

# COGNIZANCE CLUB

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## TASK-7

OVER THE WIRE WARGAMES

*BANDIT LEVEL 0 TO 15*

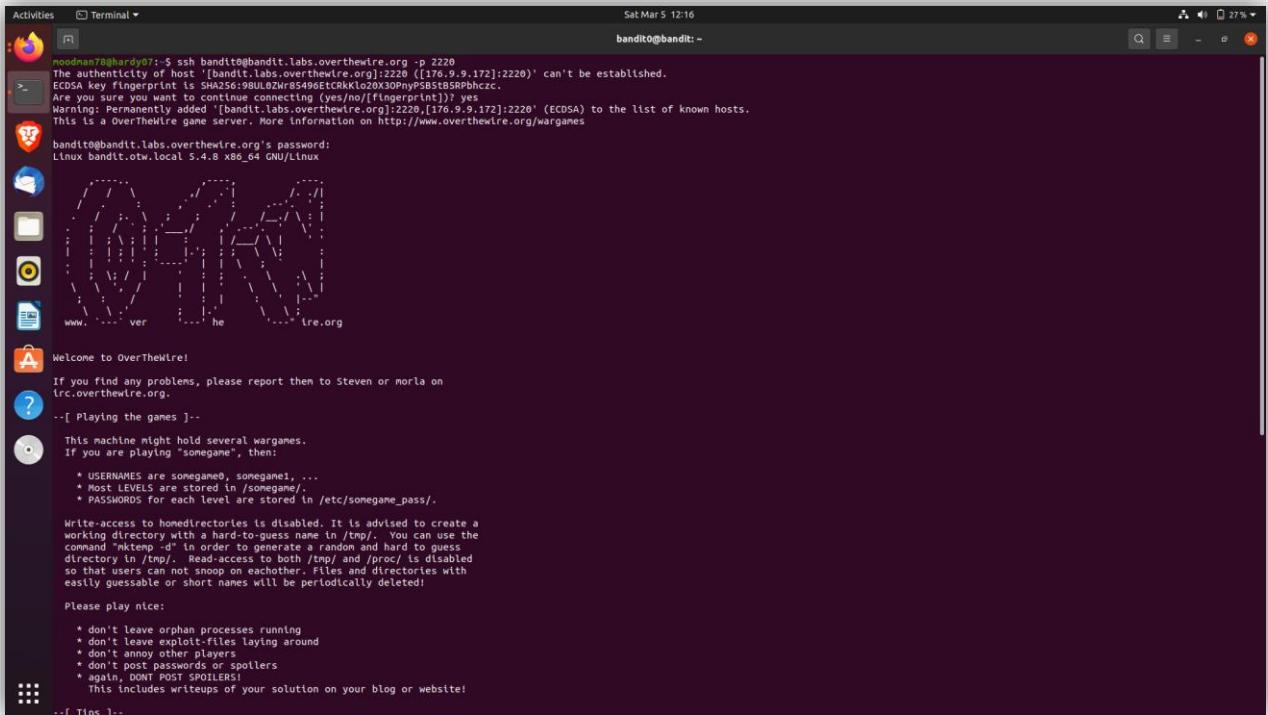
BY

Sakthivel V

## 1) Level 0(Logging into the game using SSH)

Username = **bandit0**

Password = **bandit0**



The screenshot shows a Linux desktop environment with a terminal window open. The terminal window title is "Terminal" and the status bar shows "Sat Mar 5 12:16". The command entered was "ssh bandit0@bandit.labs.overthewire.org -p 2220". The response indicates that the host key fingerprint has changed and asks if the user wants to continue connecting. The user responds "yes". The terminal then prompts for the password "bandit0@bandit.labs.overthewire.org's password:". The user enters the password "bandit0". The terminal then displays a welcome message from OverTheWire, which includes instructions for reporting problems, information about wargames, and tips for playing nicely. The terminal window is set against a background of a desktop environment with icons for a file manager, terminal, and other applications.

```
noobman78@hardy07: $ ssh bandit0@bandit.labs.overthewire.org:2220 ([176.9.9.172]:2220) can't be established.
The authenticity of host '[bandit.labs.overthewire.org]:2220 ([176.9.9.172]:2220)' can't be established.
ECDSA key fingerprint is SHA256:30:9B:0A:2D:85:85:CB:4C:4E:4F:4C:4B:4C:4B:4C
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 an OverTheWire game server. More information on http://www.overthewire.org/wargames
bandit0@bandit.labs.overthewire.org's password:
Linux bandit0.local 5.4.8 x86_64 GNU/Linux

[Icons: file manager, terminal, etc]

www. .... ver ..... he ..... ire.org

[A] Welcome to OverTheWire!
If you find any problems, please report them to Steven or m0rta on
trc.overthewire.org.
[?] --[ Playing the games ]--
[D] 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 long random name in /tmp/. You can use the
command "mktemp" in order to generate a randomised temporary
directory in /tmp/. Read-access to both /tmp/ and /proc/ is disabled
so that users can not snoop on eachother. Files and directories with
easily guessable or short names will be periodically deleted!

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!
--[ Tims ]--
```

## 2) Level 0 to 1 (Password = boJ9jbbUNNfktd78OOpsqOltutMc3MY1)

```
Activities Terminal ▾
bandit0@bandit:~$ ssh bandit0@bandit.labs.overthewire.org -p 2220
The authenticity of host 'bandit.labs.overthewire.org' ([176.9.9.172]:2220) can't be established.
ECDSA key fingerprint is SHA256:98ULQZh85496ETCRKkLo20X30npyPS8t8RPhcZc.
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

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

--[ Playing the games ]--

This machine might hold several wargames.
If you are playing "somegame", then:
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* PASSWORDS for each level are stored in /etc/somegame_pass/.

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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/ and /proc/ is disabled
so that users can not snoop on eachother. Files and directories with
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* don't post passwords or spoilers
* again, DONT POST SPOILERS!
  This includes writeups of your solution on your blog or website!
```

```
compiler flags might be interesting:
  -m32          compile for 32bit
  -fno-stack-protector  disable ProPolice
  -Wl,-z,norelo  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 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
irc.overthewire.org #wargames.

Enjoy your stay!

bandit0@bandit:~$ ls
readme
bandit0@bandit:~$ cat readme
boJ9jbbUNNfktd78OOpsqOltutMc3MY1
bandit0@bandit:~$
```

