

```
bandit0@bandit: ~  
File Actions Edit View Help  
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!  
  
--[ 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  
irc.overthewire.org #wargames.  
  
Enjoy your stay!  
  
bandit0@bandit:~$ la  
-bash: la: command not found  
bandit0@bandit:~$ ls -a  
* .. .bash_logout .bashrc .profile readme  
bandit0@bandit:~$ cat readme  
boJ9jbbUNNfktD780Opsq0ltutMc3MY1  
bandit0@bandit:~$
```



File Actions Edit View Help

--[More information]--

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

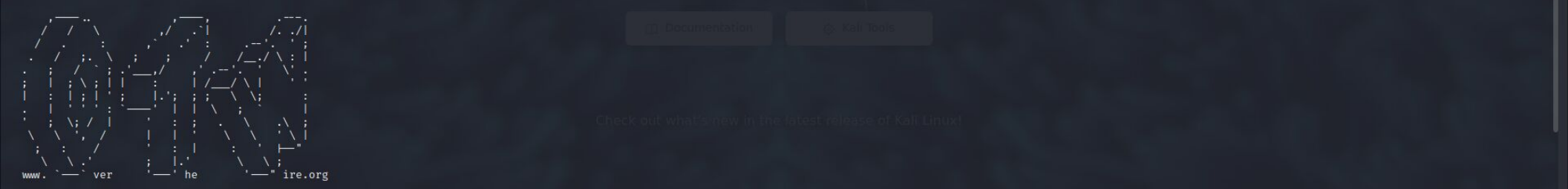
For support, questions or comments, contact us through IRC on
[#wargames](irc://irc.overthewire.org).

Enjoy your stay!

```
bandit0@bandit:~$ la
-bash: la: command not found
bandit0@bandit:~$ ls -a
.  .. .bash_logout .bashrc .profile readme
bandit0@bandit:~$ cat readme
boJ9jbbUNNfktd7800psq0ltutMc3MY1
bandit0@bandit:~$ ls -alps
total 24
4 drwxr-xr-x 2 root root 4096 May 7 2020 ./
4 drwxr-xr-x 41 root root 4096 May 7 2020 ../
4 -rw-r--r-- 1 root root 220 May 15 2017 .bash_logout
4 -rw-r--r-- 1 root root 3526 May 15 2017 .bashrc
4 -rw-r--r-- 1 root root 675 May 15 2017 .profile
4 -rw-r-- 1 bandit1 bandit0 33 May 7 2020 readme
bandit0@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
```

(kali@kali)-[~/Documents]
\$ ssh bandit1@bandit.labs.overthewire.org -p 2220
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

