

# BANDIT

## LEVEL 1

PASSWORD: boj9jbbUNNfktd780OpsqOltutMc3MY1

```
Activities Terminal Mar 5 22:15
bandit0@bandit: ~

-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:~$ ls -la
. . . .bash_logout .bashrc .profile readme
bandit0@bandit:~$ ls
readme
bandit0@bandit:~$ cat readme
boj9jbbUNNfktd780OpsqOltutMc3MY1
bandit0@bandit:~$
```

## LEVEL 2

PASSWORD: CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9

```
Activities Terminal Mar 5 22:19
bandit1@bandit: ~

* 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!

bandit1@bandit:~$ ls -la
. . . .bash_logout .bashrc .profile
bandit1@bandit:~$ ls
-
bandit1@bandit:~$ cat .bash_logout
# ~/.bash_logout: executed by bash(1) when login shell exits.

# when leaving the console clear the screen to increase privacy

if [ "$SHLVL" = 1 ]; then
[ -x /usr/bin/clear_console ] && /usr/bin/clear_console -q
fi
bandit1@bandit:~$ ls
-
bandit1@bandit:~$ cat -

bandit1@bandit:~$ cat
cat: -: No such file or directory
bandit1@bandit:~$ cat ./-
CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9
bandit1@bandit:~$
```

## LEVEL 3

PASSWORD: UmHadQclWmgdLOKQ3YNgiWxGoRMb5luK

```
Activities Terminal Mar 5 22:22
bandit2@bandit: ~

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)
* radare2 (http://www.radare.org/)
* checksec.sh (http://www.trapkit.de/tools/checksec.html) in /usr/local/bin/checksec.sh

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bandit2@bandit:~$
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
cat: spaces/in/this/filename: No such file or directory
bandit2@bandit:~$ cat spaces\in\this\ filename
UmHadQclWmgdLOKQ3YNgiWxGoRMb5luK
bandit2@bandit:~$
```

## LEVEL 4

PASSWORD: plwrPrtPN36QITSp3EQaw936yaFoFgAB

```
Activities Terminal Mar 5 22:24
bandit3@bandit: ~/inhere

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

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Enjoy your stay!

bandit3@bandit:~$
bandit3@bandit:~$ ls
inhere
bandit3@bandit:~$ cd inhere
bandit3@bandit:~/inhere$ ls
.. .hidden
bandit3@bandit:~/inhere$ cat .hidden
plwrPrtPN36QITSp3EQaw936yaFoFgAB
bandit3@bandit:~/inhere$
```

## LEVEL 5

PASSWORD: koReBOKulDDepwhWk7jZCORTdopnAYKh

```
bandit4@bandit: ~/inhere
bandit4@bandit:~/inhere$ man find
bandit4@bandit:~/inhere$ find . -type f
find: './-type': No such file or directory
find: 'f': No such file or directory
bandit4@bandit:~/inhere$ cat ./-file0
cat: ./-file0: No such file or directory
bandit4@bandit:~/inhere$ find . -type f | xargs file
find: './-type': No such file or directory
find: 'f': No such file or directory
Usage: file [-bEhikLLNnprsvzZ0] [--apple] [--extension] [--mime-encoding] [--mime-type]
        [-e testname] [-F separator] [-f namefile] [-m magicfiles] file ...
        file -C [-m magicfiles]
        file [--help]
bandit4@bandit:~/inhere$ find . -type f
./-file01
./-file00
./-file06
./-file03
./-file05
./-file08
./-file04
./-file07
./-file02
./-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$ cat ./-file07
koReBOKulDDepwhWk7jZCORTdopnAYKh
bandit4@bandit:~/inhere$
```

## LEVEL 6

PASSWORD: DXjZPULLxYr17uwoI01bNLQbtFemEgo7

```
bandit5@bandit: ~/inhere
./maybeh ere10/.file2: ASCII text
./maybeh ere10/spaces: cannot open './maybeh ere10/spaces' (No such file or directory)
file3: cannot open 'file3' (No such file or directory)
./maybeh ere10/.file3: data
./maybeh ere10/.file2: ASCII text, with very long lines
./maybeh ere10/.file3: data
./maybeh ere10/spaces: cannot open './maybeh ere10/spaces' (No such file or directory)
file1: cannot open 'file1' (No such file or directory)
./maybeh ere10/.file1: ASCII text, with very long lines
./maybeh ere10/spaces: cannot open './maybeh ere10/spaces' (No such file or directory)
file2: cannot open 'file2' (No such file or directory)
./maybeh ere10/.file1: ASCII text, with very long lines
./maybeh ere13/.file2: ASCII text, with very long lines
./maybeh ere13/spaces: cannot open './maybeh ere13/spaces' (No such file or directory)
file3: cannot open 'file3' (No such file or directory)
./maybeh ere13/.file3: data
./maybeh ere13/.file2: ASCII text, with very long lines
./maybeh ere13/.file3: data
./maybeh ere13/spaces: cannot open './maybeh ere13/spaces' (No such file or directory)
file1: cannot open 'file1' (No such file or directory)
./maybeh ere13/.file1: ASCII text, with very long lines
./maybeh ere13/spaces: cannot open './maybeh ere13/spaces' (No such file or directory)
file2: cannot open 'file2' (No such file or directory)
./maybeh ere13/.file1: ASCII text, with very long lines
bandit5@bandit:~/inhere$ find . -type f -size 1033c
./maybeh ere07/.file2
bandit5@bandit:~/inhere$ ^C
bandit5@bandit:~/inhere$ cat ./maybeh ere07/.file2
DXjZPULLxYr17uwoI01bNLQbtFemEgo7
bandit5@bandit:~/inhere$
```

