

TASK-5- SACHIN KUMAR

1) Level 0-1: boJ9jbbUNNfktd780OpsqOltutMc3MY1

```
Activities Terminal Jun 26 09:54 bandit@bandit:~
ubuntu@sachin-VirtualBox:~/Documents$ ssh bandit@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 SHA256:98UL0ZWR85496ETCRklo20X30PnyPS85t5SRPhczc.
Are you sure you want to continue connecting (yes/no/[fingerprint])? SHA256:98UL0ZWR85496ETCRklo20X30PnyPS85t5SRPhczc
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

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

  O  A  K
www.  ver  he  ire.org

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, ...
* 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 "mkdir -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!
```

```
Activities Terminal Jun 26 09:55 bandit@bandit:~

--[ 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:

-n32          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/l0ngd/peda.git) in /usr/local/peda/
* gdbint (https://github.com/gdbint/gdbint) in /usr/local/gdbint/
* 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 ]--

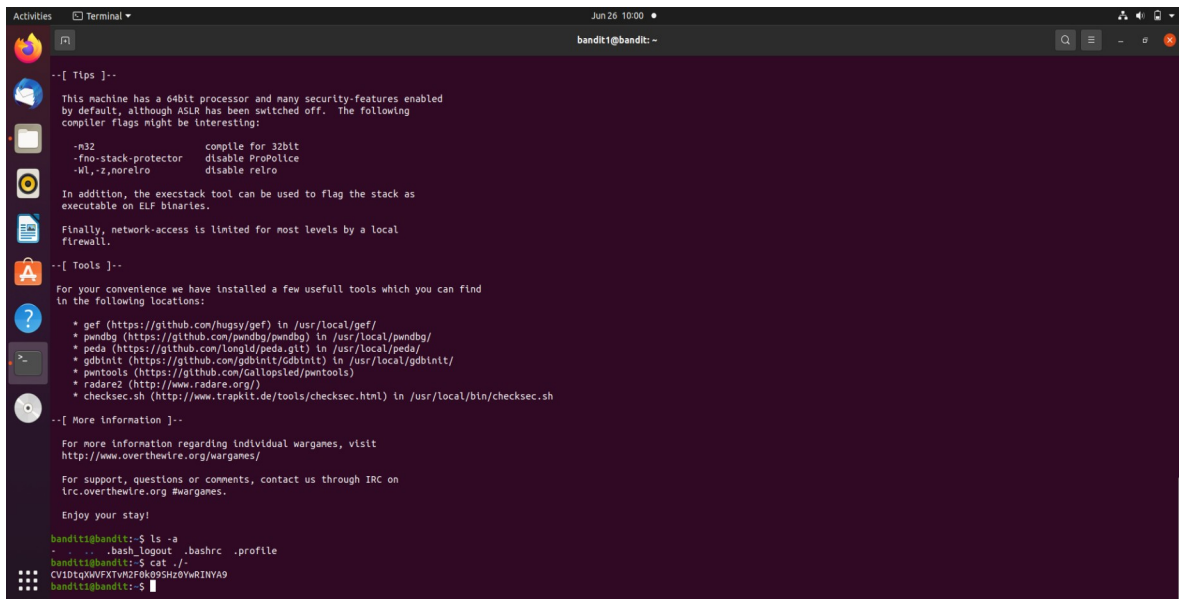
For more information regarding individual wargames, visit
http://www.overthewire.org/wargames/

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

Enjoy your stay!

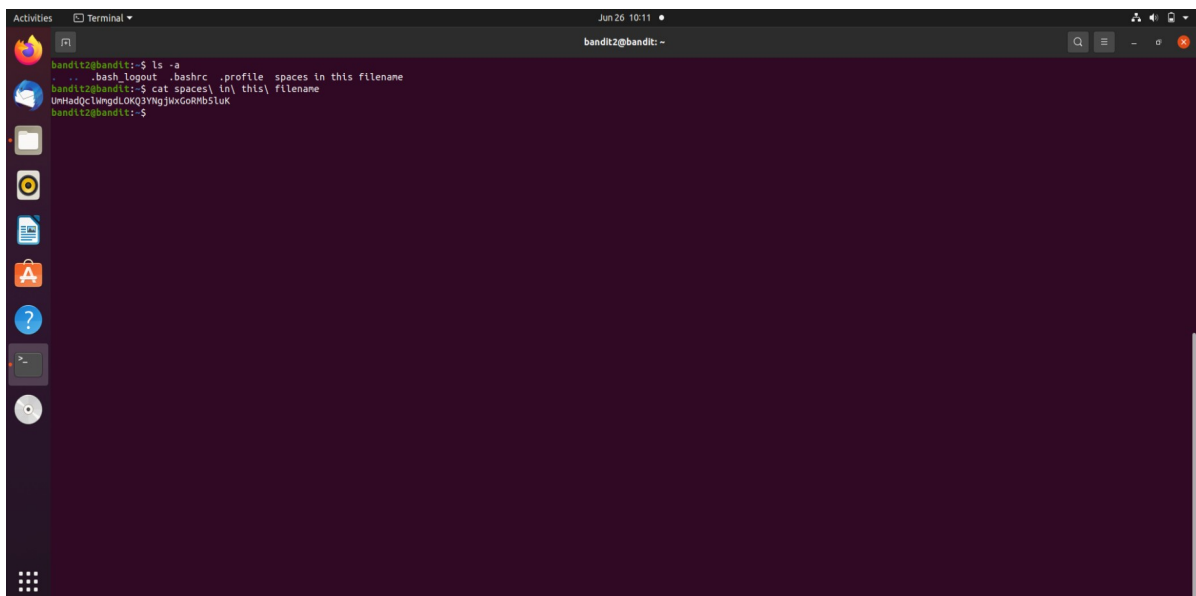
bandit@bandit:~$ ls -la
.. .bash_logout .bashrc .profile readme
bandit@bandit:~$ cat readme
boJ9jbbUNNfktd780OpsqOltutMc3MY1
bandit@bandit:~$
```