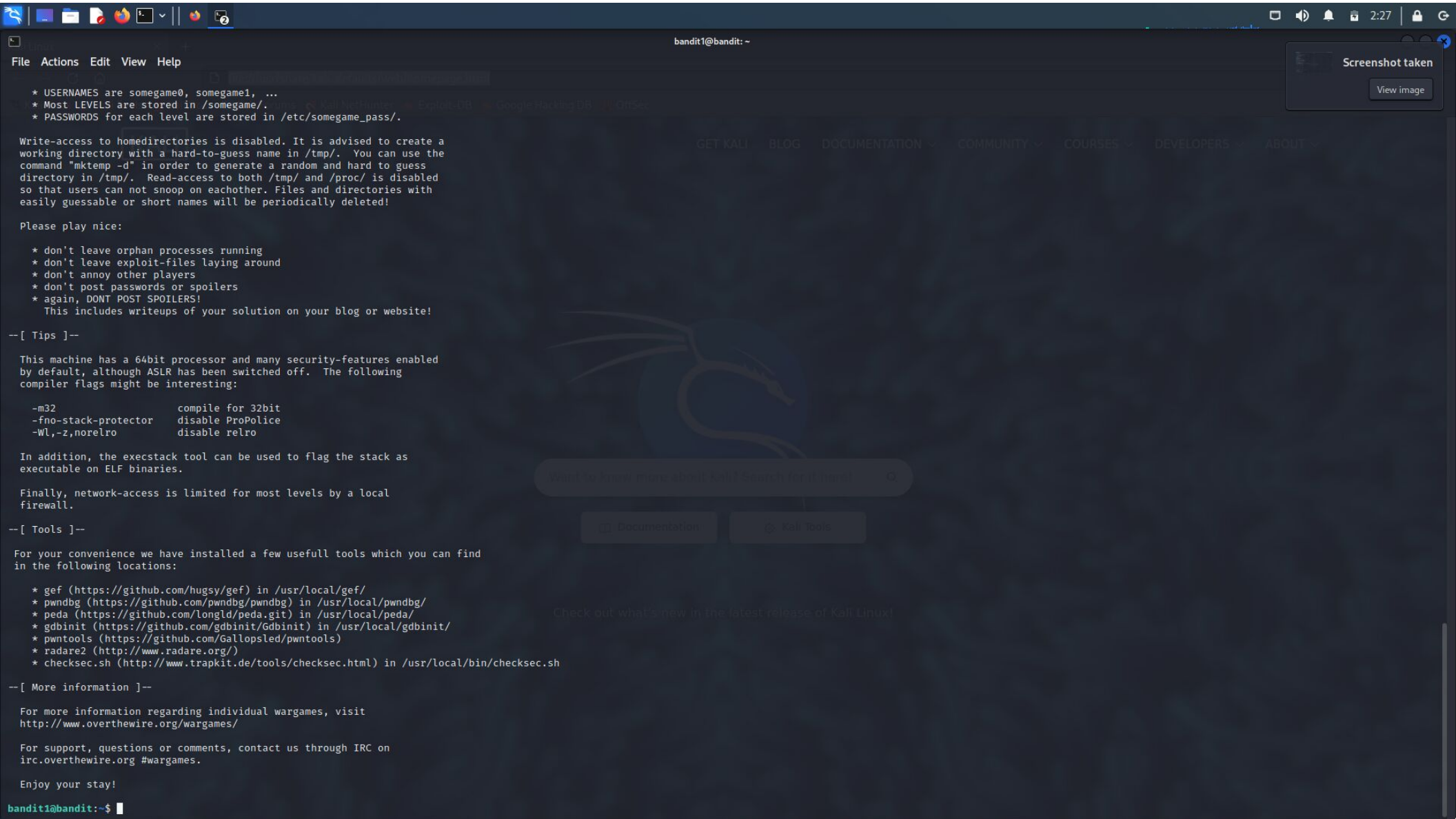


Welcome to OverTheWire!

If you find any problems, please report them to Steven or morla on
[irc.overthewire.org](irc://irc.overthewire.org).

--[Playing the games]--

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




```
bandit1@bandit: ~  
File Actions Edit View Help  
* 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  
irc.overthewire.org #wargames.  
  
Enjoy your stay!  
  
bandit1@bandit:~$ ls -alps  
total 24  
4 -rw-r----- 1 bandit2 bandit1 33 May 7 2020 -  
4 drwxr-xr-x 2 root root 4096 May 7 2020 ./  
4 drwxr-xr-x 41 root root 4096 May 7 2020 ../  
4 -rw-r--r-- 1 root root 220 May 15 2017 .bash_logout  
4 -rw-r--r-- 1 root root 3526 May 15 2017 .bashrc  
4 -rw-r--r-- 1 root root 675 May 15 2017 .profile  
bandit1@bandit:~$ cd -  
-bash: cd: OLDPWD not set  
bandit1@bandit:~$ cat ./-  
CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9  
bandit1@bandit:~$ ^C  
bandit1@bandit:~$
```

```
bandit2@bandit: ~  
File Actions Edit View Help  
* 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!  
  
--[ 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/  
* pwmttools (https://github.com/Gallopsled/pwmttools)  
* 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!  
bandit2@bandit:~$
```

bandit2@bandit: ~

File

Actions

Edit

View

Help

4 -rw-r--r-- 1 root root 220 May 15 2017 .bash_logout

4 -rw-r--r-- 1 root root 3526 May 15 2017 .bashrc

4 -rw-r--r-- 1 root root 675 May 15 2017 .profile

bandit1@bandit:~\$ cd -

-bash: cd: OLDPWD not set

bandit1@bandit:~\$ cat ./-

CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9

bandit1@bandit:~\$ ^C

bandit1@bandit:~\$ exit

logout

Connection to bandit.labs.overthewire.org closed.

(kali@kali)~[/Documents]

\$ ssh bandit2@bandit.labs.overthewire.org -p 2220

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

bandit2@bandit.labs.overthewire.org's password:

Permission denied, please try again.

bandit2@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 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

GET KALI

BLOG

DOCUMENTATION

COMMUNITY

COURSES

DEVELOPERS

ABOUT

Want to know more about Kali? Search for it here!

