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# **COGNIZANCE TASK 5**

**Amrita School of Engineering**

**Chennai**

## LEVEL-0

```
mohith@mohith-VirtualBox:~$ ssh bandit0@bandit.labs.overthewire.org -p 2220
The authenticity of host '[bandit.labs.overthewire.org]:2220 ([176.9.9.172]:2220)' can't be established.
ECDSA key fingerprint is SHA256:98UL0ZWr85496EtCRkKlo20X30PnyPSB5tB5RPbhczc.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '[bandit.labs.overthewire.org]:2220,[176.9.9.172]:2220' (ECDSA) to the list of known hosts.
```

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

bandit0@bandit.labs.overthewire.org's password:  
Linux bandit.otw.local 5.4.8 x86\_64 GNU/Linux



www.OverTheWire.org

For your convenience we have installed a few usefull tools which you can find in the following locations:

- \* 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 [#wargames](irc://irc.overthewire.org).

Enjoy your stay!

```
bandit0@bandit:~$ ls
readme
bandit0@bandit:~$ cat readme
boJ9jbbUNNfktd7800psq0ltutMc3MY1
bandit0@bandit:~$
```



## LEVEL-2

```
monlth@monlth-VirtualBox:~$ ssh bandit2@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
```

```
bandit2@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```

Welcome to OverTheWire!

Enjoy your stay!

```
bandit2@bandit:~$ l
-bash: l: command not found
bandit2@bandit:~$ ls
spaces in this filename
bandit2@bandit:~$ cat 'spaces in this filename'
UmHadQclWmgdLOKQ3YNggjWxGoRmb5luK
bandit2@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
```

## LEVEL-3

```
mohith@mohith-VirtualBox:~$ ssh bandit3@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames

bandit3@bandit.labs.overthewire.org's password:
Permission denied, please try again.
bandit3@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux

      .--.  .--.  .--.
     /  /  /  /  /  /
    /  /  /  /  /  /
   /  /  /  /  /  /
  /  /  /  /  /  /
 /  /  /  /  /  /
/  /  /  /  /  /
```

```
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$ exit
logout
Connection to bandit.labs.overthewire.org closed.
mohith@mohith-VirtualBox:~$ ssh bandit0@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames

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

## LEVEL-4

```
mohith@mohith-VirtualBox:~$ ssh bandit4@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
```

```
bandit4@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```

```
bandit4@bandit:~$ LS
-bash: LS: command not found
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$ find . -type f | xargs file
./-file01: data
./-file00: data
./-file06: data
./-file03: data
./-file05: data
./-file08: data
./-file04: data
./-file07: ASCII text
./-file02: data
./-file09: data
bandit4@bandit:~/inhere$ man xargs
bandit4@bandit:~/inhere$ cat ./-file07
koReBOKuIDDepwhWk7jZC0RTdopnAYKh
bandit4@bandit:~/inhere$ exit
logout
Connection to bandit.labs.overthewire.org closed.
mohith@mohith-VirtualBox:~$ ssh bandit5@bandit.labs.overthewire.org -p 2220
```

## LEVEL-5

```
mohith@mohith-VirtualBox:~$ ssh bandit5@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
```

```
bandit5@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```

The logo consists of the words "OverTheWire" in a stylized, blocky font made of ASCII characters. Below the main text, the website address "www.overthewire.org" is written in a smaller, similar font.

```
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
DXjZPULLxYr17uwoI01bNLQbtFemEgo7
```

```
bandit5@bandit:~/inhere$ exit
logout
Connection to bandit.labs.overthewire.org closed.
mohith@mohith-VirtualBox:~$
```

## LEVEL-6

```
mohith@mohith-VirtualBox:~$ ssh bandit6@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
```

```
bandit6@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```

Enjoy your stay!

```
bandit6@bandit:~$ ls
bandit6@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  .profile
bandit6@bandit:~$ find / -type f -user bandit7 -group bandit6 -size 33c
find: '/root': Permission denied
find: '/home/bandit28-git': Permission denied
find: '/home/bandit30-git': Permission denied
find: '/home/bandit5/inhere': Permission denied
find: '/home/bandit27-git': Permission denied
find: '/home/bandit29-git': Permission denied
find: '/home/bandit31-git': Permission denied
find: '/lost+found': Permission denied
find: '/etc/ssl/private': Permission denied
find: '/etc/polkit-1/localauthority': Permission denied
find: '/etc/lvm/archive': Permission denied
find: '/etc/lvm/backup': Permission denied
```

```
find: '/var/cmp': Permission denied
find: '/var/lib/apt/lists/partial': Permission denied
find: '/var/lib/polkit-1': Permission denied
/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:~$ cat /var/lib/dpkg/info/bandit7.password
HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs
bandit6@bandit:~$ ssh bandit1@bandit.labs.overthewire.org -p 2220
^C
```



## LEVEL-7

```
Antigua dRyNieqAg00kCgrKVQFXMXS06vFARL55
heyday UAGwMlFzylGa4fHpQZEelUQEZ5JlUpyX
praiseworthiness's bJR80uGXM4dH7ip9hHB3mbFBMMwlnKNq
separatism p2167YTCJseAv4YhLZNb2fs7JivLDLUW
plan PLz4ZXwX02fEe4oMd1I78wQXL4MIMxTf
confrontation KLHScgMgzyBQYxBXkxsjKcQ2A5erDIjL
briquet's aHc51xHj1t3ANF7jH26dd7mHWBfd8VKz
encapsulate STOVYQEMWtFz54JtjJRrhDXgZcfVw8lS
wildfowls PqcMofjmKj8NBv09exdu7FY2NG6WUMzb
Finland xgXsIYgqUCMrIMoT7W2dSwTG1DCvbRvU
bandit7@bandit:~$ strings data.txt | grep "millionth"
millionth cvX2JJJa4CFAltqS87jk27qwqGhBM9pLV
bandit7@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
```

## LEVEL-8