2) Level 1-2 :CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9



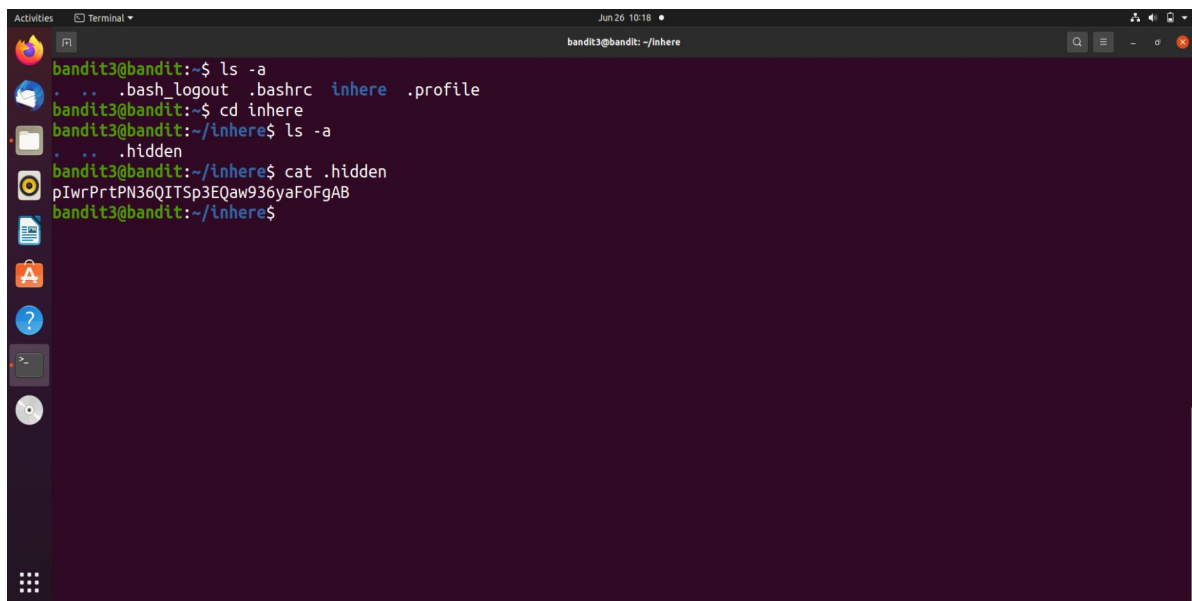
```
Activities Terminal Jun 26 10:00 bandit1@bandit:~  
  
--[ Tips ]--  
This machine has a 64bit processor and many security-features enabled  
by default, although ASLR has been switched off. The following  
compiler flags might be interesting:  
  
-n32             compile for 32bit  
-fno-stack-protector  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/longid/peda.git) in /usr/local/peda/  
* gdbintc (https://github.com/gdbintc/gdbintc) in /usr/local/gdbintc/  
* 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.  
  
Enjoy your stay!  
  
bandit2@bandit:~$ ls -a  
.. . .bash_logout .bashrc .profile  
bandit2@bandit:~$ cat ./-  
CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9  
bandit2@bandit:~$
```

