3227 6400 0000 ..X.....d.B.
000000d0: a147 6142 a67e 3603 4756 3ba0 9100 0e34 ..GbB..-6.V....4
000000e0: 41fd 1247 6612 b380 0007 c8c6 b23e b6b2 A..Gf..... .
000000f0: 0000 0000 0000 0000 0000 0000 0000 0000 ..w.B.....
00000100: 429d 1107 0000 0000 0000 0000 0000 0000 ..X.....l..l.
00000110: b946 f69d 4473 8004 edc2 e010 0463 e652 F..Ds..>R
00000120: dd34 2244 08c6 5644 9314 9312 5056 e767 .4.D..d...P..g
00000130: 9021 0026 85e7 9c62 01c1 d4af 5e7d ..1...)....O'.....
00000140: 0000 0000 0000 0000 0000 0000 0000 0000 ..I..F..K...
00000150: 789d 1bd0 0001 1168 2e9a 3290 5d9e 0511 X.....L..z...
00000160: 6cad 205b edc4d5 4691 379a 5978 5bca l.....F..YXX.
00000170: 4846 44a0 3ba5 8939 4794 1f93 c588 1600 Hf..i.....P...
00000180: 0000 0000 0000 0000 0000 0000 0000 0000 ..w.P@fU...
00000190: c3e5 53d8 a959 5f6d ac12 720d 0215 2d83 .S..V..1..l...
000001a0: b965 3188 0d32 0097 4156 e950 0d40 64f6 ..e1..AV.P.Id.
000001b0: da4a 2d05 4a6e 5305 270c 1e70 8100 5f31 J...Se...y..l
000001c0: 0000 0000 0000 0000 0000 0000 0000 0000 ..t..t..m..Z...
000001d0: c1f6 5d10 d11f 0966 77c9 e484 0840 5a6f ..i..fw..T..Z0
000001e0: 2c10 410b 4288 1486 0818 8afa 0fcfa bf7f ..A.B..... .
000001f0: ad34 3308 4077 6552 9849 3786 7d85 1f0d ..(4..@eR..17)...
00000200: f287 1238 7639 1164 file 4830 7548 2562 ..89...Hj@K...
00000210: 70e4 24ff 1a69 0053 404c 0000 1231 a312 1'3..1..Kt...1.
00000220: 70e4 24ff 1a69 0053 404c 0000 1231 a312 1'3..1..Kt...1.
```

```
bandit13@bandit:~$ cat data1xxd
bandit12@bandit:~$ rm -rf /tmp/lv12
bandit12@bandit:~$ mkdir /tmp/lv12
bandit12@bandit:~$ cd /tmp/harshit12
bandit12@bandit:~$ cat data1xxd | xxd -r > /tmp/harshit12/data1
bandit12@bandit:~$ cd /tmp/harshit12
bandit12@bandit:~$ ls
data1
bandit12@bandit:/tmp/harshit12$ file data1
data1: gzip compressed data, was "data2.bin", last modified: Sun Apr 23 18:04:23 2023, max compression, from Unix, original size modulo 2^32 581
bandit12@bandit:/tmp/harshit12$ file data1xxd
bandit12@bandit:/tmp/harshit12$ file data1xxd.gz
data1xxd.gz: gzip compressed data, was "data2.bin", last modified: Sun Apr 23 18:04:23 2023, max compression, from Unix, original size modulo 2^32 581
bandit12@bandit:/tmp/harshit12$ zcat data1xxd.gz > data1
bandit12@bandit:/tmp/harshit12$ file data1
data1: bzp2 compressed data, block size = 000k
bandit12@bandit:/tmp/harshit12$ mv data1 ./data1.bz
bandit12@bandit:/tmp/harshit12$ bzip data1bz > data4
bandit12@bandit:/tmp/harshit12$ file data4
data4: gzip compressed data, was "data3.bin", last modified: Sun Apr 23 18:04:23 2023, max compression, from Unix, original size modulo 2^32 20480
bandit12@bandit:/tmp/harshit12$ zcat data4 > data5
bandit12@bandit:/tmp/harshit12$ file data5
data5: POSIX tar archive (GNU)
bandit12@bandit:/tmp/harshit12$ tar -xvf data5
tar: You must specify one of the '-Acctrux' '--delete' or '--test-label' options
Try 'tar --help' or 'tar --usage' for more information.
bandit12@bandit:/tmp/harshit12$ tar -xvf data5
tar: You must specify one of the '-Acctrux' '--delete' or '--test-label' options
Try 'tar --help' or 'tar --usage' for more information.
bandit12@bandit:/tmp/harshit12$ tar -xvf data5
tar: v: Cannot open: No such file or directory
tar: Error is not recoverable: exiting now
bandit12@bandit:/tmp/harshit12$
```

