

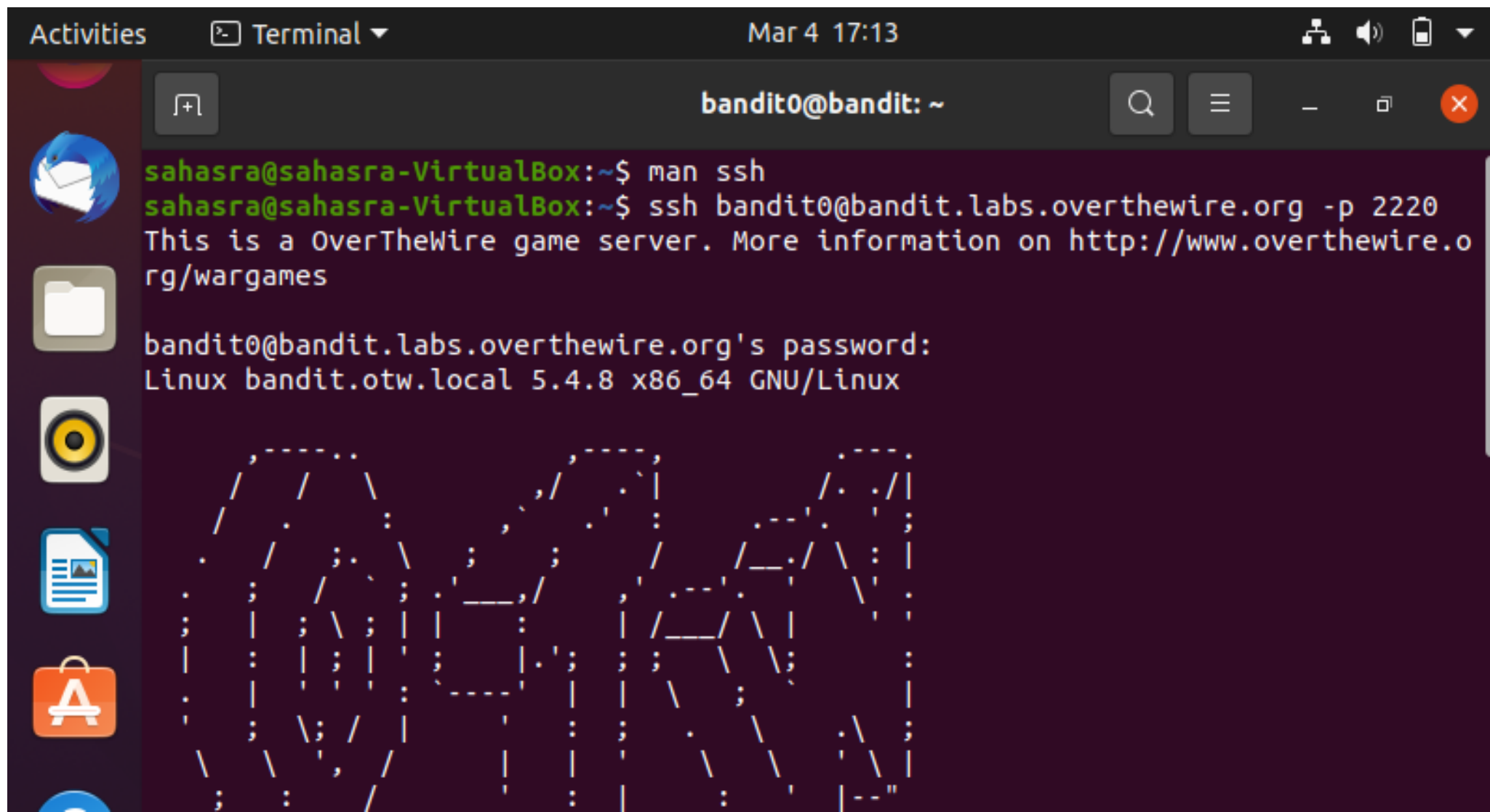
TASK-7

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LEVEL-0:

Command used: `ssh username@link -p port`. Entered password 'bandit0' and logged into bandit0

Password : bandit0



The screenshot shows a Linux desktop environment with a terminal window open. The terminal title bar reads "bandit0@bandit: ~". The terminal content shows the user "sahasra@sahasra-VirtualBox" running the command `man ssh`, then `ssh bandit0@bandit.labs.overthewire.org -p 2220`. The terminal output includes a message about the OverTheWire game server and the password prompt. The password "bandit0" is entered, and the terminal displays the system information: "Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux". At the bottom, a large ASCII art logo for "OverTheWire" is visible.

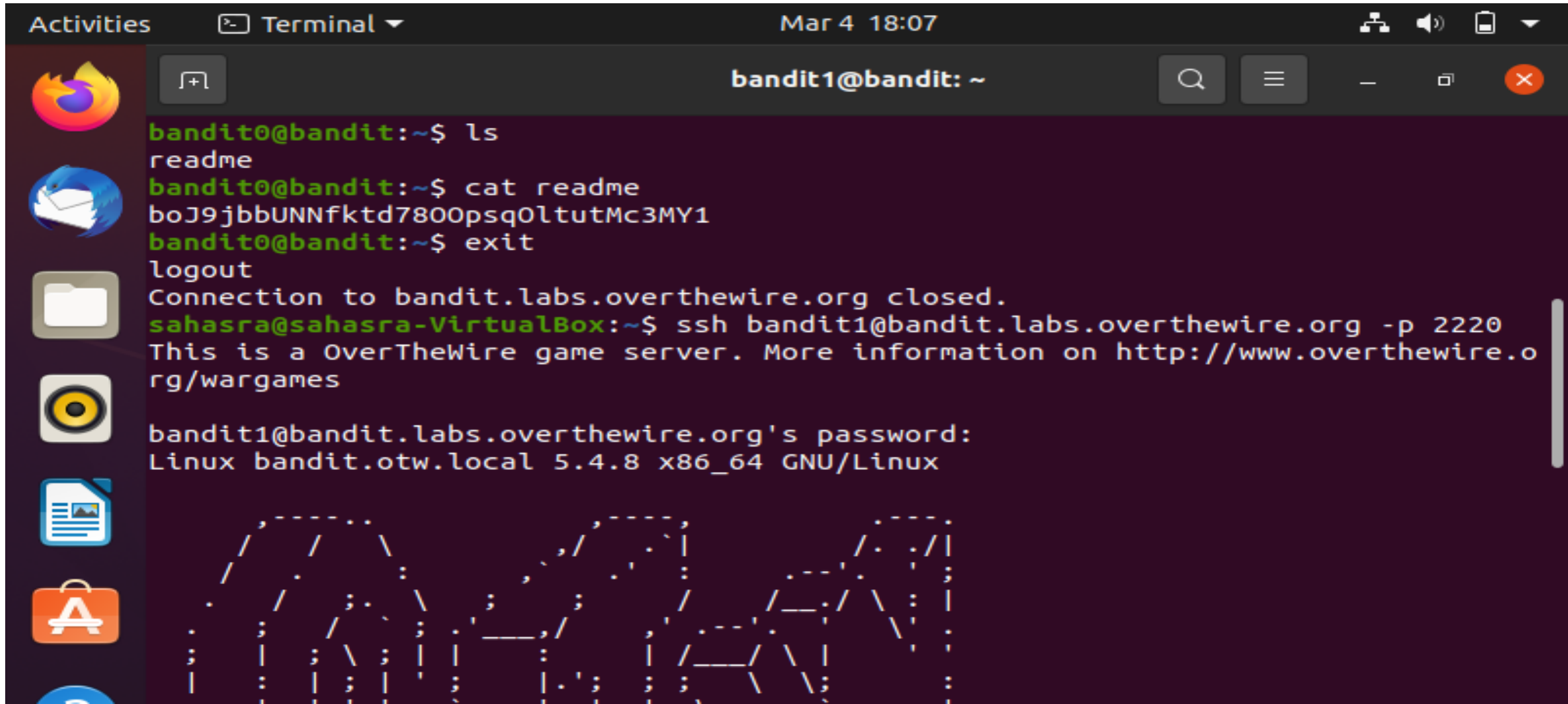
```
bandit0@bandit: ~
sahasra@sahasra-VirtualBox:~$ man ssh
sahasra@sahasra-VirtualBox:~$ ssh bandit0@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames

bandit0@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux

OverTheWire
```