3) Level 2-3 :UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK



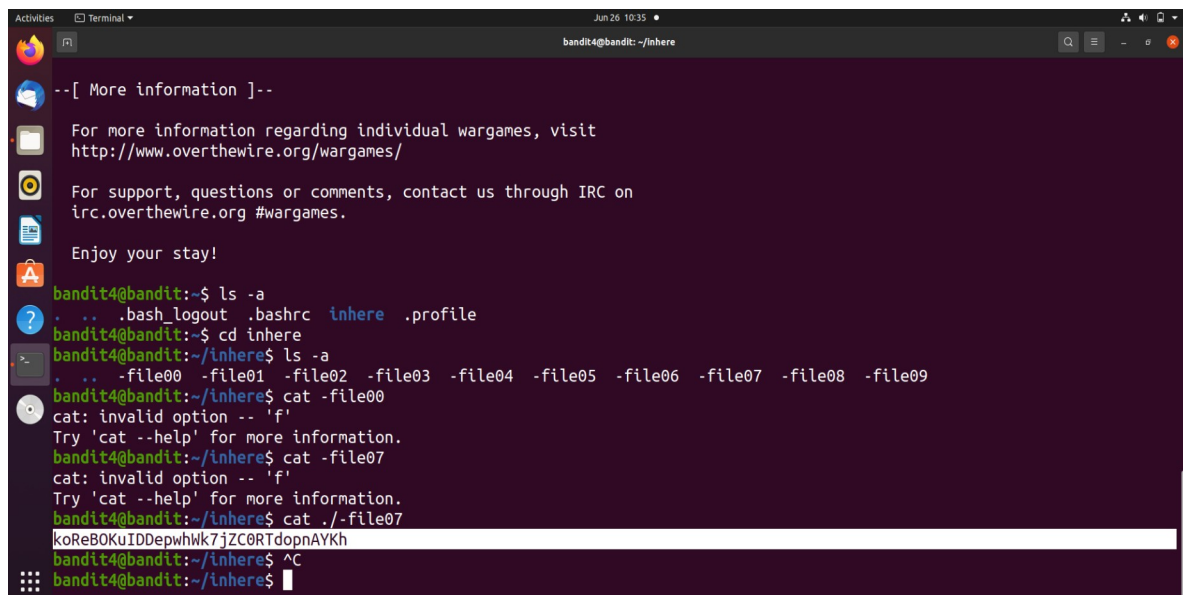
```
Activities Terminal Jun 26 10:11 bandit2@bandit:~  
  
bandit2@bandit:~$ ls -a  
.. . .bash_logout .bashrc .profile spaces in this filename  
bandit2@bandit:~$ cat spaces\ in\ this\ filename  
UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK  
bandit2@bandit:~$
```

4) Level 3-4 :pIwrPrtPN36QITSp3EQaw936yaFoFgAB

A terminal window titled 'bandit3@bandit: ~/inhere' showing the process of finding a hidden file. The user runs 'ls -a' in the home directory, listing files including '.hidden'. Then, they run 'cd inhere' and 'ls -a' again, listing files including '.hidden'. Finally, they run 'cat .hidden', which outputs the flag 'pIwrPrtPN36QITSp3EQaw936yaFoFgAB'.

