

Bandit: Over The Wire

- Level 0:

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

Password: bandit0

```
ubuntu@DESKTOP-LKEG2D3:~$ ssh bandit0@bandit.labs.overthewire.org -p 2220
The authenticity of host '[bandit.labs.overthewire.org]:2220 ([13.50.165.192]:2220)' can't be established.
ED25519 key fingerprint is SHA256:C2ihUBV7ihnV1wUXRb4RrEcLFXC5CXlhmAAM/urerLY.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '[bandit.labs.overthewire.org]:2220' (ED25519) to the list of known hosts.
```

```
bandit
```

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

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

```
0424
www. ver he ire.org
```

Welcome to OverTheWire!

If you find any problems, please report them to the #wargames channel on discord or IRC.

--[Playing the games]--

This machine might hold several wargames.
If you are playing "somegame", then:

- * USERNAMES are somegame0, somegame1, ...
- * Most LEVELS are stored in /somegame/.
- * PASSWORDS for each level are stored in /etc/somegame_pass/.

Write-access to homedirectories is disabled. It is advised to create a working directory with a hard-to-guess name in /tmp/. You can use the command "mktemp -d" in order to generate a random and hard to guess

```

Write access to home directories is disabled. It is advised to create a
working directory with a hard-to-guess name in /tmp/. You can use the
command "mktemp -d" in order to generate a random and hard to guess
directory in /tmp/. Read-access to both /tmp/ is disabled and to /proc
restricted so that users cannot snoop on eachother. Files and directories
with easily guessable or short names will be periodically deleted! The /tmp
directory is regularly wiped.
Please play nice:

* don't leave orphan processes running
* don't leave exploit-files laying around
* don't annoy other players
* don't post passwords or spoilers
* again, DONT POST SPOILERS!
  This includes writeups of your solution on your blog or website!

--[ Tips ]--

This machine has a 64bit processor and many security-features enabled
by default, although ASLR has been switched off. The following
compiler flags might be interesting:

-m32                compile for 32bit
-fno-stack-protector  disable ProPolice
-Wl,-z,norelro       disable relro

In addition, the execstack tool can be used to flag the stack as
executable on ELF binaries.

Finally, network-access is limited for most levels by a local
firewall.

--[ 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/
* peda (https://github.com/l0ngld/peda.git) in /opt/peda/
* gdbinit (https://github.com/gdbinit/Gdbinit) in /opt/gdbinit/
* pwntools (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!

```

• Level 0 – Level 1:

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

Password: ZjLjTmM6FvvyRnrb2rfNWOZOTa6ip5If

Note: cat command helps us to see the contents inside the given file on screen or in terminal


```

bandit0@bandit:~$ ls
readme
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: ZjLjTmM6FvvYRnrb2rfNW0Z0Ta6ip5If


bandit0@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
ubuntu@DESKTOP-LKEG2D3:~$ ssh bandit1@bandit.labs.overthewire.org -p 2220

```



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



Welcome to OverTheWire!

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• Level 1 – Level 2:

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

Password: 263JGJPfgU6LtdEvgfWU1XP5yac29mFx

Note: ls command helps us to see the hidden files

```
bandit1@bandit:~$ ls
-
bandit1@bandit:~$ cat ./-
263JGJPfgU6LtdEvvgfWU1XP5yac29mFx
bandit1@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
ubuntu@DESKTOP-LKEG2D3:~$ ssh bandit2@bandit.labs.overthewire.org -p 2220

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

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

www. ver he ire.org

Welcome to OverTheWire!

If you find any problems, please report them to the #wargames channel on
discord or IRC.
```

- **Level 2 -Level 3:**

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

Password: MNk8KNH3Usii041PRUEoDFPqfxLPIsmx

Note: cat “spaces in this filename”

```
bandit2@bandit:~$ ls
spaces in this filename
bandit2@bandit:~$ cat "spaces in this filename"
MNk8KNH3Usio41PRUEoDFPqfxLPLSmx
bandit2@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
ubuntu@DESKTOP-LKEG2D3:~$ ssh bandit3@bandit.labs.overthewire.org -p 2220
```

OverTheWire

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

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

OverTheWire

www. ver he ire.org

Welcome to OverTheWire!

If you find any problems, please report them to the #wargames channel on discord or IRC.

