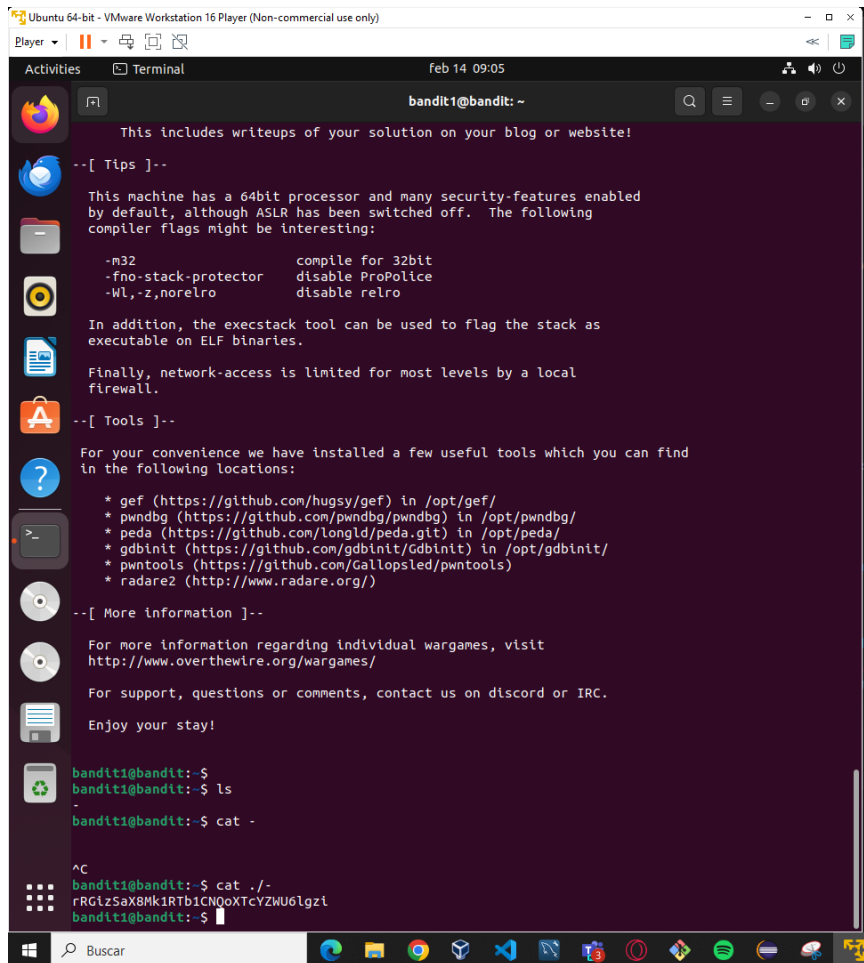


```
bandit0@bandit: ~  
  
* don't leave orphan processes running  
* don't leave exploit-files laying around  
* don't annoy other players  
* don't post passwords or spoilers  
* again, DONT POST SPOILERS!  
  This includes writeups of your solution on your blog or website!  
  
--[ Tips ]--  
  
This 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 useful tools which you can find  
in the following locations:  
  
* gef (https://github.com/hugsy/gef) in /opt/gef/  
* pwndbg (https://github.com/pwndbg/pwndbg) in /opt/pwndbg/  
* peda (https://github.com/longld/peda.git) in /opt/peda/  
* gdbinit (https://github.com/gdbinit/Gdbinit) in /opt/gdbinit/  
* pwntools (https://github.com/Gallopsled/pwntools)  
* radare2 (http://www.radare.org/)  
  
--[ More information ]--  
  
For more information regarding individual wargames, visit  
http://www.overthewire.org/wargames/  
  
For support, questions or comments, contact us on discord or IRC.  
  
Enjoy your stay!  