Documentation

Kali Tools

Checkout what's new in the latest release of Kali Linux!

Screenshot taken

View image



bandit4@bandit: ~
File Actions Edit View Help

bandit4@bandit: ~ × kali@kali: ~/Documents ×

Enjoy your stay!

```
bandit2@bandit:~$ ls -alps
total 24
4 drwxr-xr-x  2 root   root   4096 May  7  2020 ./
4 drwxr-xr-x 41 root   root   4096 May  7  2020 ../
4 -rw-r--r--  1 root   root    220 May 15  2017 .bash_logout
4 -rw-r--r--  1 root   root  3526 May 15  2017 .bashrc
4 -rw-r--r--  1 root   root   675 May 15  2017 .profile
4 -rw-r--  1 bandit3 bandit2  33 May  7  2020 spaces in this filename
bandit2@bandit:~$ cat bandit3
cat: bandit3: No such file or directory
bandit2@bandit:~$ cat spaces\ in\ this\ filename
UmHadQclWmgdLOKQ3YNgjWxGoRMB5luK
bandit2@bandit:~$ ^C
bandit2@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
```

```
(kali@kali)-[~/Documents]
$ ssh bandit2@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
```

```
bandit2@bandit.labs.overthewire.org's password:

Permission denied, please try again.
bandit2@bandit.labs.overthewire.org's password:

Permission denied, please try again.
bandit2@bandit.labs.overthewire.org's password:
bandit2@bandit.labs.overthewire.org: Permission denied (publickey,password).
```

```
(kali@kali)-[~/Documents]
$ ssh bandit3@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
```

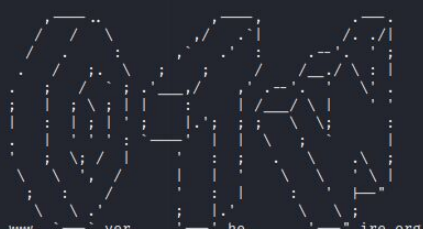
```
bandit3@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```



Welcome to OverTheWire!

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



```
bandit4@bandit: ~  
File Actions Edit View Help  
bandit4@bandit: ~ x kali@kali: ~/Documents x  
* 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!  
bandit3@bandit:~$ ls -alps  
total 24  
4 drwxr-xr-x 3 root root 4096 May 7 2020 ./  
4 drwxr-xr-x 41 root root 4096 May 7 2020 ../  
4 -rw-r--r-- 1 root root 220 May 15 2017 .bash_logout  
4 -rw-r--r-- 1 root root 3526 May 15 2017 .bashrc  
4 drwxr-xr-x 2 root root 4096 May 7 2020 inhere/  
4 -rw-r--r-- 1 root root 675 May 15 2017 .profile  
bandit3@bandit:~$ cd inhere/  
bandit3@bandit:~/inhere$ ls -alps  
total 12  
4 drwxr-xr-x 2 root root 4096 May 7 2020 ./  
4 drwxr-xr-x 3 root root 4096 May 7 2020 ../  
4 -rw-r----- 1 bandit4 bandit3 33 May 7 2020 .hidden  
bandit3@bandit:~/inhere$ cat .hidden  
pIwrPrtPN36QITSp3EQaw936yaFoFgAB  
bandit3@bandit:~/inhere$  
localhost packer-debian9  
bandit3@bandit:~/inhere$ exit  
logout  
Connection to bandit.labs.overthewire.org closed.  
(kali@kali)~(~/Documents)  
$ 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  
  
