

DISCORD HANDLE: KOUSHIK#4875

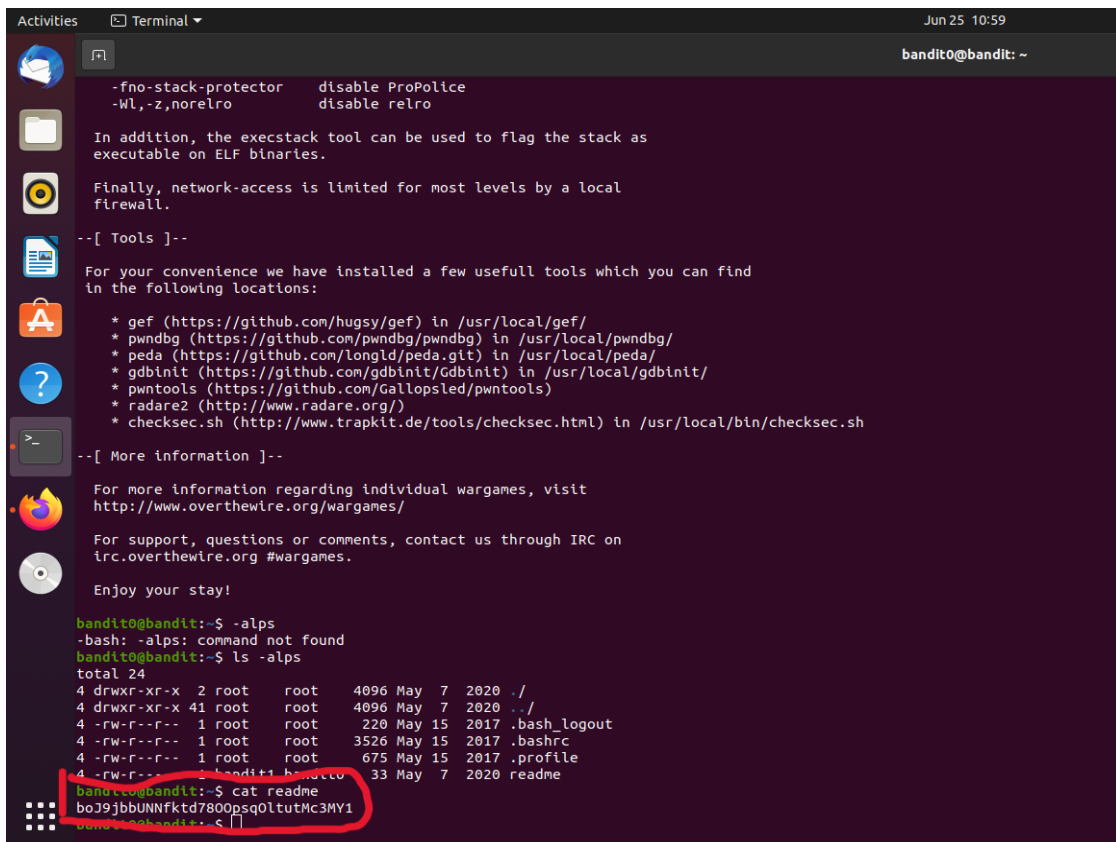
## BANDIT LEVEL 0

```
--[ More information ]--  
  
For more information regarding individual wargames, visit  
http://www.overthewire.org/wargames/  
  
For support, questions or comments, contact us through IRC on  
#wargames.  
  
Enjoy your stay!  
  
bandit0@bandit:~$
```

# PASSWORDS:

## Level 0 → Level 1

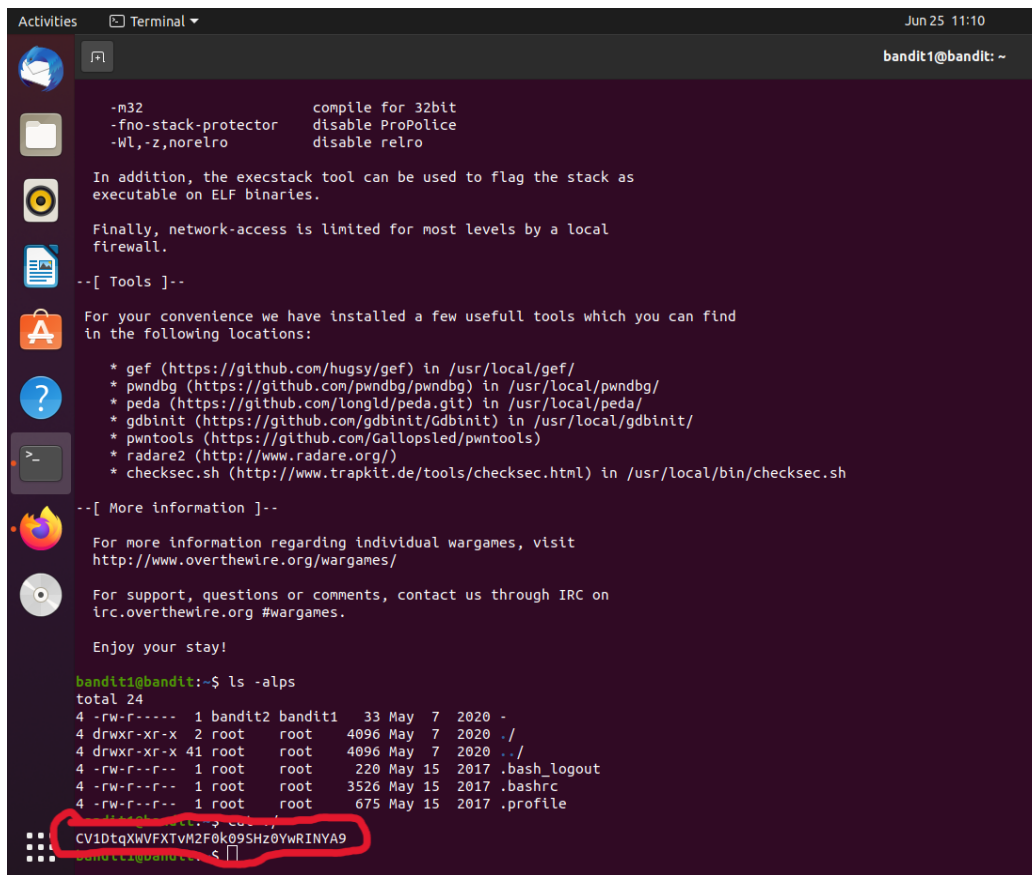
### 1. boJ9jbbUNNfktd7800psq0ltutMc3MY1



```
Activities Terminal Jun 25 10:59 bandito@bandit: ~  
-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  
  
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Enjoy your stay!  
  
bandit0@bandit:~$ -alps  
-bash: -alps: command not found  
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--r--  1 bandit1 bandit1 33 May  7  2020 readme  
bandit0@bandit:~$ cat readme  
boJ9jbbUNNfktd7800psq0ltutMc3MY1  
bandit0@bandit:~$
```