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

5) Level 4-5 :koReBOKuIDDepwhWk7jZC0RTdopnAYKh

A terminal window titled 'bandit4@bandit: ~/inhere' showing the process of finding a flag. It starts with a message about wargames. Then, the user runs 'ls -a' in the home directory, listing files including '-file00' through '-file09'. They then run 'cat -file00', which results in an error. They try 'cat -file07' and also get an error. Finally, they run 'cat ./-file07', which outputs the flag 'koReBOKuIDDepwhWk7jZC0RTdopnAYKh'.

```
--[ More information ]--
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Enjoy your stay!

bandit4@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  inhere  .profile
bandit4@bandit:~$ cd inhere
bandit4@bandit:~/inhere$ ls -a
.  ..  -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 -file07
cat: invalid option -- 'f'
Try 'cat --help' for more information.
bandit4@bandit:~/inhere$ cat ./-file07
koReBOKuIDDepwhWk7jZC0RTdopnAYKh
bandit4@bandit:~/inhere$ ^C
bandit4@bandit:~/inhere$
```

6) Level 5-6 :DXjZPULLxYr17uwoI01bNLQbtFemEgo7

```
Activities Terminal Jun 26 10:49 bandits@bandit: ~/inhere

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/l0ng1d/peda.git) in /usr/local/peda/
* gdbint (https://github.com/gdbint/gdbint) in /usr/local/gdbint/
* 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 ]--

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Enjoy your stay!

bandits@bandit:~$ clear

bandits@bandit:~$ ls -la
... .bash_logout .bashrc inhere .profile
bandits@bandit:~$ cd inhere
bandits@bandit:~/inhere$ ls -la
. maybehere00 maybehere02 maybehere04 maybehere06 maybehere08 maybehere10 maybehere12 maybehere14 maybehere16 maybehere18
.. maybehere01 maybehere03 maybehere05 maybehere07 maybehere09 maybehere11 maybehere13 maybehere15 maybehere17 maybehere19
bandits@bandit:~/inhere$ find . -type f -size 1033c ! -executable
./maybehere07/.file2
bandits@bandit:~/inhere$ cat ./maybehere07/.file2
DXjZPULLxYr17uwoI01bNLQbtFemEgo7

bandits@bandit:~/inhere$
```

7) Level 6-7 :HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs

```
Activities Terminal Jun 26 15:53 bandits@bandit: ~

find: '/run/screen/S-bandit18': Permission denied
find: '/run/screen/S-bandit7': Permission denied
find: '/run/screen/S-bandit16': Permission denied
find: '/run/screen/S-bandit26': Permission denied
find: '/run/screen/S-bandit8': Permission denied
find: '/run/screen/S-bandit15': Permission denied
find: '/run/screen/S-bandit4': Permission denied
find: '/run/screen/S-bandit19': Permission denied
find: '/run/screen/S-bandit31': Permission denied
find: '/run/screen/S-bandit17': Permission denied
find: '/run/screen/S-bandit2': Permission denied
find: '/run/screen/S-bandit22': Permission denied
find: '/run/screen/S-bandit21': Permission denied
find: '/run/screen/S-bandit14': Permission denied
find: '/run/screen/S-bandit24': Permission denied
find: '/run/screen/S-bandit23': Permission denied
find: '/run/shm': Permission denied
find: '/run/lock/Lvm': Permission denied
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/dpkg/info/bandit7.password
find: '/var/log': Permission denied
find: '/var/cache/apt/archives/partial': Permission denied
find: '/var/cache/ldconfig': Permission denied
bandits@bandit:~$ cat /var/lib/dpkg/info/bandit7.password
HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs
bandits@bandit:~$
```

