Overwire Linux games

Level 0

```
AMINADESCIOP-NIPODOM ~

§ ssh banditObDandit.labs.overthewire.org -p 2220

[Info. 9.9.172]:2220) can't be established.

The authenticity of host '[bandit.labs.overthewire.org]:2220.[Info. 9.9.172]:2220)

[GCOSA) to the list of known hosts.

In six of overthewire game server. More information on http://www.overthewire.org' (ECDSA) to the list of known hosts.

g/wargames

banditObDandit.labs.overthewire.org's password:

Linux bandit.otw.local 5.4.8 x86.64 GNU/Linux

www. ver he "ire.org"

welcome to OverThewire!

If you find any problems, please report them to Steven or morla on firc.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/*

** PASSMORDS for each level are stored in /etc/somegame_pass/.

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/ped/

** pending (https://github.com/hugsy/gef) in /usr/local/ped/

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** pending (https://github.com/nugledes.git) in /usr/local/ped/

** pantools (https://github.com/nugledes.git) in /usr/local/ped/

** pantools (https://github.com/foallopsled/pwntools)

** 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!

```
bandit1@bandit:~$ ls
-
bandit1@bandit:~$ cat ./"-"
CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9
bandit1@bandit:~$ |
```

```
Administration in interest and its absolution of the provided in the provided
```

```
bandit2@bandit:~$ ls
spaces in this filename
bandit2@bandit:~$ cat "spaces in this filename"
UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK
bandit2@bandit:~$ |
```

```
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$ |
```

```
$ 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

Welcome to OverThewire!

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irc.overthewire.org.

-[Playing the games ]--
This machine might hold several wargames.
If you are playing "somegame", then:

* USERNAWES are somegameO, somegamel, ...
* 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 "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 orphan processes running
* don't leave exploit-files laying around
* don't namoy other players
* don't post passwords or spoilers
* again, DNT POST SPOILERS!
This includes writeups of your solution on your blog or website!
```

```
bandit4@bandit:~\$ ls
inhere
bandit4@bandit:~\finhere\$ ls
-file00 -file01 -file02 -file03 -file04 -file05 -file06 -file07 -file08 -file09
bandit4@bandit:~\finhere\$ file ./*|
./-file00: data
./-file01: data
./-file02: data
./-file03: data
./-file04: data
./-file05: data
./-file06: data
./-file07: ASCII text
./-file08: data
./-file09: data
bandit4@bandit:~\finhere\$ cat "./-file07"
koReBOKuIDDepwhwk7jZCORTdopnAYKh
bandit4@bandit:~\inhere\$ |
```

```
bandit5@bandit:~\footnote{ bandit5@bandit.~\footnote{ bandit5@bandit.~\foot
```

```
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```

```
bandit6@bandit:~$ find / -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/bandit5/inhere': Permission denied find: /home/bandit29-git': Permission denied find: /home/bandit31-git': Permission denied find: /home/bandit31-git': Permission denied find: /bost-found': Permission denied find: /etc/polkit-1/localauthority': Permission denied find: /etc/polkit-1/localauthority': Permission denied find: /etc/polkit-1/localauthority': Permission denied find: /etc/low/backup': Permission denied find: /proc/tz/driver': Permission denied find: /proc/tz/driver': Permission denied find: /proc/gs28/task/gs28/fdinfo/6': No such file or directory find: /proc/gs28/fdinfo/5': Permission denied find: /run/screen/S-bandit1': Permission denied find: /run/screen/S-bandit1': Permission denied find: /run/screen/S-bandit29: Permission denied find: /run/screen/S-bandit28': Permission denied find: /run/screen/S-bandit28': Permission denied find: /run/screen/S-bandit28': Permission denied find: /run/screen/S-bandit26': Permission denied find: /run/screen/S-bandit26': Permission denied find: /run/screen/S-bandit26': Permission denied find: /run/screen/S-bandit27': Permission denied find: /run/screen/S-ba
```

```
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-bandit13': Permission denied find: '/run/screen/S-bandit24': Permission denied find: '/run/screen/S-bandit24': Permission denied find: '/run/screen/S-bandit24': Permission denied find: '/run/screen/S-bandit24': 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/tmp': Permission denied find: '/var/lib/apt/lists/partial': Permission denied find: '/var/lib/polkit-1': Permission denied find: '/var/log': Permission denied find: '/var/log': Permission denied find: '/var/log': Permission denied find: '/var/cache/apt/archives/partial': Permission denied find: '/var/cache/ldconfig': 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-bandit13': Permission denied
find: '/run/screen/S-bandit24': Permission denied
find: '/run/screen/S-bandit23': Permission denied
find: '/run/shm': 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
```

