

LEVEL-0

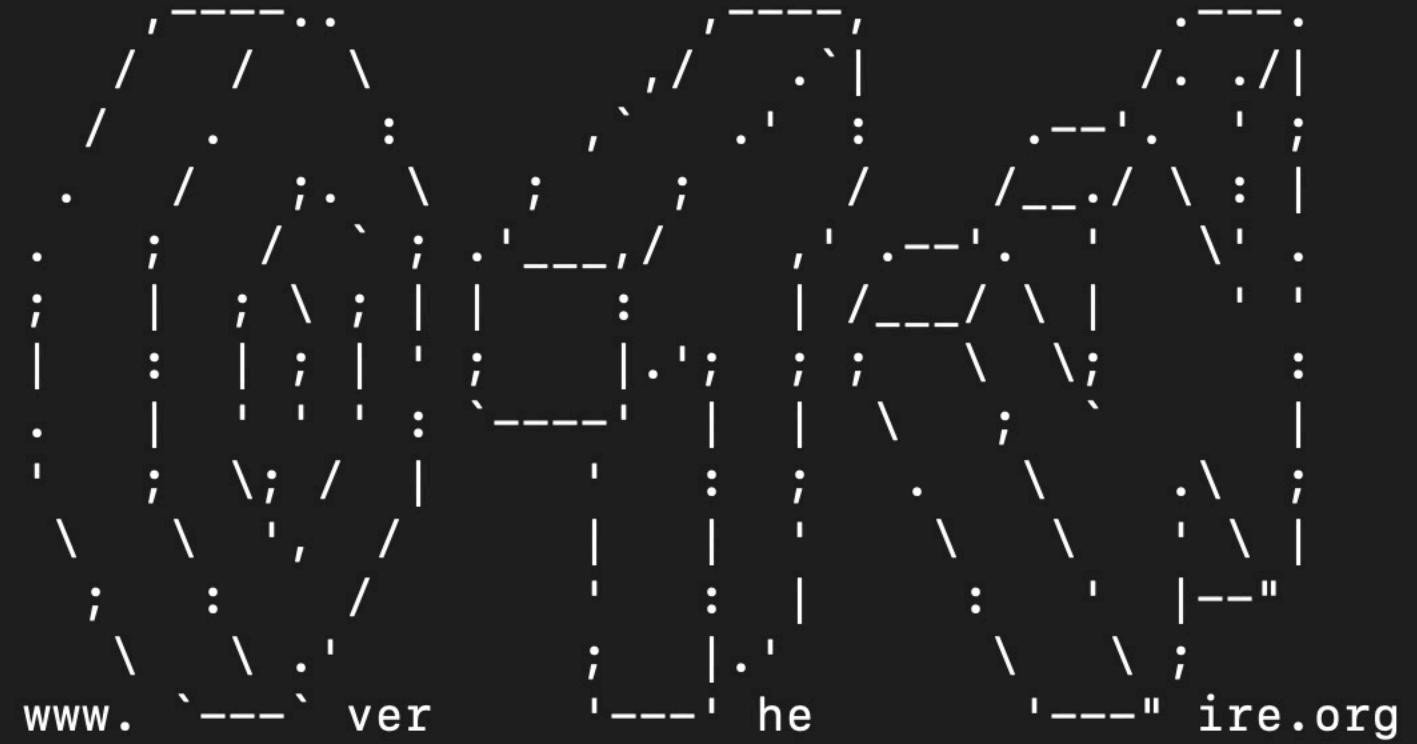
Last login: Sat Mar 5 19:02:05 on ttys000

[Harshil@KVMs-MacBook-Air-2 ~ % ssh -p 2220 bandit0@bandit.labs.overthewire.org

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](irc://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

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/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!

LEVEL-1

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

```
[bandit0@bandit:~$ exit
```

```
logout
```

```
Connection to bandit.labs.overthewire.org closed.
```

```
[Harshil@KVMs-MacBook-Air-2 ~ % ssh -p 2220 bandit1@bandit.labs.overthewire.org
```

```
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
```



```
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!
```

LEVEL-2

```
[bandit1@bandit:~$ ls
```

```
- [bandit1@bandit:~$ cat ./-
```

```
CV1DtqXWVFTvM2F0k09SHz0YwRINYA9
```

```
[bandit1@bandit:~$ exit
```

```
logout
```

```
Connection to bandit.labs.overthewire.org closed.
```

```
[Harshil@KVMs-MacBook-Air-2 ~ % ssh -p 2220 bandit2@bandit.labs.overthewire.org
```

```
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!

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:

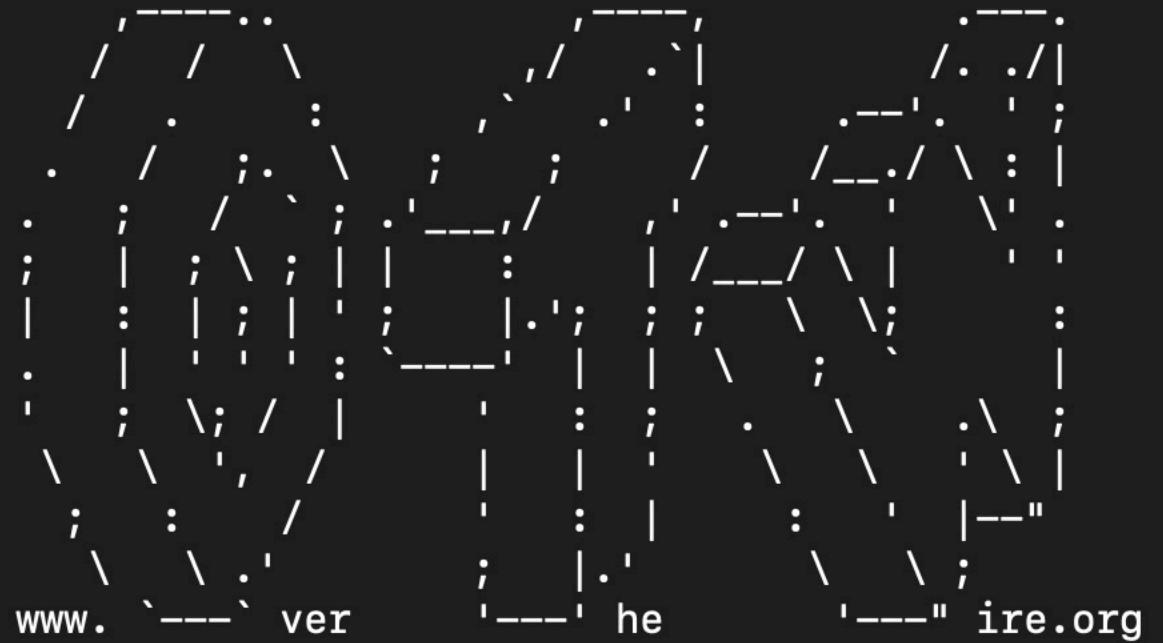
- * USERNAMES are somegame0, somegame1, ...
- * Most LEVELS are stored in /somegame/.
- * PASSWORDS for each level are stored in /etc/somegame_pass/.

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

LEVEL-3