LEVEL 0 - 1: Searched for the password using ls and opened the file using cat command. Then using this password logged to bandit1

Password: boJ9jbbUNNfktd7800psqOltutMc3MY1



The screenshot shows a Linux desktop environment with a terminal window open. The terminal title bar indicates the user is 'bandit1@bandit: ~'. The terminal output shows the following sequence of commands and responses:

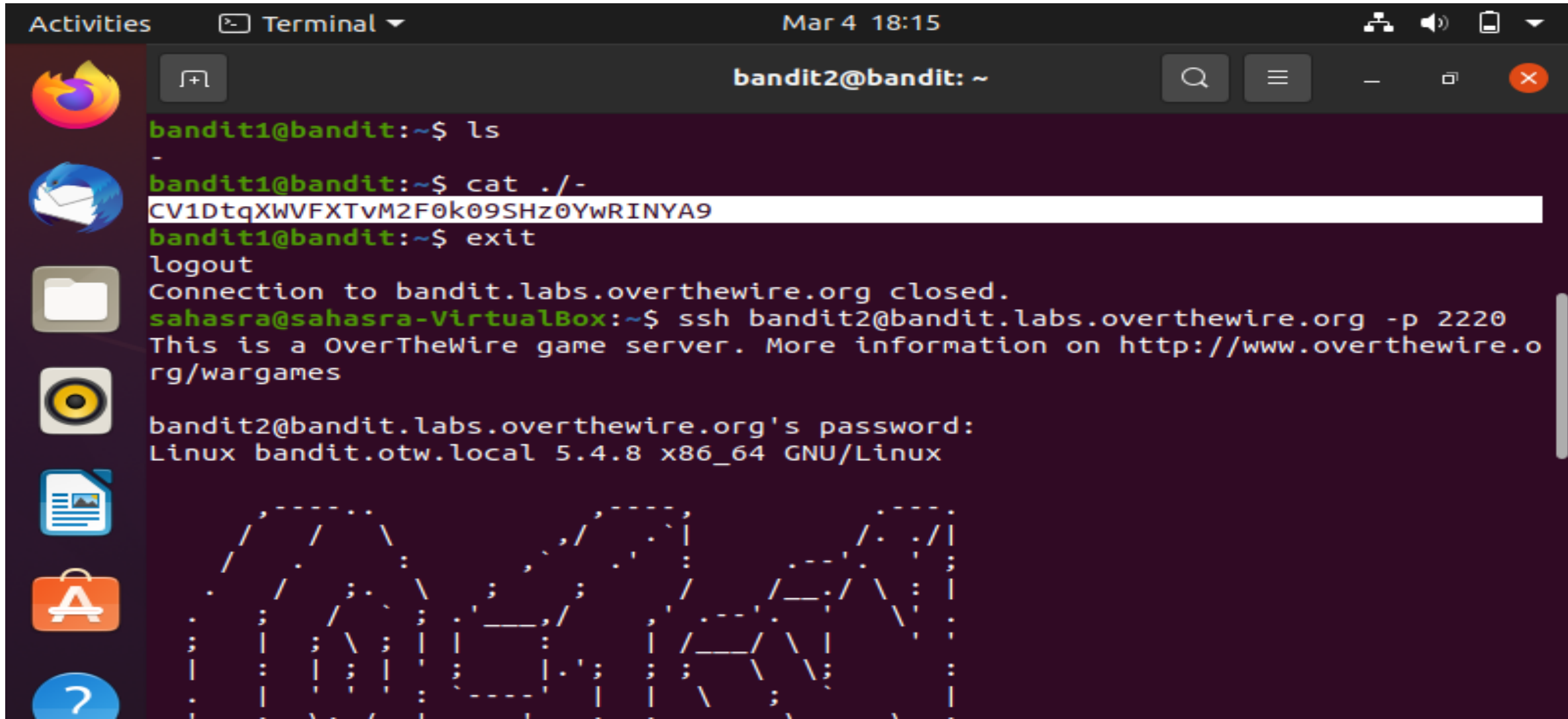
```
bandit0@bandit:~$ ls
readme
bandit0@bandit:~$ cat readme
boJ9jbbUNNfktd7800psqOltutMc3MY1
bandit0@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
sahasra@sahasra-VirtualBox:~$ ssh bandit1@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames

bandit1@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```

At the bottom of the terminal window, there is a large ASCII art graphic of a cat.

LEVEL 1 - 2 : Searched for the password using ls and found – file and opened using the command cat ./- . Then using this password logged to bandit2

Password: CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9



The screenshot shows a terminal window titled "bandit2@bandit: ~" with a search bar and window controls. The terminal output is as follows:

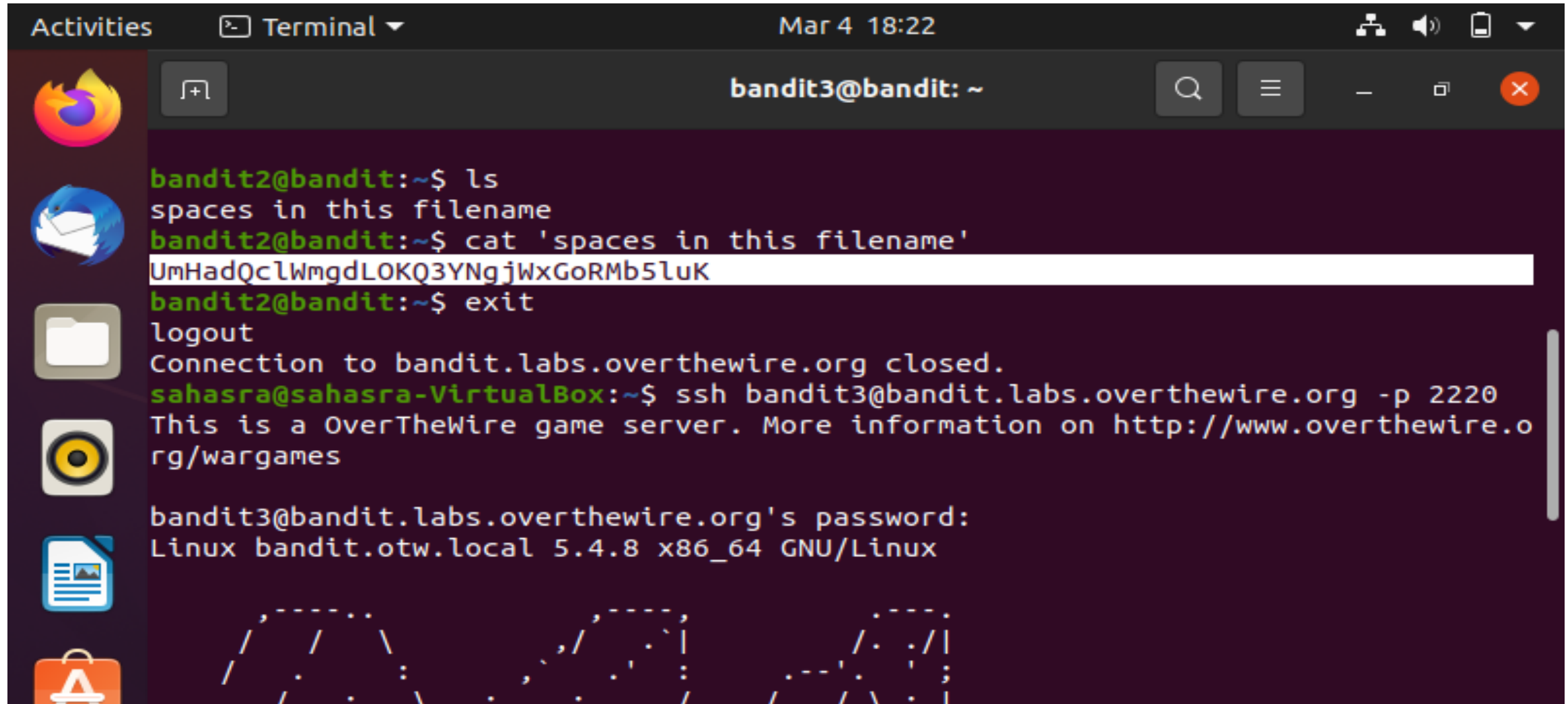
```
bandit1@bandit:~$ ls
-
bandit1@bandit:~$ cat ./-
CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9
bandit1@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
sahasra@sahasra-VirtualBox:~$ ssh bandit2@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames

bandit2@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```

At the bottom of the terminal, there is a large ASCII art graphic of a castle.