## Level 1 → Level 2

### 2. CV1DtqXWVFXTvM2F0K09SHz0YwRINYA9



```
Activities Terminal Jun 25 11:10 bandit1@bandit: ~

-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.

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* 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)
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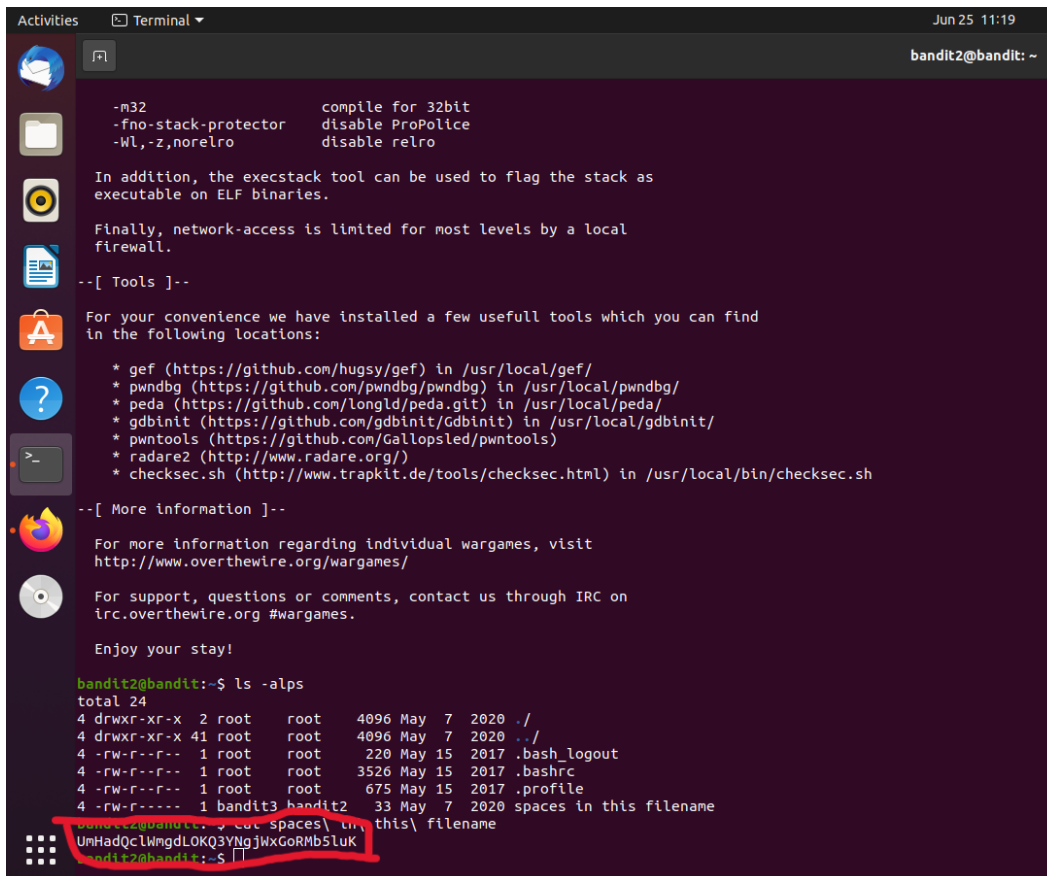
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Enjoy your stay!

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:~$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
bandit1:x:1000:1000:bandit:/home/bandit1:/bin/bash
CV1DtqXWVFXTvM2F0K09SHz0YwRINYA9
bandit2:x:1001:1001:bandit2:/home/bandit2:/bin/bash
```

## Level 2 → Level 3

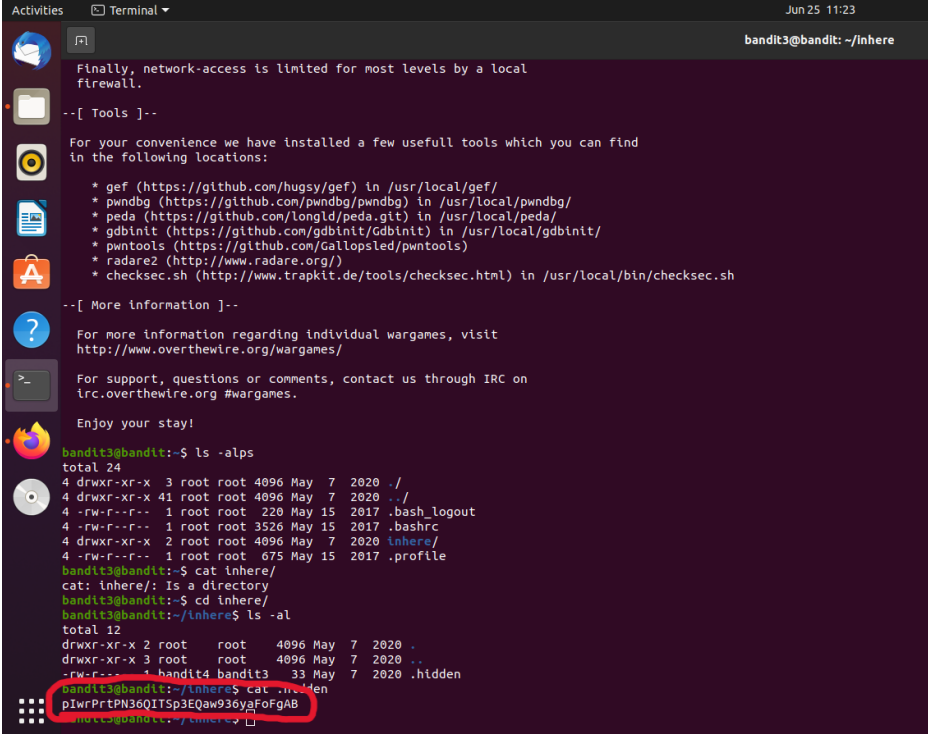
### 3. UmHadQclWmgdLOKQ3YNgiWxGoRMb5luK



```
bandit2@bandit: ~  
-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 ]--  
  
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* checksec.sh (http://www.trapkit.de/tools/checksec.html) in /usr/local/bin/checksec.sh  
  
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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--r-- 1 bandit3 bandit2 33 May 7 2020 spaces in this filename  
bandit2@bandit:~$ cat spaces\ this\ filename  
UmHadQclWmgdLOKQ3YNgiWxGoRMb5luK  
bandit2@bandit:~$
```

## Level 3 → Level 4

### 4. plwrPrtPN36QITTSp3EQaw936yaFoFgAB



```
bandit3@bandit: ~/inhere
Finally, network-access is limited for most levels by a local
firewall.

--[ Tools ]--

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* pwndbg (https://github.com/pwndbg/pwndbg) in /usr/local/pwndbg/
* peda (https://github.com/longld/peda.git) in /usr/local/peda/
* gdbinit (https://github.com/gdbinit/Gdbinit) in /usr/local/gdbinit/
* pwntools (https://github.com/Gallopsled/pwntools)
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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:~$ cat inhere/
cat: inhere/: Is a directory
bandit3@bandit:~$ cd inhere/
bandit3@bandit:~/inhere$ ls -al
total 12
drwxr-xr-x 2 root root 4096 May 7 2020 .
drwxr-xr-x 3 root root 4096 May 7 2020 ..
-rw-r--r-- 1 bandit4 bandit3 33 May 7 2020 .hidden
bandit3@bandit:~/inhere$ cat .hidden
plwrPrtPN36QITTSp3EQaw936yaFoFgAB
```

