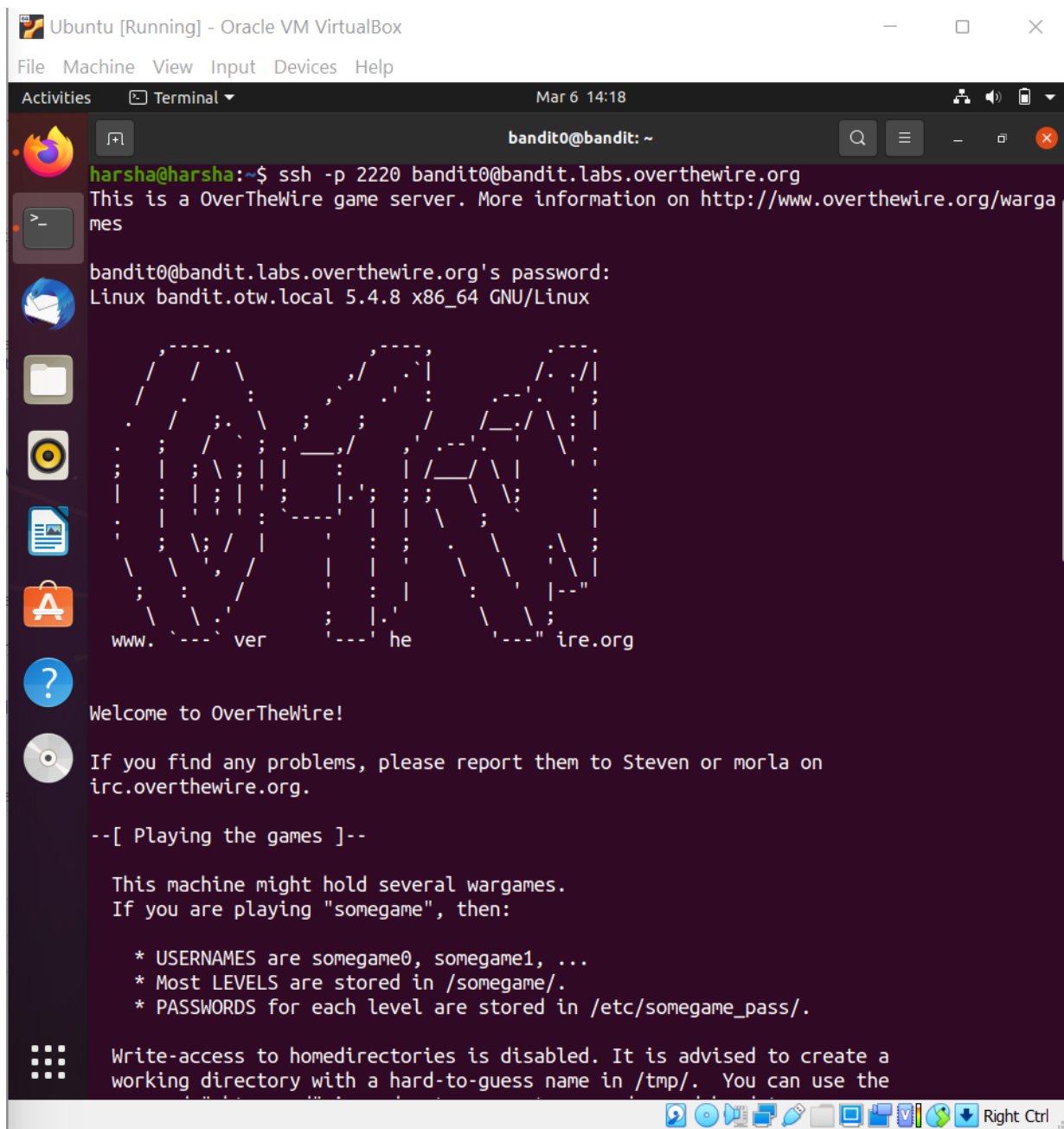


Task -7

Level 0



```
Ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 6 14:18
bandit0@bandit: ~
harsha@harsha:~$ ssh -p 2220 bandit0@bandit.labs.overthewire.org
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
bandit0@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux

www. ver he " ire.org

Welcome to OverTheWire!

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

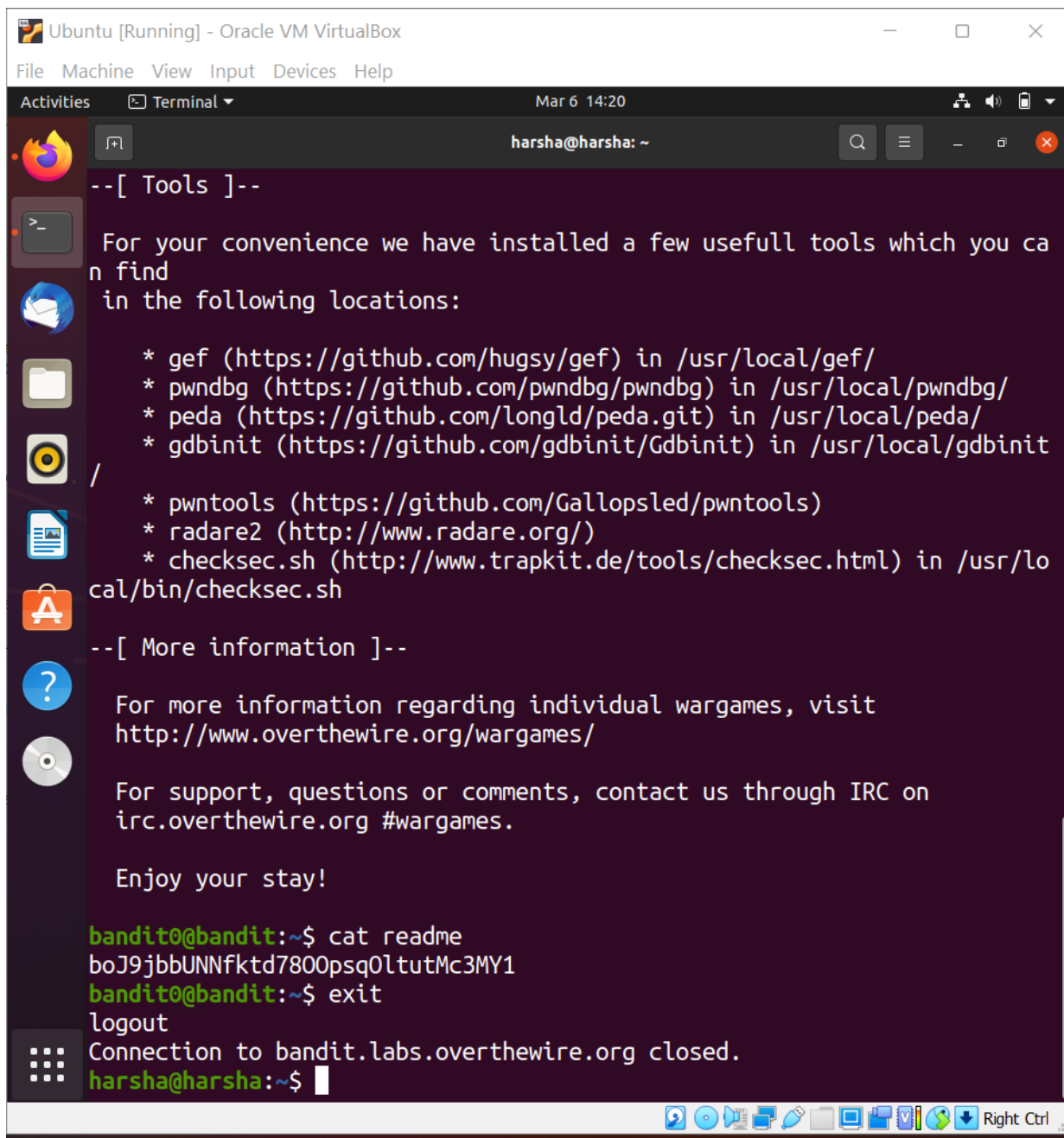
--[ Playing the games ]--

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
```

