



Cognizance

Task - 5

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Batch: 2020-24

Department: CSE-A

Level - 0:

A screenshot of a macOS terminal window titled "Terminal". The window shows a session with user "bandit0" on host "bandit.labs.overthewire.org" via SSH on port 2220. The terminal displays the standard OverTheWire welcome message, including a logo made of ASCII characters and a note about reporting problems to Steven or mrlord on irc.overthewire.org. It also lists available wargames and provides information about tools like execstack and ProPolice. The status bar at the bottom right indicates the screenshot was taken on Friday, June 24, 2022, at 10:05:27 PM.

```
Last login: Fri Jun 24 09:57:35 on ttys001
kumarlaxmikant@Kumars-MacBook-Pro ~ % ssh bandit0@bandit.labs.overthewire.org -p 2220
The authenticity of host 'bandit.labs.overthewire.org' ([176.9.9.172]:2220) can't be established.
ED25519 key fingerprint is SHA256:0MImM4lodtNUxc-8pievEx07KE0MztFjgnIcf0VmK.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '[bandit.labs.overthewire.org]:2220' (ED25519) to the list of known hosts.
This is an OverTheWire game server. More information on http://www.overthewire.org/wargames

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

www.----ver   he   www.---ire.org

Welcome to OverTheWire!

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

--[ Playing the games ]--

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

* USERNAMES are somegame0, somegame1, ...


```

Level - 0 → Level - 1:

Password: boJ9jbbUNNfkttd78OOpsqOltutMc3MY1

A screenshot of a macOS terminal window titled "Terminal". The window shows a session with user "bandit0" on host "bandit.labs.overthewire.org" via SSH on port 2220. The terminal displays the standard OverTheWire welcome message, including a note about execstack and ProPolice, and a list of installed tools like gef, pwndbg, peda, and Gdbinit. It also provides links for more information and support. The status bar at the bottom right indicates the screenshot was taken on Friday, June 24, 2022, at 10:08:34 PM.

```
-m32          compile for 32bit
-fno-stack-protector    disable ProPolice
-Wl,-z,norelo         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

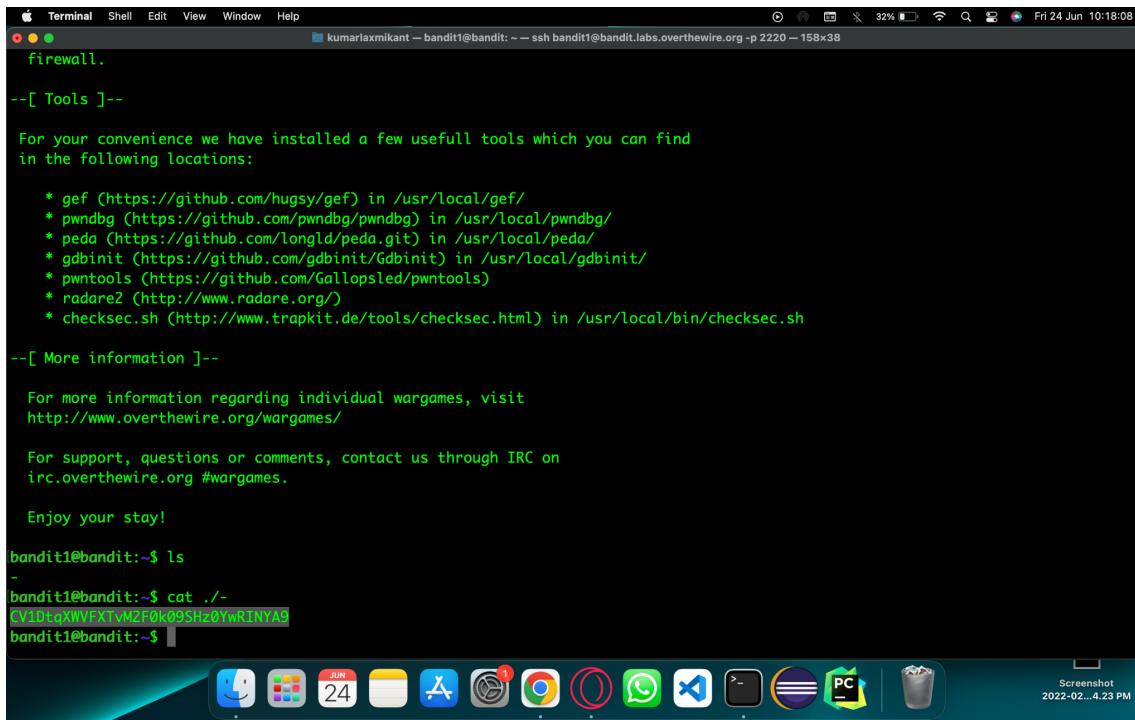
For support, questions or comments, contact us through IRC on
irc.overthewire.org #wargames.

Enjoy your stay!

bandit0@bandit:~$ ls
readme
bandit0@bandit:~$ cat readme
boJ9jbbUNNfkttd78OOpsqOltutMc3MY1
bandit0@bandit:~$ 
```