```
[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.
[Harshil@KVMs-MacBook-Air-2 ~ % ssh -p 2220 bandit3@bandit.labs.overthewire.org
This is a 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
```



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:

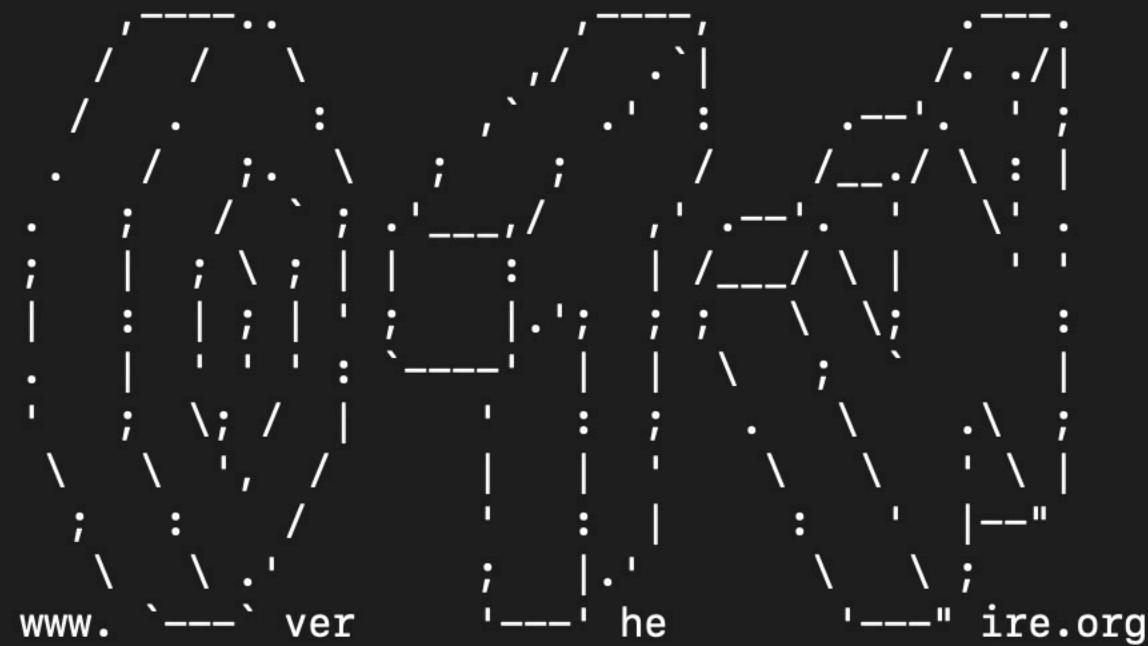
- * USERNAMEs are somegame0, somegame1, ...
- * Most LEVELs are stored in /somegame/.
- * PASSWORDs for each level are stored in /etc/somegame_pass/.

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

LEVEL-4

```
[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.
[Harshil@KVMs-MacBook-Air-2 ~ % ssh -p 2220 bandit4@bandit.labs.overthewire.org
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!

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/.

LEVEL-5

```
[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$ cat ./-file00
[?`2F%??rL~5?g??? ?????bandit4@bandit:~/inhere$ ls
-file00 -file01 -file02 -file03 -file04 -file05 -file06 -file07 -file08 -file09
[bandit4@bandit:~/inhere$ cat ./-file01
[?p,k?;??r*?? .!??C??J ?dx,?bandit4@bandit:~/inhere$ cat ./-file02
e?)#??5??
??p??V?-???
[?mmbandit4@bandit:~/inhere$ cat ./-file03
[??????h!TQO?`?4"aH?pHT??,?Abandit4@bandit:~/inhere$ cat ./-file04
[?bandit4@bandit:~/inhere$ cat ./-file05
[r?l$??h?9('??y?e?#?x?0??=??
[bandit4@bandit:~/inhere$ cat ./-file06
[ly??~?A?f????-E?{???m??????
[bandit4@bandit:~/inhere$ cat ./-file07
koReBOKuIDDepwhWk7jZC0RTdopnAYKh
[bandit4@bandit:~/inhere$ cat ./-file08
[T???i??j??P?F?l?n??J????{??
[bandit4@bandit:~/inhere$ cat ./-file09
[e?0$?in=??_b?5FA?P7sz??gN
[bandit4@bandit:~/inhere$ exit
```

logout

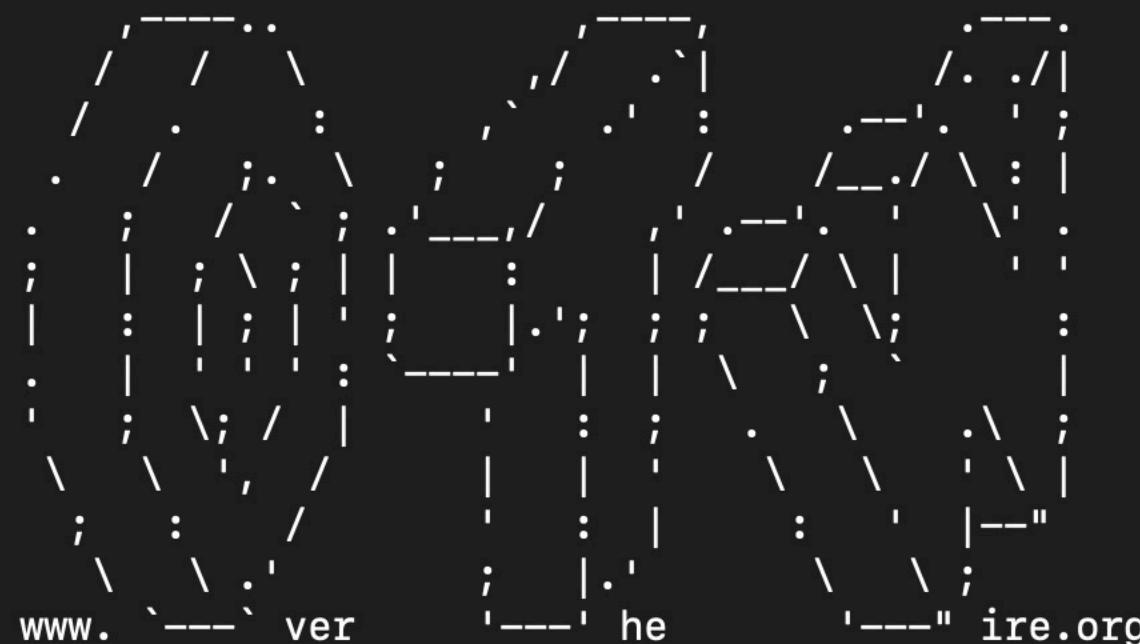
Connection to bandit.labs.overthewire.org closed.

```
[Harshil@KVMs-MacBook-Air-2 ~ % ssh -p 2220 bandit5@bandit.labs.overthewire.org
```

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



Welcome to OverTheWire!