www. ver he ire.org  
Welcome to OverTheWire!
```

```
bandit4@bandit: ~/inhere
File Actions Edit View Help
bandit4@bandit: ~/inhere x kali@kali: ~/Documents x
http://www.overthewire.org/wargames/
For support, questions or comments, contact us through IRC on
irc.overthewire.org #wargames.
Enjoy your stay!
bandit4@bandit:~$ ls -alps
total 24
4 drwxr-xr-x 3 root root 4096 May 7 2020 ./
4 drwxr-xr-x 41 root root 4096 May 7 2020 ../
4 -rw-r--r-- 1 root root 220 May 15 2017 .bash_logout
4 -rw-r--r-- 1 root root 3526 May 15 2017 .bashrc
4 drwxr-xr-x 2 root root 4096 May 7 2020 inhere/
4 -rw-r--r-- 1 root root 675 May 15 2017 .profile
bandit4@bandit:~$ cd inhere/
bandit4@bandit:~/inhere$ ls -alps
total 48
4 drwxr-xr-x 2 root root 4096 May 7 2020 ./
4 drwxr-xr-x 3 root root 4096 May 7 2020 ../
4 -rw-r----- 1 bandit5 bandit4 33 May 7 2020 -file00
4 -rw-r----- 1 bandit5 bandit4 33 May 7 2020 -file01
4 -rw-r----- 1 bandit5 bandit4 33 May 7 2020 -file02
4 -rw-r----- 1 bandit5 bandit4 33 May 7 2020 -file03
4 -rw-r----- 1 bandit5 bandit4 33 May 7 2020 -file04
4 -rw-r----- 1 bandit5 bandit4 33 May 7 2020 -file05
4 -rw-r----- 1 bandit5 bandit4 33 May 7 2020 -file06
4 -rw-r----- 1 bandit5 bandit4 33 May 7 2020 -file07
4 -rw-r----- 1 bandit5 bandit4 33 May 7 2020 -file08
4 -rw-r----- 1 bandit5 bandit4 33 May 7 2020 -file09
bandit4@bandit:~/inhere$ find . -type f
./-file01
./-file00
./-file06
./-file03
./-file05
./-file08
./-file04
./-file07
./-file02
./-file09
bandit4@bandit:~/inhere$ find . -type f | xargs file
-bash: xargs: command not found
bandit4@bandit:~/inhere$ find . -type f | xargs file
./-file01: data
./-file00: data
./-file06: data
./-file03: data
./-file05: data
./-file08: data
./-file04: data
./-file07: ASCII text
./-file02: data
./-file09: data
bandit4@bandit:~/inhere$ cat ./-file0
cat: ./-file0: No such file or directory
bandit4@bandit:~/inhere$ cat ./-file07
koReB0KuIDDepwhWk7jZC0RTdopnAYKh
bandit4@bandit:~/inhere$
```

```
4 -rw-r--r-- 1 root root 220 May 15 2017 .bash_logout
4 -rw-r--r-- 1 root root 3526 May 15 2017 .bashrc
4 drwxr-x--- 22 root bandit5 4096 May 7 2020 inherer/
4 -rw-r--r-- 1 root root 675 May 15 2017 .profile
bandit5@bandit:~$ cd inherer/
bandit5@bandit:~/inherer$ ls -alps
```

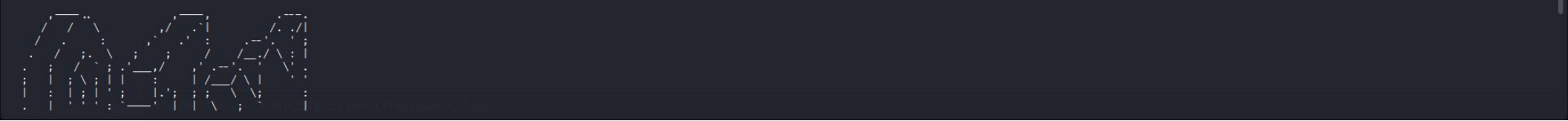
```
total 88
4 drwxr-x--- 22 root bandit5 4096 May 7 2020 ./
4 drwxr-xr-x 3 root root 4096 May 7 2020 ../
4 drwxr-x--- 2 root bandit5 4096 May 7 2020 maybehere00/
4 drwxr-x--- 2 root bandit5 4096 May 7 2020 maybehere01/
4 drwxr-x--- 2 root bandit5 4096 May 7 2020 maybehere02/
4 drwxr-x--- 2 root bandit5 4096 May 7 2020 maybehere03/
4 drwxr-x--- 2 root bandit5 4096 May 7 2020 maybehere04/
4 drwxr-x--- 2 root bandit5 4096 May 7 2020 maybehere05/
4 drwxr-x--- 2 root bandit5 4096 May 7 2020 maybehere06/
4 drwxr-x--- 2 root bandit5 4096 May 7 2020 maybehere07/
4 drwxr-x--- 2 root bandit5 4096 May 7 2020 maybehere08/
4 drwxr-x--- 2 root bandit5 4096 May 7 2020 maybehere09/
4 drwxr-x--- 2 root bandit5 4096 May 7 2020 maybehere10/
4 drwxr-x--- 2 root bandit5 4096 May 7 2020 maybehere11/
4 drwxr-x--- 2 root bandit5 4096 May 7 2020 maybehere12/
4 drwxr-x--- 2 root bandit5 4096 May 7 2020 maybehere13/
4 drwxr-x--- 2 root bandit5 4096 May 7 2020 maybehere14/
4 drwxr-x--- 2 root bandit5 4096 May 7 2020 maybehere15/
4 drwxr-x--- 2 root bandit5 4096 May 7 2020 maybehere16/
4 drwxr-x--- 2 root bandit5 4096 May 7 2020 maybehere17/
4 drwxr-x--- 2 root bandit5 4096 May 7 2020 maybehere18/
4 drwxr-x--- 2 root bandit5 4096 May 7 2020 maybehere19/
bandit5@bandit:~/inherer$ man du
bandit5@bandit:~/inherer$ find . -type f -size 1033c ! -executable
./maybehere07/.file2
bandit5@bandit:~/inherer$ cd ./maybehere07/.file2
-bash: cd: ./maybehere07/.file2: Not a directory
bandit5@bandit:~/inherer$ cat ./maybehere07/.file2
DXjZPULLxYr17uwoI01bNLQbtFemEgo7
```