Level - 1 → Level - 2:

Password: CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9



```
Terminal Shell Edit View Window Help
kumarlaxmikant - bandit1@bandit: ~ - ssh bandit1@bandit.labs.overthewire.org -p 2220 - 158x38
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/
* pwnools (https://github.com/Gallopsled/pwnools)
* 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.

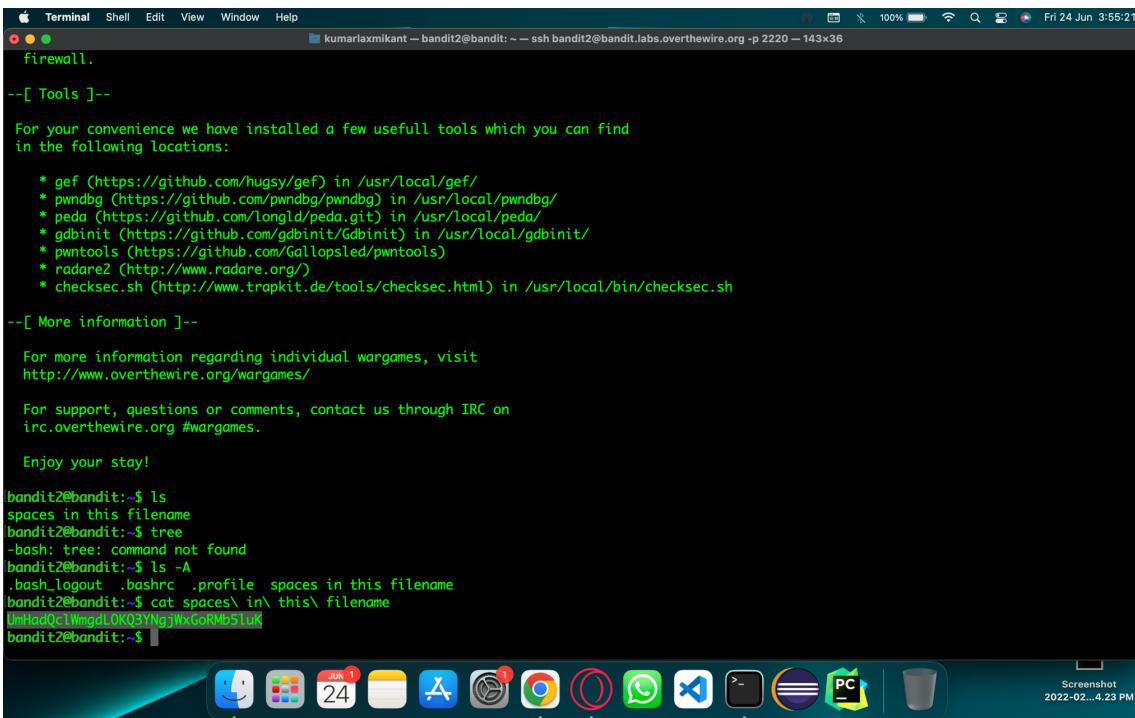
Enjoy your stay!

bandit1@bandit:~$ ls
-
bandit1@bandit:~$ cat .-
CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9
bandit1@bandit:~$
```

Screenshot taken on Fri 24 Jun 10:18:08 2022 from a Mac OS X desktop environment.