8) Level 7-8 :cvX2JJa4CFALtqS87jk27qwqGhBM9pIV

```
Activities Terminal Jun 26 15:59 bandit@bandit:~  
Zanuck 30KRl0QjnCg5DygnZepHAD6tCzbvJt1f  
baritone XSodKCCza05ckklyP4uXwrjIVaCzKcpq  
lineman's Gh8HTLmWxnXJzF4DzhuLRpV8xejb6yw  
aquas RkI4EWAjHPMexRFTY9Rq7vQtjhlKgZw  
swaddled snDpr6ve7nuPsjBoTGLrmpOYondhVzAH  
garishness's UbK1yZ2nC02GEjArLASLw0bT8jg0p9rx  
Benny's QQkZrdiFs47KckVL5lfsFqtlcRxyjvZ  
regulated sx38HT73FvZMMIicL50nhawcrsYGUIWP  
knotting vh268MJXw10Snszed9MVahD4rTP69lZr  
hymnals 7MqsN32lFdbPigtAX6cwFbWZcPAMUoae  
Fremont tCy02wCBxdpFqjLZ8xkBQYAHFZPHk7lS  
punter's zAfzaA1IOuB5amCR6eMmRoc9oNXPQ16a  
junking 6Tr5K8Y21d2sdku3TTFYXMB6W0MXyT  
Aymara zSeU8UyD0Q6aGYPwaCLRbBk1x8kFBEc  
waned gL59r6xvevh5y8t0ngiNtHtCUMG8S6Id  
conceded TWLuptX3HbwD4qsYQ09sEN0n0iNy79sC  
klined klJrgoJvftIyYotu0I4cxFcXQbC6a5  
Santayana KKnI4FuWdzKyvffpIaYr8DzQa3Tr3Pk  
Antigua dRyNieqAg00KcGrKVQFXMXS06vFArL55  
heyday UAGwMLFzyLGa4FhpQZEeLUQZ5JLUpyX  
praiseworthiness's bJR80uGXm4dH7lp9HB3mbFBMwLKNKq  
separatism p2167YTCJseAv4VhLZNb2Fs7JlVLDLUW  
plan PLz4ZXwX02FEe4oMd1I78wQXL4MIMxTF  
confrontation KLSHScgMyBQYx8KxskjKcQ2A5erDIjL  
briquet's aHc51Xhjt3ANF7jH26dd7mHMBfd8VKz  
encapsulate ST0VVQEWmtFz54tjJRhdXgZcfW8lS  
wildfowls PacMoFjnkj8NBvO9exdu7FY2NG6WUMzb  
Finland xgXsIYgqUCMriWoT7H2d5wT1DCvbRvU  
bandit@bandit:~$ strings data.txt | grep "millionth"  
millionth cvX2JJa4CFALtqS87jk27qwqGhBM9pIV  
bandit@bandit:~$
```