If you find any problems, please report them to Steven or morla on

LEVEL-6

```
[bandit5@bandit:~$ ls  
inhere  
[bandit5@bandit:~$ find . -size 1033c ! -executable  
. ./inhere/maybehere07/.file2  
[bandit5@bandit:~$ cat ./inhere/maybehere07/.file2  
DXjZPULLxYr17uwoI01bNLQbtFemEgo7
```

bandit5@bandit:~\$ exit

```
logout
Connection to bandit.labs.overthewire.org closed.
[Harshil@KVMs-MacBook-Air-2 ~ % ssh -p 2220 bandit6@bandit.labs.overthewire.org
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



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:

LEVEL-7

```
[bandit6@bandit:~]$ ls
[bandit6@bandit:~]$ find . -size 33c -group bandit6 -user bandit7
[bandit6@bandit:~]$ find / -size 33c -group bandit6 -user bandit7
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: '/sys/fs/pstore': Permission denied
find: '/proc/tty/driver': Permission denied
find: '/proc/698/task/698/fd/6': No such file or directory
find: '/proc/698/task/698/fdinfo/6': No such file or directory
find: '/proc/698/fd/5': No such file or directory
find: '/proc/698/fdinfo/5': No such file or directory
find: '/cgroup2/csessions': Permission denied
find: '/boot/lost+found': Permission denied
find: '/tmp': Permission denied
find: '/run/lvm': Permission denied
find: '/run/screen/S-bandit1': Permission denied
find: '/run/screen/S-bandit10': Permission denied
find: '/run/screen/S-bandit29': Permission denied
find: '/run/screen/S-bandit25': Permission denied
find: '/run/screen/S-bandit30': Permission denied
find: '/run/screen/S-bandit9': Permission denied
find: '/run/screen/S-bandit28': Permission denied
find: '/run/screen/S-bandit18': Permission denied
find: '/run/screen/S-bandit20': Permission denied
find: '/run/screen/S-bandit12': Permission denied
find: '/run/screen/S-bandit5': 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-bandit3': 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-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
[bandit6@bandit:~$ cat /var/lib/dpkg/info/bandit7.password
HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs
[bandit6@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
[Harshil@KVMs-MacBook-Air-2 ~ % ssh -p 2220 bandit7@bandit.labs.overthewire.org
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
```



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--[Playing the games]--

This machine might hold several wargames.

LEVEL-8

```
[bandit7@bandit:~$ ls
data.txt
[bandit7@bandit:~$ cat data.txt
binning WnfnPqkuh12nwHBohzn2C4L5W0gwcLq
abuts v8PAwDdkGDdp5NsJ7ZFM5A7TJ5MkYDbm
fathead wBhCy0fqvbQdexz5kMKbtGoSwgXw7s0H
attacks 3GzwnGiZnBDdVuHivJk1pEfOOYu7uOTa
lopping H9hzviFp1Q04WF8EzcQN15MDz5r1bzUC
tyrannosaurus WxtYXVar4sgInHp7YUpTzOjdUw1Ww0x8
reservists QDidoX6BN1MDTi0QwA6Vt82L9Rb64cm3
atrophy's mSpCwP9VgcGRn1SCD8R9bb9cPB12yqkW
bolt's 726RB3lt2RmeCtbWEQ8lhUAxVBJfepy0
Klondikes wVh3ILxQAsKg8WNnFHp8GxtnSu213GbR
spatulas k7YBF0D09pnjHKVuDG12KA2hdfFLEOsG
emending ppqz0MTdjpt126Sy4sSISqh8kdn02fAC
gangrenes 3XssrPp6kgwTImB0QbdbVmVxHTNkQUCc
proportionate 0HoqF84boKrYnQm9xtcxaPdQ5D389g5c
sectarian pSVmt2ghL6WDbMtD71EI suhNk2g0ADjS
subjugation 16WI1nJY9ySs7F0WtsiT7ZvOLw36Pcq0
embroideries m9ow4lmYnwSnqaRZs6hYJiSNxFu1NL4Q
Skopje 7gqRJFPGcr1X7L47xnYX15hW66a7awlh
pony 1Glq0C6a89LB7UHc1QZFDqSuVaYe2Fy
hippos FJTUeFKWoxYplvgGcrnB1bXkYM1Vxzk2
aspires vu03Cu2L8t7UCYb9SpGa6NGNLtFu83OP
jottings bGSmarhv6Q2McIdfBe8Q21X4DjbiPcwN
parenthesizes mdPOY1JVefXwE4xCsuHrjCTQBf1FQhuC
fin's eHLtjwrRu6GKAruACTVv19ppqIszf9Jf
ketch nb29rBbIX3buQq20DohwTHeCt1drwTvu
stalwarts BKgFiHfHMJicyHmdQjmiHIyv2iLZBr40
Nippon hBeEW6BBDRieTI44XE36mDqhh5hDmg1v
slots BuJvlLhyubycrZMdJTpdxH8Dz8eJ7Xz9
s 0xjr6AlFLc1o1arBoPDwzMwbYHA9WC8D
oldening J1B00iibw4FoMbVPibjw9GuKrsWoj3T
Euripides TPATLSIdBFEYEe6SbE2LyuM28ZtTn1M
hairline's mnyQgzLMzKyZrMuV1zMh4U17Vc2AHcBM
minuteman UZfSW2njAi9blxdhEdHYboDbGjLNPP1E
Kyrgyzstan TSwZqxGxzV2w9KQtNpUr2ebv1oYJDXcL
duchy's KRzB3Ik8MJSOIv0ZT2iSOdpNki5DvWn
Bradbury's 6Rh7oXIuJV4Ez4I9qKUrdR4U79F4hSqK
Secretary P8uJc1me7jsj63cN9HhPNAI7jwlX1UFr
erectly trU15DrySFKuy757rxdiKUQHTpYfspGo
distributive we10dzqqER3DRHZYX2ktuS9WlxHdHmnJ
scream pUcQbIxqYsPF9Tv0LZKFnTzYMGyllEdh
meatier rtKgB0Ismkx8SakFrcRwjSXFUuEt2J6e
boozes 7ZBMn5eYZ4kRHuZNKzHKdXKeDw4Is0eh
comradeship dAr4mUBnGEjcwj27vkc72bkRws20SUZL
hornet rvcSQxLCwLKwoyqm63MrBs1RiPuYJb3s
```