  
bandit0@bandit:~$ ls  
readme  
bandit0@bandit:~$ cat readme  
NH2SXQwcBdpmTEzi3bvBHMM9H66vVXjL  
bandit0@bandit:~$
```



```
Ubuntu 64-bit - VMware Workstation 16 Player (Non-commercial use only)
Player
Activities Terminal feb 14 09:11 bandit2@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 useful tools which you can find
in the following locations:

* gef (https://github.com/hugsy/gef) in /opt/gef/
* pwndbg (https://github.com/pwndbg/pwndbg) in /opt/pwndbg/
* peda (https://github.com/longld/peda.git) in /opt/peda/
* gdbinit (https://github.com/gdbinit/Gdbinit) in /opt/gdbinit/
* pwntools (https://github.com/Gallopsled/pwntools)
* radare2 (http://www.radare.org/)

--[ More information ]--

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

For support, questions or comments, contact us on discord or IRC.

Enjoy your stay!

bandit2@bandit:~$ ls
spaces in this filename
bandit2@bandit:~$ cat spaces in this filename
cat: spaces: No such file or directory
cat: in: No such file or directory
cat: this: No such file or directory
cat: filename: No such file or directory
bandit2@bandit:~$ cat "spaces in this filename"
aBZ0W5EmUfAf7kHTQeQwD8bauFJ2LAiG
bandit2@bandit:~$
```

```
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 useful tools which you can find
in the following locations:

* gef (https://github.com/hugsy/gef) in /opt/gef/
* pwndbg (https://github.com/pwndbg/pwndbg) in /opt/pwndbg/
* peda (https://github.com/longld/peda.git) in /opt/peda/
* gdbinit (https://github.com/gdbinit/Gdbinit) in /opt/gdbinit/
* pwntools (https://github.com/Gallopsled/pwntools)
* radare2 (http://www.radare.org/)

--[ More information ]--

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

For support, questions or comments, contact us on discord or IRC.

Enjoy your stay!

bandit3@bandit:~$ cd inhere
bandit3@bandit:~/inhere$ ls -a
. . . .hidden
bandit3@bandit:~/inhere$ cat .hidden
2EW7BBsr6aMMoJ2HjW067dm8EgX26xNe
bandit3@bandit:~/inhere$
```

```
Ubuntu 64-bit - VMware Workstation 16 Player (Non-commercial use only)
Player
Activities Terminal Feb 14 09:18 bandit4@bandit: ~/inhere

* gef (https://github.com/hugsy/gef) in /opt/gef/
* pwndbg (https://github.com/pwndbg/pwndbg) in /opt/pwndbg/
* peda (https://github.com/longld/peda.git) in /opt/peda/
* gdbinit (https://github.com/gdbinit/Gdbinit) in /opt/gdbinit/
* pwntools (https://github.com/Gallopsled/pwntools)
* radare2 (http://www.radare.org/)

--[ More information ]--

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

For support, questions or comments, contact us on discord or IRC.

Enjoy your stay!

bandit4@bandit:~$ cd inhere
bandit4@bandit:~/inhere$ ls -la
ls-la: command not found
bandit4@bandit:~/inhere$ ls -la
total 48
drwxr-xr-x 2 root root 4096 Oct 5 06:19 .
drwxr-xr-x 3 root root 4096 Oct 5 06:19 ..
-rw-r----- 1 bandit5 bandit4 33 Oct 5 06:19 -file00
-rw-r----- 1 bandit5 bandit4 33 Oct 5 06:19 -file01
-rw-r----- 1 bandit5 bandit4 33 Oct 5 06:19 -file02
-rw-r----- 1 bandit5 bandit4 33 Oct 5 06:19 -file03
-rw-r----- 1 bandit5 bandit4 33 Oct 5 06:19 -file04
-rw-r----- 1 bandit5 bandit4 33 Oct 5 06:19 -file05
-rw-r----- 1 bandit5 bandit4 33 Oct 5 06:19 -file06
-rw-r----- 1 bandit5 bandit4 33 Oct 5 06:19 -file07
-rw-r----- 1 bandit5 bandit4 33 Oct 5 06:19 -file08
-rw-r----- 1 bandit5 bandit4 33 Oct 5 06:19 -file09
bandit4@bandit:~/inhere$ file ./*
-bash: file./*: No such file or directory
bandit4@bandit:~/inhere$ file ./*
./-file00: data
./-file01: data
./-file02: data
./-file03: data
./-file04: data
./-file05: data
./-file06: data
./-file07: ASCII text
./-file08: data
./-file09: data
bandit4@bandit:~/inhere$ cat ./-file07
lrIWMi6bB37KxficQZqUd0IYfr6eEqR
bandit4@bandit:~/inhere$
```

```
Ubuntu 64-bit - VMware Workstation 16 Player (Non-commercial use only)
Player
Activities Terminal feb 14 09:24
bandit5@bandit: ~/inhere
For more information regarding individual wargames, visit
http://www.overthewire.org/wargames/
For support, questions or comments, contact us on discord or IRC.