9) Level 8-9 :UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhR

```
Activities Terminal Jun 26 16:07 bandit@bandit:~  
zddzcttveR0GeLS2ME3TelZMEL5JL7UM  
zddzcttveR0GeLS2ME3TelZMEL5JL7UM  
zddzcttveR0GeLS2ME3TelZMEL5JL7UM  
zddzcttveR0GeLS2ME3TelZMEL5JL7UM  
zddzcttveR0GeLS2ME3TelZMEL5JL7UM  
zddzcttveR0GeLS2ME3TelZMEL5JL7UM  
bandit@bandit:~$ cat data.txt | un1q -c  
10 07KC3ukwK7KswL8Le9ebb3H3sooNtsR2  
10 0efnqHY1ZTNru4LSdX4D73dsx1Qq7RuJ  
10 0N65ZpNgAUJepFzCtCR2RXVrCduGfm  
10 0N6d4yK5t1eq4BtF5wC5S0LkXwSg  
10 10XltczV5Dz7UMoseKIEFMSz2wQrylfw  
10 1ET55kgJf0j1c3eFzXL3wzKza3lwcJa  
10 1T6qW913Zf1c53T1wvwp1ms4PD39L  
10 2b2p8PykwcKvCZ4Erd4b0d0f4rzd0  
10 2CxmCkPnLS7JuoNzAtShkPxf5t43w7s  
10 337085y40yIh99wPutoKb114evfAKC  
10 33apqWj14Q2mK4K5CwW6Z2yhaE8R  
10 45NqYZZteq75ctedXpVL49KUKVBN  
10 5AdqjJo30Edx5t3mZVB0dK2e4ar03Zw  
10 5C08XuoQWzsyed0ht8zgiUW5RDaec  
10 6PZ2a008TpkCTo19qZx0f6ou8rds  
10 7KahtgmvMUeN1SPvU73Dvsc0qf9u9u  
10 7uh3jnh4A50esnnEZHBZn67f38BFjH  
10 8J1ZnvqpP7L8tp0y0BM63QH3PhII  
10 8NtZMhZC8Hsw035CU70Jg8n3eKpSA  
10 aR2QhaB0Dmcy3gPkvLVXm2E5xmeB1bX  
10 Bccaus9Le8NUz4HVLXUwE8M1LWtSLG  
10 BrnkTwDxfY2RPZ1ShXZlksweZJGV39  
10 cIP0bT0vveup0d0hV1nrl58Cqk1G  
10 cR6r1SWCBST7TALZ21ie47r3gc0QxShG0  
10 CuqLkJo0z9FngRjPp1Pa7PGG1wpTQ  
10 d0nFD2LqL101MfZ2vmpw1KXEHSHFKJ  
10 d0d5wV0LcVp2b5Y7Gdc5G0c2y0w90  
10 d0nvnNXL4Q03ALq95ckhZwEpL77cRgF4  
10 DqPqVp8VCJ21vFscLwrtG13Eusc2D52X  
10 dV0aC0K0m84Zx1a1TTLUAIIVLWt0TYr  
10 DnXVL1cC0MLT7M4K5C7qfuyk011  
10 eSHF14ur1rAXPPV2MhZg1uYKMu0s4Fup  
10 EF509lqb5GQ35jz5d0XlpeAFkblOrw  
10 eHtLW13pZ4F0As320w0EVZMhLP011  
10 f0trLSK4d6LTL0R20Q0wXtYr1s4kqul  
10 f6ZuLZ1ZTL1aMOKVXZMudtareSYmKp  
10 fLyKxCh8BULtaIBSLXQNuJ3jyJ00eh  
10 gLV4H0k3c0r6v4nd1Dc0mHf7691DT
```

```
10 UASW6CQwD6MRzfTu6FAfyXBK0cVvnBLP  
10 UJiCNvDNfqb3Fcj8PjjnAXHqUM63UyJ  
10 UjsVbcqKeJqdCZQCDMKzv6A9X7hLbNE4  
1 UsvVyFSfZZWb16wgC7dAFyFuR6jQQUhR  
10 UVnZvhiVQECraz5j18U14sMVZQhjuXia  
10 V2d9umHtiUPLYLIDsuHj0fr0EmreCZMaA  
10 v9zaxkVAOdIOLITZY2uoCtB1fX2gmly9  
10 VkBAEWYI1bVkeURZV5mowIGg6i3m7Be0
```

10) Level 9-10 :truKLDjsbJ5g7yyJ2X2R0o3a5HQJFuLk

```
Activities Terminal Jun 26 16:13 bandit9@bandit: -
--[ 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!
bandit9@bandit:~$ ls -la
.  ..  .bash_logout  .bashrc  data.txt  .profile
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.H8^
bandit9@bandit:~$
```

11) Level 10-11:IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR

```
Activities Terminal Jun 26 16:20 bandit10@bandit: -
* 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
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For support, questions or comments, contact us through IRC on
irc.overthewire.org #wargames.
Enjoy your stay!
bandit10@bandit:~$ ls -la
.  ..  .bash_logout  .bashrc  data.txt  .profile
bandit10@bandit:~$ cat data.txt
VGhlIH8hc3N3b3JkIGlzIElGdWt3S0dzRlc4TU9xM0lSRnFyeEUxaHhUTkViVVBSCg==
bandit10@bandit:~$ base64 -d data.txt
The password is IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR
bandit10@bandit:~$
```