Level 0-1



```
Ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 6 14:20
harsha@harsha: ~

--[ 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 ]--

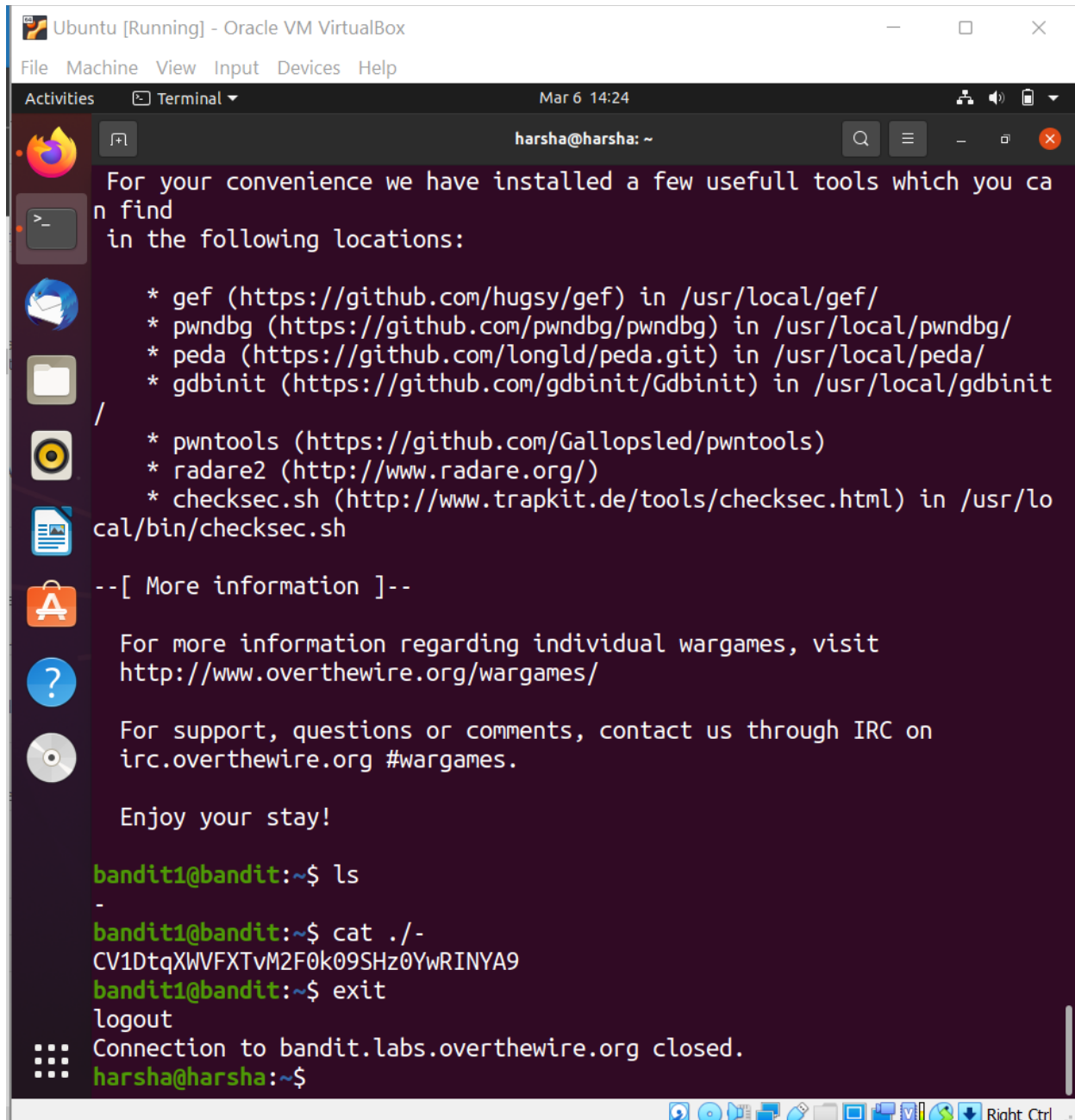
For more information regarding individual wargames, visit
http://www.overthewire.org/wargames/

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

Enjoy your stay!

bandit0@bandit:~$ cat readme
boJ9jbbUNNfktd7800psq0ltutMc3MY1
bandit0@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
harsha@harsha:~$
```

Level 1-2



```
Ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 6 14:24
harsha@harsha: ~

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 ]--

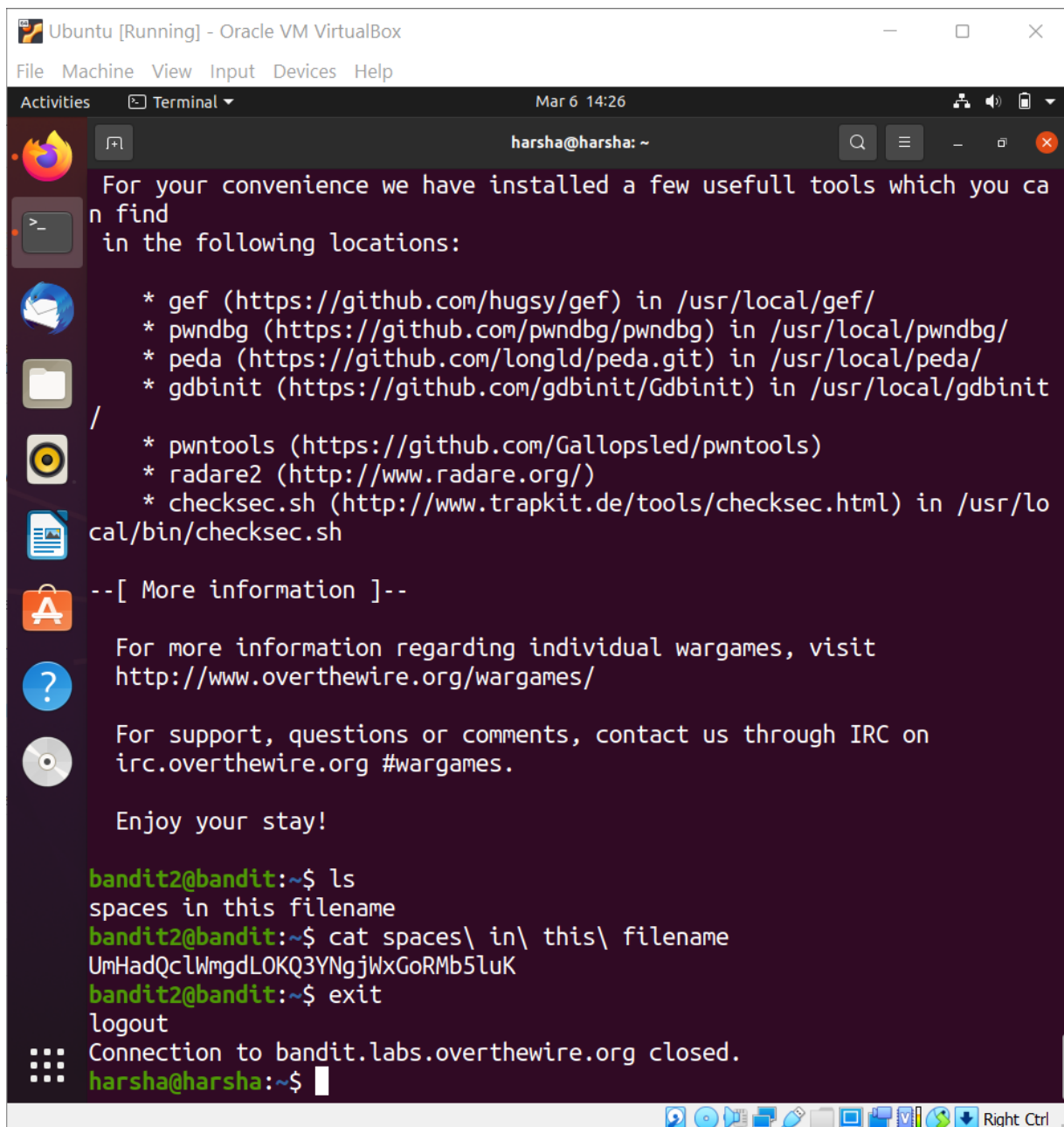
For more information regarding individual wargames, visit
http://www.overthewire.org/wargames/

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

Enjoy your stay!

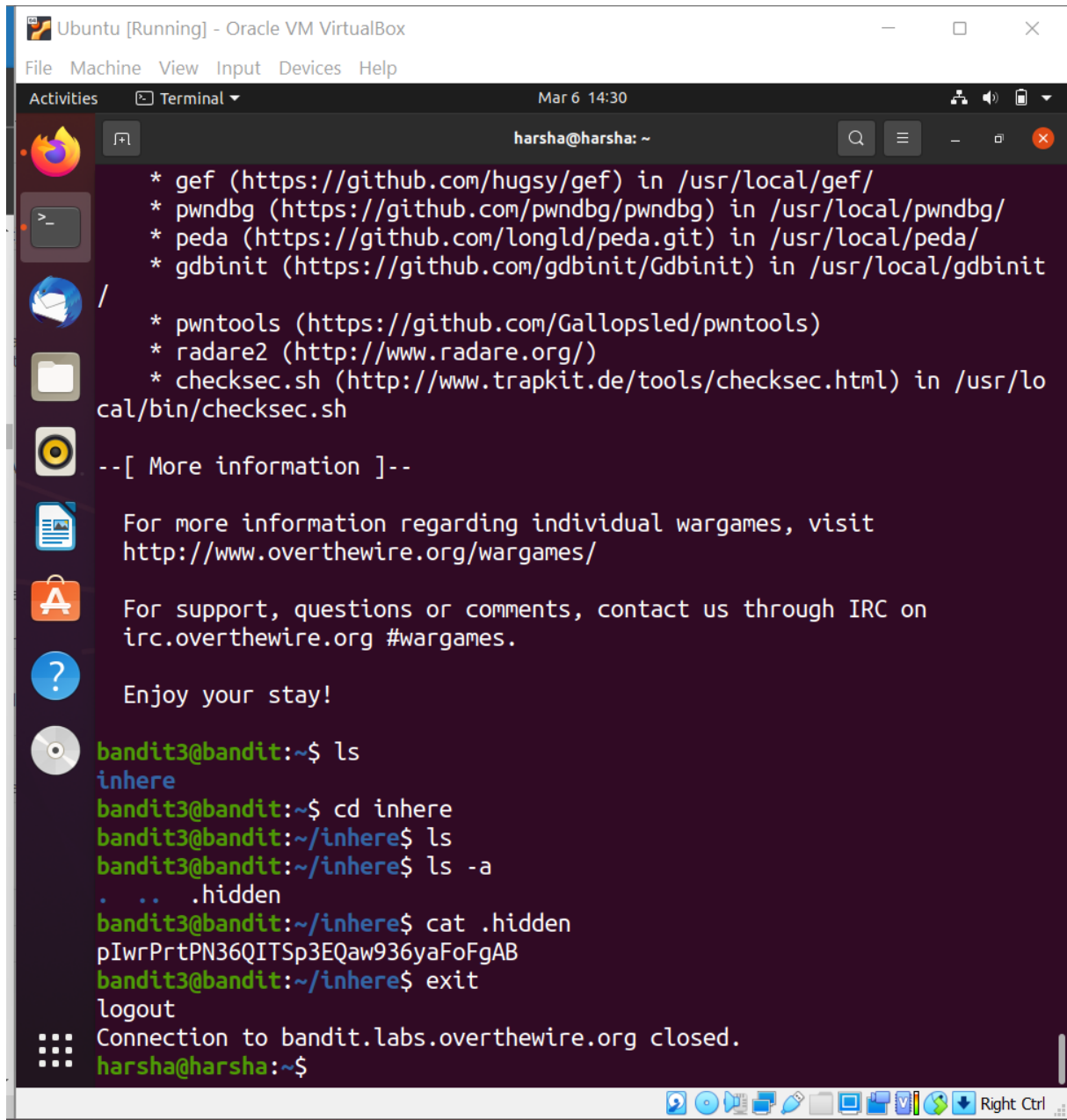
bandit1@bandit:~$ ls
-
bandit1@bandit:~$ cat ./-
CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9
bandit1@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
harsha@harsha:~$
```