Level - 2 → Level - 3:

Password: UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK



```
Terminal Shell Edit View Window Help
kumarlaxmikant - bandit2@bandit: ~ - ssh bandit2@bandit.labs.overthewire.org -p 2220 - 143x36
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/
* pwnools (https://github.com/Gallopsled/pwnools)
* 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.

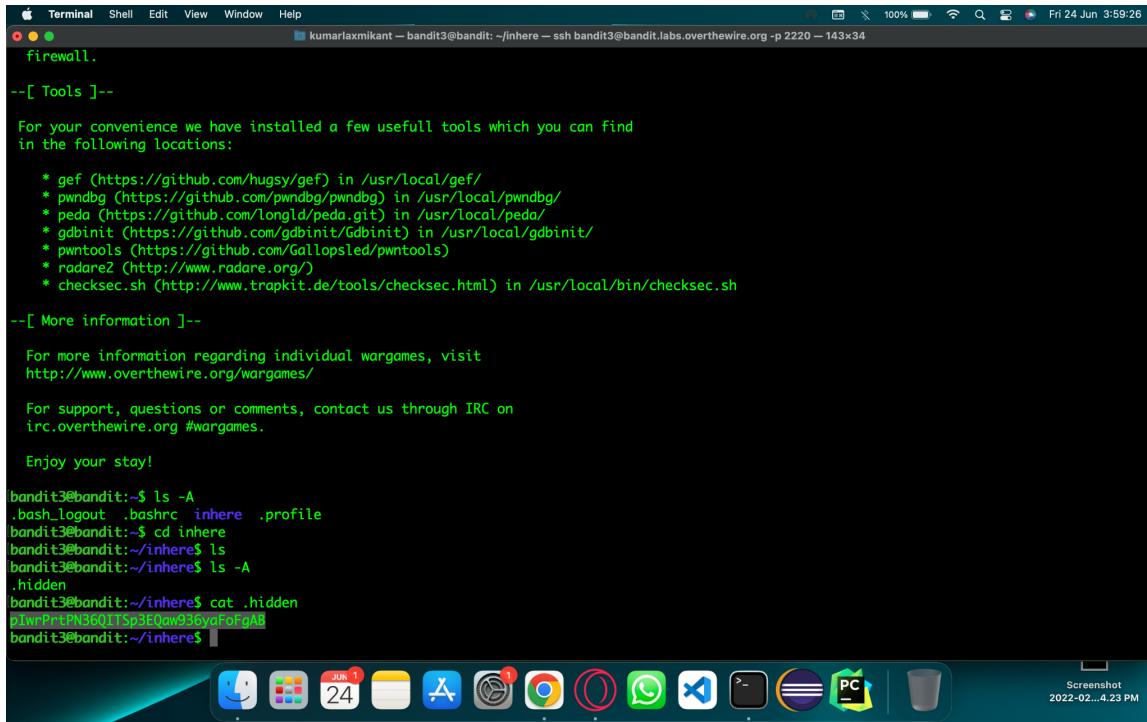
Enjoy your stay!

bandit2@bandit:~$ ls
spaces in this filename
bandit2@bandit:~$ tree
-bash: tree: command not found
bandit2@bandit:~$ ls -A
.bash_logout .bashrc .profile spaces in this filename
bandit2@bandit:~$ cat spaces\ in\ this\ filename
[redacted]
bandit2@bandit:~$
```

Screenshot taken on Fri 24 Jun 3:55:21 2022 from a Mac OS X desktop environment.

Level - 3 → Level - 4:

Password: plwrPrtPN36QITSp3EQaw936yaFoFgAB



A screenshot of a macOS terminal window titled "Terminal". The title bar shows the path "kumarlaxmikant — bandit3@bandit: ~/inhere — ssh bandit3@bandit.labs.overthewire.org -p 2220 — 143x34". The terminal content is as follows:

```
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/

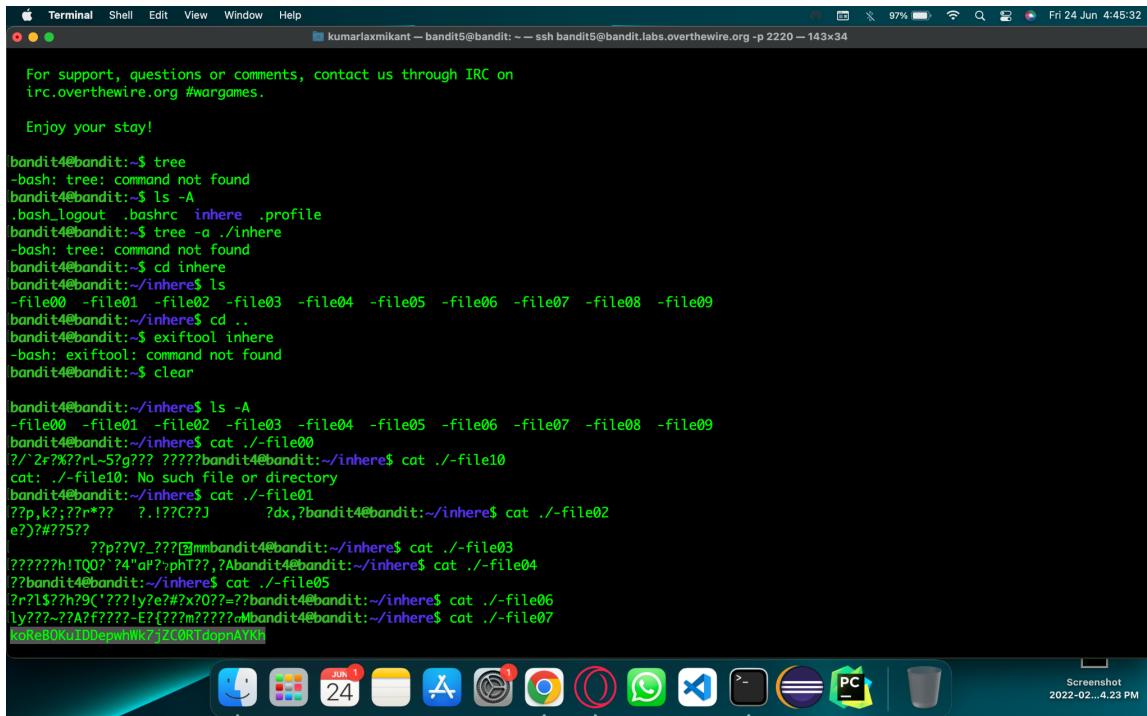
For support, questions or comments, contact us through IRC on
irc.overthewire.org #wargames.

Enjoy your stay!
bandit3@bandit:~$ ls -A
.bash_logout .bashrc inhere .profile
bandit3@bandit:~$ cd inhere
bandit3@bandit:~/inhere$ ls
bandit3@bandit:~/inhere$ ls -A
.hidden
bandit3@bandit:~/inhere$ cat .hidden
plwrPrtPN36QITSp3EQaw936yaFoFgAB
bandit3@bandit:~/inhere$
```

The status bar at the bottom right indicates "Screenshot 2022-02...4.23 PM".

Level - 4 → Level - 5:

Password: koReBOKuIDDepwhWk7jZC0RTdopnAYKh



A screenshot of a macOS terminal window titled "Terminal". The title bar shows the path "kumarlaxmikant — bandit5@bandit: ~ — ssh bandit5@bandit.labs.overthewire.org -p 2220 — 143x34". The terminal content is as follows:

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

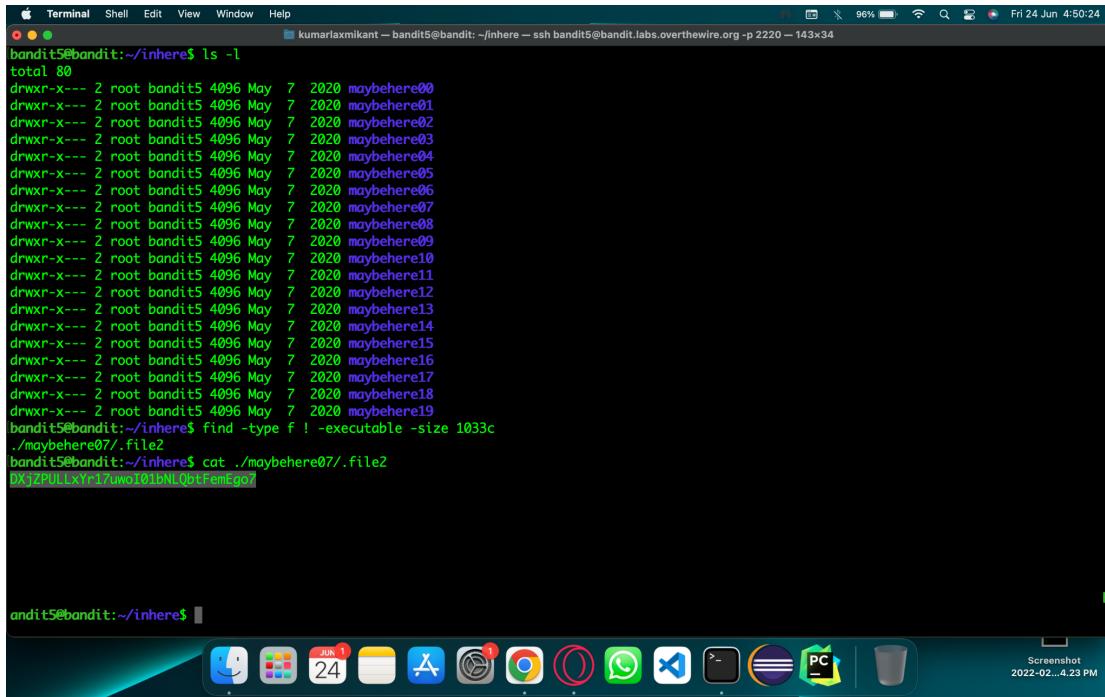
Enjoy your stay!
bandit4@bandit:~$ tree
-bash: tree: command not found
bandit4@bandit:~$ ls -A
.bash_logout .bashrc inhere .profile
bandit4@bandit:~$ tree -a ./inhere
-bash: tree: command not found
bandit4@bandit:~$ cd inhere
bandit4@bandit:~/inhere$ ls
-file00 -file01 -file02 -file03 -file04 -file05 -file06 -file07 -file08 -file09
bandit4@bandit:~/inhere$ cd ..
bandit4@bandit:~$ exiftool inhere
-bash: exiftool: command not found
bandit4@bandit:~$ clear