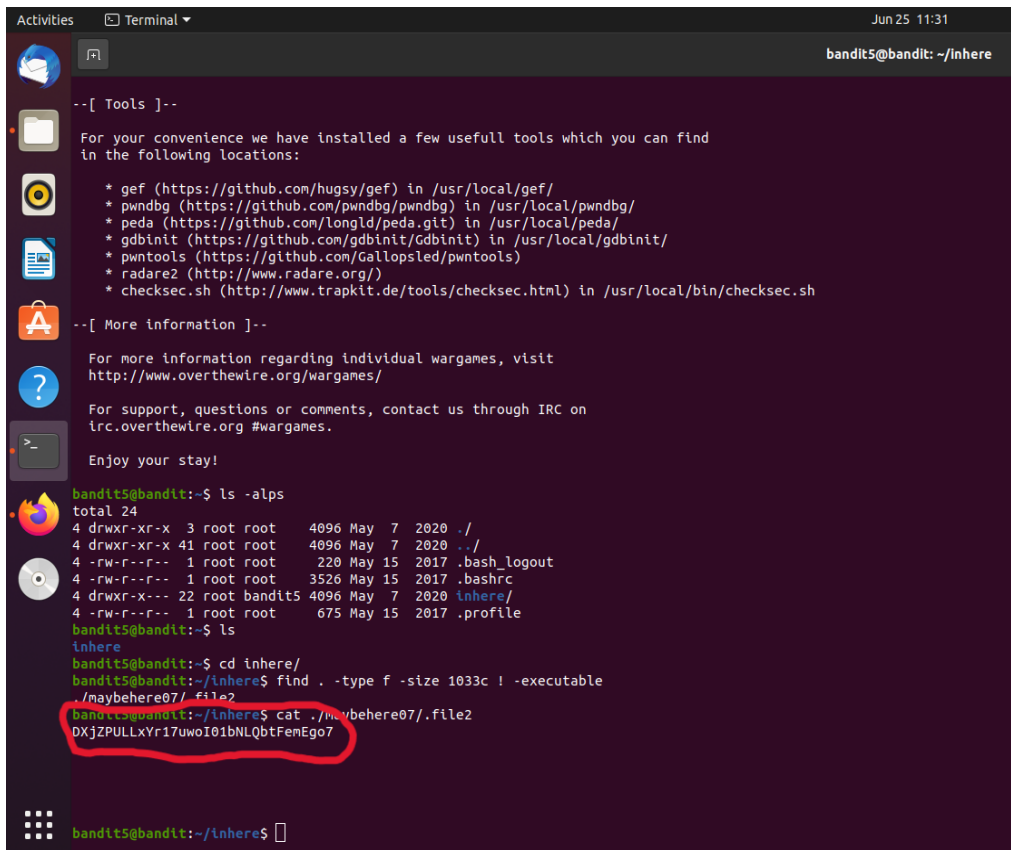
## Level 4 → Level 5

### 5. koReBOKuIDDepwhWk7jZC0RTdopnAYKh

```
Activities Terminal Jun 25 11:27 bandit4@bandit: ~/Inhere
* gdbinit (https://github.com/gdbinit/Gdbinit) in /usr/local/gdbinit/
* pwntools (https://github.com/Gallopsled/pwntools)
* radare2 (http://www.radare.org/)
* checksec.sh (http://www.trapkit.de/tools/checksec.html) in /usr/local/bin/checksec.sh
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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
-file00 -file02 -file04 -file06 -file08
-file01 -file03 -file05 -file07 -file09
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$ man xargs
bandit4@bandit:~/inhere$ cat -/-file07
cat: invalid option -- '/'
Try 'cat --help' for more information.
bandit4@bandit:~/inhere$ cat -/-file07
koReBOKuIDDepwhWk7jZC0RTdopnAYKh
bandit4@bandit:~/inhere$
```

## Level 5 → Level 6

### 6. DXjZPULLxYr17uwol01bNLQbtFemEgo7



```
Activities Terminal Jun 25 11:31 bandit5@bandit: ~/inhere

--[ Tools ]--
For your convenience we have installed a few usefull tools which you can find
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* 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/)
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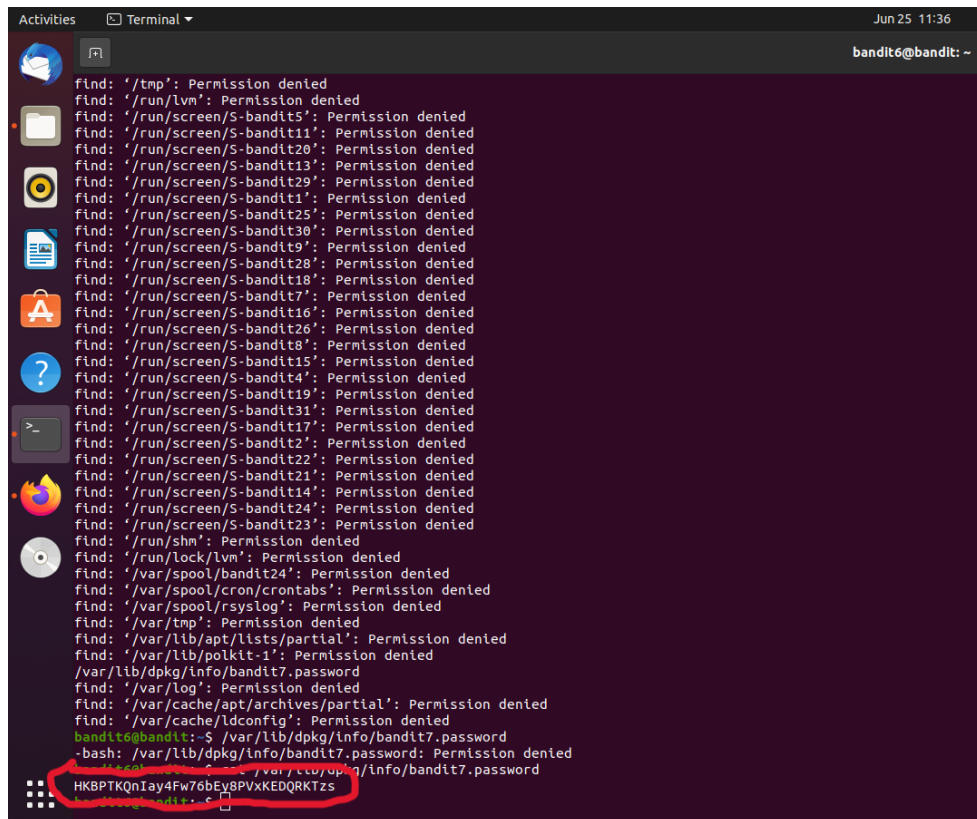
Enjoy your stay!

bandit5@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-x--- 22 root bandit5 4096 May 7 2020 inhere/
4 -rw-r--r-- 1 root root 675 May 15 2017 .profile
bandit5@bandit:~$ ls
inhere
bandit5@bandit:~$ cd inhere/
bandit5@bandit:~/inhere$ find . -type f -size 1033c ! -executable
./maybehere07/.file2
bandit5@bandit:~/inhere$ cat ./maybehere07/.file2
DXjZPULLxYr17uwol01bNLQbtFemEgo7

bandit5@bandit:~/inhere$
```

