

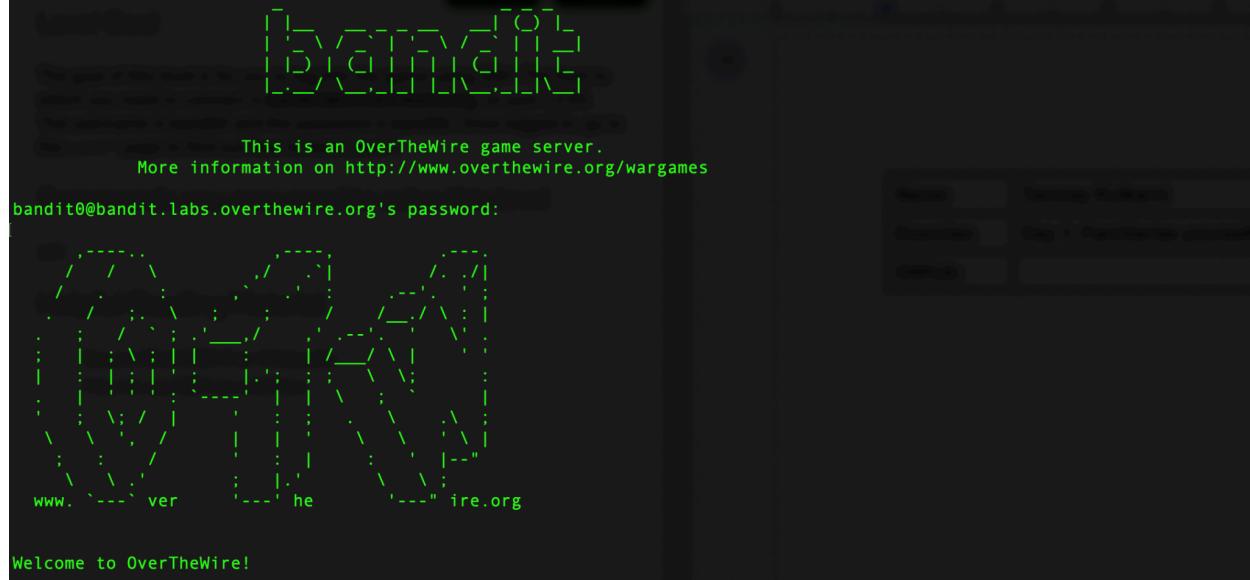
Name:	Tanmay Kulkarni
Exercise:	Day 1: Familiarize yourself with Command Line superpower.
GitHub:	https://github.com/TanmayKulka29/CommandLine

Game link: bandit.labs.overthewire.org

1) Bandit Level 0:

The goal of this level is for you to log into the game using SSH. The host to which you need to connect is bandit.labs.overthewire.org, on port 2220. The username is bandit0 and the password is bandit0

```
(base) abhay@Tanmays-MacBook-Air ~ % ssh bandit0@bandit.labs.overthewire.org -p 2220
The authenticity of host '[bandit.labs.overthewire.org]:2220 ([16.16.163.126]:2220)' can't be established.
ED25519 key fingerprint is SHA256:C2ihUBV7ihnV1wUXRb4RrEcLfXC5CXlhAAM/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.
```



2) Bandit Level 0 → Level 1:

The password for the next level is stored in a file called readme located in the home directory.

```
[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
```

Password: ZjLjTmM6FvvyRnrb2rfNWOZOTa6ip5If

```
[base] abhay@Tanmays-MacBook-Air ~ % ssh bandit1@bandit.labs.overthewire.org -p 2220
```



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

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



```
Welcome to OverTheWire!
```

3) Bandit Level 1 → Level 2:

The Filename is - so to access it we use ./-

```
[bandit1@bandit:~$ ls  
-[bandit1@bandit:~$ cat .-/  
263JGJPfgU6LtdEvgfWU1XP5yac29mFx  
bandit1@bandit:~$
```

Password: 263JGJPfgU6LtdEvgfWU1XP5yac29mFx

4) Bandit Level 2 → Level 3:

```
[bandit2@bandit:~$ ls  
spaces in this filename  
[bandit2@bandit:~$ cat "spaces in this filename"  
MNk8KNH3Usio41PRUEoDFPqfxLP1Smx  
bandit2@bandit:~$ ]
```

Password: MNk8KNH3Usii041PRUEoDFPqfxLPISmx

5) Bandit Level 3→ Level 4:

```
[bandit3@bandit:~$ ls
inhere
[bandit3@bandit:~$ cd inhere
[bandit3@bandit:~/inhere$ ls
[bandit3@bandit:~/inhere$ ls -a
. .. ...Hiding-From-You
[bandit3@bandit:~/inhere$ cat ...Hiding-From-You
2WmrDFRmJIq3IPxneAaMGhap0pFhF3NJ
bandit3@bandit:~/inhere$
```