bandit4@bandit:~/inhere$ ls -A
-file00 -file01 -file02 -file03 -file04 -file05 -file06 -file07 -file08 -file09
bandit4@bandit:~/inhere$ cat ./file00
?/?r?K?L?5?g??? ?????bandit4@bandit:~/inhere$ cat ./file10
cat: ./file10: No such file or directory
bandit4@bandit:~/inhere$ cat ./file01
??p,K?;?r? ? ? .??C??J ?dx,?bandit4@bandit:~/inhere$ cat ./file02
e?)#?#?25???
??p??V_??@mbandit4@bandit:~/inhere$ cat ./file03
?????h!TQ0??"4"al??:ph??,?Abandit4@bandit:~/inhere$ cat ./file04
?2bandit4@bandit:~/inhere$ cat ./file05
?r?L?2?h?9C ???"e?#?x?0??"?bandit4@bandit:~/inhere$ cat ./file06
ly??"-??AZF????-E?{??m?????wbandit4@bandit:~/inhere$ cat ./file07
koReBOKuIDDepwhWk7jZC0RTdopnAYKh
```

The status bar at the bottom right indicates "Screenshot 2022-02...4.23 PM".

Level - 5 → Level - 6:

Password: DXjZPULLxYr17uwol01bNLQbtFemEgo7



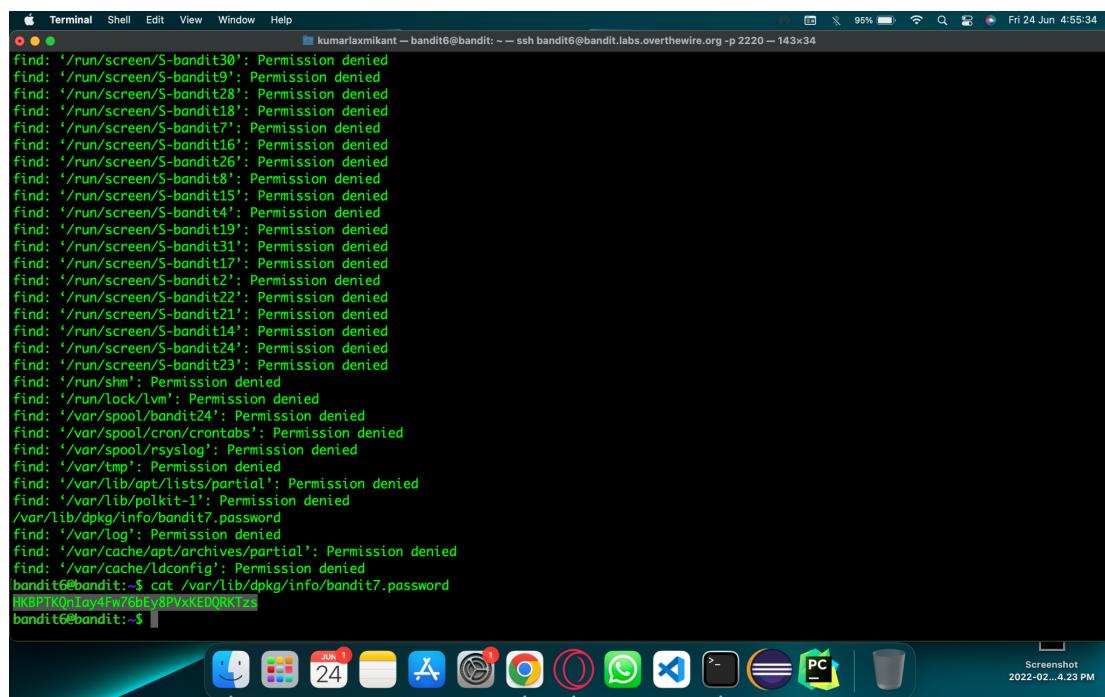
```
Terminal Shell Edit View Window Help
kumarlaxmikant - bandit5@bandit: ~/inhere - ssh bandit5@bandit.labs.overthewire.org -p 2220 - 143x34
bandit5@bandit:~/inhere$ ls -l
total 80
drwxr-x--- 2 root bandits 4096 May  7 2020 maybehere00
drwxr-x--- 2 root bandits 4096 May  7 2020 maybehere01
drwxr-x--- 2 root bandits 4096 May  7 2020 maybehere02
drwxr-x--- 2 root bandits 4096 May  7 2020 maybehere03
drwxr-x--- 2 root bandits 4096 May  7 2020 maybehere04
drwxr-x--- 2 root bandits 4096 May  7 2020 maybehere05
drwxr-x--- 2 root bandits 4096 May  7 2020 maybehere06
drwxr-x--- 2 root bandits 4096 May  7 2020 maybehere07
drwxr-x--- 2 root bandits 4096 May  7 2020 maybehere08
drwxr-x--- 2 root bandits 4096 May  7 2020 maybehere09
drwxr-x--- 2 root bandits 4096 May  7 2020 maybehere10
drwxr-x--- 2 root bandits 4096 May  7 2020 maybehere11
drwxr-x--- 2 root bandits 4096 May  7 2020 maybehere12
drwxr-x--- 2 root bandits 4096 May  7 2020 maybehere13
drwxr-x--- 2 root bandits 4096 May  7 2020 maybehere14
drwxr-x--- 2 root bandits 4096 May  7 2020 maybehere15
drwxr-x--- 2 root bandits 4096 May  7 2020 maybehere16
drwxr-x--- 2 root bandits 4096 May  7 2020 maybehere17
drwxr-x--- 2 root bandits 4096 May  7 2020 maybehere18
drwxr-x--- 2 root bandits 4096 May  7 2020 maybehere19
bandit5@bandit:~/inhere$ find -type f ! -executable -size 1033c
./maybehere07/.file2
bandit5@bandit:~/inhere$ cat ./maybehere07/.file2
DXjZPULLxYr17uwol01bNLQbtFemEgo7