```
bandit13@bandit:~$ tar -xvf ./data5
data5.bin
bandit12@bandit:/tmp/harshit12$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/harshit12$ tar -xvf ./data5.bin
data6.bin
bandit12@bandit:/tmp/harshit12$ file data6.bin
data6.bin: bz2 compressed data, block size = 000k
bandit12@bandit:/tmp/harshit12$ zcat data6.bin > data7
bandit12@bandit:/tmp/harshit12$ file data7
data7: POSIX tar archive (GNU)
bandit12@bandit:/tmp/harshit12$ tar -xvf ./data7
data8.bin
bandit12@bandit:/tmp/harshit12$ file data8.bin
data8.bin: gzip compressed data, was "data9.bin", last modified: Sun Apr 23 18:04:23 2023, max compression, from Unix, original size modulo 2^32 900
bandit12@bandit:/tmp/harshit12$ zcat data8.bin
The password is wbWdlBxEir4CaE8LaPhauuOo6pwRmrDw
bandit12@bandit:/tmp/harshit12$ exit
logout
Connection to bandit.labs.overthewire.org closed.

[harshit@harshit: ~]
$ ssh bandit13@bandit.labs.overthewire.org -p 2220
[!] [!] [!] [!] [!] [!] you become, the more you are al

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

bandit13@bandit.labs.overthewire.org's password:
```

Level 13 > Level 14 Password: ssh [bandit14@bandit.labs.overthewire.org](mailto:bandit14@bandit.labs.overthewire.org) -p 2220 -i private.key

Level 14 > Level 15 Password: jN2kgmIXJ6fShzhT2avhotn4Zcka6tnt

The screenshot shows a terminal window titled "bandit15@bandit: ~". The terminal displays the following session:

```
bandit14@bandit:~$ ls
bandit14@bandit:~$ id
uid=11014(bandit14) gid=11014(bandit14) groups=11014(bandit14)
bandit14@bandit:~$ ls
bandit14@bandit:~$ nc localhost 30000
fGrHPx402xGC7U7rXKDaxiWFT0iF0ENq
Correct!
jN2kgmIXJ6fShzhT2avhotn4Zcka6tnt

bandit14@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.

(harshit@harshita) [~]
$ ssh bandit15@bandit.labs.overthewire.org -p 2220
```

Below the terminal, there is a decorative banner with the word "LINC" and some geometric shapes. The banner text reads:

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

bandit15@bandit.labs.overthewire.org's password: vieter you become, the more you are ab  
Permission denied, please try again.  
bandit15@bandit.labs.overthewire.org's password:

Below the banner, there is a large, faint watermark-like graphic of a person's face.

## Level 15 > Level 16 Password: JQtffApK4SeyHwDlI9SXGR50qclOAi11