Password: 2WmrDFRmJlg3IPxneAaMGhap0pFhE3NJ

6) Bandit Level 4→ Level 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$ ls -a
. .. -file00 -file01 -file02 -file03 -file04 -file05 -file06 -file07 -file08 -file09
[bandit4@bandit:~/inhere$ cat ./-file00
?p??&?y,,?(jo?.at?:uf?^??@bandit4@bandit:~/inhere$ cat ./-file01
i?R?,?A?:Y??????%A????B??@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
4oQYVPKxZ00E005pTW81FB8j81xXGUQw
```

Password: 4oQYVPkxZOOEOO5pTW81FB8j8lxXGUQw

7) Bandit Level 5 → Level 6:

```
[base] abhay@Tanmays-MacBook-Air ~ % ssh bandit5@bandit.labs.overthewire.org -p 2220
```



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

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



```
Welcome to OverTheWire!
```

```
[bandit5@bandit:~$ ls  
inhere  
[bandit5@bandit:~$ cd inhere  
[bandit5@bandit:~/inhere$ ls  
maybehere00  maybehere03  maybehere06  maybehere09  maybehere12  maybehere15  maybehere18  
maybehere01  maybehere04  maybehere07  maybehere10  maybehere13  maybehere16  maybehere19  
maybehere02  maybehere05  maybehere08  maybehere11  maybehere14  maybehere17  
[bandit5@bandit:~/inhere$ find . -type f -size 1033c ! -executable  
.maybehere07/.file2  
[bandit5@bandit:~/inhere$ cat ./maybehere07/.file2  
HWasnPhtq9AVKe0dmk45nxy20cvUa6EG
```

Password: HWasnPhtq9AVKe0dmk45nxy20cvUa6EG

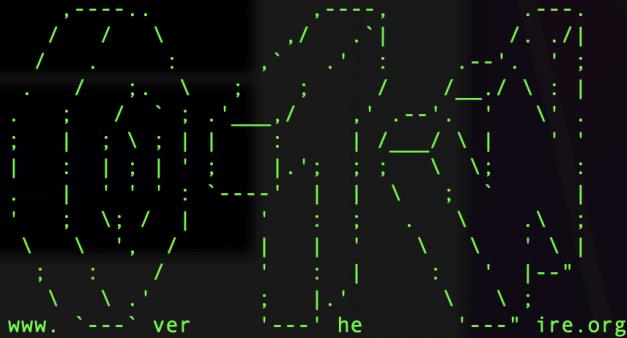
8) Bandit Level 6 → Level 7:

```
(base) abhay@Tanmays-MacBook-Air ~ % 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:
```



```
Welcome to OverTheWire!
```

```
[bandit6@bandit:~$ ls  
[bandit6@bandit:~$ find / -user bandit7 -group bandit6 -size 33c  
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/2626086/task/2626086/fd/6': No such file or directory  
find: '/proc/2626086/task/2626086/fdinfo/6': No such file or directory  
find: '/proc/2626086/fd/5': No such file or directory  
find: '/proc/2626086/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: '/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
```

```
[bandit6@bandit:~$ cat /var/lib/dpkg/info/bandit7.password
morbNTDkSW6jIlUc0ymOdMaLn0lFVAaj
```

To suppress the permission denied outputs: we use 2>/dev/null

```
[bandit6@bandit:~$ find / -user bandit7 -group bandit6 -size 33c 2>/dev/null
/var/lib/dpkg/info/bandit7.password
[bandit6@bandit:~$ cat /var/lib/dpkg/info/bandit7.password
morbNTDkSW6jIlUc0ymOdMaLn0lFVAaj
bandit6@bandit:~$ ]
```

Password: morbNTDkSW6jIlUc0ymOdMaLn0lFVAaj

9) Bandit Level 7 → Level 8:

```
[bandit7@bandit:~$ ls  
data.txt  
[bandit7@bandit:~$ grep "millionth" data.txt  
millionth      dfwvzFQi4mU0wfNbF0e9RoWskMLg7eEc  
bandit7@bandit:~$
```

Password: dfwvzFQi4mU0wfNbFOe9RoWskMLq7eEc

10) Bandit Level 8 → Level 9:

uniq options:

- c: Count and show how many times each line appears.
- d: Show only duplicate lines.
- u: Show only unique lines.