### 3) Level 1 to 2>Password = **CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9**

A screenshot of a terminal window titled "Terminal". The window shows a session on a bandit user account. The terminal output includes:

```
Activities Terminal
moodman78@hardy07:~$ ssh banditi@bandit.labs.overthewire.org -p 2220
This is an OverTheWire game server. More information on http://www.overthewire.org/wargames
>_
banditi@bandit.labs.overthewire.org's password:
Linux bandit.owt.local 5.4.8 x86_64 GNU/Linux

Welcome to OverTheWire!
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--[ Playing the games ]--
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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
directory in /tmp/. Read-access to both /tmp/ and /proc/ is disabled
so that users can not snoop on eachother. Files and directories with
easily guessable or short names will be periodically deleted!

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* don't leave orphan processes running
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* 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:
```

A screenshot of a terminal window titled "Terminal". The window shows a session on a bandit user account. The terminal output includes:

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* radare2 (http://www.radare.org/)
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Enjoy your stay!

banditi@bandit:~$ ls
banditi@bandit:~$ cat -
^C
banditi@bandit:~$ ls -
banditi@bandit:~$ cat < -
CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9
banditi@bandit:~$
```

#### 4) Level 2 to 3>Password = [UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK](#)

```
moodman78@hardy07:~$ 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

A ? 
[...]
www. ver he ire.org

Welcome to OverTheWire!
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irc.overthewire.org.

--[ Playing the games ]--
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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
```

```
Activities Terminal ▾
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--[ Tips ]--
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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
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Enjoy your stay!

bandit2@bandit:~$ ls
spaces in this filename
bandit2@bandit:~$ cat spaces in the filename
cat: spaces: No such file or directory
cat: in: No such file or directory
cat: the: No such file or directory
cat: filename: No such file or directory
bandit2@bandit:~$ cat 'spaces in the filename'
cat: 'spaces in the filename': No such file or directory
bandit2@bandit:~$ cat spaces\ in\ the\ filename
cat: 'spaces in the filename': No such file or directory
bandit2@bandit:~$ cat spaces in this filename
bandit2@bandit:~$ UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK
bandit2@bandit:~$
```

## 5) Level 3 to 4(password = pIwrPrtPN36QITSp3EQaw936yaFoFgAB)

```
moodman78@hardy07:~$ ssh bandit3@bandit.labs.overthewire.org -p 2220
This is an OverTheWire game server. More information on http://www.overthewire.org/wargames
bandit3@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux

[REDACTED]
www. ....ver   he   ...."ire.org

Welcome to OverTheWire!
? If you find any problems, please report them to Steven or morla on
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--[ Playing the games ]--

This machine might hold several wargames.
If you are playing "somegame", then:
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* 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
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This includes writeups of your solution on your blog or website!
```

```
Activities Terminal ▾
[REDACTED]
* don't leave orphan processes running
* don't leave exploit-files laying around
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* don't post passwords or spoilers
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Enjoy your stay!

bandit3@bandit:~$ ls -a
. . . bash_logout .bashrc inhere .profile
bandit3@bandit:~$ cd inhere
bandit3@bandit:~/inhere$ ls
bandit3@bandit:~/inhere$ ls -a
. . . hidden
bandit3@bandit:~/inhere$ cat .hidden
pIwrPrtPN36QITSp3EQaw936yaFoFgAB
bandit3@bandit:~/inhere$
```

6) Level 4 to 5(Password = koReBOKuIDDepwhWk7jZC0RTdopnAYKh)

```
Activities Terminal ▾ bandit

firewall.
--[ Tools ]--
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/
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Enjoy your stay!

A bandit4@bandit:~$ ls
inhere
bandit4@bandit:~$ ls -a
. . . .bash_logout .bashrc inhere .profile
bandit4@bandit:~$ cd inhere
bandit4@bandit:~/inhere$ ls
-file00 -file01 -file02 -file03 -file04 -file05 -file06 -file07 -file08 -file09
bandit4@bandit:~/inhere$ cat < -file00
cat: invalid option -- 'f'
Try 'cat --help' for more information.
bandit4@bandit:~/inhere$ cat < -file00
/*?2%o%oR-L%g***o*****bandit4@bandit:~/inhere$ ls
-file00 -file01 -file02 -file03 -file04 -file05 -file06 -file07 -file08 -file09
bandit4@bandit:~/inhere$ cat < -file01
oop,k*oor*x*o .!oCooJ odx,bandit4@bandit:~/inhere$ cd ..
bandit4@bandit:~$ ls
inhere
bandit4@bandit:~$ cd inhere
bandit4@bandit:~/inhere$ ls -a
. . . -file00 -file01 -file02 -file03 -file04 -file05 -file06 -file07 -file08 -file09
bandit4@bandit:~/inhere$ cat < -file02
eo)##**o*o
    oopoeo!o .o**#mmbbandit4@bandit:~/inhere$ cat < -file03
*****h!TQo*`*4`apVypjh9`*,Abandit4@bandit:~/inhere$ cat < -file04
?o`bandit4@bandit:~/inhere$ cat < -file05
or!Ls*he9`*!o!lyee*#x*o*o*o=+o!bandit4@bandit:~/inhere$ cat < -file06
lyooo---o*oFoooo-E{*****em*****o!bandit4@bandit:~/inhere$ cat < -file06
lyooo---o*oFoooo-E{*****em*****o!bandit4@bandit:~/inhere$ cat < -file07
koReBOKUdDepwhk7kjZCORTdopnAYKh
bandit4@bandit:~/inhere$ ]
```

## 7) Level 5 to 6>Password = **DXjZPULLxYr17uwoI01bNLQbtFemEgo7**

```
moodman78@hardy07:~$ 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

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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
```

```
Activities Terminal Sat Mar 5 12:55
bandit5@bandit:~/Inhere/maybehere07

-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
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--[ Tools ]--

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* 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/
* pwnools (https://github.com/Gallopsled/pwnools)
* radare2 (http://www.radare.org/)
* checksec.sh (http://www.trapkit.de/tools/checksec.html) in /usr/local/bin/checksec.sh

--[ More information ]--

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For support, questions or comments, contact us through IRC on
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Enjoy your stay!

bandit5@bandit:~$ ls
Inhere
bandit5@bandit:~/Inhere
bandit5@bandit:~/Inhere$ ls
maybehere00 maybehere02 maybehere04 maybehere06 maybehere08 maybehere10 maybehere12 maybehere14 maybehere16 maybehere18
maybehere01 maybehere03 maybehere05 maybehere07 maybehere09 maybehere11 maybehere13 maybehere15 maybehere17 maybehere19
bandit5@bandit:~/Inhere$ find . -type f -size 1033c ! -executable
./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$ ls -a
bandit5@bandit:~/Inhere/maybehere07$ cd .file2
bandit5@bandit:~/Inhere/maybehere07$ cat .file2
.bash: cd: .file2: Not a directory
bandit5@bandit:~/Inhere/maybehere07$ cat .file2
DXjZPULLxYr17uwoI01bNLQbtFemEgo7
```

## 8) Level 6 to 7>Password = HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs

```
moodman70@hardy07:~$ 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.owt.local 5.4.8 x86_64 GNU/Linux

Welcome to OverTheWire!
If you find any problems, please report them to Steven or moria on
irc.overthewire.org.
```

```
bandit6@bandit:~$ ls
bandit6@bandit:~$ ls -a
.bash_logout .bashrc .profile
bandit6@bandit:~$ find / -type f -size 33c
find: '/root': Permission denied
find: '/home/bandit28-git': Permission denied
/home/bandit4/.Inhere/.file01
/home/bandit4/.Inhere/.file00
/home/bandit4/.Inhere/.file06
/home/bandit4/.Inhere/.file03
/home/bandit4/.Inhere/.file05
/home/bandit4/.Inhere/.file08
/home/bandit4/.Inhere/.file04
/home/bandit4/.Inhere/.file07
/home/bandit4/.Inhere/.file02
/home/bandit4/.Inhere/.file09
find: '/home/bandit30-git': Permission denied
/home/bandit6/readme
find: '/home/bandits/.Inhere': Permission denied
/home/bandit25/.bandit24.password
/home/bandit15/.bandit14.password
/home/bandit3/.Inhere/.hidden
/home/bandit16/.bandit15.password
/home/bandit2/.spaces in this filename
/home/bandit1/
find: '/home/bandit27-git': Permission denied
/home/bandit18/readme
/home/bandit1/.prevpass
/home/bandit17/.bandit16.password
find: '/home/bandit29-git': Permission denied
find: '/home/bandit31-git': Permission denied
find: '/lost+found': Permission denied
/etc/bandit_pass/bandit23
/etc/bandit_pass/bandit19
/etc/bandit_pass/bandit7
/etc/bandit_pass/bandit4
/etc/bandit_pass/bandit8
/etc/bandit_pass/bandit29
/etc/bandit_pass/bandit24
/etc/bandit_pass/bandit7
/etc/bandit_pass/bandit26
/etc/bandit_pass/bandit32
/etc/bandit_pass/bandit22
/etc/bandit_pass/bandit30
/etc/bandit_pass/bandit13
/etc/bandit_pass/bandit33
/etc/bandit_pass/bandit5
/etc/bandit_pass/bandit28
/etc/bandit_pass/bandit25
/etc/bandit_pass/bandit12
```

```
Activities Terminal
bandit6@bandit:~$ 
/run/udev/data/+bdl:253:577
/run/udev/data/+bdl:253:576
/run/udev/data/+bdl:253:575
/run/udev/data/+bdl:253:574
/run/udev/data/+bdl:253:573
/run/udev/data/+bdl:253:572
/run/udev/data/+bdl:253:571
/run/udev/data/+bdl:253:570
/run/udev/data/+bdl:253:569
/run/udev/data/+bdl:253:568
/run/udev/data/+bdl:253:567
/run/udev/data/+bdl:253:566
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/run/udev/data/+bdl:253:563
/run/udev/data/+bdl:253:562
/run/udev/data/+bdl:253:561
/run/udev/data/+bdl:253:560
/run/udev/data/+bdl:253:559
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/run/udev/data/+bdl:253:545
/run/udev/data/+bdl:253:544
/run/udev/data/+bdl:253:543
/run/udev/data/+bdl:253:542
/run/udev/data/+bdl:253:541
/run/udev/data/+bdl:253:540
/run/udev/data/+bdl:253:539
/run/udev/data/+bdl:253:538
/run/udev/data/+bdl:253:537
find: '/var/spool/bandit24': Permission denied
find: '/var/spool/cron/crontabs': Permission denied
find: '/var/spool/rsyslog': Permission denied
find: '/var/tmp': Permission denied
find: '/var/lib/apt/lists/partial': Permission denied
find: '/var/lib/polkit-1': Permission denied
/var/lib/dbus/nachine-id
/var/lib/dpkg/info/libkrb5support0:amd64.shlibs
/var/lib/dpkg/info/libcurl3-gnutls:amd64.shlibs
/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:~$ 
```

```
/var/lib/dpkg/info/libcurl3-gnutls:amd64.shlibs
/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:~$ /var/lib/dpkg/info/bandit7.password
-bash: /var/lib/dpkg/info/bandit7.password: Permission denied
bandit6@bandit:~$ cat /var/lib/dpkg/info/bandit7.password
HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs
bandit6@bandit:~$ 
```

## 9) Level 7 to 8>Password = [cvX2JJa4CFALtqS87jk27qwqGhBM9plV](#)

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

bandit7@bandit.labs.overthewire.org's password:

```
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```

Welcome to OverTheWire!

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

--[ Playing the games ]--

This machine might hold several wargames.  
If you are playing "somegame", then:  
\* USERNAMES are somename0, somename1, ...

```
Activities Terminal ▾ Sat Mar 5 13:11  
bandit7@bandit: ~
```