```
confrontation K1HScgMgzyBQYxBXkxsjKcQ2A5erDIjL
briquet's aHc51xHj1t3ANF7jh26dd7mHWBfd8VKz
encapsulate STOVYQEMWtFz54JtjJRrhDXgZcfVw81S
wildfowls PqcMofjmKj8NBvO9exdu7FY2NG6WUMzb
Finland xgXsIYgqUCMriMoT7W2dSwTG1DCvbRvU
[bandit7@bandit:~$ grep "millionth" data.txt
millionth cvX2JJa4CFALtqS87jk27qwqGhBM9plV
[bandit7@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
[Harshil@KVMs-MacBook-Air-2 ~ % ssh -p 2220 bandit8@bandit.labs.overthewire.org
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
```



Welcome to OverTheWire!

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--[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

LEVEL-9

```
[bandit8@bandit:~$ ls
data.txt
[bandit8@bandit:~$ cat data.txt
VkBAEWyIibVkeURZV5mowiGg6i3m7Be0
zdd2ctVveROGeis2WE3TeLZMeL5jL7iM
sYSokIATVvFUKU4sAHTtMarfjlZWj5i
ySvsTw1MgnUF0n86Fgmn2TNjkS01rV72
NLWvtQvL7EaqBNx2x4eznR1QONUL1CYZ
LfrBHfAh0pP9bgGAZP4QrVku3pysAYC
U0NYdD3wHZKpfEg9qQQOLJImAJy6qxhS
flyKxCbHB8uLTaIB5LXqQNuJj3yj00eh
TThRArdF2ZEXMO47TIYkyPPLtvzzLcDf
cIPbot7oYveUPNxDMhv1hiri50CqpkTG
kJTBM8k90HyXwZ2aJMQkV23u0gyuoIO
J6Lzp6ZqTJsOuJRTXcvhwKfM0KK3Xtbl
NLWvtQvL7EaqBNx2x4eznR1QONUL1CYZ
0N65ZPpNGkJJePzFxctCRZRXVrCbUGfm
SHMAMUEzQe4mV7SJpETTZFsyNRJsZE2k
I3fc578VLa7m0Q1t9zArPPOPY7aDVBCJ
8jtZmvqp9PTi8tp1oybBM663NQH3fhII
1ETSSkgjfQj1cJeFzXLJWzKzza3iWcJa
bRnktwNdxFy2RPZIshXJikswwEzJGvJ9
0Xo6DLyK5izRqEtBA7sW2SRmlAixWYSg
iIaOHQG7ZLdimomwMQaGIF7vib1RmXBh
nJRB4MipHMdTmFylFc1NlqmywgxDsdoI
337o85y40ymIh99WPUtotkb114evfAkC
07KC3ukwX7kswl8Le9ebb3H3sOoNTsR2
Hq6uxRAkKPNLnH6eRSFDzXtvVt0CSsee
hA60fhj75FPgqnCKEJ9g6pLSKapxxmGC
DxxLvJ16cGHXLT70W4xqS7Qrfny1K011
wjNwumEX58RUQTrufHMciWz5Yx10GtTC
LfrBHfAh0pP9bgGAZP4QrVku3pysAYC
kUbOkhsIw6GSp0WI2YUo1Q3hDxFU0iQn
I3fc578VLa7m0Q1t9zArPPOPY7aDVBCJ
33xpPQhjt4Q2mqtX4sCVRwH2Zyh82E8R
PQKOeIQwTw490Y8yobuxZAOL4cNmVo1D
0N65ZPpNGkJJePzFxctCRZRXVrCbUGfm
I3fc578VLa7m0Q1t9zArPPOPY7aDVBCJ
iwE0KTeKQ8PWihqvjUnpu52YZeIO8Pqb
0Xo6DLyK5izRqEtBA7sW2SRmlAixWYSg
7KaMzgnYMUeMISP9vuT3Dvsc06qfq9u
33xpPQhjt4Q2mqtX4sCVRwH2Zyh82E8R
I3fc578VLa7m0Q1t9zArPPOPY7aDVBCJ
e5HF14ur1rAxPPv2mHzg1uYKMuos4fwp
UASW6CQwD6MRzftu6FAfyXBK0cVvnBLP
ptb5ZW8TcgD3U6gOGCcN31xCDGIoQSEa
```

10 sYSokIATVvFUKU4sAHTtMarfj1ZWWj5i
10 SzwgS2ADSjP6yp0zp2bIvdqNyusRtrHj
10 TKUtQbeYnEzzYIne7BinoBx2bHFLBXzG
10 TThRArdF2ZEXM047TIYkyPPLtvzzLcDf
10 tVW9iY1Ml0uHPK4usZnN8oZXbjRt2ATY
10 U0NYdD3wHZKpfEg9qGQOLJimAJy6qxhS
10 UASW6CQwD6MRzftu6FAfyXBK0cVvnBLP
10 UJiCNvDNfgb3fcCj8PjjnAXHqUM63Uyj
10 UjsVbcqKeJqdCZQCDMkzv6A9X7hLbNE4
1 UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhR
10 UVnZvhiVQEczaz5j18U14sMVZQhjuXia
10 V2d9umHiuPLYLIDsuHj0fr0EmreCZMaA
10 v9zaxkVA0dIOlITZY2uoCtB1fX2gmly9
10 VkBAEWyIibVkeURZV5mowiGg6i3m7Be0
10 w4zUWFGTUrAAh81NkS8gH3WK2zowBEkA
10 WBqr9xvf6mYTT5kLcTGC6jb3ex94xWr
10 wjNwumEX58RUQTrufHMciWz5Yx10GtTC
10 X1JHOUkrb4KgugMXIzMWWIWvRkeZleTI
10 XyeJdbriUJyGtdGx8cXLQST0pwu5cvpcA
10 yo0HbSe2GM0jJNhRQLxwoPp7ayYEmRKY
10 ySvsTw1MgnUF0n86Fgmn2TNjks01rV72
10 Z9OC6DQpppreChPhwRJJV9YYTtrxNVc0
10 zdd2ctVveROGeis2WE3TeLZMeL5jL7iM

```
[bandit8@bandit:~$ exit
```

[Logout](#)

Connection to bandit.labs.overthewire.org closed.