Level 2-3



```
Ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 6 14:26
harsha@harsha: ~
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!
bandit2@bandit:~$ ls
spaces in this filename
bandit2@bandit:~$ cat spaces\ in\ this\ filename
UmHadQclWmgdLOKQ3YNgjWxGoRMB5luK
bandit2@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
harsha@harsha:~$
```

Level 3-4



The screenshot shows a terminal window titled "Ubuntu [Running] - Oracle VM VirtualBox". The terminal output lists several tools and their installation 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

Below the list, there is a section titled "--[More information]--" with the following text:

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

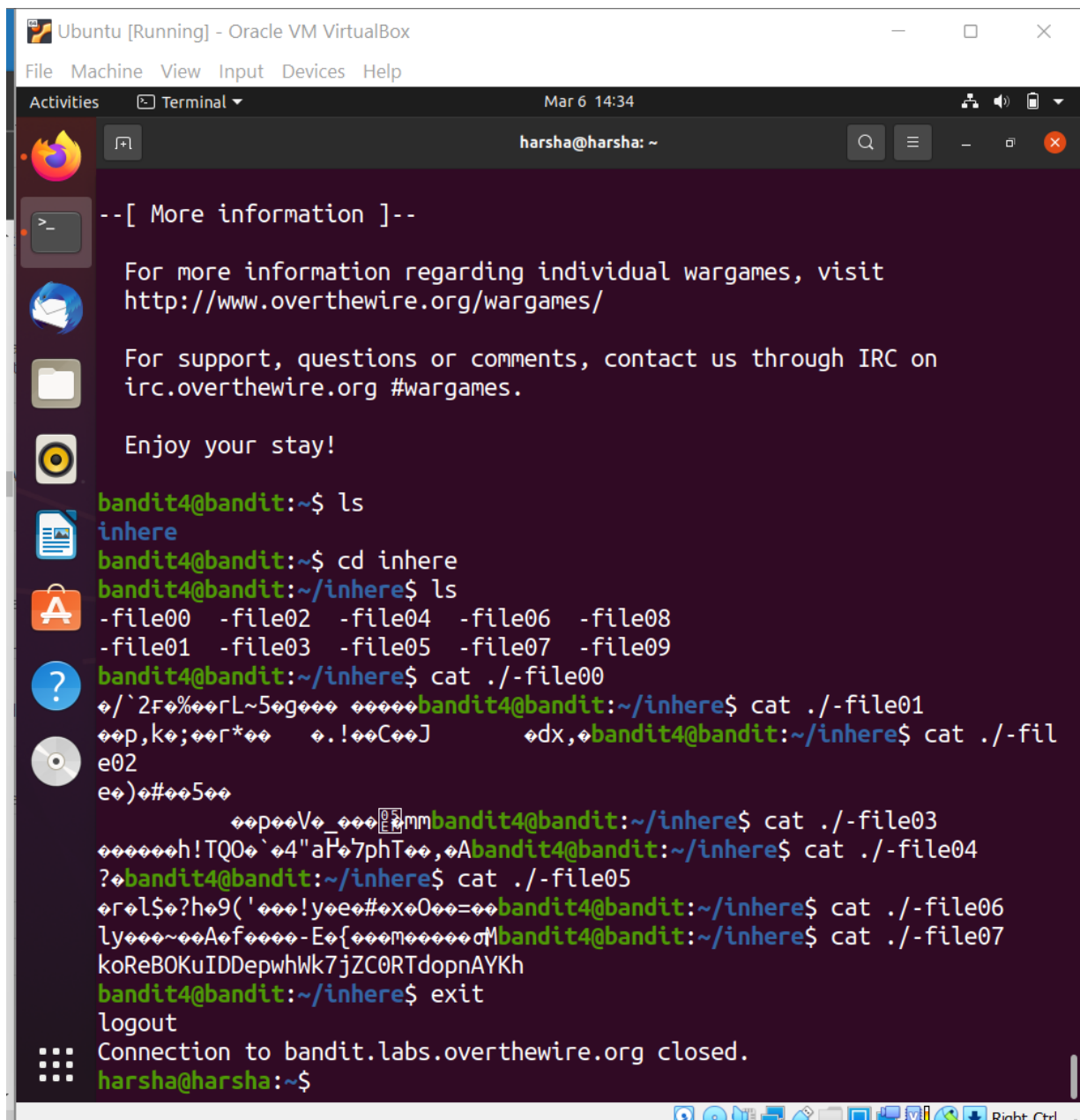
For support, questions or comments, contact us through IRC on [irc.overthewire.org #wargames](irc://irc.overthewire.org/#wargames).

Enjoy your stay!

The terminal then shows the user logging out and the connection to bandit.labs.overthewire.org closed. The final prompt is `harsha@harsha:~$`.

```
harsha@harsha: ~
* 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!
bandit3@bandit:~$ ls
inhere
bandit3@bandit:~$ cd inhere
bandit3@bandit:~/inhere$ ls
bandit3@bandit:~/inhere$ ls -a
.  ..  .hidden
bandit3@bandit:~/inhere$ cat .hidden
pIwrPrtPN36QITSp3EQaw936yaFoFgAB
bandit3@bandit:~/inhere$ exit
logout
Connection to bandit.labs.overthewire.org closed.
harsha@harsha:~$
```