```
bandit5@bandit:~/inherer$ exit
logout
Connection to bandit.labs.overthewire.org closed.
```

(kali@kali) - [~/Documents]

```
$ ssh bandit6@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
```

```
bandit6@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```





```
bandit6@bandit: ~  
File Actions Edit View Help  
bandit6@bandit: ~ x kali@kali: ~/Documents x  
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/20430/task/20430/fd/6': No such file or directory  
find: '/proc/20430/task/20430/fdinfo/6': No such file or directory  
find: '/proc/20430/fd/5': No such file or directory  
find: '/proc/20430/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-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/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  
find: '-': No such file or directory  
find: 'type': No such file or directory  
find: 'f': No such file or directory  
bandit6@bandit:~$ cat /var/lib/dpkg/info/bandit7.password  
HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs  
bandit6@bandit:~$ .
```

Screenshot taken

View image


```
bandit8@bandit: ~  
File Actions Edit View Help  
bandit8@bandit: ~ x kali@kali: ~/Documents x  
--[ 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,now 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/  
* pwmttools (https://github.com/Gallopsled/pwmttools)  
* 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!  
bandit7@bandit:~$ strings data.txt | grep "millionth"  
millionth cvX2JJJa4CFALtqS87jk27qwqGhBM9pLV  
bandit7@bandit:~$ exit  
logout  
Connection to bandit.labs.overthewire.org closed.  
(kali@kali) - [~/Documents]  
$ ssh bandit8@bandit.labs.overthewire.org -p 2220  
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  
overthewire.org
```

```
bandit8@bandit: ~  
File Actions Edit View Help  
bandit8@bandit: ~ x kali@kali: ~/Documents x  
10 I3fc578VL7m0Q1t9zArPPOPY7aDVBcJ  
10 i1a0HQG7ZLdImomwMQaG1F7vib1RmXBh  
10 IKaAyo1rCrxdY8qH0FfxKkRTT02GNSf  
10 iKiMcQpNMn2Im0ASX39XBUR8XfApdmsj  
10 InU7h0xhZh4SMOMvlnsq03pz0k9J5FX  
10 iwE0KTeKQ8PWihqvJUnpu52YZeIO8Pqb  
10 J6Lzp6ZqTJsOuJRTXcvhwKfM0KK3Xtbl  
10 K9D1CLsVCdkodgvJJIt1oHiAi0Y1h8hg  
10 KASH0xc1NxaM8caXUw5MHCKddANXOkCu  
10 khecG2RC1unkhrgmq4UNB26N5F1yiUwL  
10 kJTBMD8k90HyXwZ2aJMQkV23u0gyuoIO  
10 KLu61rnqFwhOKnVoTwooT9e5t6oxYQwv  
10 KrDVORXLPfRhfnRmmuP30nVHWKDM5M8  
10 kUbOkhsIw6GSp0WI2YUo1Q3hDxFU0iQn  
10 l1I3Red7uSH9n300ylHP2hQDb0U0qGaq  
10 l2lECnJkQk8EBL6IO3gHULnjoCTF1has  
10 LfrBHFah0pP9bgGAZP4QrVkut3pysAYC  
10 Lg4vWWvEY7s0bG6BRiA35AHzo2gM6LHg  
10 mpgNGRH628hTQxajScbagkxaPkkLUhjn  
10 mz0W32HQZi14kwrdeiqu01LCbya0tb1T  
10 nJRB4MipHMDtmFylFc1NlqmywgXDSdoI  
10 NLWvtQvL7EaqBNx2*4eznRLQONULLCYZ  
10 NodH1kFWibx4XnNaJoLFmgh8n7oIs5hb  
10 oJGAbNG5Nj9ppKUBXGr8lwMRRS5GuiA5  
10 OZ1wgx8bDI0vFOFXDQH32eMMCIPiIuPE  
10 PfbMe4Xb3mw5mJmabIbKAXKCU7zynDHL  
10 PQKOeIQwTw490Y8yobuxZAOL4cNmVo1D  
10 PSdVQSeUUBPRZD58WWP00XLKxSgU3Rxx  
10 ptb5ZW8TcgD3U6g0GCcN31xCDGtoQSEa  
10 qaWMA00quC3yHnfJI4zvPWzCBdFH08wa  
10 RMiSPoAvF7WhgIcOdSQR2r6Zx0DNS5UW  
10 s1603Q2r4RPKqyoA8cspIRk0VdgEmFC3  
10 SA05uWMVCAo2rzS8YRqUXh19SvnDpu0L  
10 SHMAMUEzQe4mV7SjpETTzFsyNRJsZE2k  
10 s1952kS1y6pt4AFenmm0oIp8n7W5d3bd  
10 sYSokIATVvFUKU4sAHTtMarfjLZWwj5i  
10 SzwgS2ADSjP6yp0zp2bIvdqNyusRtrHj  
10 TKUtQbeYnEzzYIne78ino8x2bHFLBXzG  