## LEVEL 7

PASSWORD: HKBPTKQnlay4Fw76bEy8PVxKEDQRKTzs

```
Activities Terminal Mar 5 23:08
jithu@jithu-VirtualBox: ~
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
bandit6@bandit:~$ cat /var/lib/dpkg/info/bandit7.password
HKBPTKQnlay4Fw76bEy8PVxKEDQRKTzs
bandit6@bandit:~$
bandit6@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
jithu@jithu-VirtualBox:~$
```

## LEVEL 8

PASSWORD: cvX2JJJa4CFALtqS87jk27qwqGhBM9pIV

```
Activities Terminal Mar 6 12:07
bandit7@bandit: ~
Anouilh MKKDDki6xvFcZsBxhWEXsFeMA00MoJaC
overabundance ES9eqyfnh8uB03XqT0AR7EKGgyCQ1IFk
complement's MCWY3WxEeWqckXZ5G4Sp950Y36L2F5fJ
grape g00pwTZt0LzUz6s53pIjP0Z709LAHPXu
Blaine k61rOI4u0D2PMEXLd2RDxQWIE8tAcyst
canonization's 7ITrZvFvZsjujBHVlu4gFChBw1gWQUcN
reserve AH03PedgUR05aCaQVGfQRgY2oR1SByh
Zanuck 30KRLOQjncQ5DyqNZePHAD6tCZbVjT1f
baritone XSodKcCza05ckkLyP4uXwrjIVaCzKcpq
lineman's Gh8HTLmWxnXJxZF4DzhuiRpV8xejb6yw
aquas RkI4EWYAjHPMexRFTY9Rq7vQtjhiKgZw
swaddled snDpr6ve7nuPsjBoTGLrmp0YomdhVzAH
garishness's UbK1yZ2nCO2GEjArLASLw0bT8jg0p9rx
Benny's Q0kZrdlfs47KckVLi5ifsFgtLcRxyjvZ
regulated sxJ8HT73fvZMMiicL50nhawcrsYGUIWP
knotting vh268WJXw10Snszed9MVahD4rTP69LZr
hymnals 7MqsN32lf0bPigtAX6cwFbMZcPAMUoae
Fremont tCy02wC8xdpFqjLZ8xd8QYAHFZPHk7Ls
punter's zAfzaA1IOuBSamCR6eMmRoc9oNXpQ16a
junking 6TLr5K8Yz1d2XsdKu3TTFYXWB6W0XyT
Aymara zSeU50UyD8Q6a6YPwaCLRBbk1x8KFEC
waned gL59r6xvewh5y8t0nglNtHtCUMG8S6Id
conceded TMLUptX3HbwD4qsYQ09sEN0n0Lny79sC
kilned kLjrgoJvftIyUyotu0I4cxFcXQxbC6aS
Santayana KKnI14fuWdzKyvfp1aYrBDZq3Tr3Pk
Antigua dRyNteqAg00kCgrKVQFXMXS06vFARL55
heyday UAGwMLFzylGa4fHpQZEeLUQE25JLUpYX
praiseworthiness's bJR80uGXM4dH7lp9hHB3mbFBMMwLNKNq
separatism p2167YTCJseAv4YhLZNb2fs7JivLDLW
plan PLz4ZXWx02FEE40Md1I78wQXL4MIMxTf
confrontation KLHscgMgzyBQYxBXkxsjKcQ2A5erDIJL
briquet's aHc51XHj1t3ANF7jH26dd7mHWBf8VKz
encapsulate STOVYQEMWtFz54tJtJRrhdXgZcFvW8L5
wildfowls PqcMofjJmKJ8NBv09exdu7FY2NG6WUMzb
Finland xgXsIYgqUCMriMoT7W2dSwTGDcVbRvU
bandit7@bandit:~$ strings data.txt | grep "millionth"
millionth cvX2JJJa4CFALtqS87jk27qwqGhBM9pIV
bandit7@bandit:~$
```