Level4-5



```
Ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 6 14:34
harsha@harsha: ~

--[ More information ]--

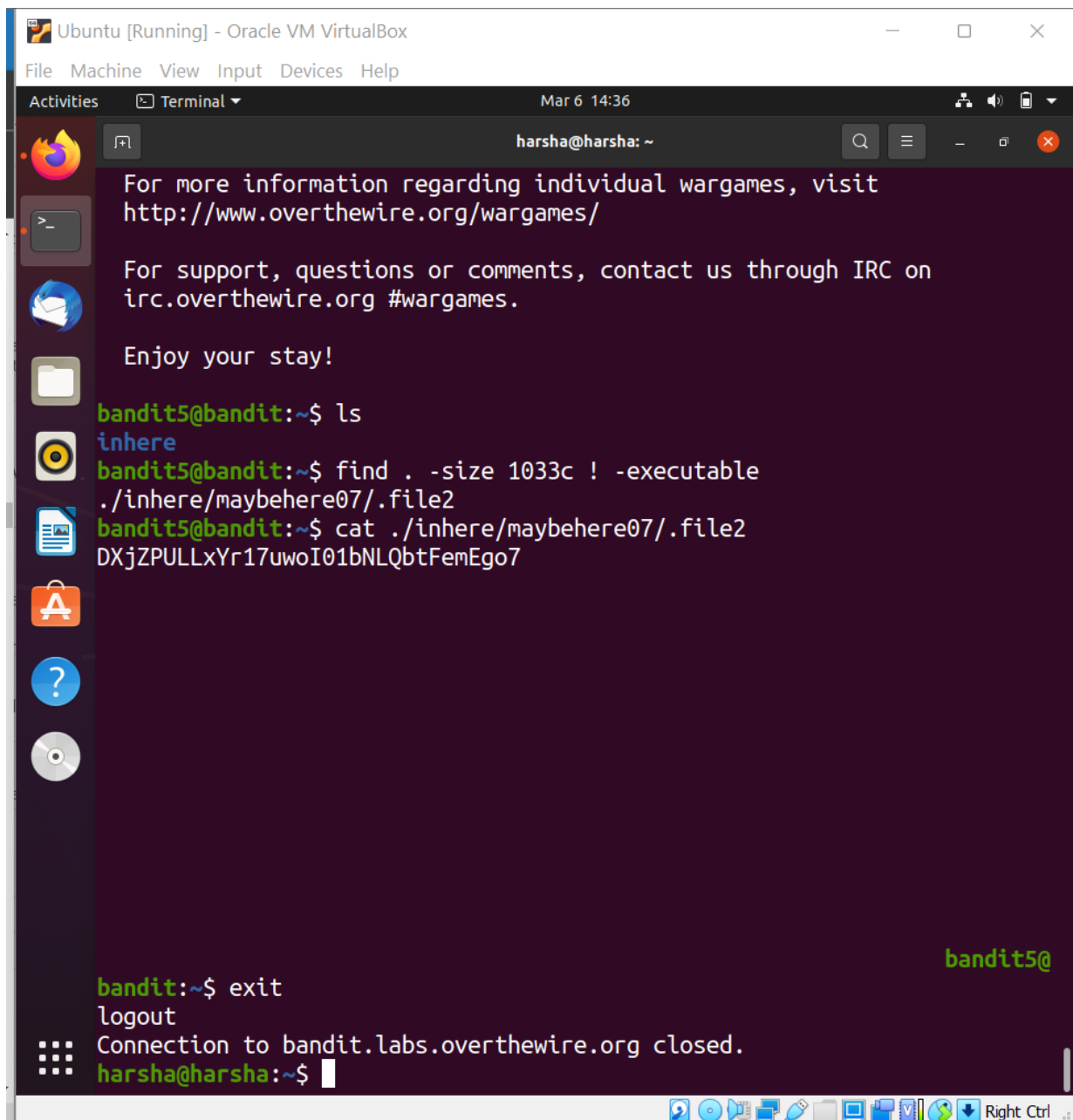
For more information regarding individual wargames, visit
http://www.overthewire.org/wargames/

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

Enjoy your stay!

bandit4@bandit:~$ ls
inhere
bandit4@bandit:~$ cd inhere
bandit4@bandit:~/inhere$ ls
-file00 -file02 -file04 -file06 -file08
-file01 -file03 -file05 -file07 -file09
bandit4@bandit:~/inhere$ cat ./-file00
p`2F%rL~5g  bandit4@bandit:~/inhere$ cat ./-file01
p,k;r*  .!C  dx,bandit4@bandit:~/inhere$ cat ./-file02
e)##5
      pV_  mmbandit4@bandit:~/inhere$ cat ./-file03
h!TQ0`4"aP7phT,Abandit4@bandit:~/inhere$ cat ./-file04
?bandit4@bandit:~/inhere$ cat ./-file05
r!$?h9('!yee#x0==bandit4@bandit:~/inhere$ cat ./-file06
ly~Af-Ee{mbandit4@bandit:~/inhere$ cat ./-file07
koReBOKuIDDepwhWk7jZCORTdopnAYKh
bandit4@bandit:~/inhere$ exit
logout
Connection to bandit.labs.overthewire.org closed.
harsha@harsha:~$
```

Level 5-6



The screenshot shows a terminal window titled "Ubuntu [Running] - Oracle VM VirtualBox". The terminal session is for a user named "harsha@harsha". It displays instructions for the OverTheWire wargames, including a website link and IRC channel. The user then logs into the "bandit5" machine. They run "ls" and see a directory named "inhere". They then run "find . -size 1033c ! -executable" and "cat ./inhere/maybehere07/.file2", which reveals the password "DXjZPULLxYr17uwoI01bNLQbtFemEgo7". Finally, they run "exit" and "logout", and the connection to "bandit.labs.overthewire.org" is closed.

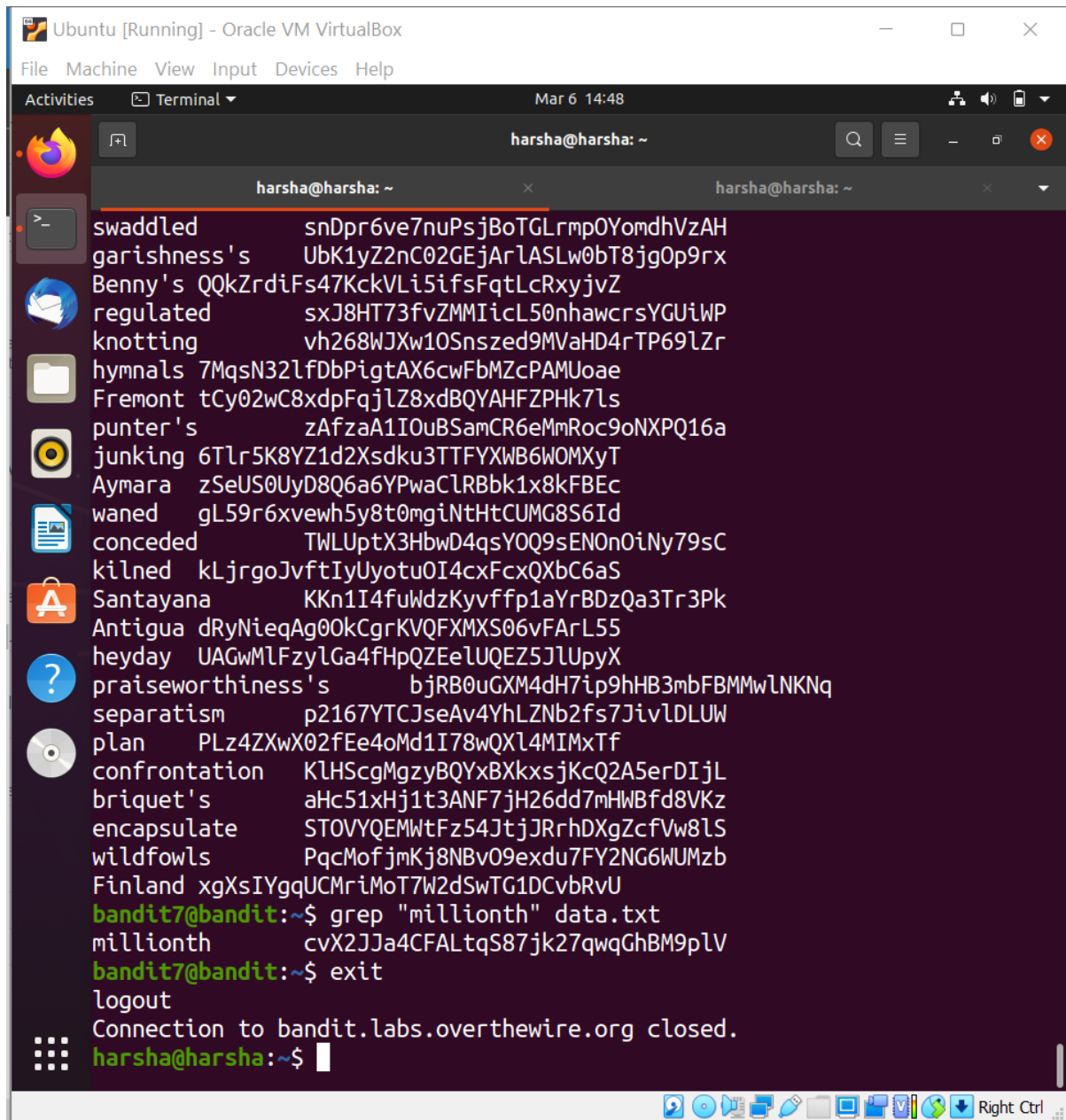
```
harsha@harsha: ~  
For more information regarding individual wargames, visit  
http://www.overthewire.org/wargames/  
  
For support, questions or comments, contact us through IRC on  
irc.overthewire.org #wargames.  
  
Enjoy your stay!  
  
bandit5@bandit:~$ ls  
inhere  
bandit5@bandit:~$ find . -size 1033c ! -executable  
./inhere/maybehere07/.file2  
bandit5@bandit:~$ cat ./inhere/maybehere07/.file2  
DXjZPULLxYr17uwoI01bNLQbtFemEgo7  
  
bandit:~$ exit  
logout  
Connection to bandit.labs.overthewire.org closed.  
harsha@harsha:~$
```