bandit6@bandit:~\$ cat /var/lib/dpkg/info/bandit7.password
HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs
bandit6@bandit:~\$ |

```
ADMINODESKTOP-NIPDOO4 ~
$ ssh bandit7@bandit.labs.overthewire.org -p 2220
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

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 somegameO, somegameI, ...
* 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 wint 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 exploit-files laying around
* don't leave exploit-files laying around
* don't t pest passwords or spoilers
* again, DONT POST SPOILERS!
```

```
--[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
-fno-stack-protector disable ProPolice
-w1,-z,norelro disable ProPolice
-w1,-z,norelro
```

```
bandit7@bandit:~$ ls
data.txt
bandit7@bandit:~$ cat data.txt|grep millionth
millionth cvX2JJa4CFALtqS87jk27qwqGhBM9plV
bandit7@bandit:~$ |
```

```
bandit8@bandit:~$ ls
data.txt
bandit8@bandit:~$ cat data.txt |sort | uniq -u
UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhR
bandit8@bandit:~$ |
```

```
ADMINIOSENTOP-NIPDOO4 ~
$ ssh bandit90bandit.labs.overthewire.org -p 2220
This is a OverThewire game server. More information on http://www.overthewire.org/wargames
bandit90bandit.labs.overthewire.org's password:
Permission denied, please try again.
bandit90bandit.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 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 "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 orphan processes running don't leave exploit-files laying around don't annoy other players don't tenve seploit-files laying around don't annoy other players again, DONT POST SPOILERS!

This includes writeups of your solution on your blog or website!
```

```
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&^
bandit9@bandit:~$ |</pre>
```

```
ADMIN@DESKTOP-NIPDOO4
$ ssh bandit10@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargam
bandit10@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
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    www.
 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 "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 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!
```

```
bandit10@bandit:~$ ls
data.txt
bandit10@bandit:~$ cat data.txt
VGhlIHBhc3N3b3JkIGlzIElGdWt3S0dzRlc4TU9xM0lSRnFyeEUxaHhUTkViVVBSCg==
bandit10@bandit:~$ cat data.txt | base64 -d
The password is IFukwKGsFW8M0q3IRFqrxE1hxTNEbUPR
bandit10@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
-fno-stack-protector disable ropolitice
-W1-z.norelro disable propolitice
-W1-z.norelro
-W2-z.norelro
-W3-z.norelro
-W3-z.n
```

```
bandit11@bandit:~$ cat data.txt
Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHh
bandit11@bandit:~$ cat data.txt | tr a-zA-Z n-za-mN-ZA-M
The password is 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu
bandit11@bandit:~$ |
```

```
bandit12@bandit:~$ ls

data.txt

bandit12@bandit:~$ cat data.txt

00000001: f680 8080 8050 b45e 0203 6461 7461 322e
00000010: 6269 6e00 013d 02c2 fd42 5a68 3931 4159
00000020: 2653 598e 4f1c c800 001e 7fff fbf9 7fda
00000030: 92ff 4f76 9fcf fe7d 3fff f67d abde 5e9f
00000016: 73fe 9fbf f6f1 feee bfdf a3ff b001 3b1b
00000050: 5481 ala0 lea0 la34 d004 001a 6843 4683
00000060: 5481 ala0 lea0 la34 d004 001a 6843 4683
000000070: a000 c87a 81a3 464d a8d3 43c5 1068 0346
000000070: a000 c87a 81a3 464d a8d3 43c5 1068 0346
00000090: 69ea 6800 0f50 68f2 4d00 680d 06ca 0190
00000000: 169a 6800 0f50 68f2 4d00 680d 06ca 0190
00000000: 1600 69a1 ala0 lea0 194d 340d lea1 b280
00000000: 1a07 a832 3400 f51a 0003 43d4 0068 0d34
00000000: 1a07 a832 3400 f51a 0003 43d4 0068 0d34
00000000: 1a07 a832 3400 f51a 0003 43d4 0068 0d34
00000000: 1a07 a832 3400 f51a 0003 43d4 0068 0d34
00000000: 1a07 a832 3400 f51a 0003 43d4 0068 0d34
00000010: 1a07 a832 3400 f51a 0003 43d4 0068 0d34
00000010: 1a07 a832 1300 f51a 0004 43d6 e6x8 51df
00000100: 1a56 0c1 2201 33f0 0de0 4ad6 ec8c 91df
00000110: 0f8 60c1 2201 33f0 0de0 4ad6 ec8c 91df
00000110: 0f8 60c1 2201 33f0 0de0 4ad6 ec8c 91df
00000110: 0f8 60c1 5261 8231 95a4 0d5 b95c ea09
00000110: 3c82 af41 20fd 6e7d 0a35 2833 41bd de0c
0000016: 3c82 af41 20fd 6e7d 0a35 2833 41bd de0c
00000170: 774f ae52 alac 0fb2 8c36 ef58 537b f30a
00000180: 3c82 af41 20fd 6e7d 0a35 2833 41bd de0c
0000110: 0de1 f1a6 393f 4cf5 50eb 7942 86c3 3d7a
00000110: 0de1 f1a6 393f 4cf5 50eb 7942 86c3 3d7a
00000110: 0de1 f1a6 393f 4cf5 50eb 7942 86c3 3d7a
00000110: 0de1 f1a6 393f 4cf5 50eb 7942 86c3 3d7a
00000110: 0de1 f1a6 393f 4cf5 50eb 7942 86c3 3d7a
00000120: 0f50 1248 8ecf 5cdf 4653 064e 84da 263d
00000200: 075c 1eb4 8ecf 5cdf 4653 064e 84da 263d
00000200: 075c 1eb4 8ecf 5cdf 4653 064e 84da 263d
00000200: 075c 1eb4 8ecf 5cdf 4653 064e 84da 263d
00000200: 075c 1eb4 8ecf 5cdf 4653 064e 84da 263d
00000200: 075c 1eb4 8ecf 5cdf 4653 064e 84da 263d
00000200: 075c 1eb4 8ecf 5cdf 4653 064e 84da 263d
00000200: 075c 1eb4 8ecf 5cdf 4653
```

