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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-1

**Password: boJ9jbbUNNfktd78OOpsqOltutMc3MY1**

```
mohith@mohith-VirtualBox:~$ ssh bandit1@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames

bandit1@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```



```
www.OverTheWire.org

Welcome to OverTheWire!

If you find any problems, please report them to Steven or morla on
irc.overthewire.org.
```

```
bandit1@bandit:~$ LS
-bash: LS: command not found
bandit1@bandit:~$ ls
-
bandit1@bandit:~$ ls -a
- . .. .bash_logout .bashrc .profile
bandit1@bandit:~$ cat ./-
CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9
bandit1@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
```

## LEVEL-2

**Password: CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9**

```
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'
UmHadQclWmgdLOKQ3YNgjWxGorMb5lUk
bandit2@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
```

## LEVEL-3

Password: UmHadQclWmgdLOKQ3YNgjWxGoRMB5luK

```
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

Password: plwrPrtPN36QITSp3EQaw936yaFoFgAB

```
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
```



www.OverTheWire.org

```
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

**Password: koReBOKulDDepwhWk7jZC0RTdopnAYKh**

[illegible]

```
bandit5@bandit:~$ ls
inhere
bandit5@bandit:~$ cd inhere
bandit5@bandit:~/inhere$ ls
maybeh ere00  maybeh ere03  maybeh ere06  maybeh ere09  maybeh ere12  maybeh ere15  maybeh ere18
maybeh ere01  maybeh ere04  maybeh ere07  maybeh ere10  maybeh ere13  maybeh ere16  maybeh ere19
maybeh ere02  maybeh ere05  maybeh ere08  maybeh ere11  maybeh ere14  maybeh ere17
bandit5@bandit:~/inhere$ find . -type f -size 1033c ! -executable
./maybeh ere07/.file2
bandit5@bandit:~/inhere$ cat ./maybeh ere07/.file2
DXjZPULLxYr17uwoI01bNLQbtFemEgo7

bandit5@bandit:~/inhere$ exit

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

## LEVEL-6

**Password: DXjZPULLxYr17uwol01bNLQbtFemEgo7**

```
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
```

A large ASCII art logo for OverTheWire.org. The word "OverTheWire" is rendered in a stylized font where each letter is composed of multiple overlapping patterns of slashes (/), backslashes (\), vertical bars (|), and semicolons (;). Below the main text, the website address "www.overthewire.org" is displayed in a smaller, simpler font.

www.overthewire.org

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/lib/...': 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

Password: HKBPTKQnlay4Fw76bEy8PVxKEDQRKTzs

```
Antigua dRyNieqAg00kCgrKVQFXMXS06vFARL55
heyday UAGwMlFzylGa4fHpQZEelUQEZ5JlUpyX
praiseworthiness's bjRB0uGXM4dH7ip9hHB3mbFBMMwLNKNq
separatism p2167YTCJseAv4YhLZNb2fs7JivLDLUW
plan PLz4ZXwX02fEe4oMd1I78wQXL4MIMxTf
confrontation KLHScgMgzyBQYxBXkxsjKcQ2A5erDIjL
briquet's aHc51xHj1t3ANF7jH26dd7mHWBfd8VKz
encapsulate STOVYQEMWtFz54JtjJRrhdXgZcfVw8lS
wildfowls PqcMofjmKj8NBvO9exdu7FY2NG6WUMzb
Finland xgXsIYgqUCMrIMoT7W2dSwTG1DCvbRvU
bandit7@bandit:~$ strings data.txt | grep "millionth"
millionth cvX2JJa4CFALtqS87jk27qwqGhBM9plV
bandit7@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
```

## LEVEL-8

Password: cvX2JJa4CFALtqS87jk27qwqGhBM9plV

```
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
```



www. ver he ire.org

```
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

Password: truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk

```
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 image shows an ASCII art logo for OverTheWire. The words "OverTheWire" are rendered in a stylized, blocky font using various symbols like dots, slashes, and backslashes. 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
VGhlIHh3b3R0o3a5HQJFuLk
bandit10@bandit:~$ base64 -d data.txt
The password is IFukwKGsFW8M0q3IRFqrxE1hXTNEbUPR
bandit10@bandit:~$
```

## LEVEL-11

**Password: IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR**

```
mohith@mohith-VirtualBox:~$ ssh bandit11@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames

bandit11@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```

```
bandit11@bandit:~$ ls
data.txt
bandit11@bandit:~$ cat data.txt
Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHh
bandit11@bandit:~$
```

## Input

```
length: 49
lines: 2
```

Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHh

### Output

```
time: 1ms
length: 49
lines: 2
```

The password is 5Te8Y4drgCRfCx8ugdWuEX8KFC6k2EUu

## LEVEL-12

**Password: 8ZjyCRiBWFYkneahHwx Cv3wb2a1ORpYL**

```
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
```


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)
```

**Password: BfMYroe26WYalil77FoDi9qh59eK5xNr**

```
mohith@mohith-VirtualBox:~$ ssh bandit13@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames

bandit13@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```



```
www. ver he " ire.org
```

```
Welcome to OverTheWire!
```

```

Enjoy your stay!

bandit14@bandit:~$ cd /etc
bandit14@bandit:/etc$ cd ./bandit_pass/bandit14
-bash: cd: ./bandit_pass/bandit14: Not a directory
bandit14@bandit:/etc$ cd ./bandit_pass
bandit14@bandit:/etc/bandit_pass$ cat bandit14
4wcYUJFw0k0XLSHldZztnTBHlqxU3b3e
bandit14@bandit:/etc/bandit_pass$

```

Password: BfMYroe26WYalil77FoDi9qh59eK5xN