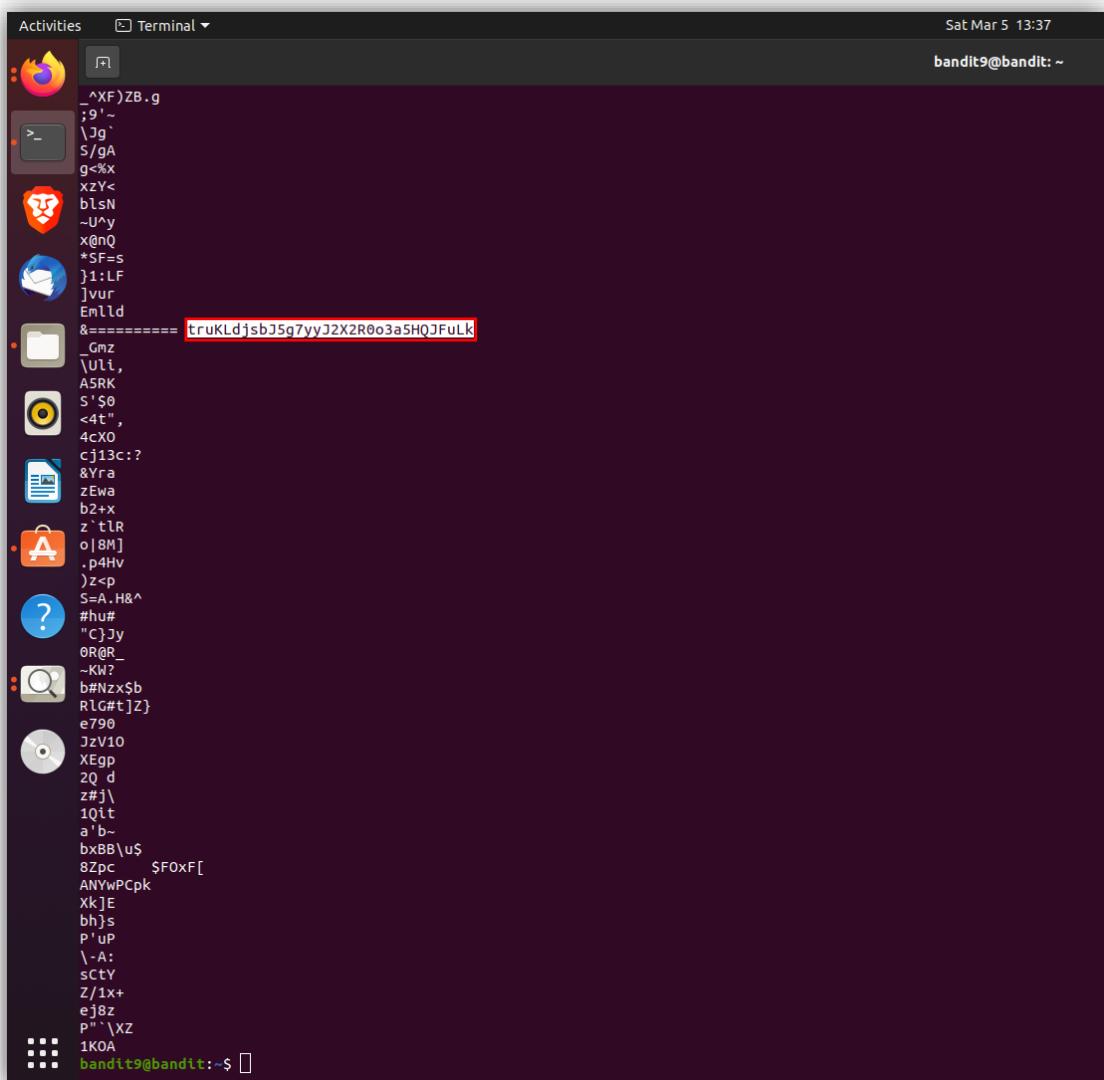
User	Session	Host	Terminal
alds	kyHjDFJu7CR4uAkv6YVv2EyvvyI2ElgN		
willfulness	RInCyvo16TGisHfoYXIjP9C7mPLeeu0		
intoxicant	r0j4VHBEB0l1zlqoOKmg1idiKaasmit		
Nationwide	t8tmrRAvgbm2Mm8NWbClkvafyHII8g		
pendant's	whNy1EWx7I07gEVNhEAT5z1MnPEBVO		
probationers	5OUi4hLY0t32nFk9855sTVmKZpQHTjlz		
beefy	qY09dNQDb52tsardYTKfJkoI0zEr16g5		
Swift's	Yb0oofacCaFdNjqlLkbwfejzMSbwBg		
wrongheadedness'	gifu53A1bf0lItkMov3rlgbRHq6Mihiq		
scrutinizes	Z76LPyf1l8HghuJowIqY4ModCocDF0B9		
refresher's	dtfQgdVityR14Ufx4lD5YE0Izrmkndcu		
earthlings	IhFcUs01RouQ8U45WVUVsPDZkTr6wnJ		
Hera's	gAcRYahuux36acojm0gP4ulKevvD3X		
ferment's	DTTiALTv7wmDYzQ4Ms97bJdCnNkw2P		
Anouilh	MKKDDokioxvFczsBxhwEXsfema0MoJaC		
overabundance	E59eqyfmh8uB03xqt0AR7EKGgyCQ1Fj		
complement's	MCW3WxEEwqckXZG4Sp950Y361zF5fj		
grape	g0OpwTZt0lzu6ss3pijp0z709LAhPxu		
Blaine	k61roI4v00D2PMExLDzRDxQWIE8tAcyst		
canonization's	7TIRzvFvzsju1BHvlu4qfcHbW1qWQuCn		
reserve	AH03PedgUR05aCqVGvFQRgY2oRISBvh		
Zanuck	30KRLOQjnC5dygNZePHAD6tCzbvjt1f		
bartitone	X5dkccZaa5ccklyP4uXwrfjIVaCzKcpq		
lineman's	Gh8HTLnWnxNjxZf40zhuiRpV8xejbwy		
aquas	Rk14EWYAjHPMexRTY9rq7v0Tjhikqzw		
swaddled	snpr6ve7nuPsJB0tGLrmp0YomdhVzAH		
garishness's	UbK1yZ2nC02GEjaRlASLw0bT8jgOp9rx		
Benny's	QQkZrdiFs47KckVLisifsfqtlcRxyjvZ		
regulated	sxJ8HT73fzZMMi1cl50nhawcrsYGuLwp		
knutting	vh26BWJXw105nszed9MVahD4TP69Lzr		
hymnals	7MqsN32lf0dpPigtAX6cwfbNzCPAMUoae		
Fremont	tCy02wC8xdpFqjLZ8xdBQYAHFZPHK7ls		
punter's	zAfzaA1IOuBSamCR6eMmRoc9oNPQ16a		
junking	6Tlr5K8YzId2xskduTTFYXWB6W0MXyt		
Aynara	zSeU50UyD8Q6a6YpwaCLRBBk1x8KFBeC		
waned	gLS9r6xewh5v8t0mg1NtHtCUMGBs6id		
conceded	TNUptX3HbwD4qsY0Q9sEN0n0Ny79sc		
killed	kLjrgoJvftiyUyoto0I4cxFcXqXbc6as		
Santayana	KKn1i4fuWdzKyvfpiaYrBDzQa3Tr3Pk		
Antigua	dRYNteqAg00kcrgrKVQFXMXS06vFarL55		
heyday	UAQwM1Fzy1ga4fhHp0Zee1UQEZ5JlUpyx		
praiseworthiness's	bjRB80uGXM4dh7ip9HB3mbFBMMwlNKNq		
separatism	p2167YTC3seaAv4YhLNb2fs7jv1LDLUW		
plan	PLz4ZXw02F0e40Md178wQXl4MMXtf		
confrontation	K1hScgMgzyBQYxBXxsj1kCQ2A5erDIjL		
briquet's	ahC51xHj13ANF7jH26dd7mHBFd8Vkj		
encapsulate	STOVYQEMWTFzs4ztjRrhXgZcfVw8Ls		
wildfowls	PqcMofjNkj8NBv09exdu7FY2NG6WUMzb		
Finland	xgsIXggUCMr1M0t7W2dsWtG1CvbRvU		
bandit7@bandit:	\$ find millionth data.txt		
	find: 'millionth': No such file or directory		
data.txt			
bandit7@bandit:	c grep "millionth" data.txt		
millionth	<b>cvX2JJa4CFALtqS87jk27qwqGhBM9plV</b>		
bandit7@bandit:	\$		