## Level 6 → Level 7

### 7. HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs

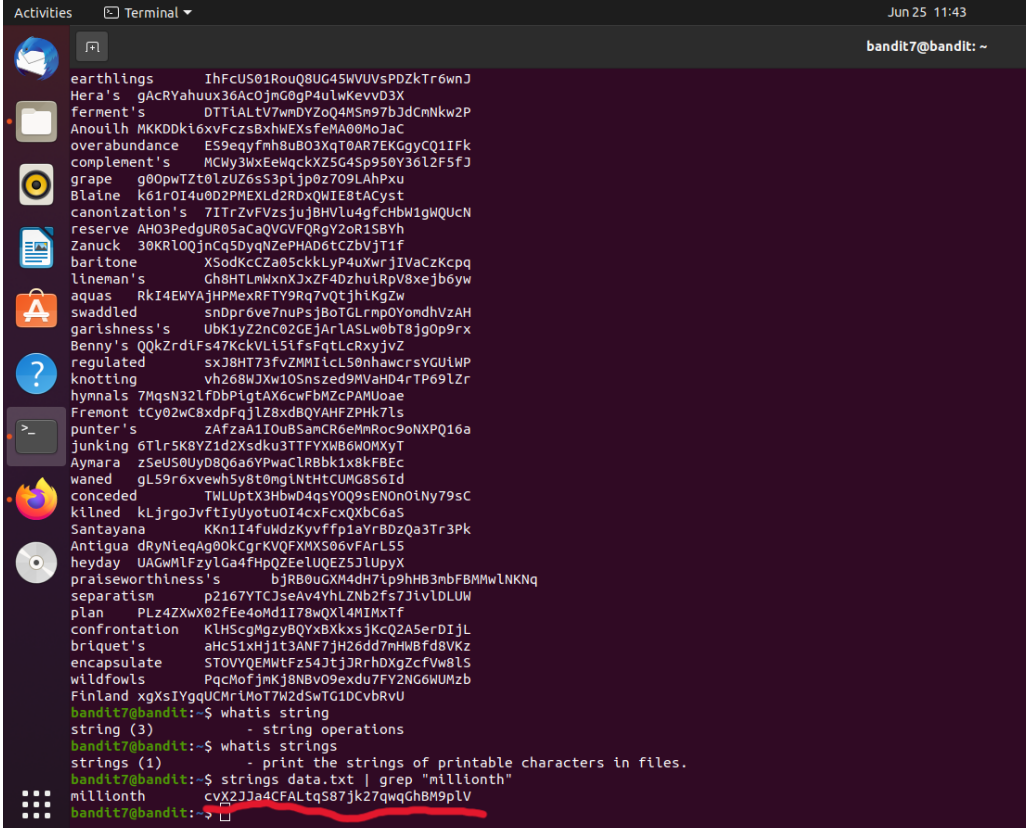


```
Activities Terminal Jun 25 11:36 bandit6@bandit: ~
find: '/tmp': Permission denied
find: '/run/lvm': Permission denied
find: '/run/screen/S-bandit5': Permission denied
find: '/run/screen/S-bandit11': Permission denied
find: '/run/screen/S-bandit20': Permission denied
find: '/run/screen/S-bandit13': Permission denied
find: '/run/screen/S-bandit29': Permission denied
find: '/run/screen/S-bandit1': 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-bandit7': Permission denied
find: '/run/screen/S-bandit16': Permission denied
find: '/run/screen/S-bandit26': Permission denied
find: '/run/screen/S-bandit8': Permission denied
find: '/run/screen/S-bandit15': Permission denied
find: '/run/screen/S-bandit4': Permission denied
find: '/run/screen/S-bandit19': Permission denied
find: '/run/screen/S-bandit31': Permission denied
find: '/run/screen/S-bandit17': Permission denied
find: '/run/screen/S-bandit2': Permission denied
find: '/run/screen/S-bandit22': Permission denied
find: '/run/screen/S-bandit21': Permission denied
find: '/run/screen/S-bandit14': Permission denied
find: '/run/screen/S-bandit24': Permission denied
find: '/run/screen/S-bandit23': Permission denied
find: '/run/shm': Permission denied
find: '/run/lock/lvm': Permission denied
find: '/var/spool/bandit24': Permission denied
find: '/var/spool/cron/crontabs': Permission denied
find: '/var/spool/rsyslog': Permission denied
find: '/var/tmp': Permission denied
find: '/var/lib/apt/lists/partial': Permission denied
find: '/var/lib/polkit-1': Permission denied
/var/lib/dpkg/info/bandit7.password
find: '/var/log': Permission denied
find: '/var/cache/apt/archives/partial': Permission denied
find: '/var/cache/ldconfig': Permission denied
bandit6@bandit:~$ /var/lib/dpkg/info/bandit7.password
-bash: /var/lib/dpkg/info/bandit7.password: Permission denied
HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs
bandit7@bandit:~$
```