```
[Harshil@KVMs-MacBook-Air-2 ~ % ssh -p 2220 bandit9@bandit.labs.overthewire.org
```

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

[bandit9@bandit.labs.overthewire.org's password:

Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux



LEVEL-10

```
[bandit9@bandit:~$ ls
data.txt
[bandit9@bandit:~$ cat data.txt
?L?lω;??BO\>?GX??NdT$??x7??@D@?o??+D??B??M?Z/, _??w??#?5???
                                                 Ÿ?e?&?-??Ϣ?6Q8??J?%fa?
?np?61
|c???WW"&8??f??
??VJ??S~????d?
?p?k?U?, ?v?Am??H??t?3?m?(ā?E'
     ???'???:??uP?v????????g?
!?'?
t??!P???
p
?q????<(?^?5?????|?−r??o??B??m?¶??D51?
>?'?.9o?c?????D.?\\UU,L??},?
          c?D^??!!??`??P??KT??5??)X?燭F?]??2?J?-5?|P?rL{????DX?
)W[b??
??7<?(E2Qk)??>Q?G?nW([?>??L??[??ŵ-?Gw?J?p_?pT??E?}-?????
     ???
?
v????[d4????[?E?ed{s?5?d!*?.?d?d?6??1Td?=??{?????a??
     ?????C?r?A?G??1?~??趨??b??2%?0`c??*?!`3r????/?ZĒ:XL??}????}?$?x?X??7??kj??H??
     `??&?Q9?..J??//M$?a?^?;yzEt!??WpU~eb`Rn,I??
?MT??B$1?,?oμ|\{e??V?媧??G?7?4@[??tk?4Γ??hob??X??Q?????O?`?<!??L?VSXdKi??um??m?\?WB|{?,x????vd??T??xIY.}?M&F?,0f?????RV{??l????#@^?S?Jp?`E0%?s??~?c?}???
?o?/{????^??P8Щ9d
??r-49?G]vQ?????n?R?Cm?p????~?{?r'?H(−?−r?ZU's?xz????]+a5?g???|A??x*_f?^??[Ro?+0Q??f??3,U?tG??y?*
     ?????GhG$??==== the*2i"4??d??k?D
?I???Y?i?3_??6z??;`??G?GJ??;Y?ä??????.??k7B?L??N??%|??闡???
     pu??OMd?H
     6m???њ?)?I(n?
     ?z??>?5?G????????C????3CA?¶??9??hCx類n*!Y???
     `?J¶??cq      ?u5?X??sG?&7?$
?r\P???0Z????}IĀ?_,?    ?(??I??%???????
     j????3m????}??κ?,??,??8\?o?????E~}??h??m????DUJmUZm?W??m:+?r*Z????fZ??T????V?8\A$??M????????m??c'6??G???PTb?'5?
?
????>?am
???6?0>?m?J"rjrW??i?%&p?w4??Tz?¶FG0 +3\??|
     ?ax"
     ux.j?:??.?w{???X-?
o??$???M?P?=:G e???g?
     F^?GH?(

?pE ??0NN?yzb?[????a}o???k???J?????????8????-??????Ap?=z?Fv]???r?%?H?????M0„?5m??)LI??)'0K?\?Ne?????9DLW
?l??l(??S?HcEf~Z?_*?.b??&??_??.B.?%?l`??+S?$0`?? flf??v?A?o7<V?S¶?â?S}1?rr?o?&?? ??g"m????t?bza?
     ???(
     ??$???a{KG?S?6?(7

b/???bX?C?E?RW??L??7c?=?????? ?{"????<?       ?EF?λ?G??|?      "?g???側lj}ZRO?Q?1"-?ab}9K?h?i;"E
?X38UL???{?γ?Vx@??Yr:??>?Y `04?tm[?Y"?}???+?de??wUhv?v'~?m??????Bf????`?U?Z1?b?JG??&?m??O?????{??M8??nKRi?0?U?F
```

```
?V??0?F??4>??% ?f???g?I???ZC0?x????#D??J1????????l'E??>?Bs  
??Z??!?%?^??t>? ' ?a~?P??U?????K}L  
?p?L ?!?y??A?  
G%?d  
 ??\??????}??'6 , "?0%?6?.??D7?X??Cv?U  
??D1??ANYwPCpk?Z??L????!Hu??~?H??..p??A;m$W??y??fJ??, ??Xk]E?g)??5?\??_/??oc?X\"'K?'??iN?@?T??W?kS?bh}s?&?????MD?w@???"'?Y?Z?ÿ?71U??S?J?e??Z?P'uP?C?4;b?l?_8?  
.?.D??D}?[?>?2?? ??W?J??UMC?@j?b!?????IO}¬Ch?Ru?P@j????(????????????? ?绌?J??\‐A:b?f2??5U?????0;l??  
?D}?)J<?M??xj3?H??=?q?2??Z$`#?m;????i/a??b??/?P??Rs ?t\????f????b*?????????玆 ??S???F??@2?7?A????*?zHR?B?-?@?p??})??e??Z??A?:/p?T?? KA?sCtY???&???Z/1x+?Bo  
U?ej8z??????  
?33\?w??Lnz??wS?^??f}$$??????Fd????:???R???X?(i??E+n??@?  
[D?I?i??lo?'??k;Z??/????h??1r?)<[?3XB(?<@G????I?{_.??v%??G ???m0???Ö??!\`? ??L??W??>?o"?W????v?e???HD?1KOAN?????KQf, ???bandit9@bandit:~$  
[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:~$ exit  
logout  
Connection to bandit.labs.overthewire.org closed.  
[Harshil@KVMs-MacBook-Air-2 ~ % ssh -p 2220 bandit10@bandit.labs.overthewire.org  
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
```

overthewire.org

LEVEL-11

```
[bandit10@bandit:~$ ls
data.txt
[bandit10@bandit:~$ cat data.txt
VGh1IH Bhc3N3b3JkIGlzIE1GdWt3S0dzRlc4TU9xM01SRnFyeEUxaHhUTkViVV BSCg==
[bandit10@bandit:~$ echo 'VGh1IH Bhc3N3b3JkIGlzIE1GdWt3S0dzRlc4TU9xM01SRnFyeEUxaHhUTkViVV BSCg==' | base64 --decode
The password is IFukwKGsFW8M0q3IRFqrxE1hxTNEbUPR
[bandit10@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
[Harshil@KVMs-MacBook-Air-2 ~ % ssh -p 2220 bandit11@bandit.labs.overthewire.org
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
```

A large grid of phonetic symbols from the International Phonetic Alphabet (IPA) chart. The grid consists of approximately 10 columns and 10 rows of symbols, each representing a different sound or combination of sounds.

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

LEVEL-12

```
bandit11@bandit:~$ ls  
data.txt  
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:~$ exit
```