LEVEL 2 – 3: Searched for the password using ls and opened the file using cat 'filename' command. Using this password logged into bandit3

Password: UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK



The image shows a terminal window titled "bandit3@bandit: ~" with a dark purple background. The window is part of a desktop environment with a sidebar on the left containing icons for Firefox, a mail client, a file manager, a music player, a document viewer, and a terminal. The terminal output shows the following sequence of commands and responses:

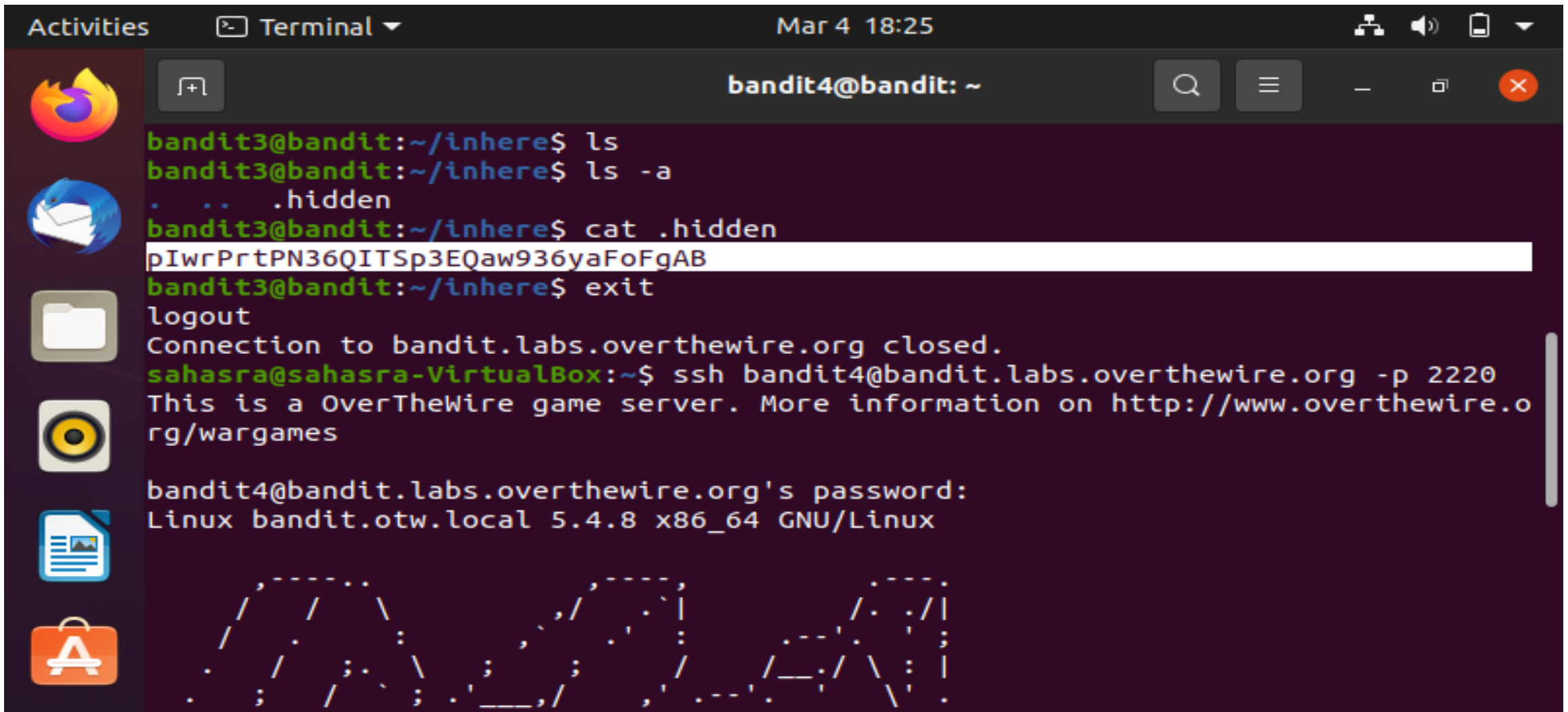
```
bandit2@bandit:~$ ls
spaces in this filename
bandit2@bandit:~$ cat 'spaces in this filename'
UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK
bandit2@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
sahasra@sahasra-VirtualBox:~$ ssh bandit3@bandit.labs.overthewire.org -p 2220
This is a OverTheWire 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
```

At the bottom of the terminal, there is a decorative ASCII art graphic of a cat.

LEVEL 3 – 4: Found a hidden file using `ls -a` and found password using `cat` command. Logged into bandit4 using this password