## Level 7 → Level 8

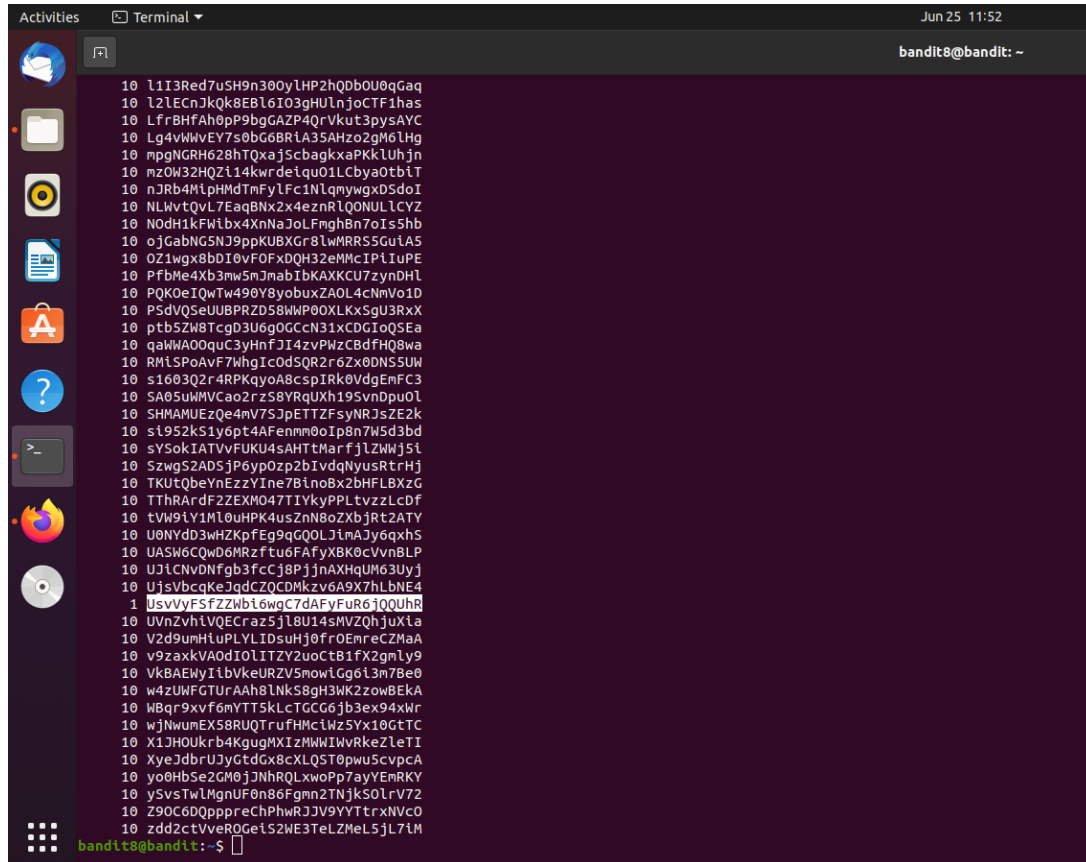
8. cvX2JJJa4CFALtqS87jk27qwqGhBM9plV



```
Activities Terminal Jun 25 11:43
bandit7@bandit: ~
earthlings IhFcUS01RouQ8UG45WVUVsPD2kTr6wnJ
Hera's gAcRVahuux36AcOjmg0gP4ulwKevvD3X
ferment's DTTlALTv7wmDYzoQ4MSm97bJdCnNkw2P
Anouilh MKKDDki6xvFcZsBxhWEXsfeMA00MoJaC
overabundance ES9eqyfmh8uB03XqT0AR7EKGgyCQ1IFk
complement's MChy3WxEqGqckXZ5c4Sp950V36l2F5fJ
grape g00pwTzt0LzUZ6sS3pljp0z709LahPxxu
Blaine k61r0I4u0D2PMEXld2RDxQMTE8tACyst
canonizatlon's 7ITrZvFVzsjuJBHVLu4gfcHbW1gWQUcN
reserve AH03PedgUR05aCaQVGfQRgY2oR15BYh
Zanuck 30KRl00jncQ5DyqNZePHAD6tCZbVjT1f
baritone XSodKcCZa05ckkLyP4uXwrjIVaCzKcpq
lineman's Gh8HTLmWxnXJxZF4DzhuRpV8xejb6yw
aquas RkI4EWYAjHPMexRFTY9Rq7vQ7jhKqZw
swaddled snDpr6ve7nuPsjBoTGLrmp0YomdhVzAH
garishness's UbK1yZ2nC02GEjArLASLw0bT8jg0p9rx
Benny's Q0kZrdiFs47KckVLi5ifsFqtlcRxyjvZ
regulated sxJ8HT73fvZMMIicL50nhawcrsYGUIWP
knotting vh268WJXw10Snszed9MVAHD4rTP69lZr
hymnals 7MqsN32lfdbPigtAX6cwFbMzcPAMUoae
Fremont tCy02wC8xdpFqjLZ8xdBQYAHFZPHk7ls
punter's zAfzaA1I0uBSamCR6eMmRoc9oNXpQ16a
junking 6Tlr5K8YZ1d2XsdKu3TTFYXWB6WOMxyT
Aymara z5eU50uyD8Q6a6YPwaCLRBbk1x8kFBec
waned gL59r6xvewhSy8t0mglnThTCUMG8S6Id
conceded TWLuptX3HbwD4qsY0Q9sENOn0iNy79sC
kilned kljrgoJvftIyUyotu0I4cxFcXQXbC6a5
Santayana KKn1I4fuWdzKyvffp1aYrBDzQa3Tr3Pk
Antigua dRyNiegAg00kCgrKVQFXMXS06vFARL55
heyday UAGwMLFzylGa4fHp0ZEelUQE253lUyX
praiseworthy's bJR80uCXm4dH7lp9hHB3mbFBMMwLNKNq
separatisn p2167YTCJseAv4YhLZNb2fs7JlvLDLUW
plan PLz4ZXWx02fEe4oMd1I78wQXL4MIHxTf
confrontation KLHScgMgyzBYxXBKxsjKcQ2A5erDIJL
briquet's aHc51xHj1t3ANF7jH2odd7mHWBfd8VKz
encapsulate STOVYQEMWtFz54JtjJRrhDXgZcfVw8LS
wildfowls PqcmofjmkJ8NBv09exdu7FY2NG6WUMzb
Finland xgXsIYgqUCMrMoT7W2dSwTG1DCvBRvU
bandit7@bandit:~$ whatis string
string (3) - string operations
bandit7@bandit:~$ whatis strings
strings (1) - print the strings of printable characters in files.
bandit7@bandit:~$ strings data.txt | grep "millionth"
millionth cvX2JJJa4CFALtqS87jk27qwqGhBM9plV
bandit7@bandit:~$
```

## Level 8 → Level 9

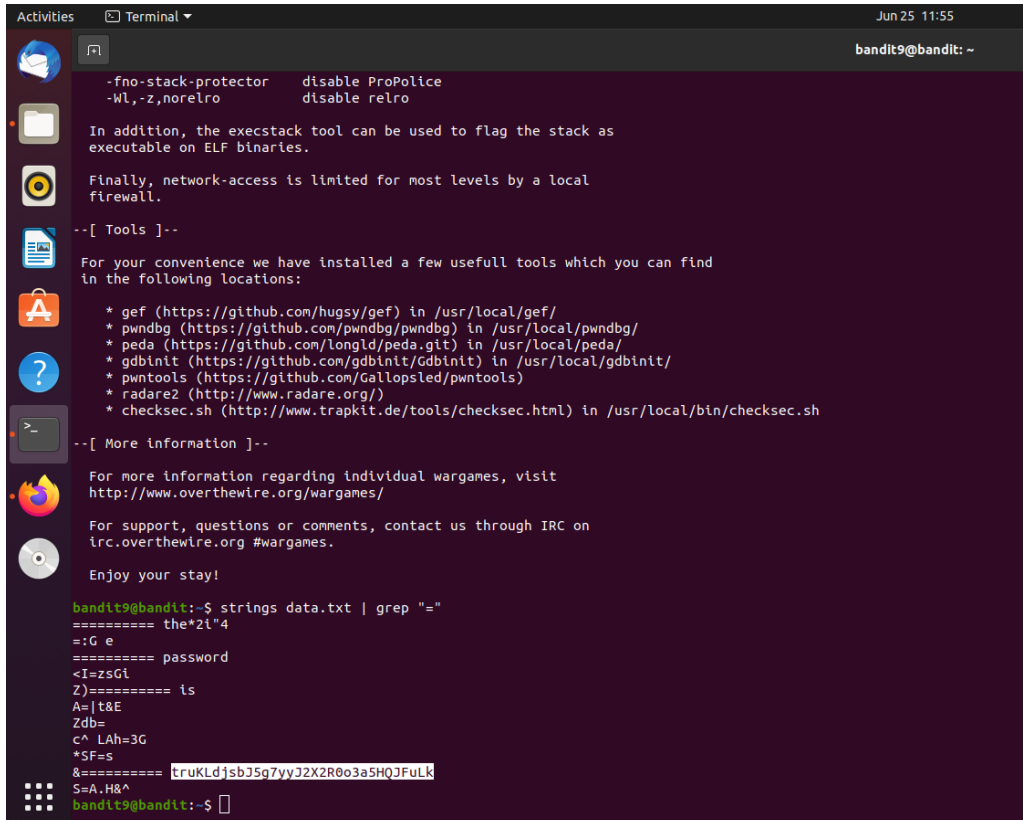
9. UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhR



```
Activities Terminal Jun 25 11:52
bandit8@bandit: ~
10 l1I3Red7uSH9n300yLHP2hQ0b0U0qGaq
10 l2lECnJkQk8EB16IO3gHULnjoCTF1has
10 LfrBHfAh0pP9bgGAZP4QrVkut3pysAYC
10 Lg4vWwvEY7s0bG6BRtA35AHzo2gm6lHg
10 mpgNGRH628htTQxajScbagkxapKklUhjn
10 mzOW32HQZi14kwrdeiQu01LCbya0tbIT
10 nJRB4MlpHMDtmFyLFc1NlqmywgxD5doI
10 NLWvtQvL7EaqBNx2x4eznRLQONULLCYZ
10 N0dH1kFWlBx4XnNaJoLFngHbn7oIs5hb
10 oJGABNG5NJ9ppKUBXGr8lwMRRSS5GuIA5
10 OZ1wgx8bDI0vFOFxDQH32eMMcIPliuPE
10 PfbMe4Xb3mw5mJmabIbKAXKCU7zynDHL
10 PQKOeIQwTw490Y8yobuxZAOL4cNmVo1D
10 P5dvQSeUUBPRZD58WwP00XKxSgU3Rxx
10 ptb5Zw8TcgD3U6g0GCcN31xCDGIoQSEa
10 qaWMA00quC3yHnfJI4zvPWzCBdfFH8wa
10 RMI5PoAvF7WhgIcOdSQR2r6Zx0DNS5UW
10 s1603Q2r4RPkqyoA8cspIRk0VdgmFC3
10 SA05uMHVCao2rzS8YRqUXh195vndpu0L
10 SHMAMUEzQe4mV7SjPETTzFsyNRjsZE2k
10 sl952kS1y6pt4AFenmm0oIp8n7W5d3bd
10 sYSokIATVvFUKU4sAHTtMarfjLZWWj5l
10 SzwgS2AD5jP6yp0zp2bIvdqNysRtrHj
10 TKUtQbeYnEzzYIne7BinoBx2bHFLBXzG
10 TThRardf2ZEXM047TIYkyPPLtvzzLcDf
10 tVW9iy1Ml0uHPK4usZn8oZxbjrt2ATY
10 U0NYdD3wH2KpfEg9gQ0OLJiMAJy6qxhS
10 UASW6CQwD6MRzftu6FAfyXBK0cVvnBLP
10 UJLCNVdNfgb3fcCj8PjjnAXHqUM63Uyj
10 UjsVbcqKeJgdCZQCDmkzv6A9X7hLbNE4
10 UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhR
10 UVnZvhLVQECraz5j18U14sMV2QhJuXLa
10 V2d9umHluPLYLIDsuHj0frOEEnreCZMaA
10 v9zaxkVA0dIOLITZY2uoCtB1fX2gmly9
10 VkBAEWYilbvkeURZV5mowlgg6i3m7Be0
10 w4zUWFGTUrAAh8LnKs8gH3WK2zowBEKa
10 WBqr9xvf6mYTT5kLcTGCg6jb3ex94xWr
10 wJNwumEX58RUQTrufHMcIwz5Yx10GtTC
10 X1JHOUkrb4KgugMXIzMMWIWvRkeZleTI
10 XyeJdbrUjyGtdGx8cXLQST0pwu5cvpcA
10 yo0HbSe2GM0jJNhRQLxwoPp7ayYEmRKY
10 ySvsTwLMgnUF0n86Fgmn2INjks0lrV72
10 Z9OC6DQpppreChPhwRJJV9YTYtrxNVc0
10 zdd2ctVveR0GeLS2WE3TeLZMeL5jL7LM
bandit8@bandit:~$
```