- **Level 3 – Level 4:**

Username: ssh [bandit4@bandit.labs.overthewire.org](ssh:bandit4@bandit.labs.overthewire.org) -p 2220

Password: 2WmrDFRmJlq3IPxneAaMGhapOpFhF3N

Note: we can change your current directory with the cd command (Change Directory).

ls -al command is used to list files and directories in the current directory with detailed information


```

bandit5@bandit:~$ ls
inhere
bandit5@bandit:~$ cd inhere
bandit5@bandit:~/inhere$ ls -lR
.:
total 80
drwxr-x--- 2 root bandit5 4096 Sep 19 07:08 maybehere00
drwxr-x--- 2 root bandit5 4096 Sep 19 07:08 maybehere01
drwxr-x--- 2 root bandit5 4096 Sep 19 07:08 maybehere02
drwxr-x--- 2 root bandit5 4096 Sep 19 07:08 maybehere03
drwxr-x--- 2 root bandit5 4096 Sep 19 07:08 maybehere04
drwxr-x--- 2 root bandit5 4096 Sep 19 07:08 maybehere05
drwxr-x--- 2 root bandit5 4096 Sep 19 07:08 maybehere06
drwxr-x--- 2 root bandit5 4096 Sep 19 07:08 maybehere07
drwxr-x--- 2 root bandit5 4096 Sep 19 07:08 maybehere08
drwxr-x--- 2 root bandit5 4096 Sep 19 07:08 maybehere09
drwxr-x--- 2 root bandit5 4096 Sep 19 07:08 maybehere10
drwxr-x--- 2 root bandit5 4096 Sep 19 07:08 maybehere11
drwxr-x--- 2 root bandit5 4096 Sep 19 07:08 maybehere12
drwxr-x--- 2 root bandit5 4096 Sep 19 07:08 maybehere13
drwxr-x--- 2 root bandit5 4096 Sep 19 07:08 maybehere14
drwxr-x--- 2 root bandit5 4096 Sep 19 07:08 maybehere15
drwxr-x--- 2 root bandit5 4096 Sep 19 07:08 maybehere16
drwxr-x--- 2 root bandit5 4096 Sep 19 07:08 maybehere17
drwxr-x--- 2 root bandit5 4096 Sep 19 07:08 maybehere18
drwxr-x--- 2 root bandit5 4096 Sep 19 07:08 maybehere19

./maybehere00:
total 44
-rwxr-x--- 1 root bandit5 1039 Sep 19 07:08 -file1
-rw-r----- 1 root bandit5 9388 Sep 19 07:08 -file2
-rwxr-x--- 1 root bandit5 7378 Sep 19 07:08 -file3
-rwxr-x--- 1 root bandit5 6118 Sep 19 07:08 spaces file1
-rw-r----- 1 root bandit5 6850 Sep 19 07:08 spaces file2
-rwxr-x--- 1 root bandit5 1915 Sep 19 07:08 spaces file3

./maybehere01:
total 52
-rwxr-x--- 1 root bandit5 6028 Sep 19 07:08 -file1
-rw-r----- 1 root bandit5 288 Sep 19 07:08 -file2

```

```

bandit5@bandit:~/inhere$ find . -size 1033c
./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

```

bandit5@band

```

it:~/inhere/maybehere07$ exit
logout
Connection to bandit.labs.overthewire.org closed.

```


• Level 6 – Level 7:

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

Password: morbNTDkSW6jllUc0ymOdMaLnOlFVAaj

Note: “/var/lib/dpkg/info/bandit7.password” is the path to the password.

```
bandit6@bandit:~$ ls
bandit6@bandit:~$ ls -lR
.:
total 0
bandit6@bandit:~$ ls -al
total 20
drwxr-xr-x  2 root root 4096 Sep 19 07:08 .
drwxr-xr-x 70 root root 4096 Sep 19 07:09 ..
-rw-r--r--  1 root root  220 Mar 31 08:41 .bash_logout
-rw-r--r--  1 root root 3771 Mar 31 08:41 .bashrc
-rw-r--r--  1 root root  807 Mar 31 08:41 .profile
bandit6@bandit:~$ find . -size 33c -user bandit7 -group bandit6
bandit6@bandit:~$ find / -size 33c -user bandit7 -group bandit6
find: '/drifter/drifter14_src/axTLS': Permission denied
find: '/root': Permission denied
find: '/snap': Permission denied
find: '/tmp': Permission denied
find: '/proc/tty/driver': Permission denied
find: '/proc/482245/task/482245/fd/6': No such file or directory
find: '/proc/482245/task/482245/fdinfo/6': No such file or directory
find: '/proc/482245/fd/5': No such file or directory
find: '/proc/482245/fdinfo/5': No such file or directory
find: '/home/bandit31-git': Permission denied
find: '/home/ubuntu': Permission denied
find: '/home/bandit5/inhere': Permission denied
find: '/home/bandit30-git': Permission denied
find: '/home/drifter8/chroot': Permission denied
find: '/home/drifter6/data': Permission denied
find: '/home/bandit29-git': Permission denied
find: '/home/bandit28-git': Permission denied
find: '/home/bandit27-git': Permission denied
find: '/lost+found': Permission denied
find: '/etc/polkit-1/rules.d': Permission denied
find: '/etc/multipath': Permission denied
find: '/etc/stunnel': Permission denied
find: '/etc/xinetd.d': Permission denied
find: '/etc/credstore.encrypted': Permission denied
find: '/etc/ssl/private': Permission denied
find: '/etc/sudoers.d': Permission denied
find: '/etc/credstore': Permission denied
find: '/dev/shm': Permission denied
find: '/dev/mqueue': Permission denied
find: '/var/log': Permission denied
find: '/var/tmp': Permission denied
find: '/var/spool/cron/crontabs': Permission denied
find: '/var/spool/bandit24': Permission denied
```

```
find: '/var/spool/rsyslog': 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/2425d902.0': Permission denied
find: '/var/cache/apparmor/baad73a1.0': Permission denied
find: '/var/lib/polkit-1': Permission denied
find: '/var/lib/amazon': 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/snapd/void': Permission denied
find: '/var/lib/snapd/cookie': Permission denied
find: '/var/lib/private': Permission denied
find: '/var/lib/ubuntu-advantage/apt-esm/var/lib/apt/lists/partial': Permission denied
find: '/var/lib/update-notifier/package-data-downloads/partial': Permission denied
find: '/var/lib/udisks2': Permission denied
find: '/var/crash': Permission denied
find: '/boot/efi': Permission denied
find: '/boot/lost+found': Permission denied
find: '/sys/kernel/tracing': Permission denied
find: '/sys/kernel/debug': Permission denied
find: '/sys/fs/pstore': Permission denied
find: '/sys/fs/bpf': Permission denied
find: '/run/lock/lvm': Permission denied
find: '/run/systemd/inaccessible/dir': Permission denied
find: '/run/systemd/propagate/systemd-udevd.service': Permission denied
find: '/run/systemd/propagate/systemd-resolved.service': Permission denied
find: '/run/systemd/propagate/systemd-networkd.service': Permission denied
find: '/run/systemd/propagate/irqbalance.service': Permission denied
find: '/run/systemd/propagate/systemd-logind.service': Permission denied
find: '/run/systemd/propagate/chrony.service': Permission denied
find: '/run/systemd/propagate/polkit.service': Permission denied
find: '/run/systemd/propagate/ModemManager.service': Permission denied
find: '/run/systemd/propagate/fwupd.service': Permission denied
find: '/run/lvm': Permission denied
find: '/run/cryptsetup': Permission denied
find: '/run/multipath': Permission denied
find: '/run/screen/S-bandit20': Permission denied
find: '/run/sudo': Permission denied
find: '/run/user/11005': Permission denied
```

```
find: '/run/user/11011': Permission denied
find: '/run/user/11000': Permission denied
find: '/run/user/11006/systemd/inaccessible/dir': Permission denied
find: '/run/user/11003': Permission denied
find: '/run/user/11016': Permission denied
find: '/run/user/11012': Permission denied
find: '/run/user/11008': Permission denied
find: '/run/user/11001': Permission denied
find: '/run/user/11020': Permission denied
find: '/run/user/11013': Permission denied
find: '/run/user/11004': Permission denied
find: '/run/user/11007': Permission denied
find: '/run/user/11024': Permission denied
find: '/run/user/11023': Permission denied
find: '/run/user/11029': Permission denied
find: '/run/user/11014': Permission denied
find: '/run/user/11002': Permission denied
find: '/run/user/11018': Permission denied
find: '/run/user/11022': Permission denied
find: '/run/user/11019': Permission denied
find: '/run/user/11032': Permission denied
find: '/run/user/11010': Permission denied
find: '/run/user/11021': Permission denied
find: '/run/user/11025': Permission denied
find: '/run/user/11028': Permission denied
find: '/run/user/11015': Permission denied
find: '/run/user/11009': Permission denied
find: '/run/user/11017': Permission denied
find: '/run/user/11030': Permission denied
find: '/run/chrony': Permission denied
find: '/run/udisks2': Permission denied
bandit6@bandit:~$ cat /var/lib/dpkg/info/bandit7.password
morbNTDkSW6jIlUc0ymOdMaLn0lFVAaj
bandit6@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
```