Level 6-7

```
Terminal Mar 6 14:43
harsha@harsha: ~
harsha@harsha: ~
bandit6@bandit:~$ ls
bandit6@bandit:~$ find / -size 33c -group bandit6 -user bandit7
find: '/root': Permission denied
find: '/home/bandit28-git': Permission denied
find: '/home/bandit30-git': Permission denied
find: '/home/bandit5/inhere': Permission denied
find: '/home/bandit27-git': Permission denied
find: '/home/bandit29-git': Permission denied
find: '/home/bandit31-git': Permission denied
find: '/lost+found': Permission denied
find: '/etc/ssl/private': Permission denied
find: '/etc/polkit-1/localauthority': Permission denied
find: '/etc/lvm/archive': Permission denied
find: '/etc/lvm/backup': Permission denied
find: '/sys/fs/pstore': Permission denied
find: '/proc/tty/driver': Permission denied
find: '/proc/19098/task/19098/fd/6': No such file or directory
find: '/proc/19098/task/19098/fdinfo/6': No such file or directory
find: '/proc/19098/fd/5': No such file or directory
find: '/proc/19098/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
```

```
Activities Terminal Mar 6 14:43
harsha@harsha: ~
harsha@harsha: ~
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-bandit27': 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
HKBPTKQnIay4Fw76bEy8PVXKEDQRKTzs
bandit6@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
harsha@harsha:~$
```


Level 7-8



```
Ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 6 14:48
harsha@harsha: ~
harsha@harsha: ~
swaddled snDpr6ve7nuPsjBoTGLrmpOYomdhVzAH
garishness's UbK1yZ2nC02GEjArLAsLw0bT8jgOp9rx
Benny's QQkZrdiFs47KckVLI5ifsFqtLcRxyjvZ
regulated sxJ8HT73fvZMMIicL50nhawcrsYGUIWP
knotting vh268WJXw10Snszed9MVaHD4rTP69lZr
hymnals 7MqsN32lfDbPigtAX6cwFbMZcPAMUoae
Fremont tCy02wC8xdpFqjlZ8xdBQYAHFZPHk7ls
punter's zAfzaA1IOuBSamCR6eMmRoc9oNXPQ16a
junking 6Tlr5K8YZ1d2Xsdku3TTFYXWB6WOMXyT
Aymara zSeU50UyD8Q6a6YPwaClRBbk1x8kFBEC
waned gL59r6xvewh5y8t0mgiNtHtCUMG8S6Id
conceded TWLUptX3HbwD4qsY0Q9sEN0n0iNy79sC
kilned kLjrgoJvftIyUyotu0I4cxFcXQXbC6aS
Santayana KKn1I4fuWdzKyvffp1aYrBDzQa3Tr3Pk
Antigua dRyNieqAg00kCgrKVQFXMXS06vFARL55
heyday UAGwMLFzylGa4fHpQZEeLUQE5JlUpyX
praiseworthiness's bjRB0uGXM4dH7ip9hHB3mbFBMMwlnKNq
separatism p2167YTCJseAv4YhLZNb2fs7JivlDLUW
plan PLz4ZXwX02fEe4oMd1I78wQXL4MIMxTf
confrontation KLHScgMgzyBQYxBXkxsjKcQ2A5erDIjL
briquet's aHc51xHj1t3ANF7jH26dd7mHWBfd8VKz
encapsulate STOVYQEMWtFz54JtjJRrhDXgZcfVw8lS
wildfowls PqcMofjmKj8NBv09exdu7FY2NG6WUMzb
Finland xgXsIYgqUCMriMoT7W2dSwTG1DCvbRvU
bandit7@bandit:~$ grep "millionth" data.txt
millionth cvX2JJJa4CFALtqS87jk27qwqGhBM9plV
bandit7@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
harsha@harsha:~$
```