```
logout  
Connection to bandit.labs.overthewire.org closed.
```

```
[Harshil@KVMs-MacBook-Air-2 ~ % ssh -p 2220 bandit12@bandit.labs.overthewire.org  
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
```



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

LEVEL-13

```
[bandit12@bandit:~$ ls
data.txt
[bandit12@bandit:~$ cat data.txt
00000000: 1f8b 0808 0650 b45e 0203 6461 7461 322e ....P.^..data2.
00000010: 6269 6e00 013d 02c2 fd42 5a68 3931 4159 bin..=...BZh91AY
00000020: 2653 598e 4f1c c800 001e 7fff fbf9 7fda &SY.O.....
00000030: 9e7f 4f76 9fcf fe7d 3fff f67d abde 5e9f ..Ov...}?.}..^.
00000040: f3fe 9fbf f6f1 fee0 bfdf a3ff b001 3b1b .....;.
00000050: 5481 a1a0 1ea0 1a34 d0d0 001a 68d3 4683 T.....4....h.F.
00000060: 4680 0680 0034 1918 4c4d 190c 4000 0001 F.....4..LM..@...
00000070: a000 c87a 81a3 464d a8d3 43c5 1068 0346 ...z..FM..C..h.F
00000080: 8343 40d0 3400 0340 66a6 8068 0cd4 f500 .C@.4..@f..h....
00000090: 69ea 6800 0f50 68f2 4d00 680d 06ca 0190 i.h..Ph.M.h.....
000000a0: 0000 69a1 a1a0 1ea0 194d 340d 1ea1 b280 ..i.....M4.....
000000b0: f500 3406 2340 034d 3400 0000 3403 d400 ..4.#@.M4...4...
000000c0: 1a07 a832 3400 f51a 0003 43d4 0068 0d34 ...24.....C..h.4
000000d0: 6868 f51a 3d43 2580 3e58 061a 2c89 6bf3 hh..=C%.>X...,k.
000000e0: 0163 08ab dc31 91cd 1747 599b e401 0b06 .c....1....GY.....
000000f0: a8b1 7255 a3b2 9cf9 75cc f106 941b 347a ..rU....u.....4z
00000100: d616 55cc 2ef2 9d46 e7d1 3050 b5fb 76eb ..U....F..0P..v.
00000110: 01f8 60c1 2201 33f0 0de0 4aa6 ec8c 914f ..`.".3...J....0
00000120: cf8a aed5 7b52 4270 8d51 6978 c159 8b5a ....{RBp.Qix.Y.Z
00000130: 2164 fb1f c26a 8d28 b414 e690 bfdd b3e1 !d...j.(.....
00000140: f414 2f9e d041 c523 b641 ac08 0c0b 06f5 ../.A.#.A.....
00000150: dd64 b862 1158 3f9e 897a 8cae 32b0 1fb7 .d.b.X?..z..2...
00000160: 3c82 af41 20fd 6e7d 0a35 2833 41bd de0c <..A ..n}.5(3A...
00000170: 774f ae52 a1ac 0fb2 8c36 ef58 537b f30a w0.R.....6.XS{..
00000180: 1510 cab5 cb51 4231 95a4 d045 b95c ea09 .....QB1...E.\..
00000190: 9fa0 4d33 ba43 22c9 b5be d0ea eeb7 ec85 ..M3.C".....
000001a0: 59fc 8bf1 97a0 87a5 0df0 7acd d555 fc11 Y.....z..U..
000001b0: 223f fdc6 2be3 e809 c974 271a 920e acbc "?..+....t'.....
000001c0: 0de1 f1a6 393f 4cf5 50eb 7942 86c3 3d7a ....9?L.P.yB..=z
000001d0: fe6d 173f a84c bb4e 742a fc37 7b71 508a .m.?..L.Nt*.7{qP.
000001e0: a2cc 9cf1 2522 8a77 39f2 716d 34f9 8620 ....%"..w9.qm4..
000001f0: 4e33 ca36 eec0 cd4b b3e8 48e4 8b91 5bea N3.6...K..H...[.
00000200: 01bf 7d21 0b64 82c0 3341 3424 e98b 4d7e ..}!.d..3A4$..M~
00000210: c95c 1b1f cac9 a04a 1988 43b2 6b55 c6a6 .\.....J..C.kU..
00000220: 075c 1eb4 8ecf 5cdf 4653 064e 84da 263d .\.....\..FS.N..&=
00000230: b15b bcea 7109 5c29 c524 3afc d715 4894 .[..q.\).$:...H.
00000240: 7426 072f fc28 ab05 9603 b3fc 5dc9 14e1 t&./.(....]...
00000250: 4242 393c 7320 98f7 681d 3d02 0000 BB9<s ..h.=...
[bandit12@bandit:~$ mkdir /tmp/Zeus
[bandit12@bandit:~$ cp data.txt /tmp/Zeus
[bandit12@bandit:~$ cd /tmp/Zeus
[bandit12@bandit:/tmp/Zeus$ ls
data.txt
```

```
[bandit12@bandit:~$ mkdir /tmp/Zeus
[bandit12@bandit:~$ cp data.txt /tmp/Zeus
[bandit12@bandit:~$ cd /tmp/Zeus
[bandit12@bandit:/tmp/Zeus$ ls
data.txt
[bandit12@bandit:/tmp/Zeus$ xxd -r data.txt
P?^data2.bin=??BZh91AY&SY?O?????0v???}???}??^??????4????;??I??h?F?F??4LM
@??z??FM??C?hF?C@?4@f??h
4hh?=C%?>X,?k??1??GY??
??i?hPh?Mh
?J?弑 O?{RBp?Qix?Y?Z!d??j?(?弑` ??/?A?#?A??0P??v??`?"3?
??d?bX??z??2??<??A ?n}
5(3A??
wO?R????6?XS{?
??9?L?P?yB??=z?m??L?Nt*?7{qP??%?"w9?qm4?? N3?6???K??H納 [??}!
d??3A4$?M~?\dJ?C?kUR\???\?FSN??&=?[??q \)?$:??H?t&/?(????]??BB9<s ??h=bandit12@bandit:/tmp/Zeus$
[bandit12@bandit:/tmp/Zeus$ file data.txt
data.txt: ASCII text
[bandit12@bandit:/tmp/Zeus$ xxd -r data.txt > data
[bandit12@bandit:/tmp/Zeus$ ls
data data.txt
[bandit12@bandit:/tmp/Zeus$ 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/Zeus$ man xxd
[bandit12@bandit:/tmp/Zeus$ man xxd
[bandit12@bandit:/tmp/Zeus$ rm data
[bandit12@bandit:/tmp/Zeus$ ls
data.txt
[bandit12@bandit:/tmp/Zeus$ xxd -r data.txt newfile
[bandit12@bandit:/tmp/Zeus$ ls
data.txt newfile
[bandit12@bandit:/tmp/Zeus$ file newfile
newfile: gzip compressed data, was "data2.bin", last modified: Thu May  7 18:14:30 2020, max compression, from Unix
[bandit12@bandit:/tmp/Zeus$ mv newfile newfile.gz
[bandit12@bandit:/tmp/Zeus$ ls
data.txt newfile.gz
[bandit12@bandit:/tmp/Zeus$ gzip -d newfile.gz
[bandit12@bandit:/tmp/Zeus$ ls
data.txt newfile
[bandit12@bandit:/tmp/Zeus$ bzcat newfile.bz2
bzcat: Can't open input file newfile.bz2: No such file or directory.
[bandit12@bandit:/tmp/Zeus$ file newfile
newfile: bzip2 compressed data, block size = 900k
[bandit12@bandit:/tmp/Zeus$ mv newfile newfile.bz2
[bandit12@bandit:/tmp/Zeus$ ls
data.txt newfile.bz2
```