```
[bandit8@bandit:~$ ls  
data.txt  
[bandit8@bandit:~$ sort data.txt | uniq -u  
4CKMh1JI91bUIZZPXDqGanal4xvAg0JM
```

Password: 4CKMh1JI91bUIZZPXDqGanal4xvAg0JM

11) Bandit Level 9 → Level 10:

```
(base) abhay@Tanmays-MacBook-Air ~ % ssh bandit9@bandit.labs.overthewire.org -p 2220
```



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

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



```
Welcome to OverTheWire!
```

```
[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=@
69}=
%"=Y
=tZ~07
D9===== FGUW5iLVJrxX9kMYMmlN4MgbpfMiqey
N=~[!N
zA=?0j
```

```
bandit9@bandit:~$ strings data.txt | grep "=.*"
}===== the
p\l=
;c<Q=.dEXU!
3JprD===== passwordi
qC(=
~fDV3===== is
7=oc
zP=
~de=
3k=fQ
~o=@
69}=
%"=Y
=tZ~07
D9===== FGUW5iLVJrxX9kMYMmlN4MgbpfMiqey
N=~[!N
zA=?0j
bandit9@bandit:~$
```

Password: FGUW5iLVJrxX9kMYMmlN4MgbpfMiqey

12) Bandit Level 10 → Level 11:

```
[base] abhay@Tanmays-MacBook-Air ~ % ssh bandit10@bandit.labs.overthewire.org -p 2220
[bandit10@bandit:~]$ cat /etc/motd
This is an OverTheWire game server.
More information on http://www.overthewire.org/wargames

[bandit10@bandit:~]$ whoami
bandit10

[bandit10@bandit:~]$ cat /etc/passwd | grep bandit10
bandit10:x:1000:1000:bandit10:/home/bandit10:/bin/bash

[bandit10@bandit:~]$ cat /etc/group | grep bandit10
bandit10:x:1000:bandit10

[bandit10@bandit:~]$ id
uid=1000(bandit10) gid=1000(bandit10) groups=1000(bandit10)

[bandit10@bandit:~]$ cd /home/bandit10
[bandit10@bandit:~]$ ls
data.txt

[bandit10@bandit:~]$ cat data.txt
www.---ver---he---ire.org

[bandit10@bandit:~]$ echo "Welcome to OverTheWire!" > /etc/motd

[bandit10@bandit:~]$ cat /etc/motd
Welcome to OverTheWire!
```

```
[bandit10@bandit:~$ ls
data.txt
[bandit10@bandit:~$ base64 -d data.txt
The password is dtR173fZKb0RRsDFSGsg2RWnpNVj3qRr
[bandit10@bandit:~$
```

Password: dtR173fZKb0RRsDFSGsg2RWnpNVj3qRr

13) Bandit Level 11 → Level 12:

```
[bandit11@bandit:~$ cat data.txt | tr 'A-Za-z' 'N-ZA-Mn-za-m'  
The password is 7x16WNeHIi5YKIHwsfFIqoognUTyj9Q4  
bandit11@bandit:~$
```

Password: 7x16WNeHli5YkIhWsfFIqoognUTyj9Q4

14) Bandit Level 12 → Level 13:

```
[bandit12@bandit:~$ mkdir /tmp/tanmay
[bandit12@bandit:~$ cd /tmp/tanmay
[bandit12@bandit:/tmp/tanmay$ ls
[bandit12@bandit:/tmp/tanmay$ cp ~/data.txt .
[bandit12@bandit:/tmp/tanmay$ ls
data.txt
[bandit12@bandit:/tmp/tanmay$ mv data.txt data
[bandit12@bandit:/tmp/tanmay$ ls
data
[bandit12@bandit:/tmp/tanmay$ xxd -r data > new_data
[bandit12@bandit:/tmp/tanmay$ ls
data new_data
[bandit12@bandit:/tmp/tanmay$ file new_data
new_data: gzip compressed data, was "data2.bin", last modified: Thu Sep 19 07:08
:15 2024, max compression, from Unix, original size modulo 2^32 574
[bandit12@bandit:/tmp/tanmay$ ls
data new_data
[bandit12@bandit:/tmp/tanmay$ mv new_data new_data.gz
[bandit12@bandit:/tmp/tanmay$ ls
data new_data.gz
[bandit12@bandit:/tmp/tanmay$ gzip -d new_data.gz
[bandit12@bandit:/tmp/tanmay$ ls
data new_data
[bandit12@bandit:/tmp/tanmay$ file new_data
```