## Level 9 → Level 10

10.truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk



```
Activities  Terminal  Jun 25 11:55
bandit9@bandit: ~

-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/

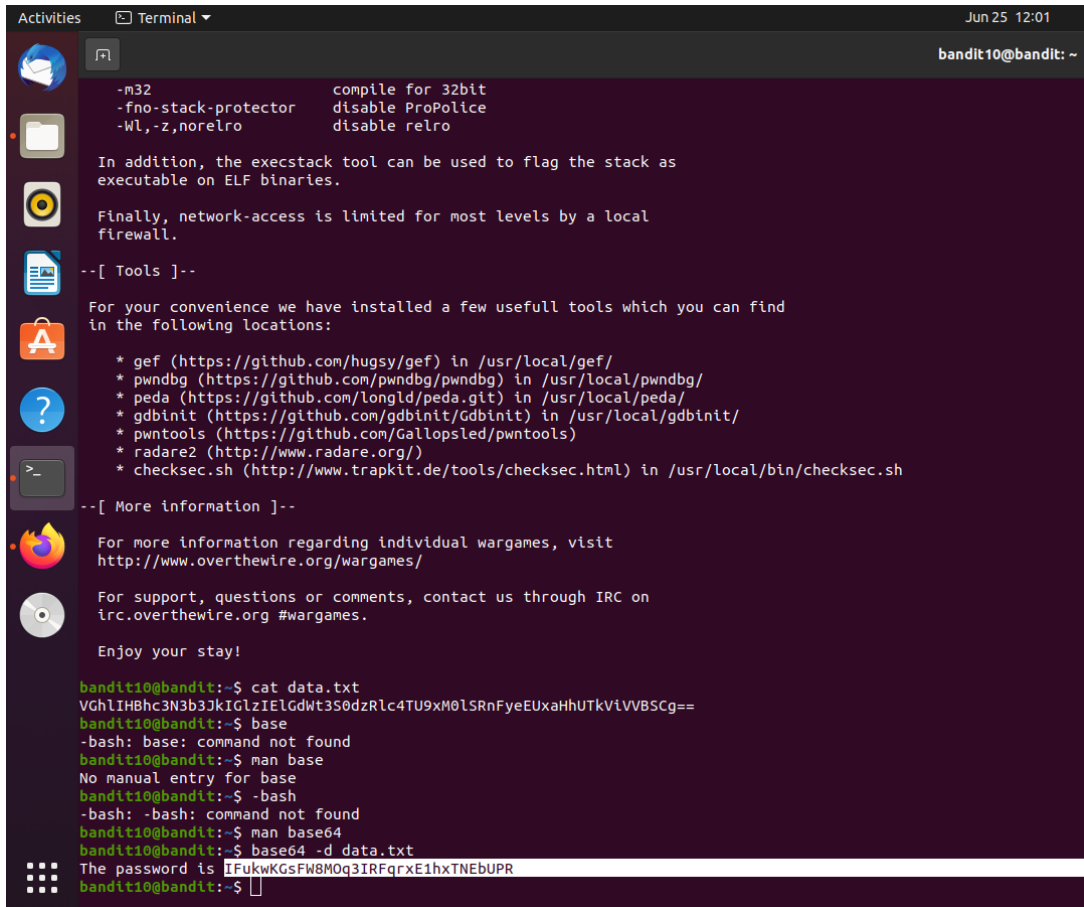
For support, questions or comments, contact us through IRC on
irc.overthewire.org #wargames.

Enjoy your stay!

bandit9@bandit:~$ strings data.txt | grep "="
===== the*2l*4
=:G e
===== password
<I=zsG!
Z)===== is
A=|t&E
Zdb=
c^ LAh=3G
*Sf=$
&===== truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk
S=A,H8^
bandit9@bandit:~$
```

## Level 10 → Level 11

### 11. IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR



A terminal window titled "Terminal" with a dark background and light text. The window shows instructions for Level 11 of a security challenge. It lists compiler flags, mentions the execstack tool, and lists various tools installed on the system. The user then runs a series of commands to decode a base64 string from a file named data.txt, eventually revealing the password.

```
Activities Terminal Jun 25 12:01 bandit10@bandit: ~  
  
-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.  
  
Enjoy your stay!  
  
bandit10@bandit:~$ cat data.txt  
VGhlIH9Bhc3N3b3JkIGlzIElGdWt3S0dzRlc4TU9xM0lSRnFyeEUXaHhUTkViVVB5Cg==  
bandit10@bandit:~$ base  
-bash: base: command not found  
bandit10@bandit:~$ man base  
No manual entry for base  
bandit10@bandit:~$ -bash  
-bash: -bash: command not found  
bandit10@bandit:~$ man base64  
bandit10@bandit:~$ base64 -d data.txt  
The password is IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR  
bandit10@bandit:~$
```

## Level 11 → Level 12

### 12. 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu

The screenshot shows a Linux desktop environment with a terminal window and a web browser displaying the CyberChef application.