## LEVEL 9

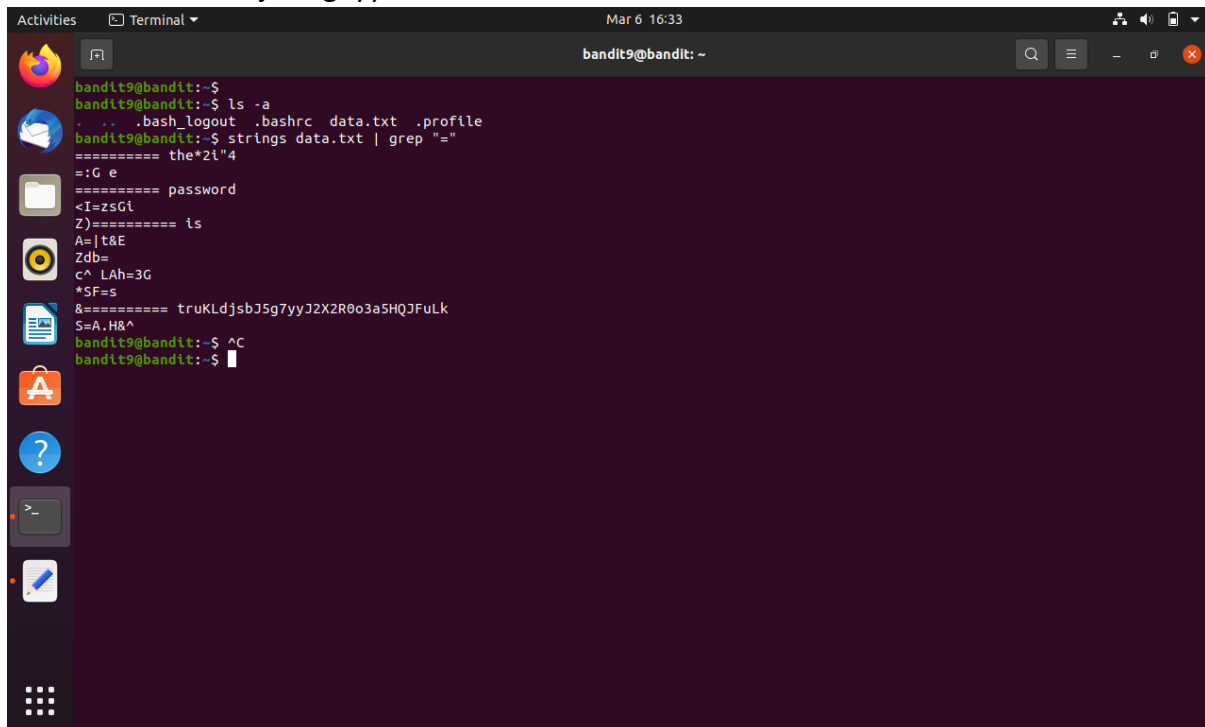
PASSWORD: UsvVyFsFZZWbi6wgC7dAFyFuR6jQQUHR

```
Activities Terminal Mar 6 12:11
bandit8@bandit: ~
3zwg5cM05jF0ypp0zpz01v0qnyusKtiHj
5AdqWjoJ0Edx5tJmZVBMo0K2e4arD3ZW
gqyF9CH3NNIIiGW27AtWVNPqp311fxTMY
fLyKxCbHB8uLTaIB5LXqNuJj3yJ00eh
w4zUWFTUrAAh8lNkS8gH3WKZzowBEKA
bandit8@bandit:~$ sort data.txt | uniq -c
10 07KC3ukwX7kswL8Le9ebb3H3s0oNTsR2
10 0efnqHY1ZTNru4LsDX4D73DsxIQq7RuJ
10 0N65ZPpNgkUJePzFxcTCRZRrVrCbUGfm
10 0Xo6DLyK5LzRqEtBA7sW2SRmLAixMY5g
10 10XltczY5Dz7UMoseKIeFW5zZwQryLfw
10 1ET5sKgJfQj1cJefZXLJWzKzza3lWcJa
10 1T6qw9I32d71cS3TTvmVp1WsxPFDJ9I
10 2bFz9F0yRwxGzVCZ4Er04bk00qfUrzWb
10 2CxmTckpNL5ZjuoNzAtShkPXf5T43W7s
10 337085y40ymIh99WPUtotkb114evfAkC
10 33xpPQhjt4Q2mqtX4sCVRW2Zyh82E8R
10 4SMqYZZstep75cte6xxKpVL49pKUKV8N
10 5AdqWjoJ0Edx5tJmZVBMo0K2e4arD3ZW
10 5c08XuoQWrszye0Wdht8zgUIVWSRDaec
10 6PF22p608TphCTZot9ApZx8VfGuo8rd5
10 7KaMzgnYMuEMISp9vut3Dvsc06qfa9u
10 7uhj3nhe4ASoesnnEZHAZN67fJ8BFjM
10 8jtZmvqp9PTl8tp1oybBM663NQh3fhII
10 8NtHznWzCA8HswoJ5CU70Jg8nP3eKpsA
10 aR2QhaBoDMncvJqPkwLXmzEx9meB1bx
10 BccauS9LE8NUz4HVLXUwE8M1LWlsPLG
10 bRnktwNdxFy2RPZishXJikswEzJGvJ9
10 cIPbot7oYveUPNXDMhv1hIrL50CqpkTG
10 cR6rLSWC05T7ALZ2l1e47r3gc0qxShGo
10 CUqLkJIo0Jz9fNgrjPxlPa7PGGCIwpTQ
10 dGnfd2Loqt101MBf2vmqW1KKEWSHFMKJ
10 dgd5wTV01cVPJoEY7GGKcDgXG6ZyqW98
10 dqnvnNxL4QR3ALq95ckhZwEpL77cRgF4
10 DqPqVp8YcJZ1vFscLRtG13EuSc2D52X
10 dV0aGghk6mB4ZJX1aTTLuAUIvLWToTYr
10 DxxLvJl6cGHXL70W4xqS7Qrfny1K01l
10 eSHFL4ur1rAxPPv2mHzg1uYKMuos4fwp
10 Ef5091Qp5qQJ3sJz5dMXLxpeAfkbL0rw
bandit8@bandit:~$
```

```
Activities Terminal Mar 6 12:12
bandit8@bandit: ~
10 NLWvtQvL7EaqBNx2x4eznRlQ0NULlCYZ
10 NodH1kFWlBx4XnNaJoLFngHbn7oIs5hb
10 oJGAbGNSNJ9ppKUBXGr8lWMRRS5GuIA5
10 OZ1wgx8bDI0vFOFXDQh32eMMcIPiIuPE
10 PfbMe4Xb3mw5mJmabIkBAXKCU7zynDHL
10 PQKOeIQTw490Y8yobuxZAOL4cNmVo1D
10 PsdVQSeUUBPRZD58WMP00XLKx5U3Rxx
10 ptb5ZW8TcgD3U6g0GcN31xCdGIoQ5Ea
10 qawMAO0quC3yHnFJI4zvPWzCBdfH08wa
10 RMLSPoAvF7WhgIcOd5QR2r6Zx0DN5UW
10 s1603Q2r4RPKqyoA8cspIRk0VdgEmFC3
10 SA05uMMVCao2rzS8YRqUXh19SvnDpu0L
10 SHMAMUEZQe4mV7SJPETTFsyNRJ5ZE2k
10 si952ks1y6pt4AFenmm0oIp8n7W5d3bd
10 sYsokIATVvFUKU4sAHTtMarfj1ZWj5i
10 SzwgS2AD5jP6yp0zp2bIvdqNyusRtrHj
10 TKUfQbeYnEzzYIne7BinoBx2bHFLBXzG
10 TThRardF2ZEXM047TIYkyPPLtvz2LcDf
10 tVW9iY1Ml0uHPK4usZn8oZXbjRt2ATY
10 U0NYd3wHZKpFEg9qGQOLJlMAJy6qxhS
10 UASW6QWdMRZftu6FAfyXBK0cVvnBLP
10 UJlCNvDNfGb3fCcJ8PjJnAXHqUM63UyJ
10 UjsVbcqKeJqdCZQCDmkzv6A9X7hLbNE4
10 UsvVyFsFZZWbi6wgC7dAFyFuR6jQQUHR
10 UVnZvhiVQECraz5j18U14sMVZQhjuXla
10 V2d9umHluPLYLIDsuHj0fr0EmreCZMaA
10 v9zaxkVAOdIOlITZY2uoCtB1fX2gmly9
10 VkBAEWYIibVkeURZV5mowIG6i3m7Be0
10 w4zUWFTUrAAh8lNkS8gH3WKZzowBEKA
10 WBqr9xvf6mYTT5klcTGC6j3b3ex94xWr
10 wJNwumEX58RUQTufHMcIwZ5Yx10GtTC
10 X1JHOUkrb4KqgMXIzMMWIWvRkeZLeTI
10 XyeJddbrUJyGtdGx8cXLQST0pWuScvpcA
10 yo0HbSe2GM0jJNhrQLxwoPp7ayYEmRKY
10 ySvsTwLmgnUF0n86Fgnn2TNjks01rV72
10 Z90C6DQpppreChPhwRJv9YYTtrxNvc0
10 zdd2ctVveR0GeLS2WE3TeLZMeL5JL7LM
bandit8@bandit:~$
```