```
bandit16@bandit:~
```

File Actions Edit View Help

```
Ncat: Input/output error.  
bandit15@bandit:~$ man s_client  
bandit15@bandit:~$ openssl s_client -connect localhost:30001  
CONNECTED(00000003)  
Can't use SSL_get_servername  
depth=0 CN = localhost  
verify error:num=18:self-signed certificate  
verify return:1  
depth=0 CN = localhost  
verify error:num=10:certificate has expired  
notAfter=Sep 23 10:08:37 2023 GMT  
verify return:1  
depth=0 CN = localhost  
notAfter=Sep 23 10:08:37 2023 GMT  
verify return:1  
-----  
Certificate chain  
0 s:CN = localhost  
i:CN = localhost  
a:PKKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA1  
v:NotBefore: Sep 23 10:07:37 2023 GMT; NotAfter: Sep 23 10:08:37 2023 GMT  
-----  
Server certificate  
-----BEGIN CERTIFICATE-----  
MIIDCzCCAfOgAwIBAgIEUUMX7DAnBgkqhkiG9w0BAQUFADAUMRiwEAYDVQQDDA1s  
b2Nhbgvhc3QWhcnMjMw0T1zMTAwNzM3WhcNmjMw0T1zMTAwODM3WjAUdRIeAYD  
VQDQDAlsb2Nhbgvhc3QwggiMA0GCSqGSIb3DQEBAQUA4IBDwAwggEKAoIBAQde  
chZLvyPi5m8gcDFZY41YpeJa3Po+Md/F57dp0bgwEOSl/g6ttcgaoEYSMihL  
AvX1x1E1gp0ONxZg/P/vtNDQIlsqwj5X3HPje9UEUsAcBjNHaiqb/3Qb3dwVppYK  
MVHUmMxjCt5FDIVpQoI6FNNE8itZ24Ub108cwB0tZucTWPIeoZQlAvory76ihWX  
mgWnQeQcm80pgEA/6eAN14t10gtSYI+uBDk3wNOFCXTFgo1UQdubEA7Wp81kv1v  
veXW67qpVt4c9CKMaa0djlF19VV7HWCJV/CFdjzUfunP6dtppuRyr35idMwf  
OEppbsgAbygT98PJY2bZAgMBAAG1ZTBjMBQGA1UdEQQNAuCCWxxv2FsaG9zdDBL  
Bg1ghkgBhvCAQ0EPHy8QXV0h21hdG1jYXxse5bnZWS1cmF0ZWoqYnkgtmNhdCag  
U2VLIGH0dHBz0i8vb1hcC5vcmbmNhdC8uMA0GCSqGSIb3DQEBBQUAA1BQAQaf  
ogku2p103J1VQLSMpnZ3bvNvVSPPqhuG/VcCqMF854jqFNCSya68zn02p1bx1  
36agJh28Efhlkj5oyrbDzNjZWpjEc18DHXXvrbTjvDgbdtaq9g3gZxeKMr5MyA  
55J+aeOWKJbSUKz/SERdCtYh+E+idGurB7yUTUpjAYL6egQsyuhD00U8LJJBt+N  
PXQj6Xm0Gw09Ww2pF/AISFgtwhCbsNCJc9iJ2SK00ot3jDqoTz7wF+h+rMkc1d  
FlivZ3tevir1kbzTGrqPncPsUMN5r0QmUss38E7v/yDkeTBC6e1Hm+88X9V/Lxh  
UWPot27R9BEfhzzRyuay
```

UTM

```
bandit16@bandit:~
```

File Actions Edit View Help

```
0080 - bb 8a 34 c3 76 c1 58 b0-bd 75 aa 13 16 13 59 46 ..4.v.X..u....YF  
0090 - 88 fe d2 c6 cb 45 9f ec-9b 04 fc ed cc 1b 69 1f ..b..E.....i.  
00a0 - 0f e9 53 db 98 17 89 a7-4a ae b1 bc a0 ef 83 e7 ..S.....J.....  
00b0 - 8b d5 67 8f cf 5d 94 23-79 9e 48 4a 9f 43 0c 4a ..g..].#y.HJ.C.J  
00c0 - 65 dc 1b ad 64 fb b4 68-da 1d ff 50 98 ad 54 07 e...d..h...P..T.
```

Start Time: 1695509895  
Timeout : 7200 (sec)  
Verify return code: 10 (certificate has expired)  
Extended master secret: no  
Max Early Data: 0

read R BLOCK  
jN2kgmIXj6fShzhT2avhotn4Zcka6tnt  
Correct!  
JQtffApK4SeyHwDlI9SXGR50qclOAi11

closed  
bandit15@bandit:~\$ exit  
logout  
Connection to bandit.labs.overthewire.org closed.