- **Level 7 – Level 8:**

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

Password: dfwvzFQi4mU0wfNbFOe9RoWskMLg7eEc

Note: grep is used to filter lines of text containing (or not containing) a certain string. data.txt file has large size.

```
bandit7@bandit:~$ ls
data.txt
bandit7@bandit:~$ grep millionth data.txt
millionth      dfwvzFQi4mU0wfNbFOe9RoWskMLg7eEc
bandit7@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
ubuntu@DESKTOP-LKEG2D3:~$ ssh bandit8@bandit.labs.overthewire.org -p 2220
```

bandit

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

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

OverTheWire

Welcome to OverTheWire!

If you find any problems, please report them to the #wargames channel on discord or IRC.

- **Level 8 – Level 9:**

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

Password: 4CKMh1JI91bUIZZPXDqGanal4xvAg0JM

Note: The sort filter will default to an alphabetical sort.

Pipe is used to run two commands at a time. Uniq -u used to filter and display only the unique lines from a sorted file or input.

```
bandit8@bandit:~$ ls
data.txt
bandit8@bandit:~$ sort data.txt | uniq -u
4CKMh1JI91bUIZZPXDqGanal4xvAg0JM
bandit8@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
ubuntu@DESKTOP-LKEG2D3:~$ ssh bandit9@bandit.labs.overthewire.org -p 2220
```

bandit

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

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

OverTheWire

Welcome to OverTheWire!

If you find any problems, please report them to the #wargames channel on discord or IRC.

- **Level 9 – Level 10:**

Username: ssh bandit10@bandit.labs.overthewire.org -p 2220

Password: FGUW5ilLVJrxX9kMYMmlN4MgbpfMiqey

Note: strings command is used display the human-readable text from binary files. Later grep '=' command to extract lines containing (=) sign from the given file.

```
bandit9@bandit:~$ ls
data.txt
bandit9@bandit:~$ strings data.txt | grep '='
}===== the
p\l=
;c<Q=.dEXU!
3JprD===== passwordi
qC(=
~fDV3===== is
7=oc
zP=
~de=
3k=fQ
~o=0
69}=
%"=Y
=tZ~07
D9===== FGUW5ilLVJrxX9kMYMmlN4MgbpfMiqey
N=~[!N
zA=?0j
bandit9@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
```

- **Level 10 – Level 11:**

Username: ssh bandit11@bandit.labs.overthewire.org -p 2220

Password: dtR173fZKb0RRsDFSGsg2RWnpNVj3qRr

Note: base64 converts binary text representations to string texts. (-d) is used to display in standard output.

```
bandit10@bandit:~$ ls
data.txt
bandit10@bandit:~$ cat data.txt | base64 -d
The password is dtR173fZKb0RRsDFSGsg2RWnpNVj3qRr
bandit10@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
ubuntu@DESKTOP-LKEG2D3:~$ ssh bandit11@bandit.labs.overthewire.org -p 2220
```

bandit

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

bandit11@bandit.labs.overthewire.org's password:

OverTheWire

Welcome to OverTheWire!

If you find any problems, please report them to the #wargames channel on discord or IRC.

- **Level 11 – Level 12:**

Username: ssh [bandit12@bandit.labs.overthewire.org](https://bandit12.bandit.labs.overthewire.org) -p 2220

Password: 7x16WNeHli5YklhWsfFIqoognUTyj9Q4

Note: tr command is used to translate characters.