Enjoy your stay!
bandit5@bandit:~$ ls
inhere
bandit5@bandit:~$ cd inhere
bandit5@bandit:~/inhere$ ls -la
total 88
drwxr-x--- 22 root bandit5 4096 Oct 5 06:19 .
drwxr-xr-x 3 root root 4096 Oct 5 06:19 ..
drwxr-x--- 2 root bandit5 4096 Oct 5 06:19 maybehere00
drwxr-x--- 2 root bandit5 4096 Oct 5 06:19 maybehere01
drwxr-x--- 2 root bandit5 4096 Oct 5 06:19 maybehere02
drwxr-x--- 2 root bandit5 4096 Oct 5 06:19 maybehere03
drwxr-x--- 2 root bandit5 4096 Oct 5 06:19 maybehere04
drwxr-x--- 2 root bandit5 4096 Oct 5 06:19 maybehere05
drwxr-x--- 2 root bandit5 4096 Oct 5 06:19 maybehere06
drwxr-x--- 2 root bandit5 4096 Oct 5 06:19 maybehere07
drwxr-x--- 2 root bandit5 4096 Oct 5 06:19 maybehere08
drwxr-x--- 2 root bandit5 4096 Oct 5 06:19 maybehere09
drwxr-x--- 2 root bandit5 4096 Oct 5 06:19 maybehere10
drwxr-x--- 2 root bandit5 4096 Oct 5 06:19 maybehere11
drwxr-x--- 2 root bandit5 4096 Oct 5 06:19 maybehere12
drwxr-x--- 2 root bandit5 4096 Oct 5 06:19 maybehere13
drwxr-x--- 2 root bandit5 4096 Oct 5 06:19 maybehere14
drwxr-x--- 2 root bandit5 4096 Oct 5 06:19 maybehere15
drwxr-x--- 2 root bandit5 4096 Oct 5 06:19 maybehere16
drwxr-x--- 2 root bandit5 4096 Oct 5 06:19 maybehere17
drwxr-x--- 2 root bandit5 4096 Oct 5 06:19 maybehere18
drwxr-x--- 2 root bandit5 4096 Oct 5 06:19 maybehere19
bandit5@bandit:~/inhere$ ls -la maybehere00
total 72
drwxr-x--- 2 root bandit5 4096 Oct 5 06:19 .
drwxr-x--- 22 root bandit5 4096 Oct 5 06:19 ..