10) Level 8 to 9(Password = UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhR)

Activities Terminal

- 10 Inu7h0xhzh45MM0Mvlnsq03pzke9j5FX
- 10 lWtEOETkqBQWlhqvJnpu5YzEoV8qzb
- 10 36Lzp0zqTzouJRTxcvhWkfH0K3xtbL
- 10 K9d1C1LsVcdkodgvJ1t1oHlaOvhhg
- 10 KASH0xNc1NxMa8caUw5MHckdNa0Nx0cu
- 10 khecc2RClunkhrgn4JUNB265NFy1uwL
- 10 kJTBMD8k90hyxwZzaM0kv32auyu0IO
- 10 Klw6lrlngFw0hNvoTuwoT6exoyQwv
- 10 KrdV0XRLPFRhfRmmu30nHWMKDSMB
- 10 Kub0khs1wGSpwN12Yluo139dxHuPQn
- 10 L113Re7dusN9n38oyLWh2hd0u8eqaq
- 10 L2LEcNjk9BEB16103ghU1njocTf1has
- 10 LFtBHtAhpP9bgGAZP40rVkt3psysYC
- 10 Lg4vnWVEY7s6g6BRR1A35MhZog2h6Hg
- 10 mpnGRH628hTQxa5scbagkxPkkPUhJn
- 10 nzd0M32HQZL14wkrde quo11LcbyatbtL
- 10 nJrB4MlpmdtmfYfc1N1qmgywxDs0i
- 10 NLwv7oqVL7eaqBNx24xeznJqT0NULCYz
- 10 NOH1kFWLbx4XnaJoLPhghn7h0l5shb
- 10 oJgdnGSN9jpKu8XgR8tWmRRS5GSA5
- 10 Oz1WgxsbD1v9FOvFD0h3ZEMmCIP1IpuE
- 10 PftM4Exb3m5wsmab1bkAXCu7yZhNl
- 10 PQkOEi1QWt499y8yobuxZAO14Nv01D
- 10 PsdVsEUUblPRZD58WMP06LXks5Rxx
- 10 ptb5ZWt8cgD3u6g0nCn31xGd1Q5pEa
- 10 qamW0A0oqUc3yhnfj14zVpmZBdHqkwBa
- 10 RMLSPoAv7NhgiocdsYcr2z6x0DnsX5
- 10 S1693Q2f4R8PKy0a0spRk0vdgeMfC3
- 10 Sa85uWMyCa92rz8sYrQpxkh19snvpu0J
- 10 SHMANMEUzEz4mV7SjPEtT7zvSYNrZSe2k
- 10 s1952kSu1y6pt4arennm0oi0pnwn5d3bd
- 10 s+5o1kATVfVUKU4sAHtMrarJfLWb5l
- 10 tkmg52Ad5jP6ypp0zpb21vqdvgwysrLth
- 10 TTKh6uLdfZXE047T1KyPvttvzzLdf
- 10 LVW9LY1M16u9PK4u283nnhB1e2R1ATy
- 10 UW08m2SwHzPpkFe9q9y0000000000000h5
- 10 V09SMC6Qm0DRRf5f7tYXBBc6vNBnLP
- 10 UJ1LGm0Gm0Gm0FcJ3BP1JnaxHXMU6h0000
- 10 UJ1vBcnk0dCn2ZkLk2vz0x10xt1hHe4
- 10 UsjVVhEf5TzziibLewqCTd4FyFut0100uh
- 10 LVNzvhLVQEcraz518u14sVmZ0hJuxLs
- 10 V2d9muHuiPuyL1L1DsUHj01000000e+ZmAa
- 10 V9zark1Vad0tL1z9y207ce1Bfx6y0y
- 10 VkbAEW11bvkeetRZ2P5w1kG61278e0
- 10 w4zUFTGT1rrAah1LWk58h3WkZzowBkA
- 10 Hbg13xvf6mYTTSkL1TCC61b3e+394nR
- 10 w1NwimEX58RUQtJrTHmcLwz5Yx10GTC
- 10 X3JHOUkr14Kugmx1zMWm1WavRk-eTe1I
- 10 XycJdbU3yJtgdx8cXL0STpwx5cvcpa
- 10 y0rhBhs2zGm3JnhrlQxwp0p7ayErnKRY
- 10 y5vgTwLMgnF8n86Fgnm2TNjks01rV72
- 10 z9C0600pppreChPhrWJJ9V9YTTrxNvc0
- 10 zdd2ctvveR0GeIS2WE3telZmElS5JL7tH

11) Level 9 to 10(Password = truKLDjsbJ5g7yyJ2X2R0o3a5HQJFuLk)



## 12) Level 10 to 11(Password = IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR)

```
moodman78@hardy07:~$ 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

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    \ \ \ \ \ \ \ \ \ \ \ \ \ 
   www. ver he ire.org

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

```
Activities Terminal ▾ Sat Mar 5 13:42
bandit10@bandit: ~

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 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/rigolet/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
irc.overthewire.org #wargames.

Enjoy your stay!

bandit10@bandit:~$ ls
data.txt
bandit10@bandit:~$ cat data.txt
VGhlIHBlc3N3b3JkIGlzIElGdWt3S0dzRlc4TU9xM0lSRnFyeEUxaHhUTkViVVBSGg==
bandit10@bandit:~$ echo VGhlIHBlc3N3b3JkIGlzIElGdWt3S0dzRlc4TU9xM0lSRnFyeEUxaHhUTkViVVBSGg== | base64 --decode
The password is IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR
bandit10@bandit:~$
```

### 13) Level 11 to 12>Password = 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu

```
moodman78@hardy07:~$ 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

[Icons: Home, Document, Application, Question, Search, Camera]

Welcome to OverTheWire!
If you find any problems, please report them to Steven or m0rla on
irc.overthewire.org.
--[ 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/.


moodman78@hardy07:~$
```

```
--[ More information ]--
For more information regarding individual wargames, visit
http://www.overthewire.org/wargames/
For support, questions or comments, contact us through IRC on
irc.overthewire.org #wargames.
Enjoy your stay!
bandit11@bandit:~$ ls
data.txt
bandit11@bandit:~$ cat data.txt
Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHh
```

The screenshot shows a Linux desktop environment with a terminal window open in a terminal emulator. The terminal window displays the OverTheWire bandit11 level information and the contents of the data.txt file.

The CyberChef interface is open in a browser window. The "Operations" sidebar on the left lists various tools like ROT13, ROT47, Rotate left, Rotate right, etc. The main area shows a "Recipe" for ROT13 with the "Amount" set to 13. The "Input" field contains the string "Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHh". The "Output" field shows the result of the ROT13 decryption: "The password : 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu".

## 14) Level 12 to 13(Password = 8ZjyCRiBWFYkneahHwxCv3wb2a1ORpYL)

```

Activities Terminal Sun Mar 6 11:21
bandit12@bandit:~$ 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.ott.local 5.4.8 x86_64 GNU/Linux

Welcome to OverTheWire!
If you find any problems, please report them to Steven or Morla on
irc.overthewire.org.