Password: plwrPrtPN36QITSp3EQaw936yaFoFgAB



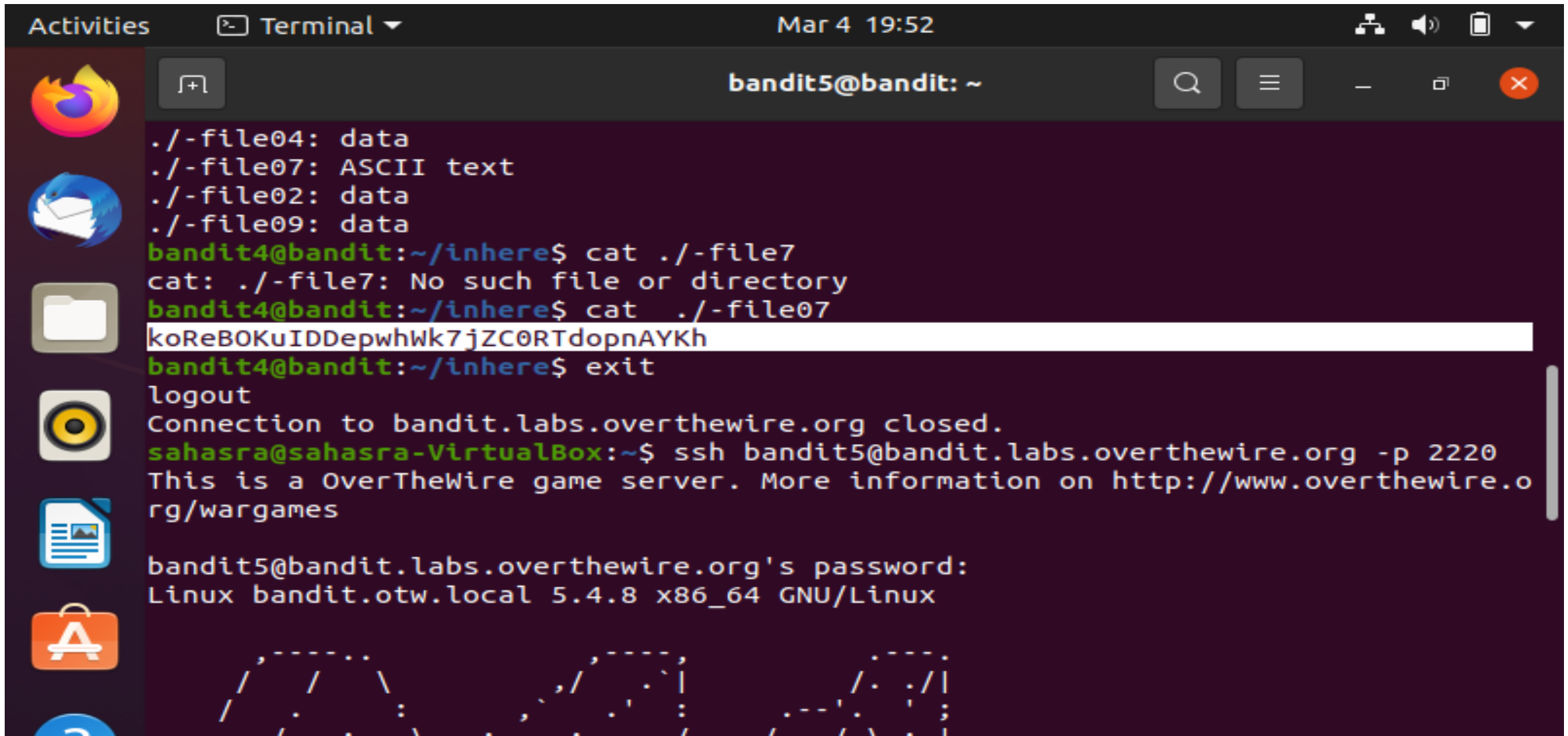
The screenshot shows a terminal window titled "Terminal" with a timestamp of "Mar 4 18:25". The window has a dark theme and a sidebar on the left with icons for Firefox, Thunderbird, Files, and the App Store. The terminal content shows the user `bandit3` in the `bandit` environment, located in the `~/inhere` directory. They run `ls` and then `ls -a`, which reveals a hidden file named `.hidden`. They then run `cat .hidden`, displaying the password `pIwrPrtPN36QITSp3EQaw936yaFoFgAB`. After typing `exit`, they receive a "logout" message and a "Connection to bandit.labs.overthewire.org closed." notification. Finally, they run `ssh bandit4@bandit.labs.overthewire.org -p 2220`, which connects them to the `bandit4` environment. The terminal displays the system information: `bandit4@bandit.labs.overthewire.org's password:`, `Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux`, and a large ASCII art graphic of the word "OVER" at the bottom.

```
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.
sahasra@sahasra-VirtualBox:~$ ssh bandit4@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.o
rg/wargames

bandit4@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```

LEVEL 4 – 5: Found 10 files in inhere directory. Found the file with text using the command 'Find . -type f | xargs file'. Used this password and logged into bandit5

Password: koReBOKuIDDepwhWk7jZC0RTdopnAYKh

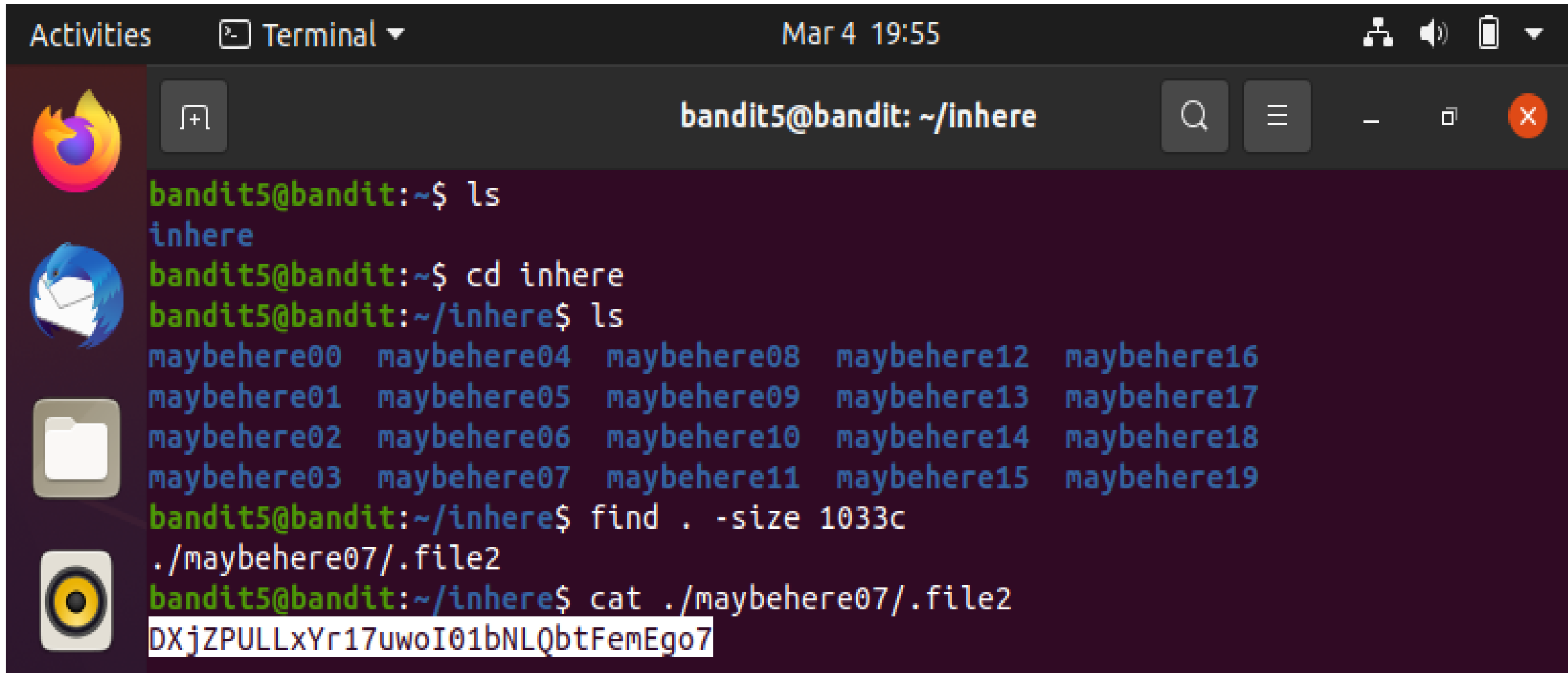


```
Activities Terminal Mar 4 19:52
bandit5@bandit: ~
./-file04: data
./-file07: ASCII text
./-file02: data
./-file09: data
bandit4@bandit:~/inhere$ cat ./-file7
cat: ./-file7: No such file or directory
bandit4@bandit:~/inhere$ cat ./-file07
koReBOKuIDDepwhWk7jZC0RTdopnAYKh
bandit4@bandit:~/inhere$ exit
logout
Connection to bandit.labs.overthewire.org closed.
sahasra@sahasra-VirtualBox:~$ ssh bandit5@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames

bandit5@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```


LEVEL 5 – 6: Found 20 files in inhere directory and found a 1033 bytes human readable file using the command 'find . -size 1033'. Using this password logged into bandit6

Password:DXjZPULLxYr17uwoI0bNLQbtFemEgo7



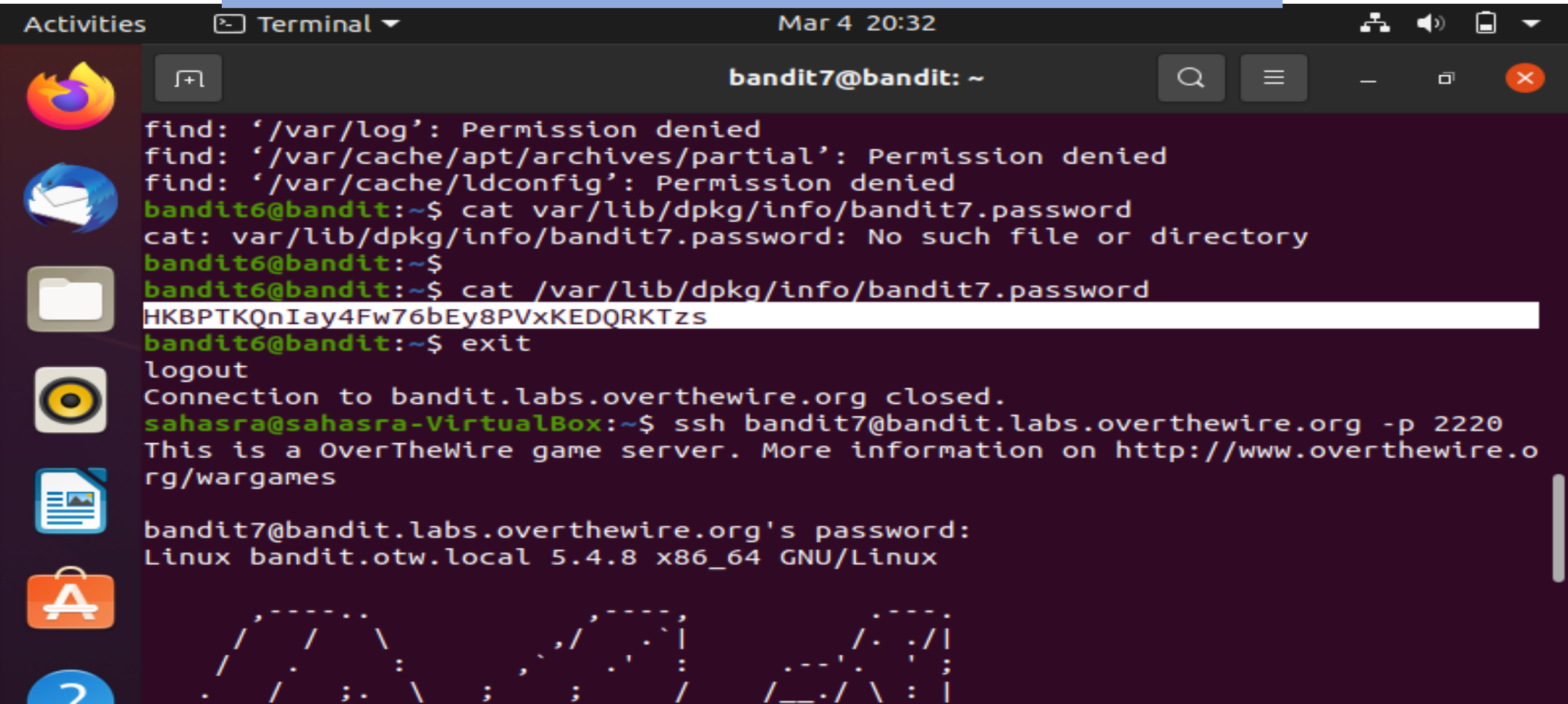
The image shows a terminal window titled 'bandit5@bandit: ~/inhere'. The terminal output is as follows:

```
bandit5@bandit:~$ ls
inhere
bandit5@bandit:~$ cd inhere
bandit5@bandit:~/inhere$ ls
maybehere00  maybehere04  maybehere08  maybehere12  maybehere16
maybehere01  maybehere05  maybehere09  maybehere13  maybehere17
maybehere02  maybehere06  maybehere10  maybehere14  maybehere18
maybehere03  maybehere07  maybehere11  maybehere15  maybehere19
bandit5@bandit:~/inhere$ find . -size 1033c
./maybehere07/.file2
bandit5@bandit:~/inhere$ cat ./maybehere07/.file2
DXjZPULLxYr17uwoI0bNLQbtFemEgo7
```