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--[ Tips ]--

This machine has a 6dbit processor and samy security features enabled by default; although ASLE has been switched off. The following compiler flags sight be interesting:

--m22 - same compiler for 32bit compiler flags sight be interesting:

--m32 - same compiler for 32bit compiler flags sight be interesting:

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--m32 - same compiler flags sight si
```

```
bandit13@bandit:-$ Is
sakkey private
bandit13@bandit:-$ ssh -i sshkey.private bandit14@localhost
Could not create directory '/home/bandit13/.ssh'.
The authenticity of host 'localhost (127.0 c) can't be established.
The authenticity of host 'localhost (127.0 c) can't be established.
The authenticity of host 'localhost (127.0 c) can't be established.
The authenticity of host 'localhost (127.0 c) can't be established.
The authenticity of host 'localhost (127.0 c) can't be established.
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The authenticity of host 'localhost (127.0 c) con't be established.
This is a OverTheWire!

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

-[ Playing the games ]--

This machine might hold several wargames.
If you are playing 'somegame', then:

* USERNAMES are somegamelo, somegamel, ...
* Most LEVELS are stored in 'somegamel, ...
* Most LEVELS are stored in 'somegamel, ...
* PASSWORDS for each level are stored in 'etc/somegame_pass,'
For your convenience we have installed a few usefull tools which you can find in the following locations:

* gef (https://github.com/punds/pwndbg) in /usr/local/gef/
pwndbg (https://github.com/punds/pwndbg) in /usr/local/gdbinit/
pwndbg (https://github.com/gdbinit/dbinit) in /usr/local/gdbinit/
pwntools (https://github.com/gdbinit/dbinit) in /usr/local/gdbinit/
pwntools (https://github.com/gdbinit/dbinit) in /usr/local/gbinit/
pwntools (https://github.com/gdbinit/dbinit) in /usr/local/bbin/checksec.sh
```

bandit14@bandit:~\$ cat /etc/bandit_pass/bandit14 4wcYUJFw0k0XLSh1DzztnTBHiqxU3b3e bandit14@bandit:~\$|

```
bandit14@bandit:~$ telnet localhost 30000
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e
Correct!
BfMYroe26WYalil77FoDi9qh59eK5xNr
Connection closed by foreign host.
bandit14@bandit:~$ |
```

Level 15