--[ Playing the games ]--
This machine might hold several wargames.
If you are playing "somegame", then:
* USERNAMEs are somegame0, somegame1, ...
* 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
directory in /tmp/. Read-access to both /tmp/ and /proc/ is disabled
so that users can not snoop on eachother. Files and directories with
easily guessable or short names will be periodically deleted!

Please play nice:
* don't leave random 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:
```

```

Activities Terminal Sun Mar 6 11:51
bandit12@bandit:~$ ls
data.txt
bandit12@bandit:~$ cat data.txt
00000000: 1f8b 0808 0650 b45c 0203 6461 7461 322e ....P.^..data2.
00000010: 6269 6e00 013d 02c2 fd42 5a68 3931 4159 bin...=.BZh91AY
00000020: 2653 5980 4f1c c800 001f 7fff fbf9 7fd0 &SY.O...
00000030: 9ef7 4f76 9fcf c800 001f 7fff fbf9 7fd0 &SY.O...
00000040: f3fe 9fb1 76f1 feee bfdd a3ff b001 3b1b .....
00000050: 5460 a050 1334 d010 001f 0000 0000 468b T....A..h.F.
00000060: 0000 0000 0034 0000 0000 0000 0000 0001 F....A..L..@...
00000070: 3600 007a 81a3 464d 38d3 43e5 1060 0346 ..z..FM..C..h.F.
00000080: 8243 4000 3400 0340 6646 8068 0cd4 f500 C8..4..gf..h...
00000090: 69ea 6800 0f50 68f2 4d00 680d 0eca 0190 l..h..Ph..h...
000000a0: 0000 09a1 01a0 1e00 194d 340d 1eaf b280 .l...M4...
000000b0: f500 3400 2340 034d 3400 0000 3403 d400 ..4..#0..M4...4...
000000c0: 1a07 832 3400 f51a 0003 43d4 0068 0d34 ..24....C..h.4
000000d0: 6868 f51a 3d43 2580 3e58 061a 2c89 0bf3 hh..=C%.>X...k.
000000e0: 0163 08ab dc31 91cd 1747 599b e401 0b60 .c...1..Gv....
000000f0: abb1 7255 a3b2 9cf9 75c1 f106 941b 347a ..rU..u.....4z
00000100: d616 55c1 zef2 9d46 e7d1 3050 b5fb 76eb ..U...F..Op..v...
00000110: 01f8 60c1 2201 33f0 0de1 4aa6 ec8c 914f ..".3...J..0...
00000120: cf8a ae5d 7b52 4278 8d51 6978 c159 b5a ...({R}pQx.Y.Z
00000130: 2104 fb1f c26a 8d28 b414 e696 b1fd b3e1 Id..J.(.....
00000140: f414 2f9f d041 c523 b641 ac08 6e6b 0f65 ./..A..#A...
00000150: 6000 b61f 1150 8000 8000 8000 8000 8000 .d..b..A..f..z...
00000160: 3d82 af1f 0fbd 607d 0035 0033 41bd 0e0c <...n..S(3A...
00000170: 774f ce52 alac 0fb2 8c36 ef58 5375 f30a wr.R...6.XSt...
00000180: 1510 cab5 cb51 4231 95aa d045 b95c ea09 ..0..0B...E...
00000190: 9fa0 4d33 ba43 22c9 b5b0 d0ea ee07 c855 ..M3.C"...
000001a0: 59fc 8bf1 97a0 87a5 0df0 7acd d555 fc11 Y.....z..U...
000001b0: 223f fdc6 2be3 e909 c974 271a 929e acb? ..?..+..t...
000001c0: 0de1 f1a0 393f 4cf5 50eb 7942 80c3 3d7a ....97L.P.yb..=z
000001d0: feed 173f a84c bb4e 742a fc37 7b71 508a m..?.L.Nt*.7{qP...
000001e0: azcc 9cf1 2522 8a77 39f2 716d 34f9 8620 ....%"w..qm4...
000001f0: 4e33 ca36 eec0 cd4b b3e1 48e4 8b91 5bea N3..6...K..H...[...
00000200: 01bf 7d21 0b64 82c8 3341 3424 e998 4d7e ..]!..d..3A45..M-
00000210: c95c 1b1f cac9 a04a 1981 43b2 6b55 c646 \.....C..KU..
00000220: 075c 1eb0 8ecf 45d3 064e 84da 263d \.....\FS..N..&=
00000230: b15b bce1 7109 5c29 c524 3arc d715 4894 [..,q,\$..S..H...
00000240: 7426 0721 fc28 8d05 9663 03fc 5d93 14e1 t8./.(..)...
00000250: 4242 30c7 73a7 98f7 081d 0000 BB9<s ..h.=...
bandit12@bandit:~$ ls
bandit12@bandit:~$ bash_logout .bashrc data.txt .profile
bandit12@bandit:~$ mkdir /tmp/newdir
mkdir: cannot create directory '/tmp/newdir': File exists
bandit12@bandit:~$ mkdir /tmp/new1
bandit12@bandit:~$ cp data.txt /tmp/new1
bandit12@bandit:~$ cd /tmp/new1
bandit12@bandit:~/tmp/new1$ ls
data.txt
bandit12@bandit:~/tmp/new1$ xxd -r data.txt > data
bandit12@bandit:~/tmp/new1$ ls
data data.txt
bandit12@bandit:~/tmp/new1$ ile data
-bash: ile: command not found
bandit12@bandit:~/tmp/new1$ file data

```