The password 'DXjZPULLxYr17uwoI0bNLQbtFemEgo7' is highlighted in the final output line.

LEVEL 6 – 7: found the file using 'find / -type f -user bandit7 -group6 -size 33c' and found password in var/lib/dpkg/info/bandit7.password

Password:HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs

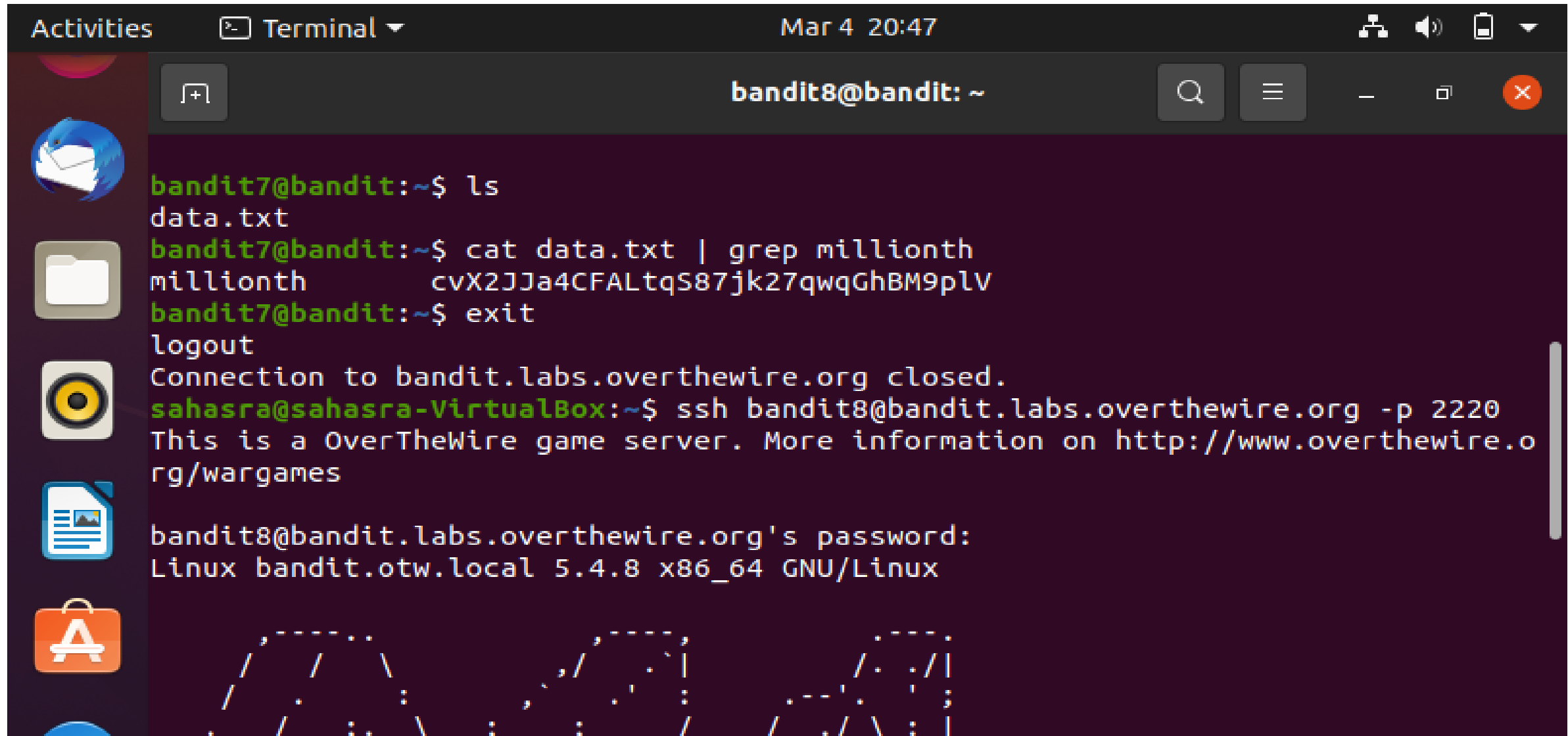


```
Activities Terminal Mar 4 20:32
bandit7@bandit: ~
find: '/var/log': Permission denied
find: '/var/cache/apt/archives/partial': Permission denied
find: '/var/cache/ldconfig': Permission denied
bandit6@bandit:~$ cat var/lib/dpkg/info/bandit7.password
cat: var/lib/dpkg/info/bandit7.password: No such file or directory
bandit6@bandit:~$
bandit6@bandit:~$ cat /var/lib/dpkg/info/bandit7.password
HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs
bandit6@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
sahasra@sahasra-VirtualBox:~$ ssh bandit7@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames

bandit7@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```

LEVEL 7 – 8: Used grep command to find the word 'millionth' and found the password.

Password:cvX2JJJa4CFALtqS87jk27qwqGhBM9plV



```
Activities Terminal Mar 4 20:47
bandit8@bandit: ~
bandit7@bandit:~$ ls
data.txt
bandit7@bandit:~$ cat data.txt | grep millionth
millionth      cvX2JJJa4CFALtqS87jk27qwqGhBM9plV
bandit7@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
sahasra@sahasra-VirtualBox:~$ ssh bandit8@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames

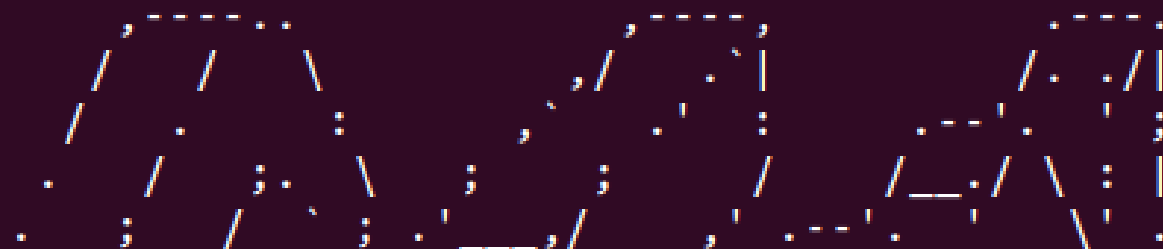
bandit8@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```

LEVEL 8 – 9: Used sort and uniq command to sort the text and give output of unique lines and found the password.