## LEVEL 10

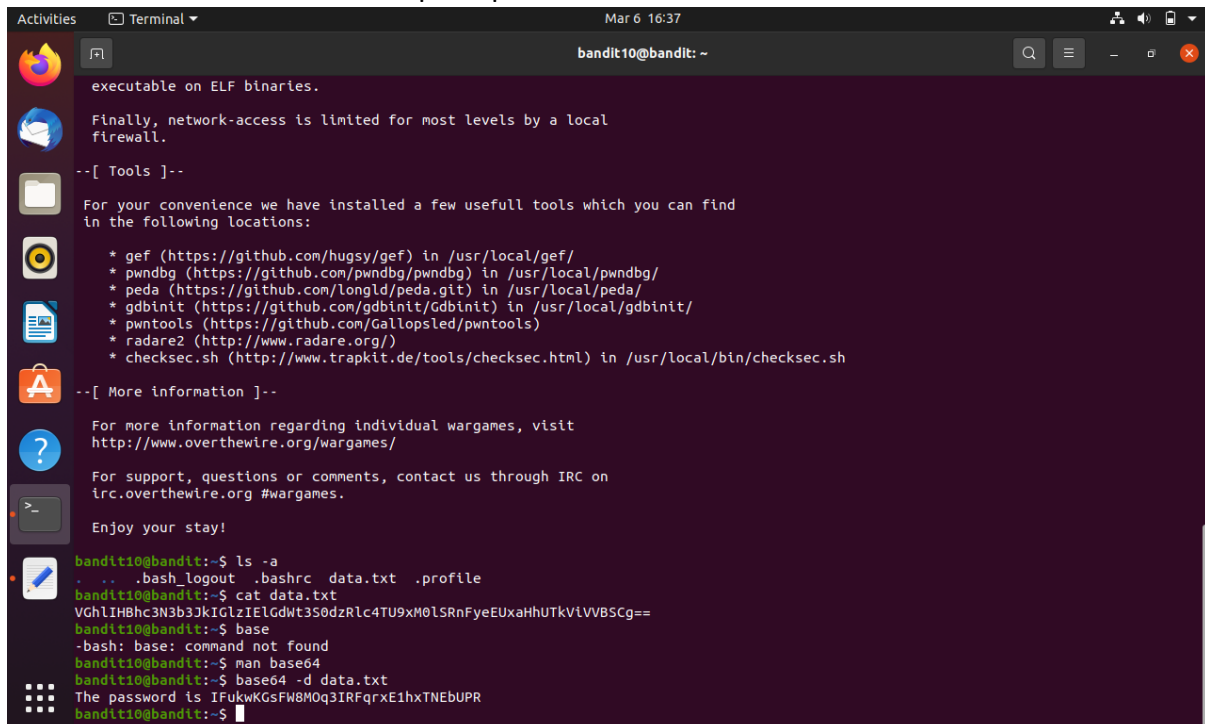
PASSWORD: truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk



```
bandit9@bandit:~$ ls -a
.  ..  .bash_logout .bashrc data.txt .profile
bandit9@bandit:~$ strings data.txt | grep "="
===== the*2i"4
=:G e
===== password
<I=zsGt
Z)====== is
A=|t&E
Zdb=
c^ LAh=3G
*SF=s
&===== truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk
S=A.H8^
bandit9@bandit:~$ ^C
bandit9@bandit:~$
```