-rwxr-x--- 1 root bandit5 1039 Oct 5 06:19 -file1
-rwxr-x--- 1 root bandit5 551 Oct 5 06:19 .file1
-rw-r----- 1 root bandit5 9388 Oct 5 06:19 -file2
-rw-r----- 1 root bandit5 7836 Oct 5 06:19 .file2
-rwxr-x--- 1 root bandit5 7378 Oct 5 06:19 -file3
-rwxr-x--- 1 root bandit5 4802 Oct 5 06:19 .file3
-rwxr-x--- 1 root bandit5 6118 Oct 5 06:19 spaces file1
-rw-r----- 1 root bandit5 6850 Oct 5 06:19 spaces file2
-rwxr-x--- 1 root bandit5 1915 Oct 5 06:19 spaces file3
maybehere17/-file1: ASCII text, with very long lines (1132)
maybehere17/-file2: ASCII text, with very long lines (1790)
maybehere17/spaces file1: ASCII text, with very long lines (8360)
maybehere17/spaces file2: ASCII text, with very long lines (3386)
maybehere18/-file1: ASCII text, with very long lines (9696)
maybehere18/-file2: ASCII text
maybehere18/spaces file1: ASCII text, with very long lines (7333)
maybehere18/spaces file2: ASCII text, with very long lines (6347)
maybehere19/-file1: ASCII text, with very long lines (6301)
maybehere19/-file2: ASCII text, with very long lines (5593)
maybehere19/spaces file1: ASCII text, with very long lines (7185)
maybehere19/spaces file2: ASCII text, with very long lines (8784)
bandit5@bandit:~/inhere$ file */(.,)* | grep "ASCII text" | grep -v ', with very long lines'
maybehere10/.file2: ASCII text
maybehere15/.file2: ASCII text
maybehere01/-file2: ASCII text
maybehere08/spaces file1: ASCII text
maybehere12/-file2: ASCII text
maybehere15/spaces file2: ASCII text
maybehere18/-file2: ASCII text
bandit5@bandit:~/inhere$ du -b -a | grep 1033
1033 ./maybehere07/.file2
bandit5@bandit:~/inhere$ cat ./maybehere07/.file2
P4L4vucdmLnM8I7Vl7jG1ApGSfjYKqJU
bandit5@bandit:~/inhere$ exit
logout
Connection to bandit.labs.overthewire.org closed.
jochi@jochi-virtual-machine:~$
```

```
find: '/run/user/11002': Permission denied
find: '/run/user/11025': Permission denied
find: '/run/user/11014': Permission denied
find: '/run/user/11004': Permission denied
find: '/run/user/11020': Permission denied
find: '/run/user/11010': Permission denied
find: '/run/user/11012': Permission denied
find: '/run/user/11011': Permission denied
find: '/run/user/11000': Permission denied
find: '/run/user/11009': Permission denied
find: '/run/user/11001': Permission denied
find: '/run/user/11007': Permission denied
find: '/run/user/11008': Permission denied
find: '/run/user/11005': Permission denied
find: '/run/user/11013': Permission denied
find: '/run/user/11006/systemd/inaccessible/dir': Permission denied
find: '/run/sudo': Permission denied
find: '/run/screen/S-bandit20': Permission denied
find: '/run/multipath': Permission denied
find: '/run/cryptsetup': Permission denied
find: '/run/lvm': Permission denied
find: '/run/credentials/systemd-sysusers.service': Permission denied
find: '/run/systemd/propagate': Permission denied
find: '/run/systemd/unit-root': Permission denied
find: '/run/systemd/inaccessible/dir': Permission denied
find: '/run/lock/lvm': Permission denied
bandit6@bandit:~$ cat /var/lib/dpkg/info/bandit7.password
z7WtoNQ2XfjmMTWA8u5rN4vzqu4v99S
bandit6@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.

* pwntools (https://github.com/Gallopsled/pwntools)
* radare2 (http://www.radare.org/)

--[ More information ]--

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

For support, questions or comments, contact us on discord or IRC.

Enjoy your stay!