bandit5@bandit:~/inhere$
```

The screenshot shows a macOS desktop environment with a terminal window open in the foreground. The terminal window title is "kumarlaxmikant - bandit5@bandit: ~/inhere - ssh bandit5@bandit.labs.overthewire.org -p 2220 - 143x34". The terminal content shows the user navigating through a directory containing files named "maybehere00" through "maybehere19". The user then runs the command "find -type f ! -executable -size 1033c" to find files that are not executable and have a size of 1033 bytes. The output of this command is ".file2". Finally, the user runs "cat ./maybehere07/.file2" to read the contents of this file, which are the characters "DXjZPULLxYr17uwol01bNLQbtFemEgo7". The macOS dock at the bottom of the screen shows various application icons.

Level - 6 → Level - 7:

Password: HKBPTKQnlay4Fw76bEy8PVxKEDQRKTzs

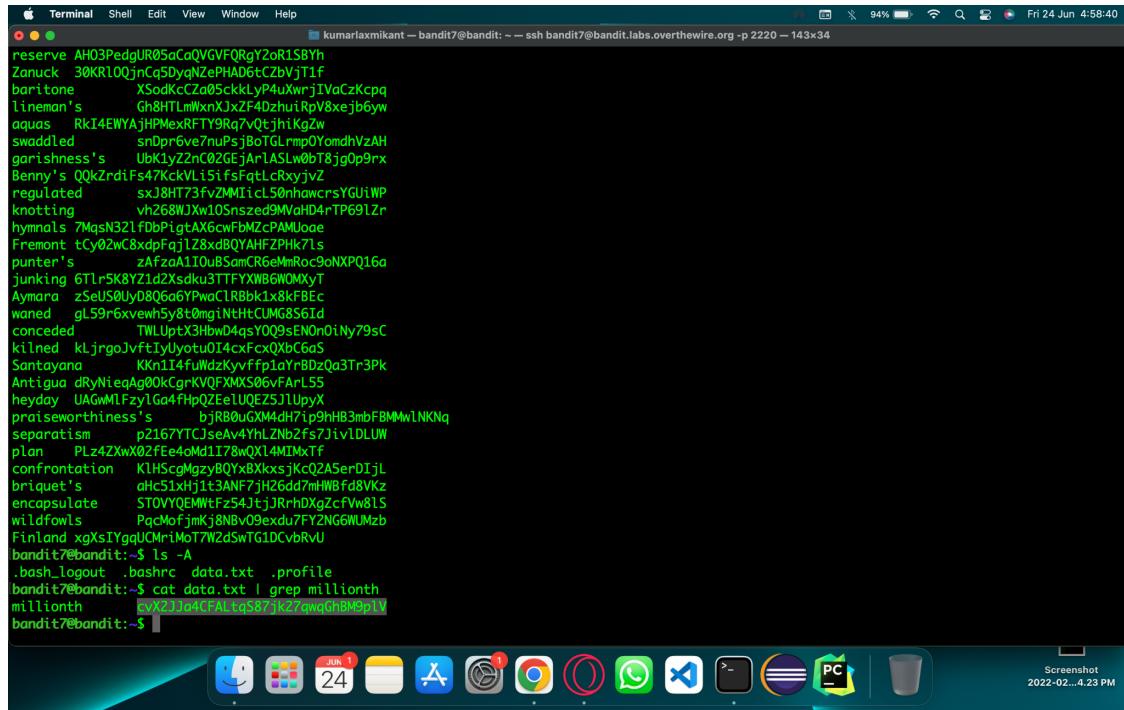