```
Activities Terminal ▾ Sun Mar 6 11:52
bandit12@bandit:/tmp/new1$ ls
data.txt
bandit12@bandit:/tmp/new1$ xxd -r data.txt > data
bandit12@bandit:/tmp/new1$ ls
data data.txt
bandit12@bandit:/tmp/new1$ ile data
-bash: ile: command not found
bandit12@bandit:/tmp/new1$ 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/new1$ mv data datanew.gz
bandit12@bandit:/tmp/new1$ ls
datanew.gz data.txt
bandit12@bandit:/tmp/new1$ gzip -d datanew.gz
bandit12@bandit:/tmp/new1$ ls
datanew data.txt
bandit12@bandit:/tmp/new1$ file datanew
datanew: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/new1$ mv datanew data1.bz2
bandit12@bandit:/tmp/new1$ ls
data1.bz2 data.txt
bandit12@bandit:/tmp/new1$ bzip2 -d data1.bz2
bandit12@bandit:/tmp/new1$ ls
data1 data.txt
bandit12@bandit:/tmp/new1$ file data1
data1: gzip compressed data, was "data4.bin", last modified: Thu May 7 18:14:30 2020, max compression, from Unix
bandit12@bandit:/tmp/new1$ mv file data1.gz
mv: cannot stat 'file': No such file or directory
bandit12@bandit:/tmp/new1$ ls
data1 data.txt
bandit12@bandit:/tmp/new1$ mv data1 data1.gz
bandit12@bandit:/tmp/new1$ ls
data1.gz data.txt
bandit12@bandit:/tmp/new1$ gzip -d data1.gz
bandit12@bandit:/tmp/new1$ ls
data1 data.txt
bandit12@bandit:/tmp/new1$ file data1
data1: POSIX tar archive (GNU)
bandit12@bandit:/tmp/new1$ mv data1 data1.tar
bandit12@bandit:/tmp/new1$ ls
data1.tar data.txt
bandit12@bandit:/tmp/new1$ tar xf data1.tar
bandit12@bandit:/tmp/new1$ ls
data5.bin data.txt
bandit12@bandit:/tmp/new1$ rm data1.tar
bandit12@bandit:/tmp/new1$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/new1$ ls
data5.bin data.txt
bandit12@bandit:/tmp/new1$ rm data.txt
bandit12@bandit:/tmp/new1$ ls
data5.bin
bandit12@bandit:/tmp/new1$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/new1$ mv data5.bin data.tar
bandit12@bandit:/tmp/new1$ ls
data.tar
bandit12@bandit:/tmp/new1$ tar xf data.tar
bandit12@bandit:/tmp/new1$ ls
data6.bln data.tar
bandit12@bandit:/tmp/new1$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/new1$ rm data.tar
bandit12@bandit:/tmp/new1$ mv data6.bin data.bz2
bandit12@bandit:/tmp/new1$ ls
data.bz2
bandit12@bandit:/tmp/new1$ bzip2 -d data.bz2
bandit12@bandit:/tmp/new1$ ls
data
bandit12@bandit:/tmp/new1$ file data
data: POSIX tar archive (GNU)
bandit12@bandit:/tmp/new1$ mv data data.tar
bandit12@bandit:/tmp/new1$ ls
data.tar
bandit12@bandit:/tmp/new1$ tar xf data.tar
bandit12@bandit:/tmp/new1$ ls
data8.bln data.tar
bandit12@bandit:/tmp/new1$ rm data.tar
bandit12@bandit:/tmp/new1$ file data8.bin
data8.bin: gzip compressed data, was "data9.bin", last modified: Thu May 7 18:14:30 2020, max compression, from Unix
bandit12@bandit:/tmp/new1$ mv data8.bln data.gz
bandit12@bandit:/tmp/new1$ ls
data.gz
bandit12@bandit:/tmp/new1$ gzip -d data.gz
bandit12@bandit:/tmp/new1$ ls
data
bandit12@bandit:/tmp/new1$ file data
data: ASCII text
bandit12@bandit:/tmp/new1$ mv data data.txt
bandit12@bandit:/tmp/new1$ ls
data.txt
bandit12@bandit:/tmp/new1$ cat data.txt
bandit12@bandit:/tmp/new1$ The password is BzJyCRLBNFVYneahHwxCV3wb2a1ORpYI
bandit12@bandit:/tmp/new1$
```

```
Activities Terminal ▾ Sun Mar 6 11:52
bandit12@bandit:/tmp/new1$ ls
data1.tar data.txt
bandit12@bandit:/tmp/new1$ tar xf data1.tar
bandit12@bandit:/tmp/new1$ ls
data1.tar data5.bin data.txt
bandit12@bandit:/tmp/new1$ rm data1.tar
bandit12@bandit:/tmp/new1$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/new1$ ls
data5.bln data.txt
bandit12@bandit:/tmp/new1$ rm data.txt
bandit12@bandit:/tmp/new1$ ls
data5.bln
bandit12@bandit:/tmp/new1$ file data5.bln
data5.bln: POSIX tar archive (GNU)
bandit12@bandit:/tmp/new1$ mv data5.bln data.tar
bandit12@bandit:/tmp/new1$ ls
data.tar
bandit12@bandit:/tmp/new1$ tar xf data.tar
bandit12@bandit:/tmp/new1$ ls
data6.bln data.tar
bandit12@bandit:/tmp/new1$ file data6.bln
data6.bln: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/new1$ rm data.tar
bandit12@bandit:/tmp/new1$ mv data6.bln data.bz2
bandit12@bandit:/tmp/new1$ ls
data.bz2
bandit12@bandit:/tmp/new1$ bzip2 -d data.bz2
bandit12@bandit:/tmp/new1$ ls
data
bandit12@bandit:/tmp/new1$ file data
data: POSIX tar archive (GNU)
bandit12@bandit:/tmp/new1$ mv data data.tar
bandit12@bandit:/tmp/new1$ ls
data.tar
bandit12@bandit:/tmp/new1$ tar xf data.tar
bandit12@bandit:/tmp/new1$ ls
data8.bln data.tar
bandit12@bandit:/tmp/new1$ rm data.tar
bandit12@bandit:/tmp/new1$ file data8.bln
data8.bln: gzip compressed data, was "data9.bln", last modified: Thu May 7 18:14:30 2020, max compression, from Unix
bandit12@bandit:/tmp/new1$ mv data8.bln data.gz
bandit12@bandit:/tmp/new1$ ls
data.gz
bandit12@bandit:/tmp/new1$ gzip -d data.gz
bandit12@bandit:/tmp/new1$ ls
data
bandit12@bandit:/tmp/new1$ file data
data: ASCII text
bandit12@bandit:/tmp/new1$ mv data data.txt
bandit12@bandit:/tmp/new1$ ls
data.txt
bandit12@bandit:/tmp/new1$ cat data.txt
bandit12@bandit:/tmp/new1$ The password is BzJyCRLBNFVYneahHwxCV3wb2a1ORpYI
bandit12@bandit:/tmp/new1$
```

15) Level 13 to 14(Password = 4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e) (*Password for this level is in next Level*)