bandit8@bandit:~$ sort data.txt | uniq -u
EN632PlfYlZbn3PhVK3X0GSLnInNE00t
bandit8@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
jochi@jochi-virtual-machine:~$

* gef (https://github.com/hugsy/gef) in /opt/gef/
* pwndbg (https://github.com/pwndbg/pwndbg) in /opt/pwndbg/
* peda (https://github.com/longld/peda.git) in /opt/peda/
* gdbinit (https://github.com/gdbinit/Gdbinit) in /opt/gdbinit/
* pwntools (https://github.com/Gallopsled/pwntools)
* radare2 (http://www.radare.org/)

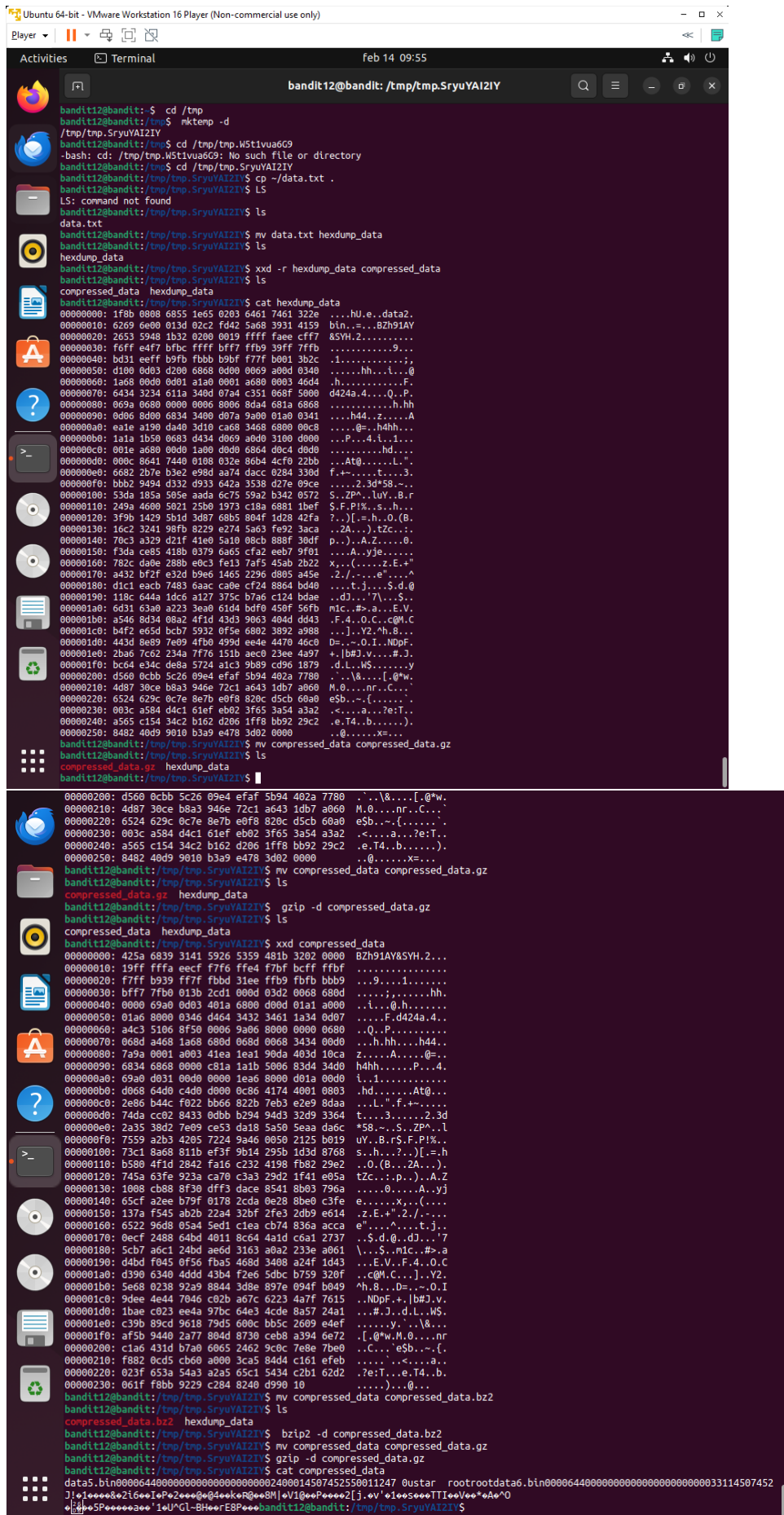
--[ More information ]--

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

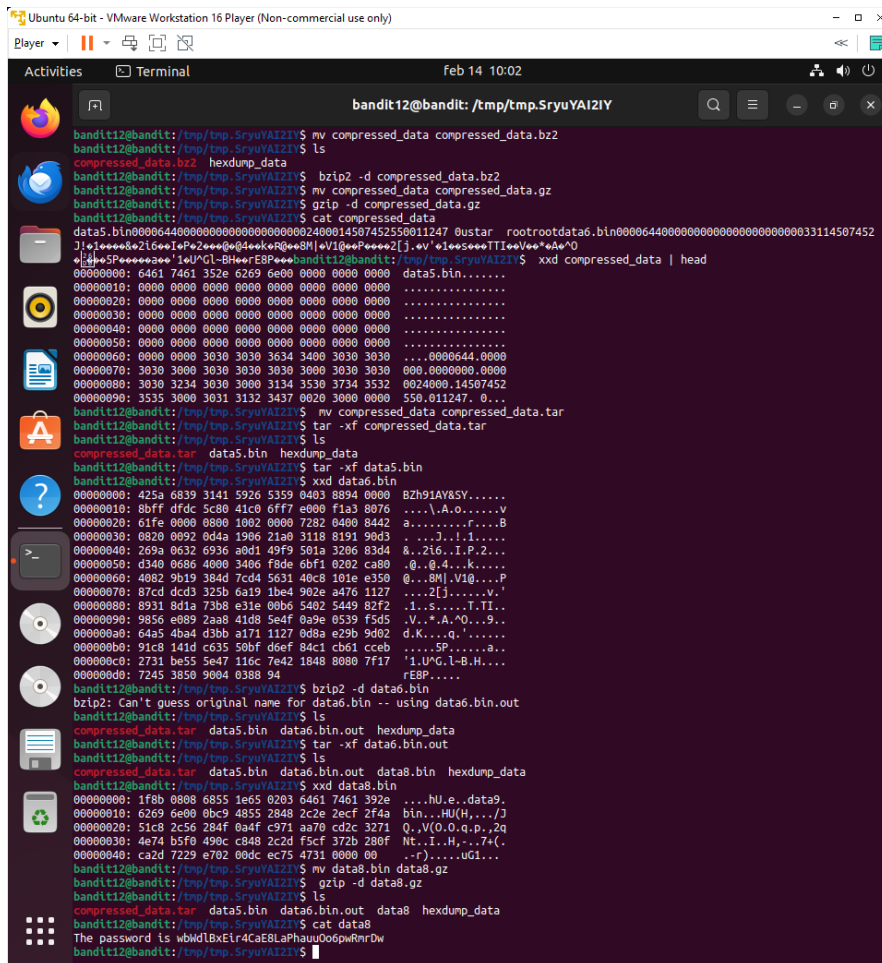
For support, questions or comments, contact us on discord or IRC.

Enjoy your stay!

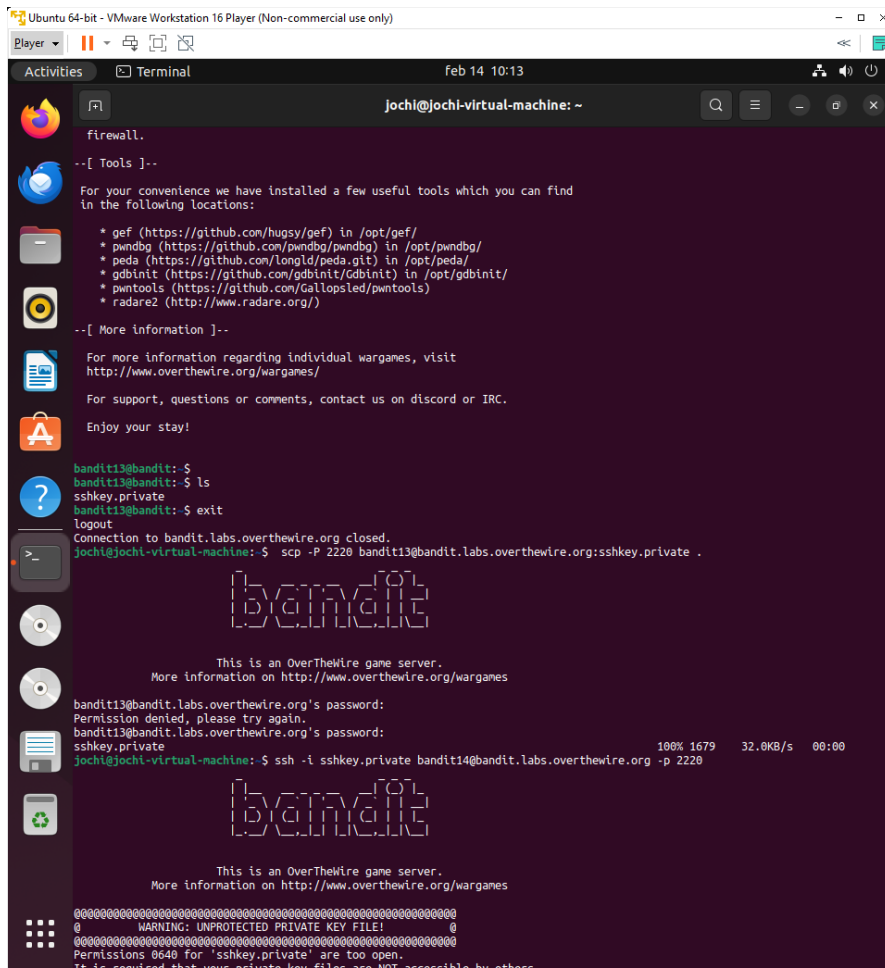
bandit9@bandit:~$ strings data.txt | grep ===
x]T===== theC)"
===== passwordk^
===== ls
===== G7w8LIi6J3kTb8A7j9LgrywtEULyyp6s
bandit9@bandit:~$
```











Ubuntu 64-bit - VMware Workstation 16 Player (Non-commercial use only)