**CyberChef Application:**

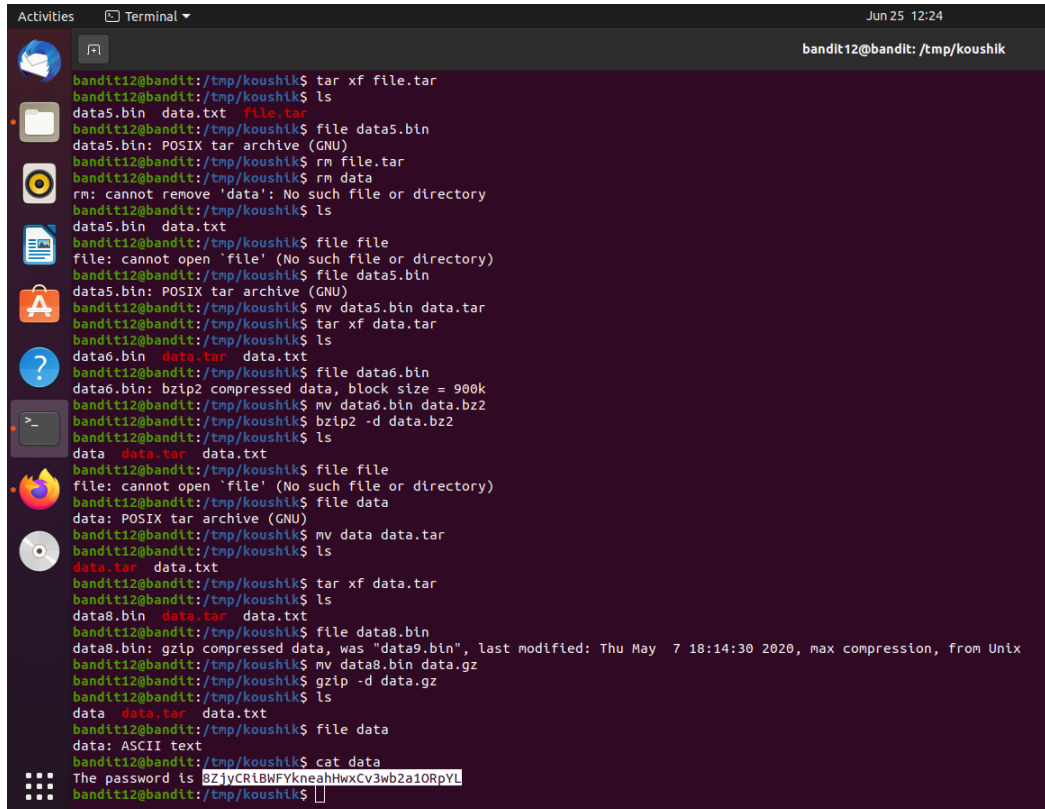
- Recipe:** ROT13
- Operations:** ROT13, ROT47, Rotate left, Rotate Image, Rotate right, From Octal, RC4 Drop, Remove EXIF, From BCD, From Hex, From Base, Crop Image, Drop bytes, Render Markdown, From Base32, From Base45.
- Input:** Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHh
- Output:** The password is 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu

**Terminal Window:**

```
bandit11@bandit: ~  
* again, DONT POST SPOILERS!  
This includes writeups of your solution on your blog or website!  
  
--[ Tips ]--  
  
This machine has a 64bit processor and many security-features enabled  
by default, although ASLR has been switched off. The following  
compiler flags might be interesting:  
  
-m32          compile for 32bit  
-fno-stack-protector  disable ProPolice  
-Wl,-z,norelro  disable relro  
  
In addition, the execstack tool can be used to flag the stack as  
executable on ELF binaries.  
  
Finally, network-access is limited for most levels by a local  
firewall.  
  
--[ Tools ]--  
  
For your convenience we have installed a few usefull tools which you can find  
in the following locations:  
  
* gef (https://github.com/hugsy/gef) in /usr/local/gef/  
* pwndbg (https://github.com/pwndbg/pwndbg) in /usr/local/pwndbg/  
* peda (https://github.com/l0ngl0/peda.git) in /usr/local/peda/  
* gdbint (https://github.com/gdbint/gdbint) in /usr/local/gdbint/  
* pntools (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!  
  
bandit11@bandit:~$ cat data.txt  
Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHh  
bandit11@bandit:~$
```