```
data.txt newfile.bz2
[bandit12@bandit:/tmp/Zeus$ bzcat newfile.bz2
P?^data4.bin??=H???F:t0E?D4)rgri?KPZ?RNP?H3($q ???Ej?LR1???t?M5???=-+;Z??Y???y????????~??(??{S-?z?u?z|??hπBQUk(dE: ?X<?e??u???#?k??{?????o???C?+_s????T?.bb?r?0
?????h$??3???"?|?j?jT8Y?R??Q???a??????#??|?Q?Q?9+綜 3a?rU*?#%??0??q3?$???
%?U?y~,tz?xS?04?6d?kBC??=?me?"??kGdEo?n?,mo??0?Sz6??8??T?[??\fI~?c.?Ȑ?*?:Ȑo??Ȑm?k???,???
?
[ ?Pbandit12@bandit:/tmp/Zeus$ ls
data.txt newfile.bz2
[bandit12@bandit:/tmp/Zeus$ bzip2 -d newfile.bz2
[bandit12@bandit:/tmp/Zeus$ ls
data.txt newfile
[bandit12@bandit:/tmp/Zeus$ file newfile
newfile: gzip compressed data, was "data4.bin", last modified: Thu May 7 18:14:30 2020, max compression, from Unix
[bandit12@bandit:/tmp/Zeus$ mv newfile newfile.gz
[bandit12@bandit:/tmp/Zeus$ ls
data.txt newfile.gz
[bandit12@bandit:/tmp/Zeus$ gzip -d newfile.gz
[bandit12@bandit:/tmp/Zeus$ ls
data.txt newfile
[bandit12@bandit:/tmp/Zeus$ file newfile
newfile: POSIX tar archive (GNU)
[bandit12@bandit:/tmp/Zeus$ mv newfile newfile.tar
[bandit12@bandit:/tmp/Zeus$ ls
data.txt newfile.tar
[bandit12@bandit:/tmp/Zeus$ tar -x newfile.tar
tar: Refusing to read archive contents from terminal (missing -f option?)
tar: Error is not recoverable: exiting now
[bandit12@bandit:/tmp/Zeus$ tar -f newfile.tar
tar: You must specify one of the '-Acdtrux', '--delete' or '--test-label' options
Try 'tar --help' or 'tar --usage' for more information.
[bandit12@bandit:/tmp/Zeus$ tar -A newfile.tar
tar: Options '-Aru' are incompatible with '-f -'
Try 'tar --help' or 'tar --usage' for more information.
[bandit12@bandit:/tmp/Zeus$ tar -x -f newfile.tar
[bandit12@bandit:/tmp/Zeus$ ls
data5.bin data.txt newfile.tar
[bandit12@bandit:/tmp/Zeus$ file data5.bin
data5.bin: POSIX tar archive (GNU)
[bandit12@bandit:/tmp/Zeus$ ls
data5.bin data.txt newfile.tar
[bandit12@bandit:/tmp/Zeus$ mv data5.bin data5.tar
[bandit12@bandit:/tmp/Zeus$ ls
data5.tar data.txt newfile.tar
[bandit12@bandit:/tmp/Zeus$ tar -x -f data5.tar
[bandit12@bandit:/tmp/Zeus$ ls
data5.tar data6.bin data.txt newfile.tar
[bandit12@bandit:/tmp/Zeus$ file data6.bin
```

```
data5.tar data6.bin data.txt newfile.tar
[bandit12@bandit:/tmp/Zeus$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
[bandit12@bandit:/tmp/Zeus$ mv data6.bin data6.bz2
[bandit12@bandit:/tmp/Zeus$ ls
data5.tar data6.bz2 data.txt newfile.tar
[bandit12@bandit:/tmp/Zeus$ bzip2 -d data6.bz2
[bandit12@bandit:/tmp/Zeus$ ls
data5.tar data6 data.txt newfile.tar
[bandit12@bandit:/tmp/Zeus$ file data6
data6: POSIX tar archive (GNU)
[bandit12@bandit:/tmp/Zeus$ mv data6 data6.tar
[bandit12@bandit:/tmp/Zeus$ ls
data5.tar data6.tar data.txt newfile.tar
[bandit12@bandit:/tmp/Zeus$ tar -x -f data6.tar
[bandit12@bandit:/tmp/Zeus$ ls
data5.tar data6.tar data8.bin data.txt newfile.tar
[bandit12@bandit:/tmp/Zeus$ 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/Zeus$ mv data8.bin data8.gz
[bandit12@bandit:/tmp/Zeus$ ls
data5.tar data6.tar data8.gz data.txt newfile.tar
[bandit12@bandit:/tmp/Zeus$ gzip -d data8.gz
[bandit12@bandit:/tmp/Zeus$ ls
data5.tar data6.tar data8 data.txt newfile.tar
[bandit12@bandit:/tmp/Zeus$ file data8
data8: ASCII text
[bandit12@bandit:/tmp/Zeus$ cat data8
The password is 8ZjyCRiBWFYkneahHwxCv3wb2a10RpYL
[bandit12@bandit:/tmp/Zeus$ exit
logout
Connection to bandit.labs.overthewire.org closed.
[Harshil@KVMs-MacBook-Air-2 ~ % ssh -p 2220 bandit13@bandit.labs.overthewire.org
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
```

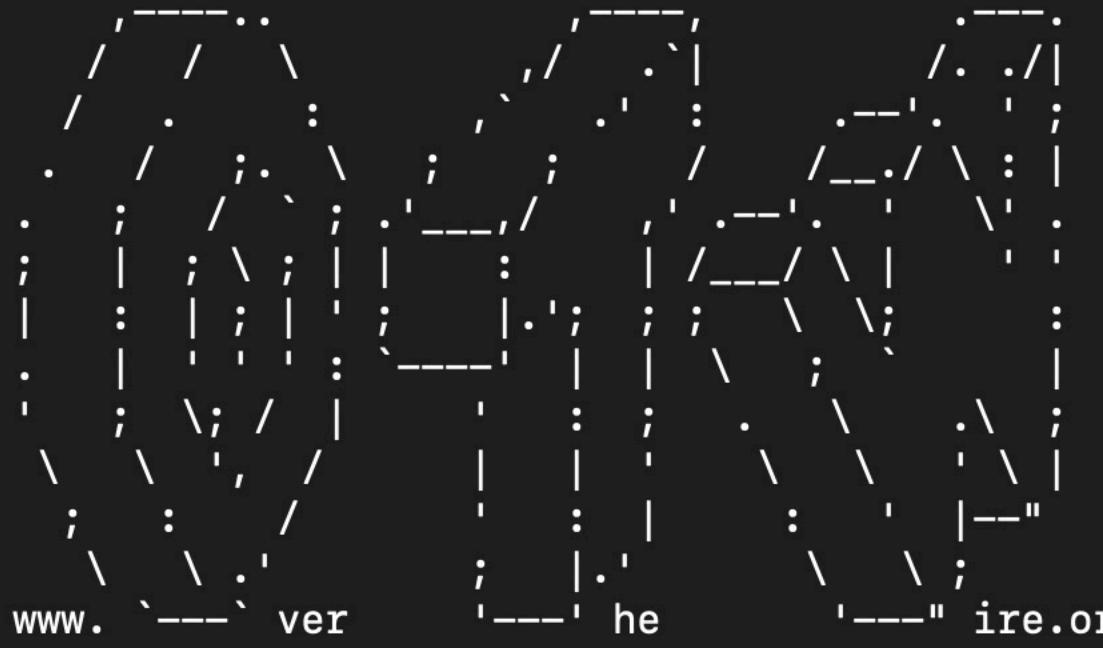
```
[bandit13@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```