Player

Activities Terminal feb 14 10:17

bandit14@bandit: ~

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 "nktmp -d" in order to generate a random and hard to guess directory in /tmp/. Read-access to both /tmp/ is disabled and to /proc restricted so that users cannot snoop on eachother. Files and directories with easily guessable or short names will be periodically deleted! The /tmp directory is regularly wiped.

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 useful tools which you can find in the following locations:

- \* gef (<https://github.com/hugsy/gef>) in /opt/gef/
- \* pwndbg (<https://github.com/pwndbg/pwndbg>) in /opt/pwndbg/
- \* peda (<https://github.com/l0ngd/peda.git>) in /opt/peda/
- \* gdbinit (<https://github.com/gdbinit/gdbinit>) in /opt/gdbinit/
- \* pwntools (<https://github.com/Gallopsled/pwntools>)
- \* radare2 (<http://www.radare.org/>)

--[ More Information ]--

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

For support, questions or comments, contact us on discord or IRC.

Enjoy your stay!

bandit14@bandit: \$

```
Ubuntu 64-bit - VMware Workstation 16 Player (Non-commercial use only)
Player
Activities Terminal Feb 14 10:22 bandit14@bandit: ~

with easily guessable or short names will be periodically deleted! The /tmp
directory is regularly wiped.
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 reldro

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 useful tools which you can find
in the following locations:

* gef (https://github.com/hugsy/gef) in /opt/gef/
* pwndbg (https://github.com/pwndbg/pwndbg) in /opt/pwndbg/
* peda (https://github.com/longld/peda.git) in /opt/peda/
* gdbinit (https://github.com/gdbinit/gdbinit) in /opt/gdbinit/
* pwntools (https://github.com/Gallopsled/pwntools)
* radare2 (http://www.radare.org/)

--[ More information ]--

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

For support, questions or comments, contact us on discord or IRC.

Enjoy your stay!