10 TThRArdF2EXM047TIYkyPPLtvzzLcDf  
10 tVW9iY1M0uHPK4usZnN8oXbJrt2ATY  
10 U0NYdD3wHZKpfEg9qGQOLJImAJy6qxhS  
10 UASW6CQwD6MRzftu6FAfyXBK0cVvnBLP  
10 UJiCNvDNfgb3fcCj8PjjnAXHqUM63Uyj  
10 UjsVbcqKeJqdCZQCDMkzv6A9X7hLbNE4  
1 UsvVyFSfZzWb16wgC7dAFyFuR6jQUHR  
10 UVnZvh1VQECraz5jL8U14sMVZQhjuX1a  
10 V2d9umHiuPLYLIDsuHj0fr0EmreCZMaA  
10 v9zakxVA0dI0LITZY2uoCTB1fX2gmly9  
10 VkaAEWyiIbVkeURZV5mow1Gg6i3m7Be0  
10 w4zUWFGTU+AAh8LnkS8gH3WK2zowBEKA  
10 WBqr9xvf6mYTT5kLcTGC6Gjb3ex94xWr  
10 wJNwumEX58RUQTruFHMc1wZ5Yx10GtTC  
10 X1JHOUkrb4KgugMXIZmMwIWwRkeZleTI  
10 XyeJdbrUjyGtdGx8cXLQST0pwu5cvpcA  
10 yo0HbSe2GM0jJNhrQLxwoPp7ayYEmRKY  
10 ySvsTwlMgnUF0n86Fgmn2TNjks0LrV72  
10 Z9OC6D0pppreChPhwRJJV9YYTtrxNVcO  
10 zdd2ctVveR0GeiS2WE3TeLZMeL5jL7iM  
bandit8@bandit:~$
```

```
bandit9@bandit: ~  
File Actions Edit View Help  
bandit9@bandit: ~ x kali@kali: ~/Documents x  
  
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/  
* pwmttools (https://github.com/Gallopsled/pwmttools)  
* 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!  
  
bandit9@bandit:~$ ls -alps  
total 40  
4 drwxr-xr-x 2 root root 4096 May 7 2020 ./  
4 drwxr-xr-x 41 root root 4096 May 7 2020 ../  
4 -rw-r--r-- 1 root root 220 May 15 2017 .bash_logout  
4 -rw-r--r-- 1 root root 3526 May 15 2017 .bashrc  
20 -rw-r----- 1 bandit10 bandit9 19379 May 7 2020 data.txt  
4 -rw-r--r-- 1 root root 675 May 15 2017 .profile  
bandit9@bandit:~$ strings data.txt | grep "="  
===== the*2i"4  
=:G e  
===== password  
<I=zsGi  
Z)===== is  
A=t6E  
Zdb=  
c^ LAh=3G  
*SF=s  
8===== truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk  
S=A.H6^  
bandit9@bandit:~$
```

```
(bandit10) bandit.labs.overthewire.org — Yomsole 8:23
bandit10@bandit: ~
File Actions Edit View Help
bandit10@bandit: ~ x kali@kali: ~/Documents x
* 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
irc.overthewire.org #wargames.
Enjoy your stay!
bandit10@bandit:~$ ls -alps
total 24
4 drwxr-xr-x 2 root root 4096 May 7 2020 ./
4 drwxr-xr-x 41 root root 4096 May 7 2020 ../
4 -rw-r--r-- 1 root root 220 May 15 2017 .bash_logout
4 -rw-r--r-- 1 root root 3526 May 15 2017 .bashrc
4 -rw-r----- 1 bandit11 bandit10 69 May 7 2020 data.txt
4 -rw-r--r-- 1 root root 675 May 15 2017 .profile
bandit10@bandit:~$ cat data.txt
VGhlIHBhc3N3b3JkIGlzIElGdWt3S0dZRC4TU9xM0lSRnFyeEUxaHhUTkViVVBSCg==
bandit10@bandit:~$ base64 -d data.txt
The password is 1FukwKGsFW8MOq3IRFqrxE1hxTNEbUPR
bandit10@bandit:~$
```



```
bandit11@bandit: ~  
File Actions Edit View Help  
bandit11@bandit: ~ x kali@kali: ~/Documents x  
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/  
* pwmttools (https://github.com/Gallopsled/pwmttools)  
* 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!  
bandit11@bandit:~$ ls -alps  
total 24  
4 drwxr-xr-x 2 root root 4096 May 7 2020 ./  
4 drwxr-xr-x 41 root root 4096 May 7 2020 ../  
4 -rw-r--r-- 1 root root 220 May 15 2017 .bash_logout  
4 -rw-r--r-- 1 root root 3526 May 15 2017 .bashrc  
4 -rw-r--r-- 1 bandit12 bandit11 49 May 7 2020 data.txt  
4 -rw-r--r-- 1 root root 675 May 15 2017 .profile  
bandit11@bandit:~$ cat data.txt  
Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHH  
bandit11@bandit:~$ data.txt | rot13  
-bash: rot13: command not found  
-bash: data.txt: command not found  