Level 8-9

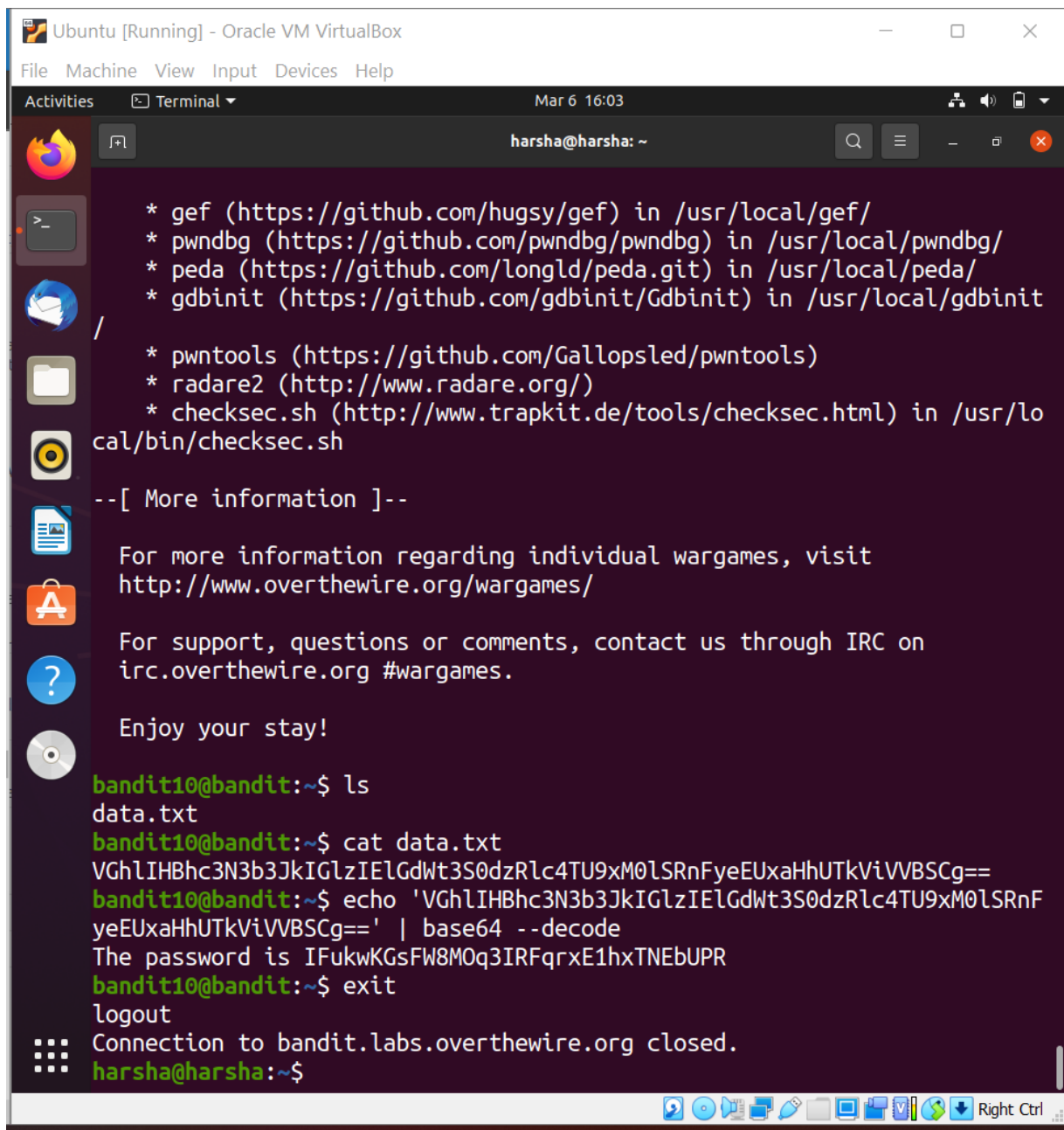
```
bandit8@bandit: ~  
w4zUWFGTUrAAh8lNkS8gH3WK2zowBEkA  
bandit8@bandit:~$ sort data.txt |uniq -c  
10 07KC3ukwX7kswL8Le9ebb3H3s0oNTsR2  
10 0efnqHY1ZTNRu4LsDX4D73DsXIqQ7RuJ  
10 0N65ZPpNGkUJePzFxtCRZRXVrCbUGfm  
10 0Xo6DLyK5izRqEtBA7sW2SRmLaiXwYSg  
10 10XltczY5Dz7UMoseKIeFWSzZwQrylfw  
10 1ET5sKgjfQj1cJeFzXLJWzKzZa3lWcJa  
10 1T6qw9I32d71cS3TTvwmVp1WsxPFDJ9I  
10 2bFz9F0yRwxGzVCZ4Er04bk00qfUrzwb  
10 2CxmTckpNL5ZjuoNzAtShkPXf5T43W7s  
10 337o85y4OymIh99WPUtotkb114evfAkC  
10 33xpPQhjt4Q2mqtX4sCVRwH2Zyh82E8R  
10 4SMqyZZZtep75cte6xxKpVL49pKUKv8N  
10 5AdqWjoJ0Edx5tJmZV8Mo0K2e4ard3ZW  
10 5c08XuoQWrrzsy0WDht8zgUIVWSRDaec  
10 6PF22p608TphCTZot9ApZ8VfGuo8rd5  
10 7KaMzgnYMUeMISP9vuT3Dvsc06qfqa9u  
10 7uhj3nhe4AS0esnEZHBAZN67fJ8BFjM  
10 8jtZmvqp9PTi8tp1oybBM663NQH3fhII  
10 8NTHZnWzCABHswoJ5CU70jg8nP3eKpsA  
10 aR2QhaBoDMncvJqPwkvLXMzEx9meBtXb  
10 BccauS9LeF8NUz4HVLXUwE8M1LWiSPLG  
10 bRnktwNdxFy2RPZIsHxJlkswwEzJGvJ9  
10 cIPbot7oYveUPNXDMhv1htrI50CqpkTG  
10 cR6riSWC0ST7ALZZi1e47r3gc0QxShGo  
10 CUqLkjIo0Jz9fNgrjPxIPa7PGGC1wpTQ  
10 dGnFD2LoqTl01MBf2vnmq1KKEWShfMKJ  
10 dqd5wTV01cVPJoEY7GGkCdGxG6ZYqW98  
10 dqnvNnXL4QR3ALq95ckhZwEpL77cRgF4  
10 DqPqVp8YcJZ1vFscLwRTg13EuSc2D52X  
10 dV0aGghk6mB4ZJX1aTTLuAUIvLWToTYr
```

```
bandit8@bandit: ~  
10 PSdVQSeUUBPRZD58WWP00XLKxSgU3Rxx  
10 ptb5ZW8TcgD3U6g0GCcn31xCDGIoQSEa  
10 qalWMA00quC3yHnfJI4zvPWzCBdfHQ8wa  
10 RmiSPoAvF7WhgIc0dSQR2r6Zx0DNS5UW  
10 s1603Q2r4RPKqyoA8cspIRk0VdgEmFC3  
10 SA05uWMVCao2rzS8YRqUXh19SvnDpu0L  
10 SHMAMUEzQe4mV7S3JpETTFZsyNRJszE2k  
10 si952ks1y6pt4AFenmm0oIp8n7W5d3bd  
10 sYSokIATVvFUKU4sAHTtMarfjLZWwj5l  
10 SzwgS2ADSjP6yp0zp2bIvdqNyusRtrHj  
10 TKUtQbeYnEzzYIne7BinoBx2bHFLBXzG  
10 TThRardF2ZEXM047TIYkyPPLtvzzLcDf  
10 tVW9iY1M0uHPK4usZnN8oZXbjRt2ATY  
10 U0NYdD3wHZKpfEg9qGQOLJmAJy6qxHS  
10 UASW6CQwD6MRzftu6FAfyXBK0cVvnBLP  
10 UJiCNvDNfGb3fCj8PjjnAXHqUM63Uyj  
10 UjsVbcqKeJqdCZQCDmkzv6A9X7hLbNE4  
1 UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhr  
10 UVnZvhiVQECraz5jl8U14sMVZQhjuXia  
10 V2d9umHtuPLYLIDsuHj0FrOEmreCZMaA  
10 v9zaxkVA0dI0LITZY2uoCtB1fX2gmly9  
10 VkBAEWyIibVkeURZV5mowiGg6i3m7Be0  
10 w4zUWFGTUrAAh8lNkS8gH3WK2zowBEkA  
10 WBqr9xvf6mYTT5kLcTCCG6jb3ex94xWr  
10 wJNwumEX58RUQTufHMcLwz5Yx10GtTC  
10 X1JHOUkrb4KgugMXIzMMWIWvRkeZLeTI  
10 XyeJdbrUJyGtdGx8cXLQST0pWu5cvpcA  
10 yo0HbSe2GM0jJNhRQLxwoPp7ayYEmRKY  
10 ySvsTwLMgnUF0n86Fgmn2Tnjks0LrV72  
10 Z90C6DQpppreChPhwRJjV9YYTtrxNVc0  
10 zdd2ctVveROGeiS2WE3TeLZMeL5jL7iM  
bandit8@bandit:~$
```

Level 9-10

```
Ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 6 15:55
bandit9@bandit: ~
bandit9@bandit: ~$ cat data.txt
bandit9@bandit: ~$ strings data.txt | grep "="
===== the*2i"4
=:G e
===== password
<I=zsGi
Z)===== is
A=|t&E
Zdb=
c^ LAh=3G
*SF=s
&===== truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk
S=A.H&^
bandit9@bandit:~$
```

Level 10-11



```
Ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 6 16:03
harsha@harsha: ~

* 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 ]--

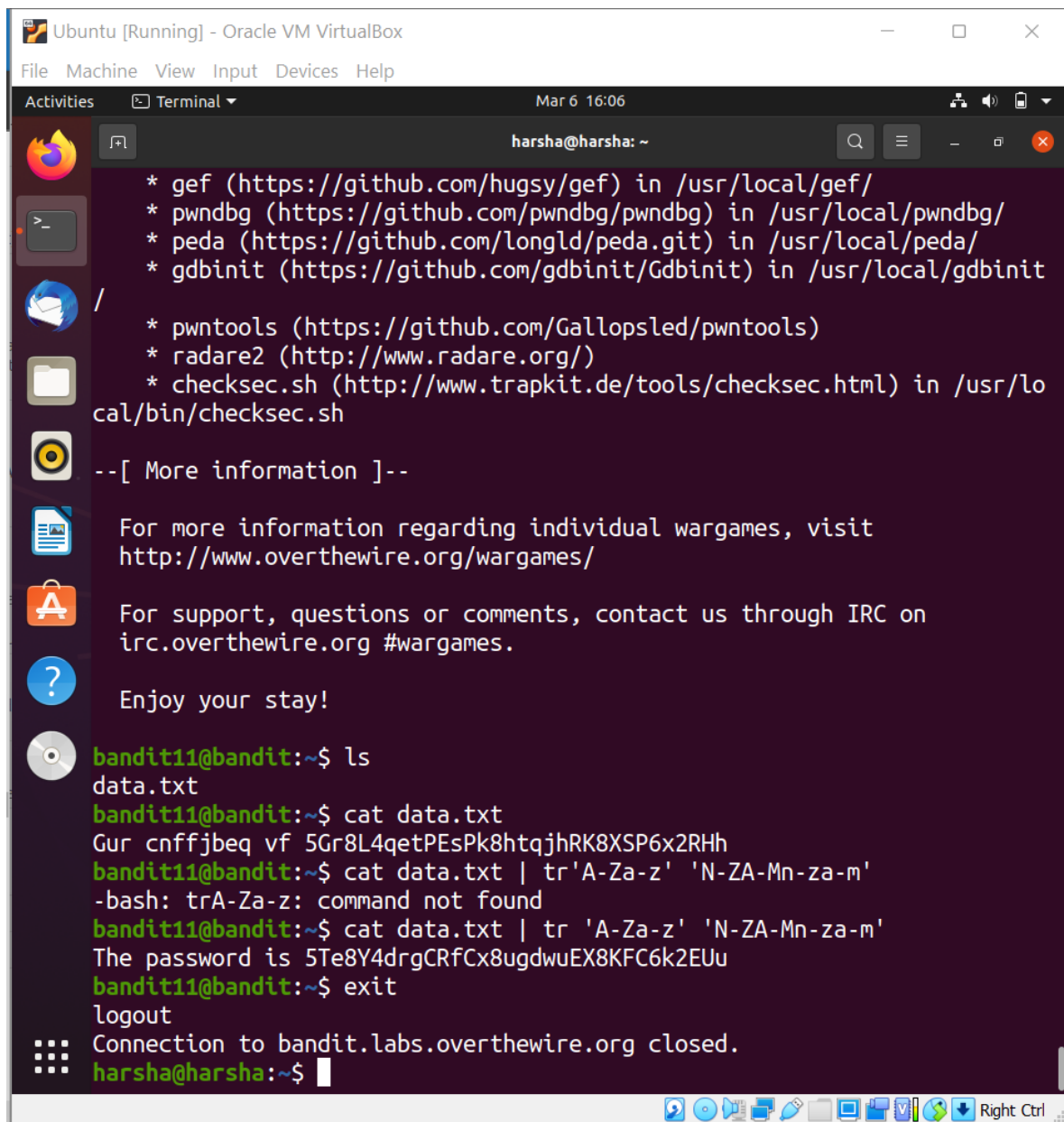
For more information regarding individual wargames, visit
http://www.overthewire.org/wargames/

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

Enjoy your stay!

bandit10@bandit:~$ ls
data.txt
bandit10@bandit:~$ cat data.txt
VGhlIHBhc3N3b3JkIGlzIElGdWt3S0dzRlc4TU9xM0lSRnFyeEUxaHhUTkViVVBSCg==
bandit10@bandit:~$ echo 'VGhlIHBhc3N3b3JkIGlzIElGdWt3S0dzRlc4TU9xM0lSRnFyeEUxaHhUTkViVVBSCg==' | base64 --decode
The password is IFukwKGsFW8M0q3IRFqrxE1hXTNEbUPR
bandit10@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
harsha@harsha:~$
```