bandit14@bandit: $ cat /etc/bandit_pass/bandit14
fGrHPx402xGC7U7rXKDaxiWFT0lF0ENq
bandit14@bandit: $ nc localhost 30000
4wcVU7Pw0k0XLSh10zzntBHLqXU5b3e
Wrong! Please enter the correct current password

bandit14@bandit: $ nc localhost 30000
fGrHPx402xGC7U7rXKDaxiWFT0lF0ENq
Correct!
jN2kgmIXJ6fShzhT2avhotn4Zcka6tnt
```

```
Ubuntu 64-bit - VMware Workstation 16 Player (Non-commercial use only)
Player
Feb 14 10:25
bandit15@bandit: ~

--[ Tools ]--

For your convenience we have installed a few useful tools which you can find
in the following locations:

* gef (https://github.com/hugsy/gef) in /opt/gef/
* pwndbg (https://github.com/pwndbg/pwndbg) in /opt/pwndbg/
* peda (https://github.com/l0ngl0/peda.git) in /opt/peda/
* gdbinit (https://github.com/gdbinit/gdbinit) in /opt/gdbinit/
* pwntools (https://github.com/Gallopsled/pwntools)
* radare2 (http://www.radare.org/)

--[ More information ]--

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

For support, questions or comments, contact us on discord or IRC.

Enjoy your stay!

bandit15@bandit: $ openssl s_client -connect localhost:30001
CONNECTED(00000003)
Can't use SSL_get_servername
depth=0 CN = localhost
verify error:num=18:self-signed certificate
verify return:1
depth=0 CN = localhost
verify error:num=18:certificate has expired
notAfter=Feb 13 16:25:14 2024 GMT
verify return:1
depth=0 CN = localhost
notAfter=Feb 13 16:25:14 2024 GMT
verify return:1
---
Certificate chain
0 s:CN = localhost
i:CN = localhost
a:KEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA1
v:NotBefore: Feb 13 16:24:14 2024 GMT; NotAfter: Feb 13 16:25:14 2024 GMT
---
Server certificate
-----BEGIN CERTIFICATE-----
MIIDCzCCCAFOgAwIBAgIEChsBjANBgkqhkiG9w0BAQUFADAUMRIwEAYDVQ0DDAIs
b2NhbChvc3QwZG9wMjEzMTYyNDExMjE3MjE3MjE3MjE3MjE3MjE3MjE3MjE3
VQ0DDAIsb2NhbChvc3QwZG9wMjEzMTYyNDExMjE3MjE3MjE3MjE3MjE3MjE3
c4N1B9K2KkUwweGc99CPWkdKqHqz16hXTsPHPiJfAPPEREH6FYA29NnTmPhCqL
dLHq1ZE25r/R+H5UvH4IndEQVZt/QG0BLyLUAhSzaJowFH038kaSNPQ48RLG068
DKwpxr1ZYAGeCsQoxz3BBFkzEZWmKPDNFCGH++4ZxetV17jY7MYo7it6QV5y4Nx
o4IgaZBKkIRHJZ3Lmep6MUFdLU+wT/doJcKwYbvF3XJgU6xSh5pUvNurICldA81
h2p+VJr4nT/MrYdgA1XgoLRlXU53DYCIapf/jlvT6DJPgQ8Jv+H5LnYyJk/+SgEa
c9xS18GfJHk07Nir+ScJagHBAAGjZTBjH0QGA1UeQ0MwIAUCIAwV2FsaG9zZD09L
Bg1ghkgbGhvcCA0EPHY8QXV8b21hdG1jYXNxeS8nZS1cnF8ZMQ9YnkgTnNhC4Q
UZVLICh0dH8z018vbn1hcCSvcncvbnNhdC8uMA8GCSqGSIb3DQEBBQUAAIIBAQBp
wLeTyFaqhtNIRO1S/Rcd0LL/SADFxfL7TDdbdCKTRHEMjx/i39T34htywcJ7R54
5FNsI9NFyIqagEvkK7LjKpVnbFN8ARmveNFd0HGLoEnnAbSELYMwqujYp1BQCP2
J63pzbaG4FID+3N04/8hG0GmsIe6HI0UTv7awklLoQtk77KB9HvgnWNIuY9zpih
LnJ1Z6mMATj/0nn01th0lnu16ujYH37rV8rM/cZ6SXJVE7j1QLHmN/MSCAHPzjc9
tnLCKwAK/JZpHrLzSpGpP13ajRmUTa2c0PN8QMBpUNBaz2KEfRlDgku1UnHp85bH
rN+Ax+RZ0tb0X76n3FJ
-----END CERTIFICATE-----
```