12) Level 11-12: 5Te8Y4drgCRfCx8ugdWuEX8KFC6k2EUu

Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHh

Output

time: 1ms
length: 48
lines: 1



The password is 5Te8Y4drgCRfCx8ugdWuEX8KFC6k2EUu

13) Level 12-13 : 8ZjyCRiBWfYkneahHwxCv3wb2a1ORpYL

```
Activities Terminal Jun 26 22:11 bandit12@bandit: /tmp/task
bandit12@bandit:/tmp/task$ mv file file.tar
bandit12@bandit:/tmp/task$ tar xf file.tar
bandit12@bandit:/tmp/task$ ls
data5.bin data.txt file.tar
bandit12@bandit:/tmp/task$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/task$ rm file.tar
bandit12@bandit:/tmp/task$ rm data
rm: cannot remove 'data': No such file or directory
bandit12@bandit:/tmp/task$ rm data.txt
bandit12@bandit:/tmp/task$ ls
data5.bin
bandit12@bandit:/tmp/task$ file file
file: cannot open 'file' (No such file or directory)
bandit12@bandit:/tmp/task$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/task$ mv data5.bin data.tar
bandit12@bandit:/tmp/task$ tar xf data.tar
bandit12@bandit:/tmp/task$ ls
data6.bin data.tar
bandit12@bandit:/tmp/task$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/task$ mv data6.bin data.bz2
mv: cannot stat 'data6.bin': No such file or directory
bandit12@bandit:/tmp/task$ mv data6.bin data.bz2
bandit12@bandit:/tmp/task$ ls
data.bz2 data.tar
bandit12@bandit:/tmp/task$ bzip2 -d data.bz2
bandit12@bandit:/tmp/task$ ls
data data.tar
bandit12@bandit:/tmp/task$ mv data data.tar
bandit12@bandit:/tmp/task$ ls
data tar
bandit12@bandit:/tmp/task$ tar xf data.tar
bandit12@bandit:/tmp/task$ ls
data8.bin data.tar
bandit12@bandit:/tmp/task$ file data8.bin
data8.bin: gzip compressed data, was "data8.bin", last modified: Thu May 7 18:14:38 2020, max compression, from Unix
bandit12@bandit:/tmp/task$ mv data8.bin data.gz
bandit12@bandit:/tmp/task$ gzip -d data.gz
bandit12@bandit:/tmp/task$ ls
data data.tar
bandit12@bandit:/tmp/task$ cat data
The password is 8ZjyCRiBWfYkneahHwxCv3wb2a1ORpYL
bandit12@bandit:/tmp/task$
```

14) Level 13-14:4wcYUJFw0k0XLShlDzztnTBHixU3b3e

```
Activities Terminal Jun 26 22:49 bandit14@bandit:~
* 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/longld/peda.git) in /usr/local/peda/
* gdbint (https://github.com/gdbint/gdbint) in /usr/local/gdbint/
* 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!

bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4wcYUJFw0k0XLShlDzztnTBHixU3b3e
bandit14@bandit:~$
```

15) Level 14-15:BfMYroe26WYalil77FoDi9qh59eK5xNr

```
Activities Terminal Jun 26 22:19 bandit14@bandit:~
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.

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* pwntools (https://github.com/Gallopsled/pwntools)
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--[ More Information ]--

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Enjoy your stay!

bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4wcYUJFw0k0XLShlDzztnTBHixU3b3e
bandit14@bandit:~$ nc localhost 3000
localhost [127.0.0.1] 3000 (?) : Connection refused
bandit14@bandit:~$ nc localhost 30000
4wcYUJFw0k0XLShlDzztnTBHixU3b3e
Correct!
BfMYroe26WYalil77FoDi9qh59eK5xNr
bandit14@bandit:~$
```


16) Level 15-16: cluFn7wTiGryunymY0u4RcffSxQluehd

```
Activities Terminal Jun 26 22:24 bandit15@bandit: ~  
  
--[ 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:  
  
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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/  
* 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.  
  
Enjoy your stay!  
  
bandit15@bandit:~$ nc -l -s -p 30001  
BFWYroe26Kvalli77FoDl9qh59eK5Xnr  
Correct!  
cluFn7wTiGryunymY0u4RcffSxQluehd
```