```
mohith@mohith-VirtualBox:~$ ssh bandit8@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
```

```
bandit8@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```



The image shows an ASCII art logo for OverTheWire.org. The text "OverTheWire.org" is rendered in a stylized, blocky font using only characters like dots, dashes, and underscores. Below the main text, the website address "www.overthewire.org" is written in a smaller, simpler font.

```
bandit8@bandit:~$ sort data.txt | uniq -c
10 07KC3ukwX7kswl8Le9ebb3H3s0oNTsR2
10 0efnqHY1ZTNRu4LsDX4D73DsxIQq7RuJ
10 0N65ZPpNGkUJePzFxctCRZRXXVrCbUGfm
10 0Xo6DLyK5izRqEtBA7sw2SRmLAixWYSg
10 10XitczY5Dz7UMoseKIEFWsZzwQrylfw
10 1ETSsKgjfQj1cJeFzXLJWzKzza3iWcJa
10 1T6qw9I32d71cS3TTvwmVp1WsxPFDJ9I
10 2bFz9F0yRwxGzVCZ4Er04bk00qfUrzWb
10 2CxmtCkpNL5ZjuoNzAtShkPXF5T43W7s
10 337o85y40ymIh99WPUtotkb114evfAkC
10 33xpPQhjt4Q2mqtX4sCVRwH2Zyh82E8R
10 4SMqyZZztep75cte6xxKpVL49pKUKV8N
10 5AdqWjoJOEdx5tJmZVBMo0K2e4arD3ZW
10 5c08XuoQWrzsye0WDht8zgUIVWSRDaeC
10 6PF22p608TphCTZot9ApZx8VfGuo8rd5
```



Enjoy your stay!

```
bandit9@bandit:~$ LS
-bash: LS: command not found
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&^
```

## LEVEL-10

```
mohith@mohith-VirtualBox:~$ ssh bandit10@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
```

```
bandit10@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```

The logo consists of the words "OverTheWire" in a stylized, blocky font. The letters are composed of various symbols like dots, slashes, and backslashes, giving it a digital or "hacker" aesthetic. Below the main text, the website address "www.overthewire.org" is written in a smaller, simpler font.

Welcome to OverTheWire!

Enjoy your stay!

```
bandit10@bandit:~$ ls
data.txt
bandit10@bandit:~$ cat data.txt
VGhlIHh3b3R3IGlzIElGdWt3S0dzRlc4TU9xM0lSRnFyeEUxaHhUTkViVVBSCg==
bandit10@bandit:~$ base64 -d data.txt
The password is IFukwKGsFW8M0q3IRFqrxE1hXTNEbUPR
bandit10@bandit:~$
```



## LEVEL-12

```
mohith@mohith-VirtualBox:~$ ssh bandit12@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
```

```
bandit12@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```

```

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     /  /  /  /  /  /
    /  /  /  /  /  /
   /  /  /  /  /  /
  /  /  /  /  /  /
 /  /  /  /  /  /
/  /  /  /  /  /

```

Enjoy your stay!

```
bandit12@bandit:~$ mkdir /tmp/alexis
mkdir: cannot create directory '/tmp/alexis': File exists
bandit12@bandit:~$ cp data.txt /tmp/alexis
bandit12@bandit:~$ cd /tmp/alexis
bandit12@bandit:/tmp/alexis$ xxd -r data.txt > data
bandit12@bandit:/tmp/alexis$ ls
data data.txt file.gz file.gz file.gzip file.tar
bandit12@bandit:/tmp/alexis$ file data
data: gzip compressed data, was "data2.bin", last modified: Thu May  7 18:14:30 2020, max compression, from Unix
bandit12@bandit:/tmp/alexis$ mv data file.gz
bandit12@bandit:/tmp/alexis$ gzip -d file.gz
bandit12@bandit:/tmp/alexis$ ls
data.txt file file.gz file.gzip file.tar
bandit12@bandit:/tmp/alexis$ mv file file.bz2
bandit12@bandit:/tmp/alexis$ ls
data.txt file.bz2 file.gz file.gzip file.tar
bandit12@bandit:/tmp/alexis$ bzip2 -d file.bz2
bandit12@bandit:/tmp/alexis$ ls
data.txt file file.gz file.gzip file.tar
bandit12@bandit:/tmp/alexis$ mv file file.gz
bandit12@bandit:/tmp/alexis$ gzip -d file.gz
bandit12@bandit:/tmp/alexis$ mv file file.tar
bandit12@bandit:/tmp/alexis$ tar xf file.tar
bandit12@bandit:/tmp/alexis$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/alexis$ rm file.tar
bandit12@bandit:/tmp/alexis$ rm data
rm: cannot remove 'data': No such file or directory
bandit12@bandit:/tmp/alexis$ rm data.txt
bandit12@bandit:/tmp/alexis$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/alexis$ mv data5.bin data.tar
bandit12@bandit:/tmp/alexis$ tar xf data.tar
bandit12@bandit:/tmp/alexis$ ls
data6.bin data.tar file.gz file.gzip file.tar
bandit12@bandit:/tmp/alexis$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/alexis$ mv data6.bin data.bz2
bandit12@bandit:/tmp/alexis$ file data
data: cannot open 'data' (No such file or directory)
```