```
[harshitan@harshita:~]$ ssh bandit16@bandit.labs.overthewire.org -p 2220
```

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

bandit16@bandit.labs.overthewire.org's password:

```
/'`/ ``\ ; ; /'`.' ; /'`.' ; /'`.' ; /'`.' ; /'`.' ; /'`.' ; /'`.' ; /'`.' ; /'`.'
```

Level 16 > Level 17 Password: ssh -i pvt.key bandit16@localhost  
(My kali crashed in the middle so I finished this on ubuntu)

```
-----BEGIN RSA PRIVATE KEY-----
MIIEogIBAAKCAQEAvmOkuifmMg6HL2YPI0jon6iWfbp7c3jx34YkYWqUH57SUdyJ
imZzeyGC0gtZPGujUSxiJSWI/oTqexh+cAMTSMl0Jf7+BrJ0bArnxd9Y7YT2bRPQ
Ja6Lzb558Y3FZl870Ri0+rW4LCDNd2LUvLE/GL2GwyuKN0K51cd5TbtJzEkQTu
DSt2mcNn4rhAL+JFr56o4T6z8WWAW18BR6yGrMq7Q/kALHYW30ekePQAzL0VUbW
JGTi65CxbCnc/c/w4+mqQyvmpWtMAzJtzAzQxNbkr2MBGySxDLrjg0LWN6sK7wNX
x0YVztz/zbIkPjfkU1jHS+9EbVNj+D1XF0JuaQIDAQABoIBABagpxpMiaoLWfvD
Khcj10nqcoBc4oE11aFYQwik7xFw+24pRNuDE6SFh0ar69jp5RLlwD1NhPx3iBl
J9n0M80J0VToum43U058Yxf8WhXriYGnc1sskbwpXOUDc9uX4+UESzH22P29ovd
d8WErY0gPxun8pbJLmxkAtWNhpMvfe0050vk9TL5wqbu9AlbssgTcCxkMQnPw9nC
```

```
bandit16@bandit: /tmp
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 98.76 seconds
bandit16@bandit:~$ openssl s_client -connect localhost:31790
CONNECTED(00000003)
Can't use SSL_get_servername
depth=0 CN = localhost
verify error:num=18:self-signed certificate
verify return:1
depth=0 CN = localhost
verify error:num=10:certificate has expired
notAfter=Sep 24 17:42:32 2023 GMT
verify return:1
depth=0 CN = localhost
notAfter=Sep 24 17:42:32 2023 GMT
verify return:1
---
Certificate chain
  0 s:CN = localhost
    i:CN = localhost
      a:KEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA1
      v:NotBefore: Sep 24 17:41:32 2023 GMT; NotAfter: Sep 24 17:42:32 2023 GMT
```

```
bandit16@bandit: /tmp
77pbAoGAMmjmIJdj0p+Ez8duyn3ieo36yrttF5NSsJLAbxPdlc1gvtGCWN+9Cq0b
dxv1W8+TFVEBl104f7HVm6EpTscdXu+bCXWkfjuRb7Dy9G0t9JPx8MBTakzh3
vBgssyl/sN3RqRbcGU40f0ozYfAMT8s1m/uYv5206IgeuZ/ujbjY=
-----END RSA PRIVATE KEY-----

closed
bandit16@bandit:~$ cd /tmp
bandit16@bandit:/tmp$ touch pvt.key
bandit16@bandit:/tmp$ nano pvt.key
Unable to create directory /home/bandit16/.local/share/nano/: No such file or directory
It is required for saving/loading search history or cursor positions.

bandit16@bandit:/tmp$ cat pvt.key
-----BEGIN RSA PRIVATE KEY-----
MIIEogIBAAKCAQEAvmOkuifmMg6HL2YPI0jon6iWfbp7c3jx34YkYWqUH57SUdyJ
imZzeyGC0gtZPGujUSxiJSWI/oTqexh+cAMTSMl0Jf7+BrJ0bArnxd9Y7YT2bRPQ
Ja6Lzb558Y3FZl870Ri0+rW4LCDNd2LUvLE/GL2GwyuKN0K51cd5TbtJzEkQTu
DSt2mcNn4rhAL+JFr56o4T6z8WWAW18BR6yGrMq7Q/kALHYW30ekePQAzL0VUbW
JGTi65CxbCnc/c/w4+mqQyvmpWtMAzJtzAzQxNbkr2MBGySxDLrjg0LWN6sK7wNX
x0YVztz/zbIkPjfkU1jHS+9EbVNj+D1XF0JuaQIDAQABoIBABagpxpMiaoLWfvD
Khcj10nqcoBc4oE11aFYQwik7xFw+24pRNuDE6SFh0ar69jp5RLlwD1NhPx3iBl
J9n0M80J0VToum43U058Yxf8WhXriYGnc1sskbwpXOUDc9uX4+UESzH22P29ovd
d8WErY0gPxun8pbJLmxkAtWNhpMvfe0050vk9TL5wqbu9AlbssgTcCxkMQnPw9nC
```