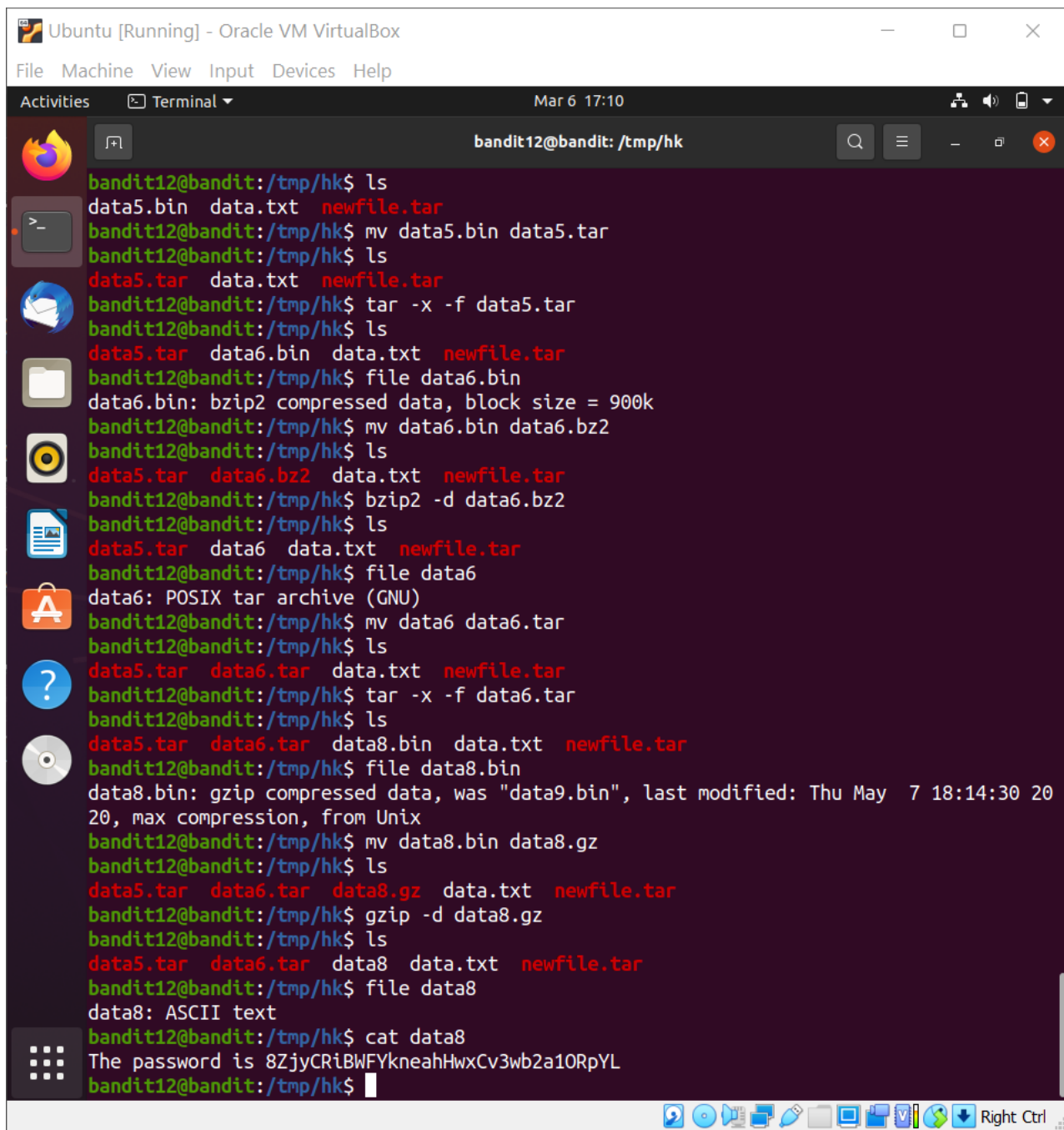
Level 11-12



The screenshot shows a terminal window titled "Ubuntu [Running] - Oracle VM VirtualBox". The terminal output is as follows:

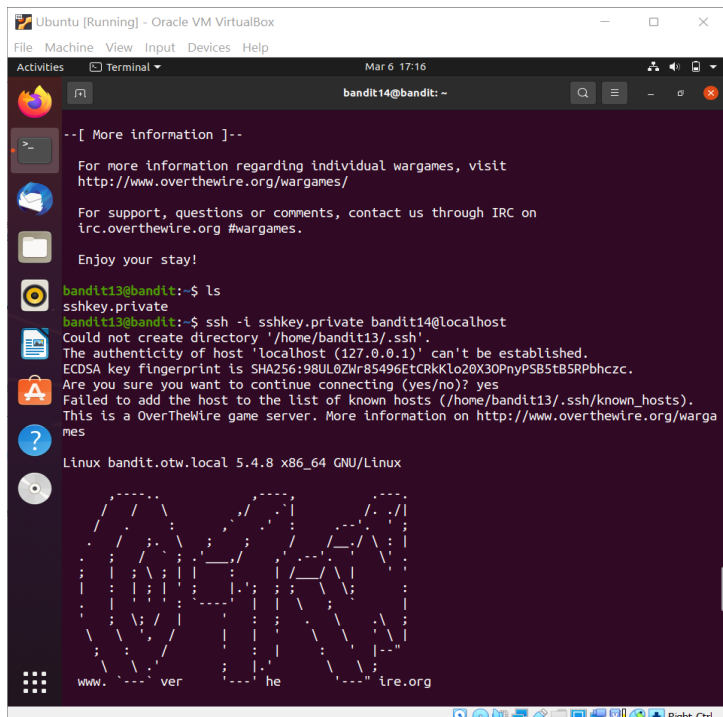
```
harsha@harsha: ~  
* gef (https://github.com/hugsy/gef) in /usr/local/gef/  
* pwndbg (https://github.com/pwndbg/pwndbg) in /usr/local/pwndbg/  
* peda (https://github.com/longld/peda.git) in /usr/local/peda/  
* gdbinit (https://github.com/gdbinit/Gdbinit) in /usr/local/gdbinit/  
/  
* pwntools (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  
data.txt  
bandit11@bandit:~$ cat data.txt  
Gur cnffjbeq vf 5Gr8L4getPEsPk8htqjhRK8XSP6x2RHh  
bandit11@bandit:~$ cat data.txt | tr 'A-Za-z' 'N-ZA-Mn-za-m'  
-bash: trA-Za-z: command not found  
bandit11@bandit:~$ cat data.txt | tr 'A-Za-z' 'N-ZA-Mn-za-m'  
The password is 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu  
bandit11@bandit:~$ exit  
logout  
Connection to bandit.labs.overthewire.org closed.  
harsha@harsha:~$
```

Level 12-13



```
bandit12@bandit: /tmp/hk$ ls
data5.bin data.txt newfile.tar
bandit12@bandit: /tmp/hk$ mv data5.bin data5.tar
bandit12@bandit: /tmp/hk$ ls
data5.tar data.txt newfile.tar
bandit12@bandit: /tmp/hk$ tar -x -f data5.tar
bandit12@bandit: /tmp/hk$ ls
data5.tar data6.bin data.txt newfile.tar
bandit12@bandit: /tmp/hk$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
bandit12@bandit: /tmp/hk$ mv data6.bin data6.bz2
bandit12@bandit: /tmp/hk$ ls
data5.tar data6.bz2 data.txt newfile.tar
bandit12@bandit: /tmp/hk$ bzip2 -d data6.bz2
bandit12@bandit: /tmp/hk$ ls
data5.tar data6 data.txt newfile.tar
bandit12@bandit: /tmp/hk$ file data6
data6: POSIX tar archive (GNU)
bandit12@bandit: /tmp/hk$ mv data6 data6.tar
bandit12@bandit: /tmp/hk$ ls
data5.tar data6.tar data.txt newfile.tar
bandit12@bandit: /tmp/hk$ tar -x -f data6.tar
bandit12@bandit: /tmp/hk$ ls
data5.tar data6.tar data8.bin data.txt newfile.tar
bandit12@bandit: /tmp/hk$ file data8.bin
data8.bin: gzip compressed data, was "data9.bin", last modified: Thu May  7 18:14:30 20
20, max compression, from Unix
bandit12@bandit: /tmp/hk$ mv data8.bin data8.gz
bandit12@bandit: /tmp/hk$ ls
data5.tar data6.tar data8.gz data.txt newfile.tar
bandit12@bandit: /tmp/hk$ gzip -d data8.gz
bandit12@bandit: /tmp/hk$ ls
data5.tar data6.tar data8 data.txt newfile.tar
bandit12@bandit: /tmp/hk$ file data8
data8: ASCII text
bandit12@bandit: /tmp/hk$ cat data8
The password is 8ZjyCRiBWfYkneahHwxCv3wb2a10RpYL
bandit12@bandit: /tmp/hk$
```