```
Activities Terminal ▾

 bandit13@bandit: ~ ls  
sshkey.private  
bandit13@bandit: ~ $ sshkey.private bandit@hostname^C  
bandit13@bandit: ~ $ cat sshkey.private  
-----  
----- BEGIN RSA PRIVATE KEY -----  
MIPEABoAACQAcKoE8B3C0771HfC9aPaaQmQDdzuxCV+ppZHa++buSkN+  
gg6tCr7FWBnG=UzeC2rFg0#meevB13IAoyPmZeT46+j9puwZhWtI9xgB  
ZufGEWzbFWlWmLnx0Bw8iUSTGRNzgPpEeV5tB1V1LzDhCphtMz6zB  
ThMsMyJaFewJ1TPQ03mvs91uHEu0MAzoU1D4KN0ME23=xahyB9Jvq68KsV  
ObefxG1v13T29XkJaqvRfgNvZrywN7x3CJuNa4c/2Jkp+nBL5NxNaH+wA7  
j1Pyf0tEsuzM1YQ411Lzh/B/hpvhC0F8r22dWDAQABaoBAQC66NbhyEoZjeA  
J3j/BmpawH5zfJ/wb2bf1dnpwbb8rsJ4sZIDZQ7xUh4LtgyoQS+sbw3RxZvE  
pvJ3nSu6hIDuLsCj1Vn3pVb8rjw7bj8ug8r/3FyjN4qx/Tlfz0yu719jet67  
xAh0t0Ng/_UFBS6L13T2Vp60tvwIdme4noXchtdpuPKNL8rmMWVTK+72VS  
HmWnYckWlUzGvoPszNsazU0wpypdy+2rTHM3QasKuN1KyFBRc4/w0yCktsD  
o3FPfN0Gfca71a3Sy+0pQHkZB16LsJDD0ntvrtv7Y48/ye4dUH20Zwh  
olIAfLehAoGBAn0JwsJskBmbl-knIEwPsxs0nmPnTuY5WGrpsCrX0msvBUf  
LaL3Zg3xLc3x1CtneubC9vnh2KuP/HfTUYLqxyL8bnj/HfLhgbC90fRrs  
M1F2F5TxVpkZTDLmWJR4Nx8f/HfK18XyQhTmQHJTHHbnk3M/jTjaGobANKU  
h1fqhw7+xncB9yjls/Tbuh05ENgFwkaGUTTXV2nsQjNmDop+wFak40H  
PKMhJNBGc+eX0H0N0K3TSPBPMASBAXF9GKeuwWa6erTyTqf0LyCdpz+29s  
d8TDXCduvshA4R8xUQl0GvBktVeK0pIPxFp19/ daoAGch5YXHtEhcgY7Ztp0+  
xy58x5Mc5z6x5Mu3QmUmXkh7NGvz9ysGy10dAnZWu7juUfVlAcMR/t54W  
GC83B303d75h18x3nd8xFl7t17a245TvaO7yK7mgpS/SgKc43e1LavaJ-  
3btntesJui-BzxQ9jP1RkwPucy7A7z0LQKxNe7qXh1QnKh05Bsmaj5JNpby  
ldky2SpFBG1CfcskybWfWcQf9jD9Lj5Esh75adkwzheCq59t4by  
9/8X4j5OpB1pfbcK5m4B+D8T1kkkg5ZSMwhOBRA7VmxhOckcdEPrs+w32xEd  
q1TkvEQRQkQD0mBn28yvBwSuV9gj1q1cajfq1LoeVYRpaY6+f/Gv/UfVAp4c+50  
kAkHpxbvbzkb5z0eALPkgLzavxtQ0tKw1jpoLKH1KuHwzu+n4abFAIRBuBdn  
+/aOrQoYBDRbdXSmN/zj/y44em+xcRLDrVbyMpdtpBbelR1E2zA2Eza==  
----- END RSA PRIVATE KEY -----
```



```
bandit13@bandit:~$ ssh -i sshkey.private bandit@localhost
Could not create directory '/home/bandit13/.ssh'.
The authenticity of host 'localhost (127.0.0.1)' can't be established.
ECDSA key fingerprint is SHA256:+8UL0ZWR:85496ETCRkl02wX3OpyNPS5tB5RPbhczc.
Are you sure you want to continue connecting (yes/no)? yes
Failed to add the host to the list of known hosts (/home/bandit13/.ssh/known_hosts).
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames

bandit@localhost's password:
```



```
bandit13@bandit:~$ sshkey.private bandit@localhost
Could not create directory '/home/bandit13/.ssh'.
The authenticity of host 'localhost (127.0.0.1)' can't be established.
ECDSA key fingerprint is SHA256:+8UL0ZWR:85496ETCRkl02wX3OpyNPS5tB5RPbhczc.
Are you sure you want to continue connecting (yes/no)? yes
Failed to add the host to the list of known hosts (/home/bandit13/.ssh/known_hosts).
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
```



```
Linux bandit.owt.local 5.4.8 x86_64 GNU/Linux
```



```
www.....ver.....he....ire.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
irc.overthewire.org #wargames.

Enjoy your stay!
```

16) Level 14 to 15(Password = BfMYroe26WYalil77FoDi9qh59eK5xNr)

```
For support, questions or comments, contact us through IRC on
irc.overthewire.org #wargames.

Enjoy your stay!

bandit14@bandit:~$ ls
bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e
bandit14@bandit:~$ nc localhost 30000
4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e
Correct!
BfMYroe26WYalil77FoDi9qh59eK5xNr
bandit14@bandit:~$
```

→ Password for Level 13 to 14

```
For support, questions or comments, contact us through IRC on
irc.overthewire.org #wargames.

Enjoy your stay!

bandit14@bandit:~$ ls
bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e
bandit14@bandit:~$ nc localhost 30000
4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e
Correct!
BfMYroe26WYalil77FoDi9qh59eK5xNr
bandit14@bandit:~$
```

17) Level 15 to 16>Password = cluFn7wTiGryunymYOu4RcffSxQluehd)

```
--[ More information ]--  
  
For more information regarding individual wargames, visit  
http://www.overthewire.org/wargames/  
  
For support, questions or comments, contact us through IRC on  
irc.overthewire.org #wargames.  
  
Enjoy your stay!  
  
bandit15@bandit:~$ man ncat  
bandit15@bandit:~$ man ssl  
bandit15@bandit:~$ ncat ssl localhost 30001  
Ncat: Could not resolve hostname "ssl": No address associated with hostname. QUITTING.  
bandit15@bandit:~$ ncat --ssl localhost 30001  
BfMYroo26WYall77Fobisq59eK5xNr  
Correct!  
[cluFn7wTlGryunymYD4RcffsxQluehd]
```