bandit11@bandit:~$ cat data.txt | rot13  
-bash: rot13: command not found  
bandit11@bandit:~$ echo data.txt | rot13  
-bash: rot13: command not found  
bandit11@bandit:~$ echo "Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHH" | rot13  
-bash: rot13: command not found  
bandit11@bandit:~$ echo "Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHH" | caesar 1  
-bash: caesar: command not found  
bandit11@bandit:~$ echo "Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHH" tr A-Za-z N-ZA-Mn-za-m  
Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHH tr A-Za-z N-ZA-Mn-za-m  
bandit11@bandit:~$ function rot13() {  
> cat | tr "$(echo -n {A..Z} {a..z})" "$(echo -n {N..Z} {A..M} {n..z} {a..m})" | tr -d ' ' }  
> }  
bandit11@bandit:~$ echo "Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHH" | rot13  
The password is 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu  
bandit11@bandit:~$
```

```
bandit12@bandit: /tmp/nimmi
File Actions Edit View Help
bandit12@bandit: /tmp/nimmi x kali@kali: ~/Documents x
bandit12@bandit: /tmp/nimmi$ file file
file: POSIX tar archive (GNU)
bandit12@bandit: /tmp/nimmi$ mv file file.tar
bandit12@bandit: /tmp/nimmi$ tar xf file.tar
bandit12@bandit: /tmp/nimmi$ ls
data5.bin data.txt file.tar
bandit12@bandit: /tmp/nimmi$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit: /tmp/nimmi$ rm file.tar
bandit12@bandit: /tmp/nimmi$ rm data
rm: cannot remove 'data': No such file or directory
bandit12@bandit: /tmp/nimmi$ ls
data5.bin data.txt
bandit12@bandit: /tmp/nimmi$ rm data
rm: cannot remove 'data': No such file or directory
bandit12@bandit: /tmp/nimmi$ rm data.txt
bandit12@bandit: /tmp/nimmi$ ls
data5.bin
bandit12@bandit: /tmp/nimmi$ file file
file: cannot open 'file' (No such file or directory)
bandit12@bandit: /tmp/nimmi$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit: /tmp/nimmi$ mv data5.bin data.tar
bandit12@bandit: /tmp/nimmi$ tar xf data.tar
bandit12@bandit: /tmp/nimmi$ ls
data6.bin data.tar
bandit12@bandit: /tmp/nimmi$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
bandit12@bandit: /tmp/nimmi$ mv data6.bin dat.bz2
bandit12@bandit: /tmp/nimmi$ bzip2 -d data.bz2
bzip2: Can't open input file data.bz2: No such file or directory.
bandit12@bandit: /tmp/nimmi$ mv dat.bz2 data.bz2
bandit12@bandit: /tmp/nimmi$ bzip2 -d data.bz2
-bash: bzip: command not found
bandit12@bandit: /tmp/nimmi$ bzip2 -d data.bz2
bandit12@bandit: /tmp/nimmi$ ls
data data.tar
bandit12@bandit: /tmp/nimmi$ mv data data.tar
bandit12@bandit: /tmp/nimmi$ ls
data.tar
bandit12@bandit: /tmp/nimmi$ tar xf data/tar
tar: data/tar: Cannot open: No such file or directory
tar: Error is not recoverable: exiting now
bandit12@bandit: /tmp/nimmi$ tar xf data.tar
bandit12@bandit: /tmp/nimmi$ ls
data8.bin data.tar
bandit12@bandit: /tmp/nimmi$ file data8.bin
-bash: file: command not found
bandit12@bandit: /tmp/nimmi$ 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/nimmi$ mv data8.bin data.gz
bandit12@bandit: /tmp/nimmi$ gzip -d data.gz
bandit12@bandit: /tmp/nimmi$ ls
data data.tar
bandit12@bandit: /tmp/nimmi$ file data
data: ASCII text
bandit12@bandit: /tmp/nimmi$ cat data
The password is 8ZjyCRiBWfYkneahHwxCv3wb2a10RpYL
bandit12@bandit: /tmp/nimmi$
```



```
bandit14@bandit: ~ x kali@kali: ~/Documents x
```