## LEVEL 11

PASSWORD: IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR



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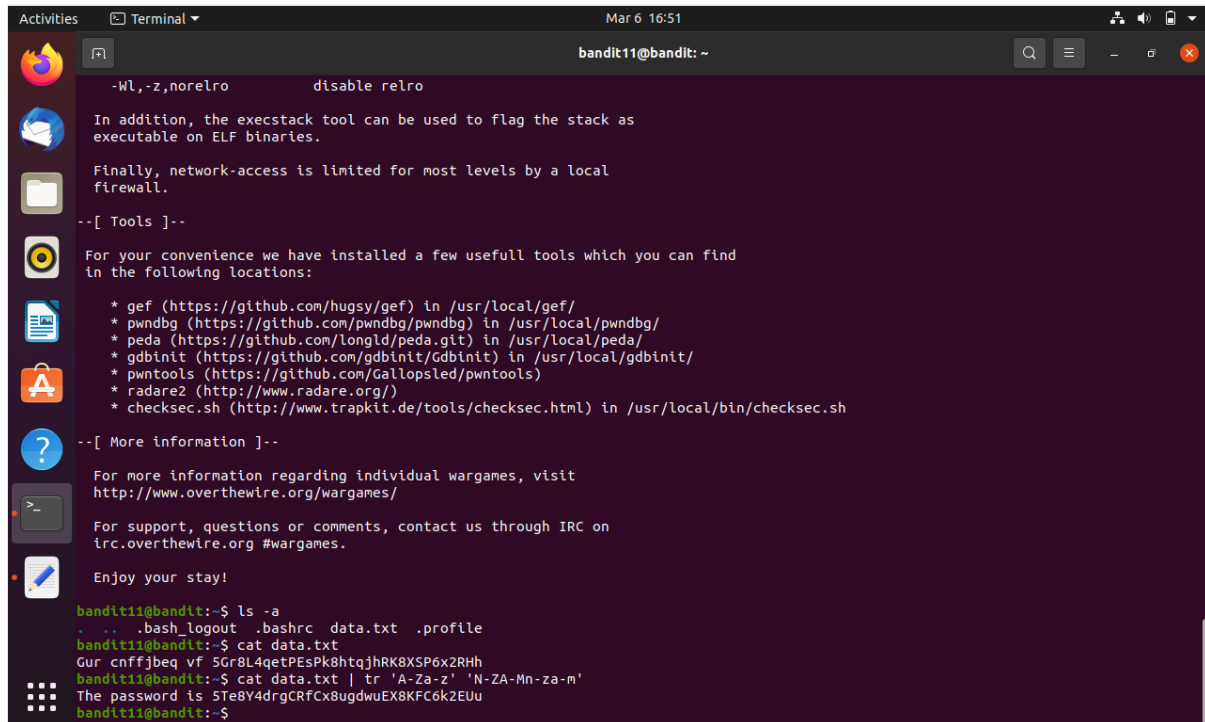
For support, questions or comments, contact us through IRC on
irc.overthewire.org #wargames.

Enjoy your stay!