Here we used tr 'A-Za-z' 'N-ZA-Mn-za-m' so that it shifts 13 positions for given letter and print the 13th position letter for the given letter. (Popularly known as caesar cipher).

```
bandit11@bandit:~$ ls
data.txt
bandit11@bandit:~$ cat data.txt | tr 'A-Za-z' 'N-ZA-Mn-za-m'
The password is 7x16WNeHiI5YkIhWsfFIqoognUTyj9Q4
bandit11@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
ubuntu@DESKTOP-LKEG2D3:~$ ssh bandit12@bandit.labs.overthewire.org -p 2220
```

		-	-	-	-
	\	/	\	/	
	C		C		T
-	/	\	-	/	\

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

bandit12@bandit.labs.overthewire.org's password:

Welcome to OverTheWire!

If you find any problems, please report them to the #wargames channel on discord or IRC.

• Level 12 – Level 13:

Username: ssh bandit13@bandit.labs.overthewire.org -p 2220

Password: FO5dwFsc0cbaliH0h8J2eUks2vdTDwAn

Note:

- mkdir command is used to create a new directory.
- cp command is used to copy files.
- mv command is used to move or rename a file.
- Hexdumps is data that cannot be represented in string format so the data is shown in hex values.
- xxd command is used to create hexdumps.
- file command is used to determine the file type.
- gzip command is used to compress the file. gzip -d command is used to decompress the file. Compression is reducing the size of the file without any disturbance in information present in file. gzip file usually ends with .gz.

• Level 13 – Level 14:

Username: ssh bandit14@bandit.labs.overthewire.org -p 2220

Password: MU4VWeTyJk8ROof1qqmcBPALh7LDCPvS

Note: (-i) is used to allow only the user with the private key to access the ssh. Local host is the machine that currently the user is working on.

```
bandit13@bandit:~$ ls
sshkey.private
bandit13@bandit:~$ ssh -i sshkey.private -p 2220
usage: ssh [-46AaCfGgKkMnQsTtVvXxYy] [-B bind_interface] [-b bind_address]
          [-c cipher_spec] [-D [bind_address:]port] [-E log_file]
          [-e escape_char] [-F configfile] [-I pkcs11] [-i identity_file]
          [-J destination] [-L address] [-l login_name] [-m mac_spec]
          [-O ctl_cmd] [-o option] [-P tag] [-p port] [-R address]
          [-S ctl_path] [-W host:port] [-w local_tun[:remote_tun]]
          destination [command [argument ...]]
          ssh [-Q query_option]
bandit13@bandit:~$ ssh -i sshkey.private -p 2220 bandit14@localhost
The authenticity of host '[localhost]:2220 ([127.0.0.1]:2220)' can't be established.
ED25519 key fingerprint is SHA256:C2ihUBV7ihnV1wUXRb4RrEcLFXC5CXlhmAAM/urerLY.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Could not create directory '/home/bandit13/.ssh' (Permission denied).
Failed to add the host to the list of known hosts (/home/bandit13/.ssh/known_hosts).

      .--.
     /  . \
    / ./. \
   /  .  \
  /_____\ \
 |         |
 |  O O  |
 |_____| |
 |         |
 |  O O  |
 |_____| |
   \  .  /
  \  .  /
   \  . /
    \  /
     \ /
      --

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

!!! You are trying to log into this SSH server with a password on port 2220 from localhost.
!!! Connecting from localhost is blocked to conserve resources.
!!! Please log out and log in again.

  Oo4n
  www. ver he ire.org
```

--[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/
* pwntools (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!

```
bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
MU4VWeTyJk8ROof1qqmcBPALh7LDCPvS
```

- **Level 14 – Level 15:**

Username: ssh bandit15@bandit.labs.overthewire.org -p 2220

Password: 8xCjnmgoKbGLhHFAZlGE5Tmu4M2tKJQo

Note: Local host is a host name which has the ip address '127.0.0.1' . nc or netcat command is used to read and write data over a network.

Syntax : nc <host> <port>

Host : 127.0.0.1

Port: 22

```
bandit14@bandit:~$ ssh -i sshkey.private bandit14@localhost
Warning: Identity file sshkey.private not accessible: No such file or directory.
kex_exchange_identification: read: Connection reset by peer
Connection reset by 127.0.0.1 port 22
bandit14@bandit:~$ cat /etc/bandit_pass/bandit15
cat: /etc/bandit_pass/bandit15: Permission denied
bandit14@bandit:~$ nc 127.0.0.1 22
SSH-2.0-OpenSSH_9.6p1
```