LEVEL-14

```
[bandit13@bandit:~$ ls
sshkey.private
[bandit13@bandit:~$ man ssh
[bandit13@bandit:~$ ssh -i sshkey.private bandit14@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 SHA256:98UL0ZWr85496EtCRkKlo20X30PnyPSB5tB5RPbhczc.
[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.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.

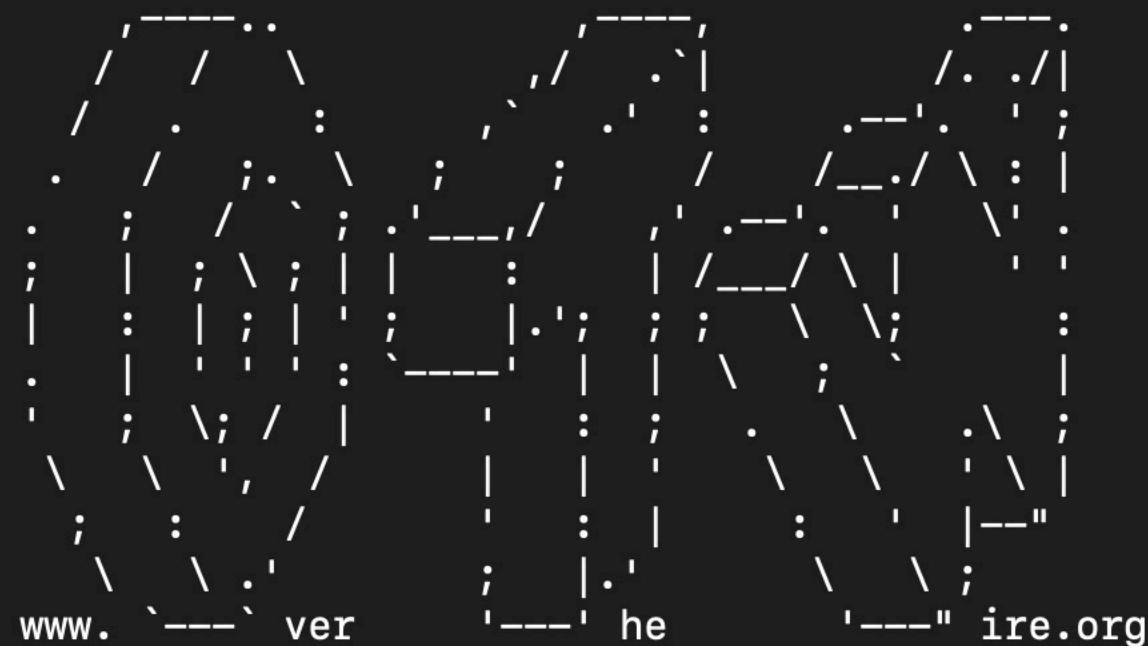
If you are playing "somegame", then:

- * 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

```
[bandit14@bandit:~$ ls
[bandit14@bandit:~$ ls -a
. .. .bash_logout .bashrc .profile .ssh
[bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e
[bandit14@bandit:~$ exit
logout
Connection to localhost closed.
[bandit13@bandit:~$ ssh -i sshkey.private bandit14@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 SHA256:98UL0ZWr85496EtCRkKlo20X30PnyPSB5tB5RPbhczc.
[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.otw.local 5.4.8 x86_64 GNU/Linux



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--[Playing the games]--

This machine might hold several wargames.

If you are playing "somegame", then:

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- * Most LEVELS are stored in /somegame/.
- * PASSWORDS for each level are stored in /etc/somegame_pass/.

LEVEL-15

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/
- * 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!

```
[bandit14@bandit:~$ nc localhost 30000
^Z
[1]+  Stopped                  nc localhost 30000
[bandit14@bandit:~$ ls
[bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4wcYUJFw0k0XLSh1DzztnTBHiqxU3b3e
[bandit14@bandit:~$ nc localhost 30000
[4wcYUJFw0k0XLSh1DzztnTBHiqxU3b3e
Correct!
BfMYroe26WYalil77FoDi9qh59eK5xNr
```

```
[bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e
[bandit14@bandit:~$ nc localhost 30000
[4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e
Correct!
BfMYroe26WYalil77FoDi9gh59eK5xNr
```

```
[bandit14@bandit:~$ exit
logout
Connection to localhost closed.
[bandit13@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
[Harshil@KVMs-MacBook-Air-2 ~ % ssh -p 2220 bandit15@bandit.labs.overthewire.org
This is a OverTheWire game server. More information on http://www.overthewire.org/wargame
```

```
[bandit15@bandit.labs.overthewire.org's password:  
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```

A large grid of phonetic symbols (dotted lines forming various shapes like /, \, ., :, ;, and |) used for a dot-to-dot activity.

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--[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/`.