bandit10@bandit:~$ ls -a
.  ..  .bash_logout .bashrc data.txt .profile
bandit10@bandit:~$ cat data.txt
VGhlIHdhc3N3b3JkIGlzIElGdWt3S0dzRlc4TU9xM0lSRnFyeEUXaHhUTkVlVVBScG==
bandit10@bandit:~$ base
-bash: base: command not found
bandit10@bandit:~$ man base64
bandit10@bandit:~$ base64 -d data.txt
The password is IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR
bandit10@bandit:~$
```

## LEVEL 12

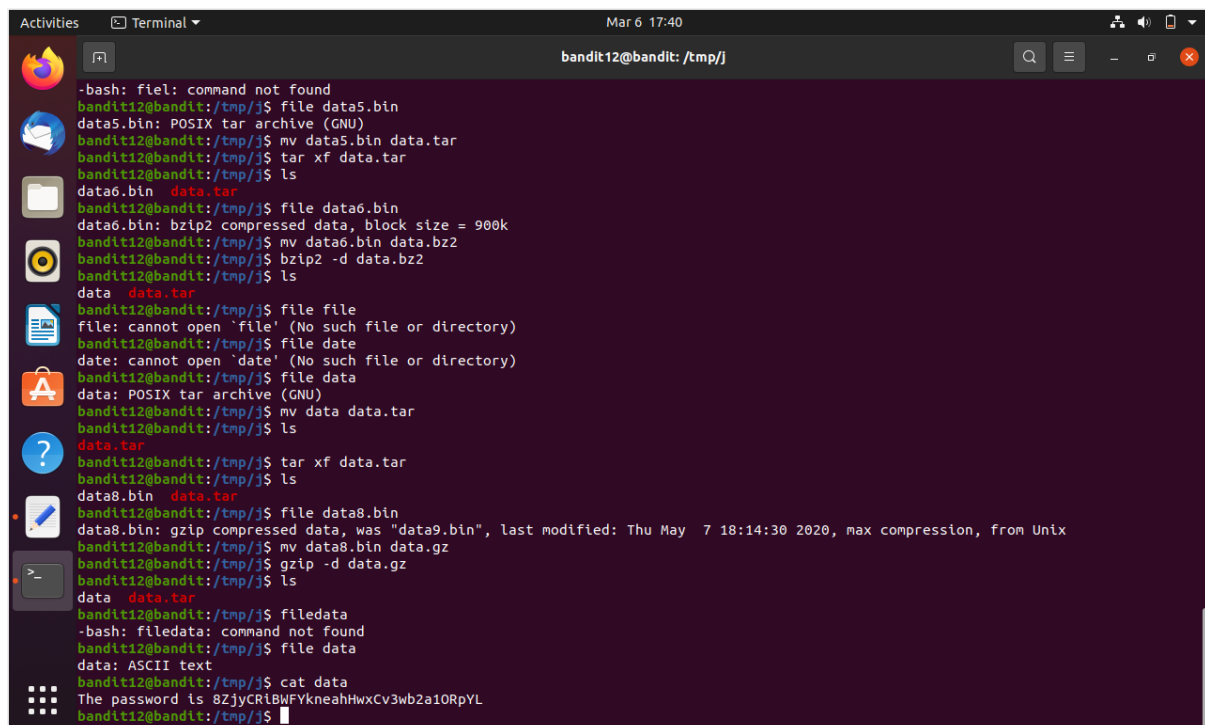
PASSWORD: 5Te8Y4drgCRfCx8ugdWuEX8KFC6k2EUu

A terminal window titled 'bandit11@bandit: ~' showing the contents of a file. The file contains instructions for using execstack, network-access limitations, and a list of installed tools. It also provides information on where to find more help and how to contact the maintainers.

```
bandit11@bandit: ~  
-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!  
  
bandit11@bandit:~$ ls -a  
.. .bash_logout .bashrc data.txt .profile  
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:~$
```

## LEVEL 13

PASSWORD: 8ZjyCRiBWFYkneahHwxCv3wb2a1ORpYL

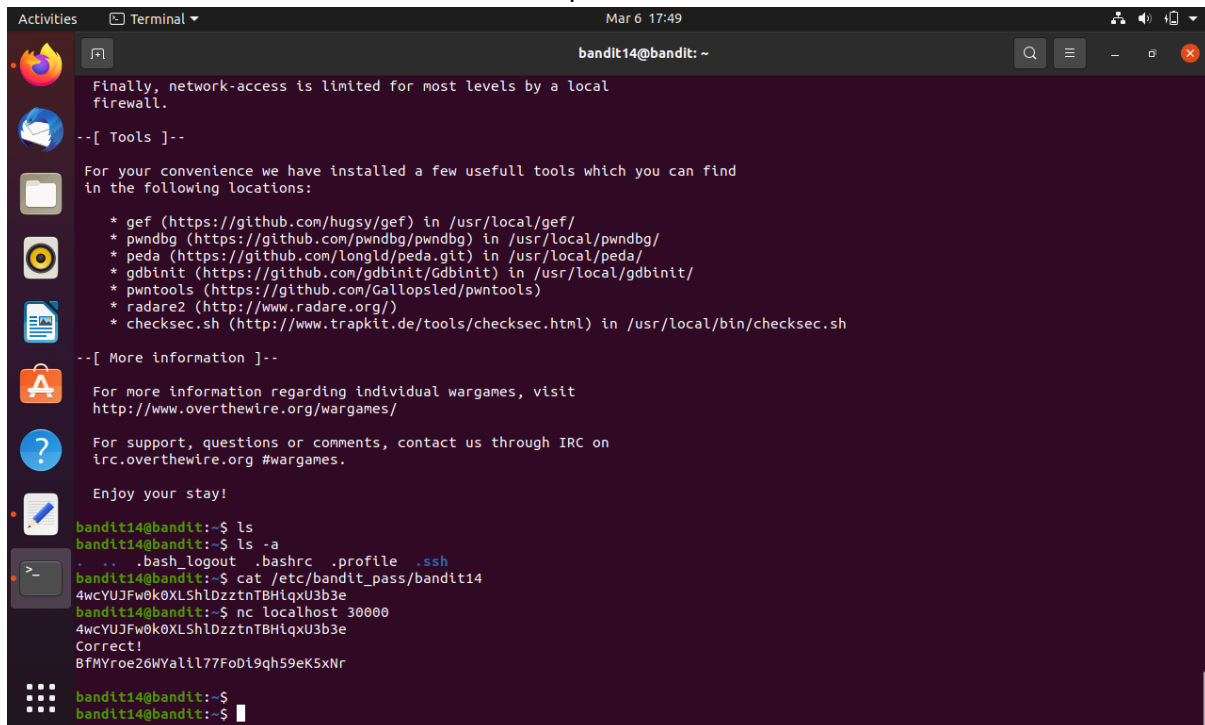
A terminal window titled 'bandit12@bandit: /tmp/j' showing a series of commands used to decompress and analyze files. The user finds a tar archive, extracts it, finds a bzip2 compressed file, extracts it, and then finds a gzip compressed file, which they also extract. Finally, they use the 'file' command to identify the contents of the files.