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

- * gef (<https://github.com/hugsy/gef>) in /usr/local/gef/
- * pwndbg (<https://github.com/pwndbg/pwndbg>) in /usr/local/pwndbg/
- * peda (<https://github.com/longld/peda.git>) in /usr/local/peda/
- * gdbinit (<https://github.com/gdbinit/gdbinit>) in /usr/local/gdbinit/
- * pwntools (<https://github.com/Gallopsled/pwntools>)
- * radare2 (<http://www.radare.org/>)
- * checksec.sh (<http://www.trapkit.de/tools/checksec.html>) in /usr/local/bin/checksec.sh

```
--[ More information ]--
```

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

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

```
Enjoy your stay!
```

```
bandit13@bandit:~$ ls -alps
total 24
4 drwxr-xr-x 2 root root 4096 May 7 2020 ./
4 drwxr-xr-x 41 root root 4096 May 7 2020 ../
4 -rw-r--r-- 1 root root 220 May 15 2017 .bash_logout
4 -rw-r--r-- 1 root root 3526 May 15 2017 .bashrc
4 -rw-r--r-- 1 root root 675 May 15 2017 .profile
4 -rw-r--r-- 1 bandit14 bandit13 1679 May 7 2020 sshkey.private
```

```
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 SHA256:98UL0ZW85496EtCRkKlo20X30PnyPSB5tB5RPbhczc.
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.
```

```
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:  
  
* 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/  
* pwmttools (https://github.com/Gallopsled/pwmttools)  
* 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!  
  
bandit15@bandit:~$ ls -alps  
total 24  
4 drwxr-xr-x  2 root    root    4096 May 14  2020 ./  
4 drwxr-xr-x 41 root    root    4096 May  7  2020 ../  
4 -rw-r----- 1 bandit15 bandit15  33 May 14  2020 .bandit14.password  
4 -rw-r--r--  1 root    root      220 May 15  2017 .bash_logout  
4 -rw-r--r--  1 root    root    3526 May 15  2017 .bashrc  
4 -rw-r--r--  1 root    root     675 May 15  2017 .profile  
bandit15@bandit:~$ cat /etc/bandit_pass/bandit15  
BfMYroe26WYalil77FoD19qh59eK5xNr  
bandit15@bandit:~$ nc -t -l -p 30000  
Ncat: Invalid port number "30000". QUITTING.  
bandit15@bandit:~$ nc -t -l -p 30001  
BfMYroe26WYalil77FoD19qh59eK5xNr  
Correct!  
cluFn7wTiGryunymYOu4RcFFsXQluehd  
^[[B^C  
bandit15@bandit:~$
```