```
bandit16@bandit:/tmp$ cat pvt.key
-----BEGIN RSA PRIVATE KEY-----
MIIEogIBAAKCAQEAvnOkufMqGHL2YPI0jon6iWfbp7c3jx34YkyWqUH57SuDyJ
inZzeyCC0gtZPGuJSxiJSWI/Tqexh+cAMTSWl0Jf7+B+jObArnx9vY7rT2bRPQ
JaGLzb558W3FZL870r0+rW4LCDCNd2UVLE/GL2GWuXN085Lcd5TbtjZEKQtU
DS12mcNh4rhAL+JFr56o4T6z8wMAW18BR6yGRMq7Q/kALHYW30ekepQAzl0VUvW
JGTl65CxbCnzc/w4+mqQyvnzptmAztzAzQxnbkR2MBGysxLrjg0LNgsk7wNx
x0Vztt/zbIKPjfku1jH5+9EbVNj-D1XF0JuqIDAQABAOiBABagpxm1aoLWfd
KHcj10nqcoBc40E11afYQwlk7xfn+24prNUDE6F5ftho69jp5RllwD1NHPx3lBl
J9n0M80J0VtOun43UOS8Yx8FWlhrlYNgncisskbwpXUDc9uX4-UESzh22P29ovd
d8WE-YgPxun8pbJLmxkAtWnhpMwee058vkv9TLswbu9AlbssgTccXkM0nPk9nC
YNN6DDP2lbBr8vgT9YCNl0C+ZKuFD5zyQ9q0kwfTEOpjtF4uNT3om+asvlpnS8A
vLy9r66wYsvnZhnqUrj7lyctKMiu1kdk4w7F7k+djhOaXyxcUpIDGL5is0mna
+TOMWgEcgyEA8JtPxP0GRJ+iQkX262jM3dIka8aky5moIwUgYdsx0NxHgRhORT
8c8hAurRBzGB2so8Uhk/fur850Fc9TncmY2crpoqsghtfkLxrLgt+oDpfZnx
SatLdt8Gf085yA7hmWJ2MxF3NaesDm75Lsm+tBbAlyc9P2jGRntMSkcgYEayphd
HCctNl/FwjulhttFx/RHKhhlzDZFyel/v45bN4yFm8x7R/b0LE7kaszx+Exdvt
SghatDcc0Knw1bp2VusavpzaJMjd6tcFhvAbAjm7enCIVGCSx+x3lSS1wg9A
R57hjgleztiivjv3aqOhwlv2ytszk6z6oXFau0EcgYAbj04674hyPStl93VShdi
Tt1ek7xRvxUl+U7rWkGAXFpMLFteQesr7Pj/lemmEVseTDAFLMyFL2m9oQWcg
R8VdwSk8r9FGLS+9akcV5PI/WEKlwgXlnB30hyimtlG2cg5JcqlZFHxD6hjEG0lu
L8ktHMVvodBwNsSBULpgQ0KBgAp1YfCIHonwiMGOU3KpwWt006cdTkMj0mL8Nt
bh9elyz9FsGxsgtBXRsquz7wtsQagHxbdLq/Z3Q7YfzOKU4zxeabvXnvkU
YodJhdSo0kvQNhuoucyLRAWFUISeXw9a/9p7ftpxn0TsgvnflF2MIAEwyZrqM
77pAoGAmmjn1Jdjp+Ez8duyn3ieo36yrttFSNssJLAbxFpd1c1gvtGCCWn+9cqob
dxv1w8+TFVEBL104f7Hvm6EpTscdxu+bCXWkfjub7dy9G0tt9JPsxMBTakzh3
vBqsyi/sN3RqR8cGU40fo0OzYfAMT8s1m/uYv5206IgeuZ/ybjy=
-----END RSA PRIVATE KEY-----
bandit16@bandit:/tmp$ ls -la
ls: cannot open directory '.': Permission denied
bandit16@bandit:/tmp$ ls -l pvt.key
-rw-rw-r-- 1 bandit16 bandit16 1675 Sep 25 02:10 pvt.key
```