```
bandit12@bandit: /tmp/j  
-bash: fiel: command not found  
bandit12@bandit: /tmp/j$ file data5.bin  
data5.bin: POSIX tar archive (GNU)  
bandit12@bandit: /tmp/j$ mv data5.bin data.tar  
bandit12@bandit: /tmp/j$ tar xf data.tar  
bandit12@bandit: /tmp/j$ ls  
data6.bin  data.tar  
bandit12@bandit: /tmp/j$ file data6.bin  
data6.bin: bzip2 compressed data, block size = 900k  
bandit12@bandit: /tmp/j$ mv data6.bin data.bz2  
bandit12@bandit: /tmp/j$ bzip2 -d data.bz2  
bandit12@bandit: /tmp/j$ ls  
data  data.tar  
bandit12@bandit: /tmp/j$ file file  
file: cannot open 'file' (No such file or directory)  
bandit12@bandit: /tmp/j$ file date  
date: cannot open 'date' (No such file or directory)  
bandit12@bandit: /tmp/j$ file data  
data: POSIX tar archive (GNU)  
bandit12@bandit: /tmp/j$ mv data data.tar  
bandit12@bandit: /tmp/j$ ls  
data.tar  
bandit12@bandit: /tmp/j$ tar xf data.tar  
bandit12@bandit: /tmp/j$ ls  
data8.bin  data.tar  
bandit12@bandit: /tmp/j$ 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/j$ mv data8.bin data.gz  
bandit12@bandit: /tmp/j$ gzip -d data.gz  
bandit12@bandit: /tmp/j$ ls  
data  data.tar  
bandit12@bandit: /tmp/j$ filedata  
-bash: filedata: command not found  
bandit12@bandit: /tmp/j$ file data  
data: ASCII text  
bandit12@bandit: /tmp/j$ cat data  
The password is 8ZjyCRiBWFYkneahHwxCv3wb2a1ORpYL  
bandit12@bandit: /tmp/j$
```



## LEVEL 14

PASSWORD: 4wcYUJFw0k0XLShlDzztnTBHlqxU3b3e



```
bandit14@bandit: ~
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.

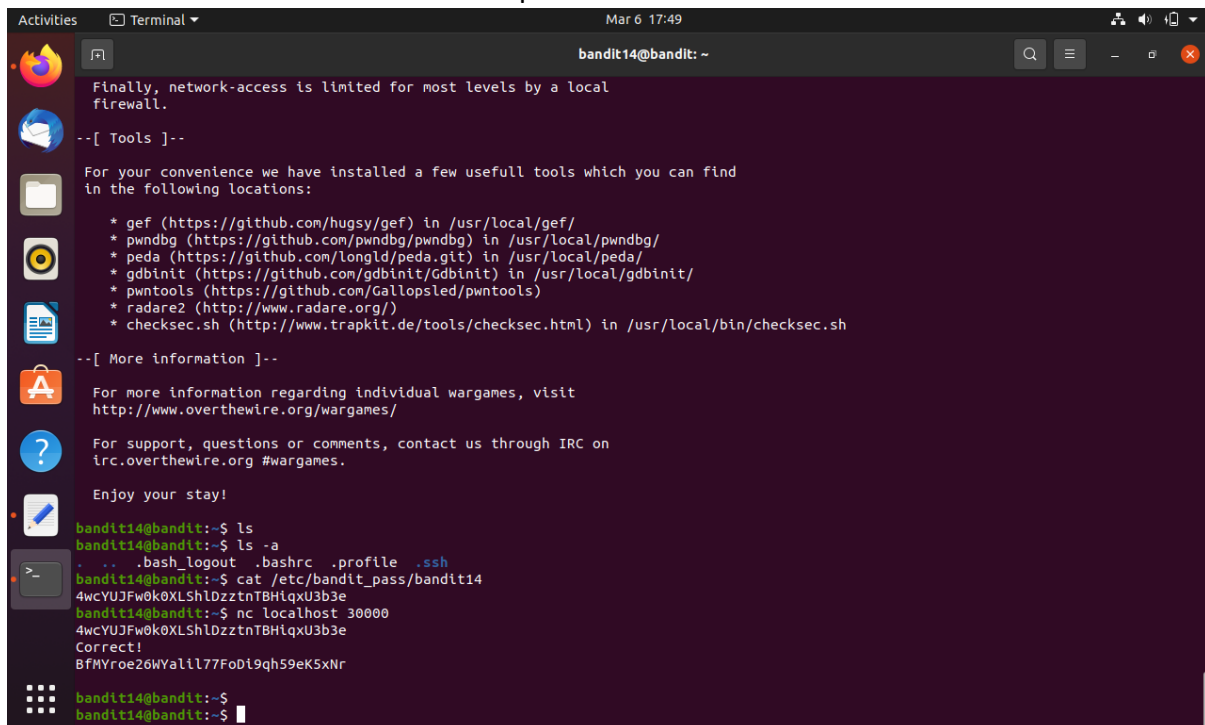
Enjoy your stay!