Password:UsvVyFSfZZWbi6wgC7dAFyFur6jQQUhR

```
bandit8@bandit:~$ ls
data.txt
bandit8@bandit:~$ man uniq
bandit8@bandit:~$ cat data.txt | sort | uniq -u
UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhR
bandit8@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
sahasra@sahasra-VirtualBox:~$ ssh bandit9@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.o
rg/wargames

bandit9@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```



LEVEL 9 – 10: Used the command 'strings data.txt | grep =' to read human readable strings and used grep to search = and found the password

Password:truKLdjsbJ5g7yyJ2X2R0o3a5HQJFULk

```

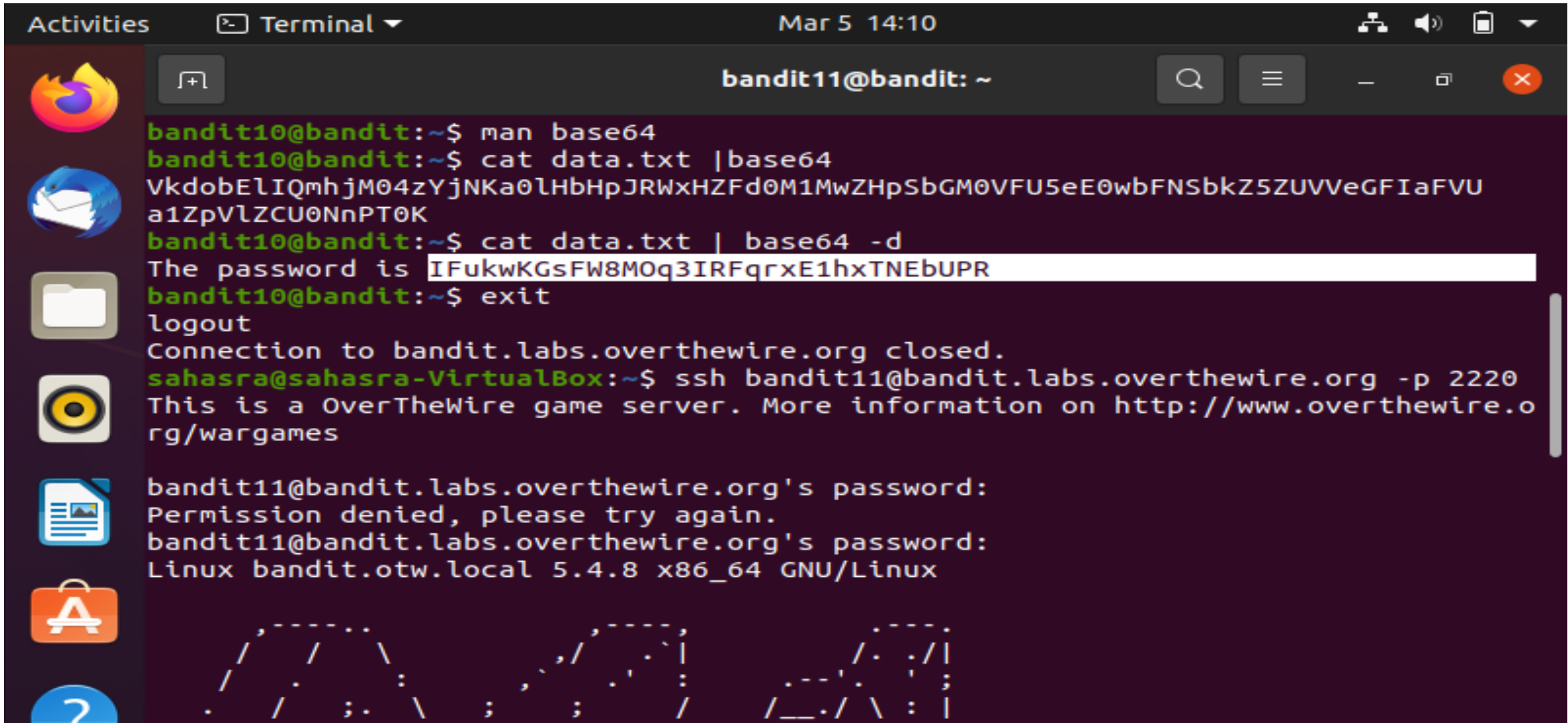
bandit9@bandit:~$ cat data.txt |grep =
Binary file (standard input) matches
bandit9@bandit:~$ strings data.txt | grep =
===== the*2i"4
=:G e
===== password
<I=zsGi
Z)===== is
A=|t&E
Zdb=
c^ LAh=3G
*SF=s
&===== truKLDjsbJ5g7yyJ2X2R0o3a5HQJFuLk
S=A.H&^
bandit9@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
sahasra@sahasra-VirtualBox:~$ ssh bandit10@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.o
rg/wargames

bandit10@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux

```

LEVEL 10 – 11: decoded the file data.txt using the command 'cat data.txt | base64 -d' and found the password

Password: IFUKwKGsFW8MOq3IRFqrxE1hxTNEbuPR

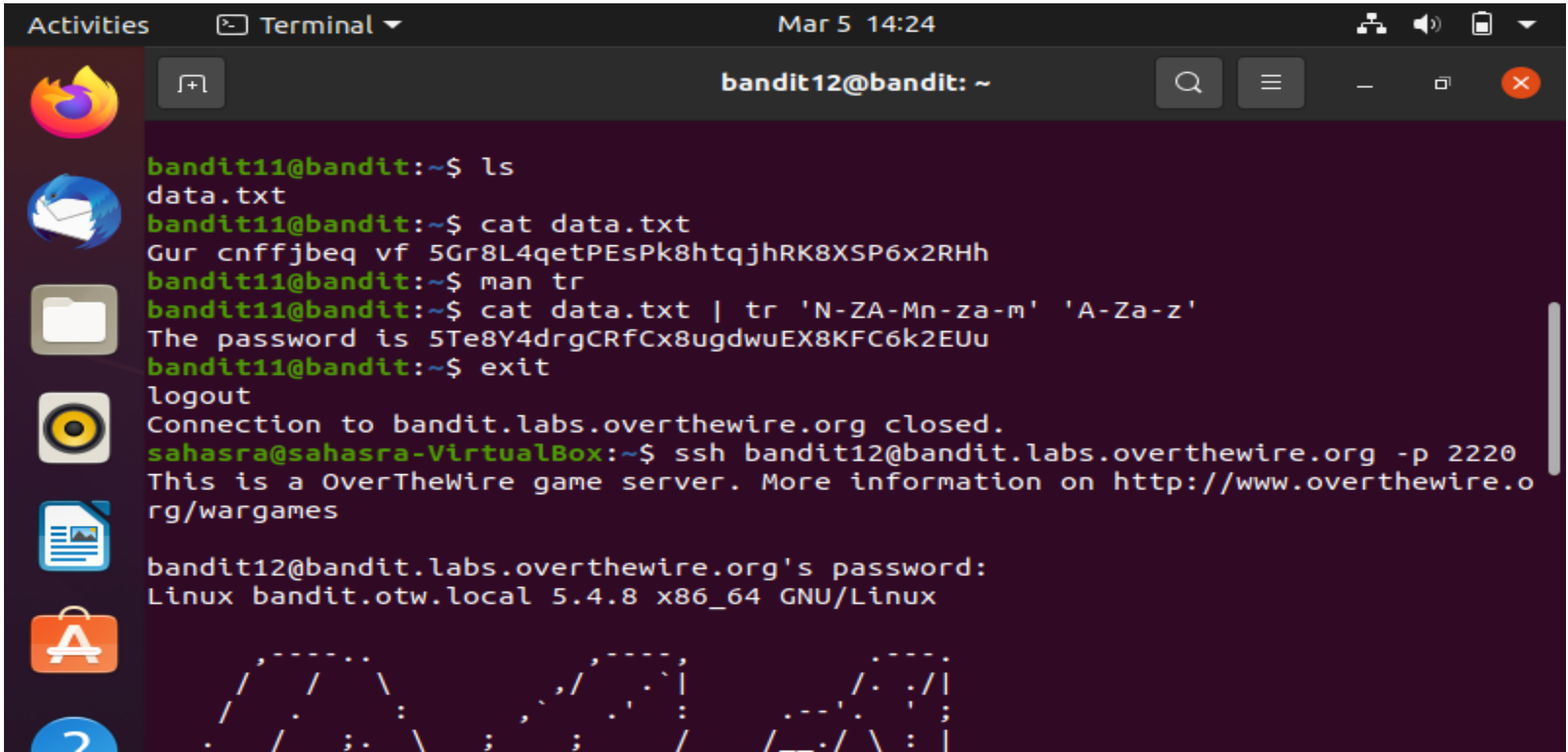