## Level 12 → Level 13

13.8ZjyCRiBWFYkneahHwxCv3wb2a10RpYL

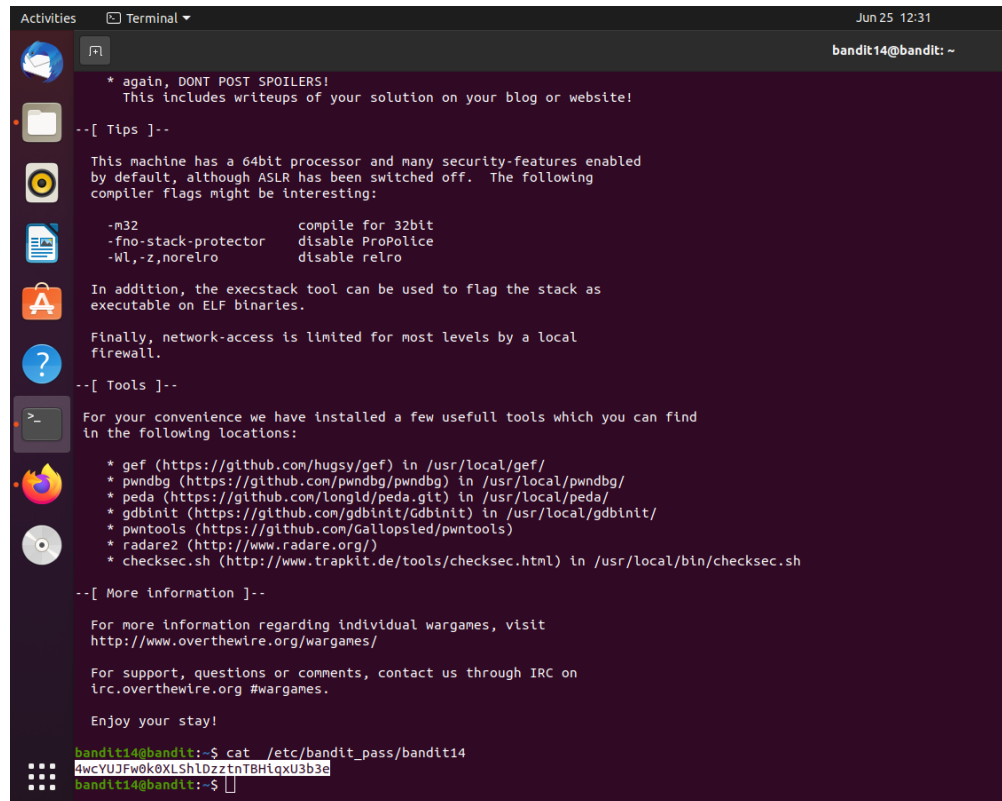


A terminal window titled "Terminal" with a date and time of "Jun 25 12:24". The prompt is "bandit12@bandit: /tmp/koushik". The user runs a series of commands to extract and manipulate files. The process involves extracting "file.tar" to get "data5.bin", which is a POSIX tar archive. This is then moved to "data.tar" and extracted to get "data6.bin", which is bzip2 compressed data. This is moved to "data8.bin" and extracted to get "data9.bin", which is gzip compressed data. Finally, this is moved to "data.gz" and extracted to get "data", which is ASCII text. The password is then revealed as "8ZjyCRiBWFYkneahHwxCv3wb2a10RpYL".

```
bandit12@bandit:/tmp/koushik$ tar xf file.tar
bandit12@bandit:/tmp/koushik$ ls
data5.bin  data.txt  file.tar
bandit12@bandit:/tmp/koushik$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/koushik$ rm file.tar
bandit12@bandit:/tmp/koushik$ rm data
rm: cannot remove 'data': No such file or directory
bandit12@bandit:/tmp/koushik$ ls
data5.bin  data.txt
bandit12@bandit:/tmp/koushik$ file file
file: cannot open 'file' (No such file or directory)
bandit12@bandit:/tmp/koushik$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/koushik$ mv data5.bin data.tar
bandit12@bandit:/tmp/koushik$ tar xf data.tar
bandit12@bandit:/tmp/koushik$ ls
data6.bin  data.tar  data.txt
bandit12@bandit:/tmp/koushik$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/koushik$ mv data6.bin data.bz2
bandit12@bandit:/tmp/koushik$ bzip2 -d data.bz2
bandit12@bandit:/tmp/koushik$ ls
data  data.tar  data.txt
bandit12@bandit:/tmp/koushik$ file file
file: cannot open 'file' (No such file or directory)
bandit12@bandit:/tmp/koushik$ file data
data: POSIX tar archive (GNU)
bandit12@bandit:/tmp/koushik$ mv data data.tar
bandit12@bandit:/tmp/koushik$ ls
data.tar  data.txt
bandit12@bandit:/tmp/koushik$ tar xf data.tar
bandit12@bandit:/tmp/koushik$ ls
data8.bin  data.tar  data.txt
bandit12@bandit:/tmp/koushik$ 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/koushik$ mv data8.bin data.gz
bandit12@bandit:/tmp/koushik$ gzip -d data.gz
bandit12@bandit:/tmp/koushik$ ls
data  data.tar  data.txt
bandit12@bandit:/tmp/koushik$ file data
data: ASCII text
bandit12@bandit:/tmp/koushik$ cat data
The password is 8ZjyCRiBWFYkneahHwxCv3wb2a10RpYL
bandit12@bandit:/tmp/koushik$
```

## Level 13 → Level 14

14. 4wcYUJFw0k0XLShlDzztnTBHlqxU3b3e



```
Activities Terminal Jun 25 12:31 bandit14@bandit: ~

* again, DONT POST SPOILERS!
  This includes writeups of your solution on your blog or website!

--[ Tips ]--

This machine has a 64bit processor and many security-features enabled
by default, although ASLR has been switched off. The following
compiler flags might be interesting:

-m32          compile for 32bit
-fno-stack-protector  disable ProPolice
-Wl,-z,norelro  disable relro

In addition, the execstack tool can be used to flag the stack as
executable on ELF binaries.

Finally, network-access is limited for most levels by a local
firewall.

--[ Tools ]--

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* 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 ]--

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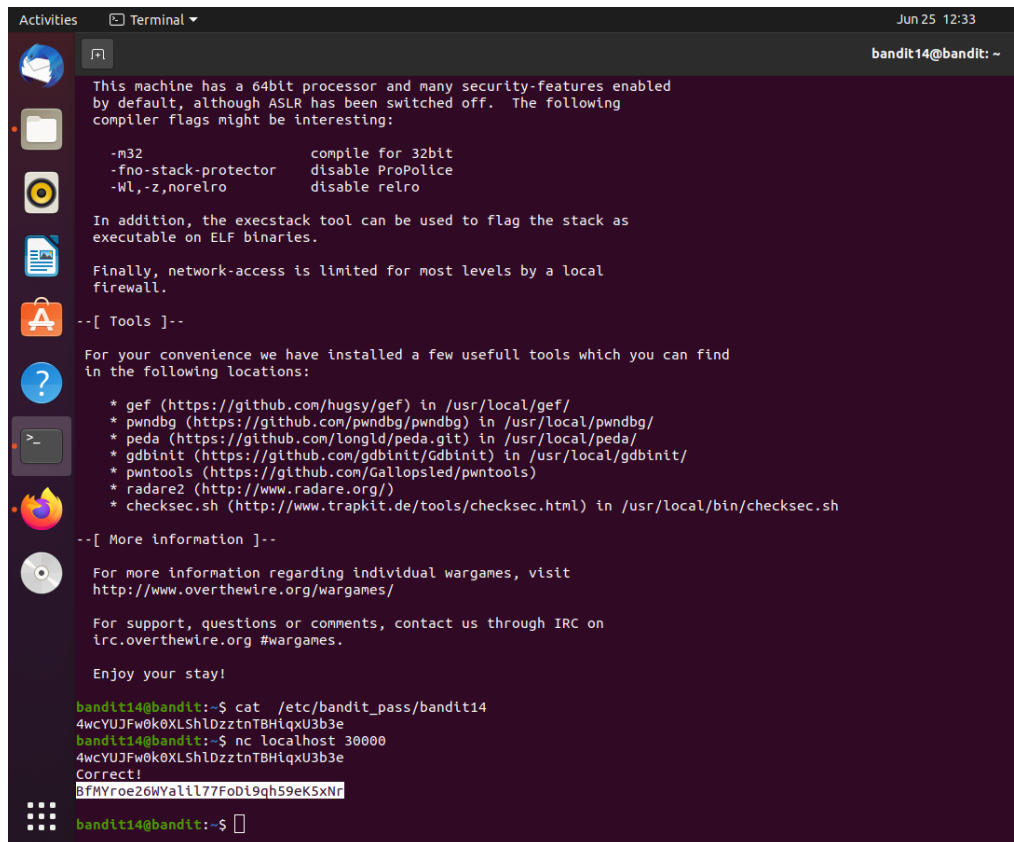
For support, questions or comments, contact us through IRC on
irc.overthewire.org #wargames.

Enjoy your stay!

bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4wcYUJFw0k0XLShlDzztnTBHlqxU3b3e
bandit14@bandit:~$
```

## Level 14 → Level 15

15.BfMYroe26WYalil77FoDi9qh59ek5xNr



```
Activities Terminal Jun 25 12:33 bandit14@bandit: ~

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
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--[ Tools ]--

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* peda (https://github.com/longld/peda.git) in /usr/local/peda/
* gdbinit (https://github.com/gdbinit/gdbinit) in /usr/local/gdbinit/
* pwntools (https://github.com/gallopsled/pwntools)
* radare2 (http://www.radare.org/)
* checksec.sh (http://www.trapkit.de/tools/checksec.html) in /usr/local/bin/checksec.sh

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Enjoy your stay!

bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4wcYUJFw0k0XLSHldzztnTBHlqxU3b3e
bandit14@bandit:~$ nc localhost 30000
4wcYUJFw0k0XLSHldzztnTBHlqxU3b3e
Correct!
BfMYroe26WYalil77FoDi9qh59ek5xNr
bandit14@bandit:~$
```

These are the passwords needed to proceed to next levels up to level 15 in the bandit war game.