bandit14@bandit:~$ ls
bandit14@bandit:~$ ls -la
.  ..  .bash_logout  .bashrc  .profile  .ssh
bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4wcYUJFw0k0XLShlDzztnTBHlqxU3b3e
bandit14@bandit:~$ nc localhost 30000
4wcYUJFw0k0XLShlDzztnTBHlqxU3b3e
Correct!
BfMYroe26WYalil77FoDi9qh59eK5xNr

bandit14@bandit:~$
bandit14@bandit:~$
```

## LEVEL 15

PASSWORD: BfMYroe26WYalil77FoDi9qh59eK5xNr



```
bandit14@bandit: ~
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!

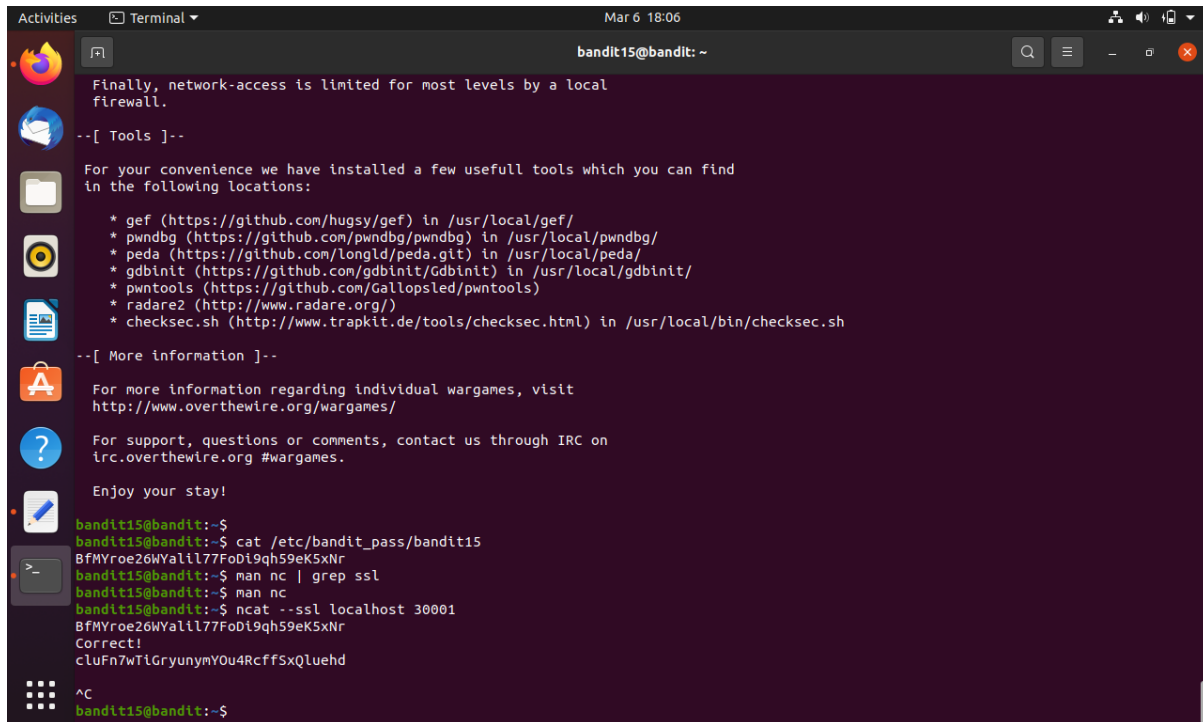
bandit14@bandit:~$ ls
bandit14@bandit:~$ ls -la
.  ..  .bash_logout  .bashrc  .profile  .ssh
bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4wcYUJFw0k0XLShlDzztnTBHlqxU3b3e
bandit14@bandit:~$ nc localhost 30000
4wcYUJFw0k0XLShlDzztnTBHlqxU3b3e
Correct!
BfMYroe26WYalil77FoDi9qh59eK5xNr

bandit14@bandit:~$
bandit14@bandit:~$
```



## LEVEL 16

PASSWORD: cluFn7wTiGryunymYOu4RcffSxQluehd



A terminal window titled "bandit15@bandit: ~" showing the completion of Bandit Level 16. The window has a dark purple background and a sidebar on the left with various application icons. The terminal output includes a message about network access being limited by a local firewall, followed by a list of installed tools and their locations. It then provides information on where to find more details and support. Finally, it shows the user running a series of commands to verify the password and receive the next level's password.

```
bandit15@bandit:~$  
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!  
bandit15@bandit:~$  
bandit15@bandit:~$ cat /etc/bandit_pass/bandit15  
BfMYroe26WYalil77FoDi9qh59eK5xNr  
bandit15@bandit:~$ man nc | grep ssl  
bandit15@bandit:~$ man nc  
bandit15@bandit:~$ ncat --ssl localhost 30001  
BfMYroe26WYalil77FoDi9qh59eK5xNr  
Correct!  
cluFn7wTiGryunymYOu4RcffSxQluehd  
^C  
bandit15@bandit:~$
```