```
Activities Terminal Mar 5 14:10
bandit11@bandit: ~
bandit10@bandit:~$ man base64
bandit10@bandit:~$ cat data.txt |base64
VkdobELIQmhjM04zYjNKa0lHbHpJRWxHZFd0M1MwZHpSbGM0VFU5eE0wbFNSbkZ5ZUVVeGFiaFVU
a1ZpVLZCU0NnPT0K
bandit10@bandit:~$ cat data.txt | base64 -d
The password is IFUKwKGsFW8MOq3IRFqrxE1hxTNEbuPR
bandit10@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
sahasra@sahasra-VirtualBox:~$ ssh bandit11@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.o
rg/wargames

bandit11@bandit.labs.overthewire.org's password:
Permission denied, please try again.
bandit11@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```

LEVEL 11 – 12: translated the text by moving letters by 13 positions(N-Z A-M n-z a-m) and found the password using the command 'cat data.txt |tr 'N-ZA-Mn-za-m' 'A-Za-z'

Password:5TE8Y4drgCRfCx8ugdWuEX8KFC6k2EUu



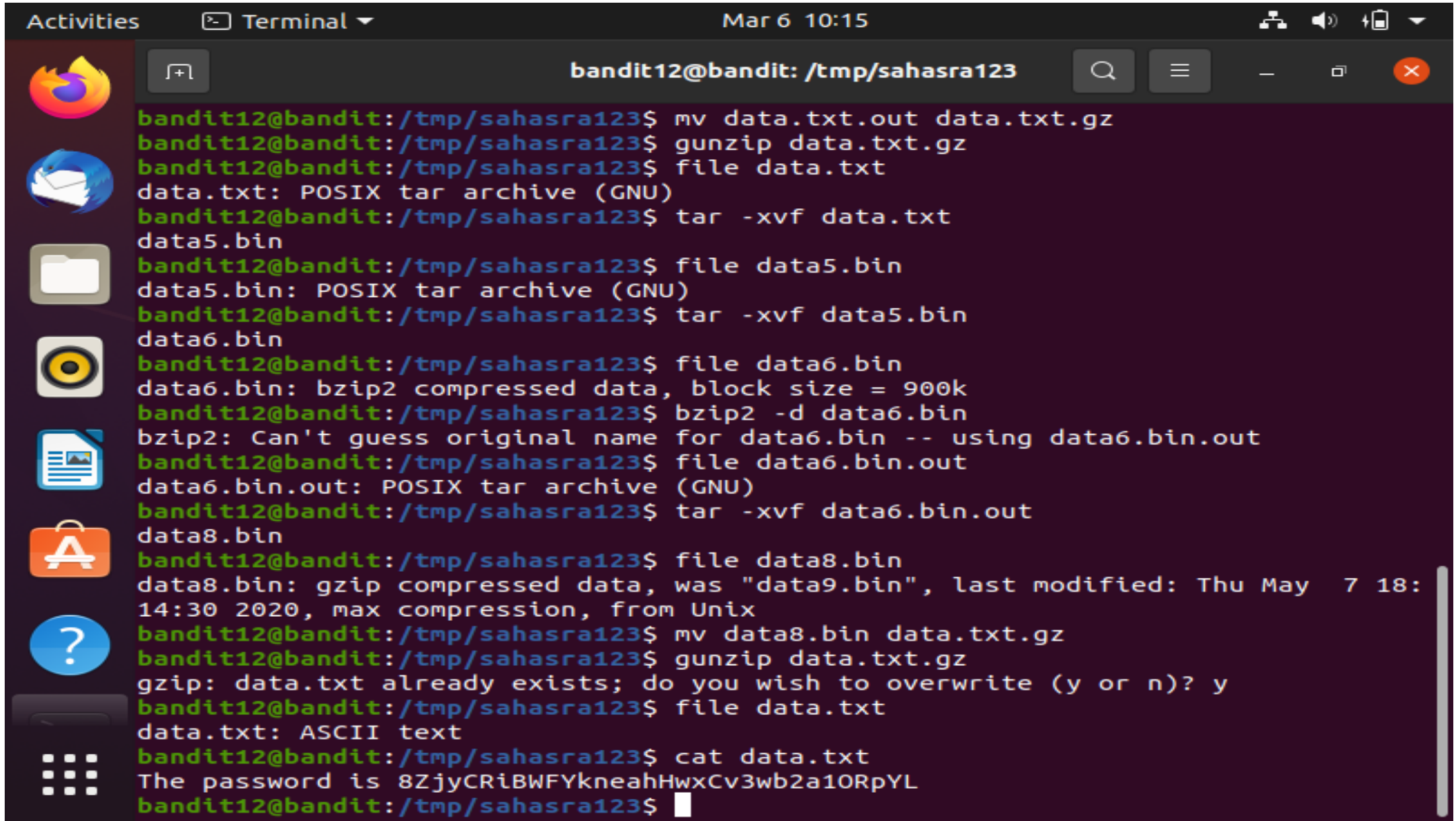
The screenshot shows a terminal window titled "Terminal" with the date and time "Mar 5 14:24". The terminal is running on a system with the username "bandit12@bandit:". The terminal output shows the following commands and results:

```
bandit11@bandit:~$ ls
data.txt
bandit11@bandit:~$ cat data.txt
Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHh
bandit11@bandit:~$ man tr
bandit11@bandit:~$ cat data.txt | tr 'N-ZA-Mn-za-m' 'A-Za-z'
The password is 5Te8Y4drgCRfCx8ugdWuEX8KFC6k2EUu
bandit11@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
sahasra@sahasra-VirtualBox:~$ ssh bandit12@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames

bandit12@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```

The terminal window also shows a sidebar with various application icons (Firefox, Mail, Files, Music, Documents, Applications) and a top bar with system icons (network, volume, battery, window management).

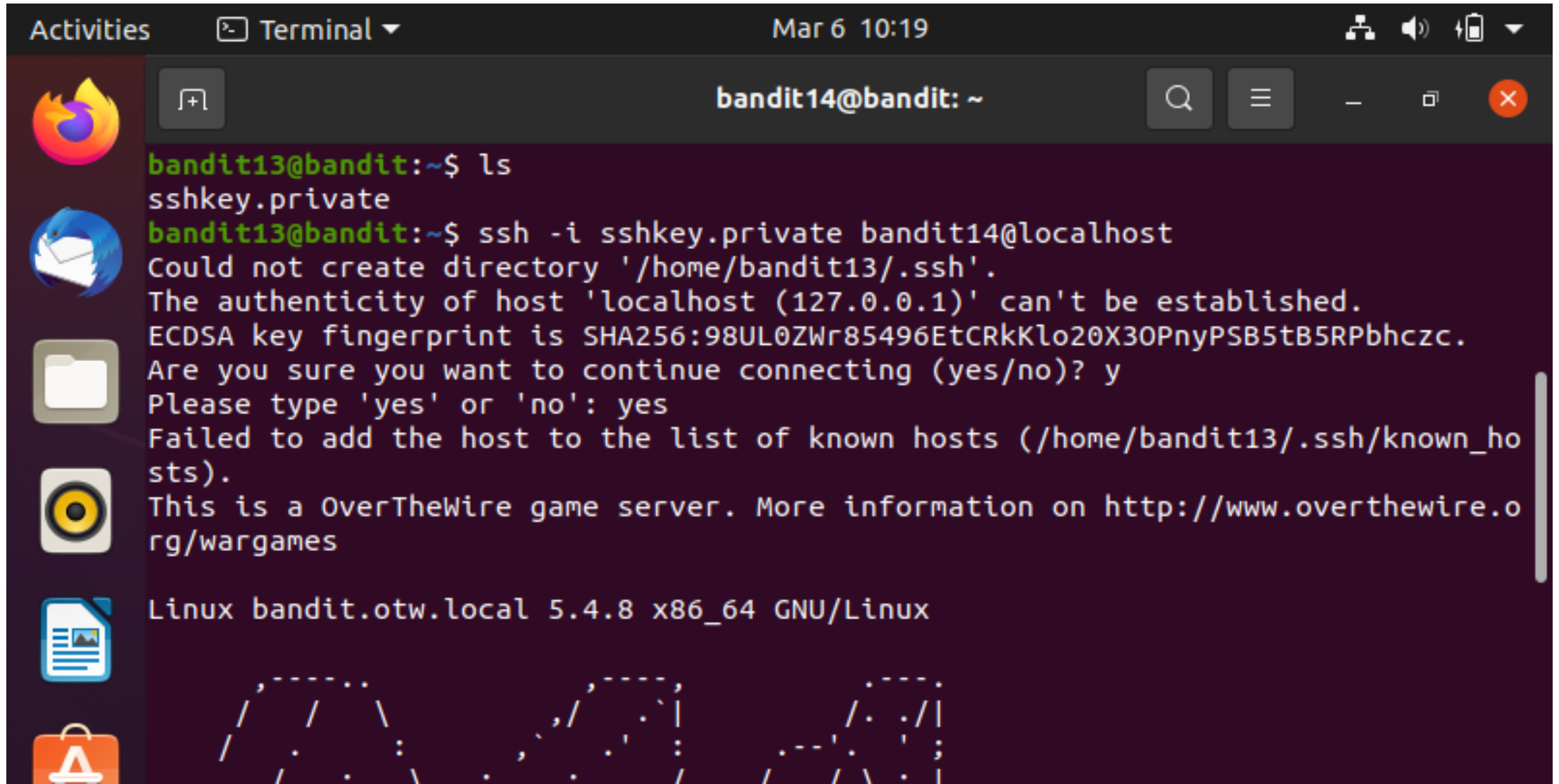
LEVEL 12 – 13: this file is compresses .Used 'file' command and identified the file type and proceeded with the suitable command.



A terminal window titled "bandit12@bandit: /tmp/sahasra123" showing the following commands and output:

```
bandit12@bandit:/tmp/sahasra123$ mv data.txt.out data.txt.gz
bandit12@bandit:/tmp/sahasra123$ gunzip data.txt.gz
bandit12@bandit:/tmp/sahasra123$ file data.txt
data.txt: POSIX tar archive (GNU)
bandit12@bandit:/tmp/sahasra123$ tar -xvf data.txt
data5.bin
bandit12@bandit:/tmp/sahasra123$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/sahasra123$ tar -xvf data5.bin
data6.bin
bandit12@bandit:/tmp/sahasra123$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/sahasra123$ bzip2 -d data6.bin
bzip2: Can't guess original name for data6.bin -- using data6.bin.out
bandit12@bandit:/tmp/sahasra123$ file data6.bin.out
data6.bin.out: POSIX tar archive (GNU)
bandit12@bandit:/tmp/sahasra123$ tar -xvf data6.bin.out
data8.bin
bandit12@bandit:/tmp/sahasra123$ 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/sahasra123$ mv data8.bin data.txt.gz
bandit12@bandit:/tmp/sahasra123$ gunzip data.txt.gz
gzip: data.txt already exists; do you wish to overwrite (y or n)? y
bandit12@bandit:/tmp/sahasra123$ file data.txt
data.txt: ASCII text
bandit12@bandit:/tmp/sahasra123$ cat data.txt
The password is 8ZjyCRiBWFYkneahHwxCv3wb2a10RpYL
bandit12@bandit:/tmp/sahasra123$
```


LEVEL 13 – 14: used the command 'ssh -i sshkey.private bandit14@localhost' as it allows us to pass through the private key



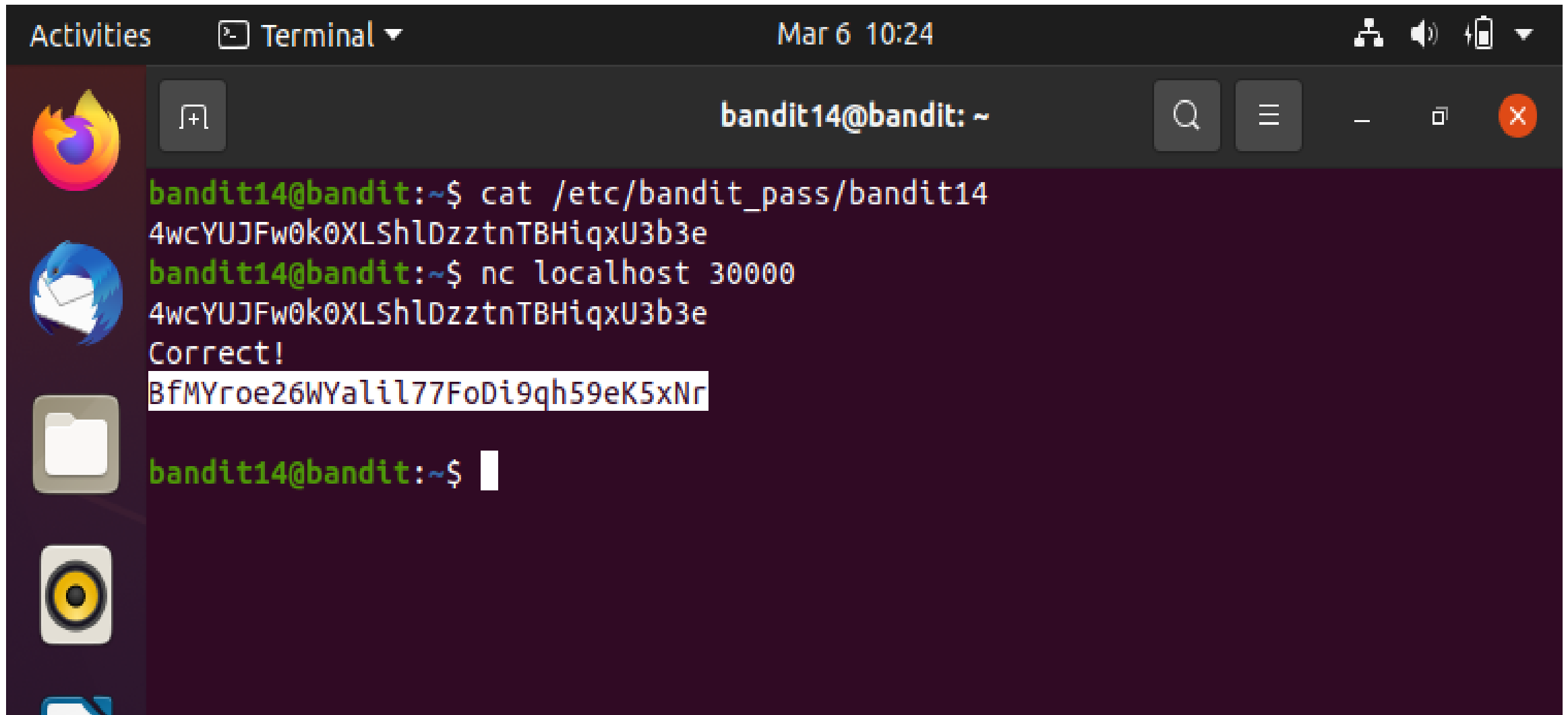
The image shows a terminal window titled 'bandit14@bandit: ~' with a dark purple background. The window has a top bar with 'Activities', 'Terminal', and the date 'Mar 6 10:19'. On the left is a sidebar with icons for Firefox, a mail client, a file manager, a music player, and a document viewer. The terminal text shows the user 'bandit13' listing files and then attempting to SSH to 'bandit14@localhost' using 'sshkey.private'. It shows a warning about the host's authenticity, a confirmation to continue, and a message about the OverTheWire game server. At the bottom, it shows the Linux version 'bandit.otw.local 5.4.8 x86_64 GNU/Linux' and a partial ASCII art graphic.

```
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 SHA256:98UL0ZWr85496EtCRkKlo20X30PnyPSB5tB5RPbhczc.
Are you sure you want to continue connecting (yes/no)? y
Please type 'yes' or '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
```

LEVEL 14 – 15: Used netcat command on local host and found the password.

Password: BfMYroe26WYalil77FoDi9qh59eK5xNr



The image shows a terminal window titled "bandit14@bandit: ~" with a dark background. The window has a top bar with "Activities", "Terminal", and the date "Mar 6 10:24". On the left is a sidebar with icons for Firefox, a mail client, a file manager, and a music player. The terminal content shows the following commands and output:

```
bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4wcYUJFw0k0XLShlDzztnTBHixU3b3e
bandit14@bandit:~$ nc localhost 30000
4wcYUJFw0k0XLShlDzztnTBHixU3b3e
Correct!
BfMYroe26WYalil77FoDi9qh59eK5xNr
bandit14@bandit:~$
```