Level 13-14



```
Ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 6 17:16
bandit14@bandit: ~

--[ More information ]--
For more information regarding individual wargames, visit
http://www.overthewire.org/wargames/

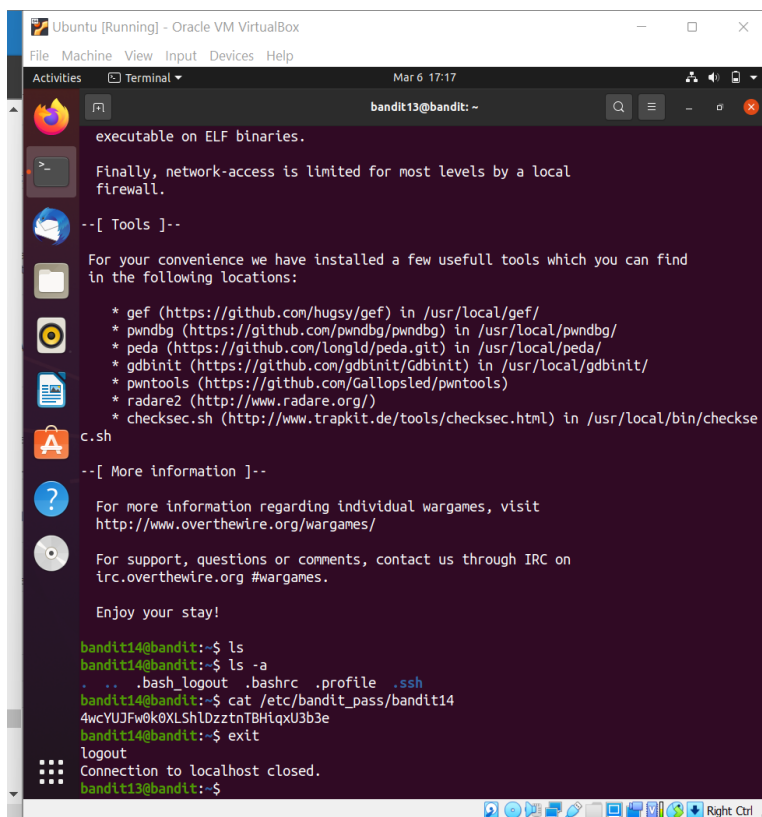
For support, questions or comments, contact us through IRC on
irc.overthewire.org #wargames.

Enjoy your stay!

bandit13@bandit:~$ ls
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 SHA256:98UL0Zhr85496EtcRkKlo20X3OPnyPSB5tB5RPbhczc.
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

00404
www. ver he ire.org
```



```
Ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Mar 6 17:17
bandit13@bandit: ~

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
c.sh

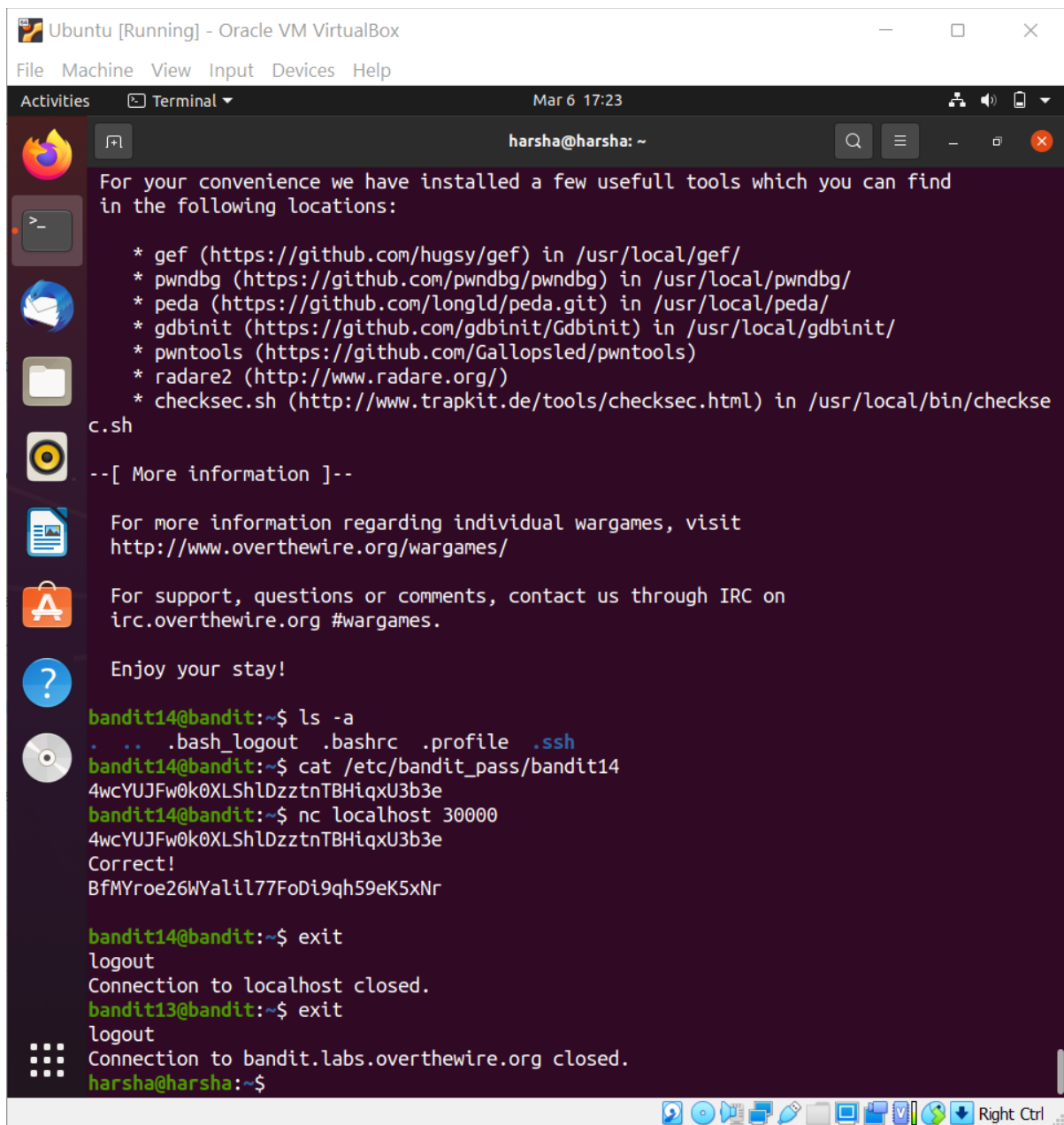
--[ More information ]--
For more information regarding individual wargames, visit
http://www.overthewire.org/wargames/

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

Enjoy your stay!

bandit14@bandit:~$ ls
bandit14@bandit:~$ ls -a
. . . .bash_logout .bashrc .profile .ssh
bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4wcYUJFw0k0XLShLDzztnTBHiqxU3b3e
bandit14@bandit:~$ exit
logout
Connection to localhost closed.
bandit13@bandit:~$
```

Level 14-15



The screenshot shows a terminal window titled "Ubuntu [Running] - Oracle VM VirtualBox". The terminal output is as follows:

```
harsha@harsha: ~  
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/checkse  
c.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!  
  
bandit14@bandit:~$ ls -a  
.. .bash_logout .bashrc .profile .ssh  
bandit14@bandit:~$ cat /etc/bandit_pass/bandit14  
4wcYUJFw0k0XLShLDzztnTBHixqU3b3e  
bandit14@bandit:~$ nc localhost 30000  
4wcYUJFw0k0XLShLDzztnTBHixqU3b3e  
Correct!  
BfMYroe26WYalil77FoDi9qh59eK5xNr  
  
bandit14@bandit:~$ exit  
logout  
Connection to localhost closed.  
bandit13@bandit:~$ exit  
logout  
Connection to bandit.labs.overthewire.org closed.  
harsha@harsha:~$
```