```
[bandit12@bandit:/tmp/tanmay$ file new_data
new_data: bzip2 compressed data, block size = 900k
[bandit12@bandit:/tmp/tanmay$ ls
data new_data
[bandit12@bandit:/tmp/tanmay$ bzip2 -d new_data
bzip2: Can't guess original name for new_data -- using new_data.out
[bandit12@bandit:/tmp/tanmay$ ls
data new_data.out
[bandit12@bandit:/tmp/tanmay$ file new_data.out
new_data.out: gzip compressed data, was "data4.bin", last modified: Thu Sep 19 0
7:08:15 2024, max compression, from Unix, original size modulo 2^32 20480
[bandit12@bandit:/tmp/tanmay$ ls
data new_data.out
[bandit12@bandit:/tmp/tanmay$ file new_data.out
new_data.out: gzip compressed data, was "data4.bin", last modified: Thu Sep 19 0
7:08:15 2024, max compression, from Unix, original size modulo 2^32 20480
[bandit12@bandit:/tmp/tanmay$ mv new_data.out new_data.gz
[bandit12@bandit:/tmp/tanmay$ ls
data new_data.gz
[bandit12@bandit:/tmp/tanmay$ gzip -d new_data.gz
[bandit12@bandit:/tmp/tanmay$ ls
data new_data
[bandit12@bandit:/tmp/tanmay$ file new_data
new_data: POSIX tar archive (GNU)
```

```
[bandit12@bandit:/tmp/tanmay$ file new_data
new_data: POSIX tar archive (GNU)
[bandit12@bandit:/tmp/tanmay$ tar -xf new_data
[bandit12@bandit:/tmp/tanmay$ ls
data data5.bin new_data
[bandit12@bandit:/tmp/tanmay$ file data5.bin
data5.bin: POSIX tar archive (GNU)
[bandit12@bandit:/tmp/tanmay$ tar -xf data5.bin
[bandit12@bandit:/tmp/tanmay$ ls
data data5.bin data6.bin new_data
[bandit12@bandit:/tmp/tanmay$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
[bandit12@bandit:/tmp/tanmay$ bzip2 -d data6.bin
bzip2: Can't guess original name for data6.bin -- using data6.bin.out
[bandit12@bandit:/tmp/tanmay$ ls
data data5.bin data6.bin.out new_data
[bandit12@bandit:/tmp/tanmay$ file data6.bin.out
data6.bin.out: POSIX tar archive (GNU)
[bandit12@bandit:/tmp/tanmay$ ls
data data5.bin data6.bin.out new_data
[bandit12@bandit:/tmp/tanmay$ rm data.txt
rm: cannot remove 'data.txt': No such file or directory
[bandit12@bandit:/tmp/tanmay$ rm data
[bandit12@bandit:/tmp/tanmay$ rm new_data
```

```
[bandit12@bandit:/tmp/tanmay$ rm data.txt
rm: cannot remove 'data.txt': No such file or directory
[bandit12@bandit:/tmp/tanmay$ rm data
[bandit12@bandit:/tmp/tanmay$ rm new_data
[bandit12@bandit:/tmp/tanmay$ rm data5.bin
[bandit12@bandit:/tmp/tanmay$ ls
data6.bin.out
[bandit12@bandit:/tmp/tanmay$ tar -xf data6.bin.out
[bandit12@bandit:/tmp/tanmay$ ls
data6.bin.out data8.bin
[bandit12@bandit:/tmp/tanmay$ file data8.bin
data8.bin: gzip compressed data, was "data9.bin", last modified: Thu Sep 19 07:0
8:15 2024, max compression, from Unix, original size modulo 2^32 49
[bandit12@bandit:/tmp/tanmay$ mv data8.bin data8.gz
[bandit12@bandit:/tmp/tanmay$ ls
data6.bin.out data8.gz
[bandit12@bandit:/tmp/tanmay$ gzip -d data8.gz
[bandit12@bandit:/tmp/tanmay$ ls
data6.bin.out data8
[bandit12@bandit:/tmp/tanmay$ file data8
data8: ASCII text
[bandit12@bandit:/tmp/tanmay$ cat data8
The password is F05dwFsc0cbaIiH0h8J2eUks2vdTDwAn
[bandit12@bandit:/tmp/tanmay$
```

Password: FO5dwFsc0cbaliH0h8J2eUks2vdTDwAn

15) Bandit Level 13 → Level 14:

```
[bandit14@bandit:~$ cat /etc/bandit_pass/bandit14  
MU4VWeTyJk8R0of1qqmcBPaLh7lDCPvS  
bandit14@bandit:~$ ]
```

Password: MU4VWeTyJk8ROof1qgmcBPaLh7IDCPvS