```
Terminal Shell Edit View Window Help
kumarlaxmikant - bandit6@bandit: ~ - ssh bandit6@bandit.labs.overthewire.org -p 2220 - 143x34
find: '/run/screen/S-bandit30': Permission denied
find: '/run/screen/S-bandit9': Permission denied
find: '/run/screen/S-bandit28': Permission denied
find: '/run/screen/S-bandit18': 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:~$ cat /var/lib/dpkg/info/bandit7.password
HKBPTKQnlay4Fw76bEy8PVxKEDQRKTzs
bandit6@bandit:~$
```

The screenshot shows a macOS desktop environment with a terminal window open in the foreground. The terminal window title is "kumarlaxmikant - bandit6@bandit: ~ - ssh bandit6@bandit.labs.overthewire.org -p 2220 - 143x34". The terminal content shows the user running a "find" command to search for files with specific permissions and sizes. The user then reads the contents of the file "/var/lib/dpkg/info/bandit7.password", which contains the password "HKBPTKQnlay4Fw76bEy8PVxKEDQRKTzs". The macOS dock at the bottom of the screen shows various application icons.

Level - 7 → Level - 8:

Password: cvX2JJa4CFALtqS87jk27qwqGhBM9pIV

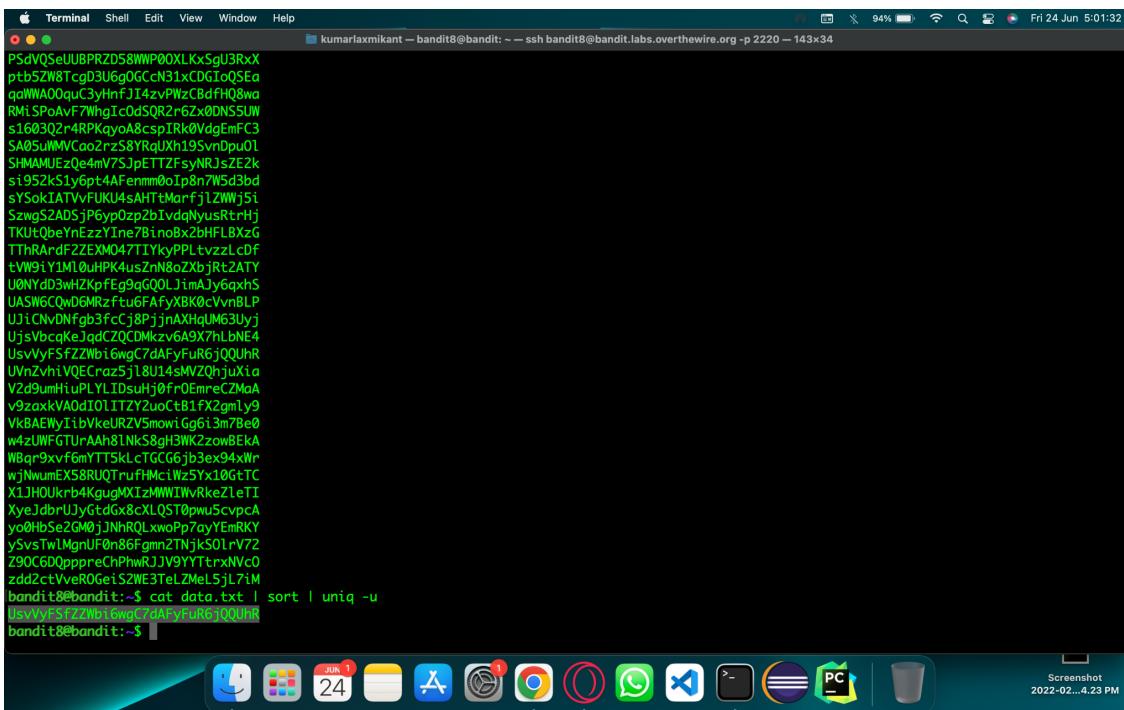


```
Terminal Shell Edit View Window Help
kumarlaxmikant — bandit7@bandit: ~ ssh bandit7@bandit.labs.overthewire.org -p 2220 — 143x34
reserve AH03PedgUR05aCqQVGVFQRqy2oR1SBYh
Zanuck 30KR10QjnCq5DyqNZePHAD6tCzbVjT1f
baritone XSoDkcCzad0SckkLyPauKwjIVaCzKcpq
lineman's GH8HTlmWknKJxzf4Dzhu1RpV8xejb6y
aquas Rki4EWYAjHPMexrFTYRq7v0tjh1Kg2w
swaddled snDpr6ve7nuPsjBoTGLmp0YomdhVzAH
garishness's UbK1yZznC02GEjAr1ASLWb0t8jg09rx
Benny's Q0K2rdif547KckVL15fsfqLcRxjyVZ
regulated sxJ8H7T3fVZMMiL50nhawcrsYGUiWP
knottting vh268WJXw10Snszed0MvahD4rTP691zr
hymnals 7MqsN321f0bPigtAX6cwFbMZcPAMUoae
Fremont tCqy2wC8xdpFqj1Zbx8BQyAHF2PHk7ls
punter's zaFzaAI0uBsamCR6emnRoC9oNXPQ16a
junking 6T1rSK8YZ1d2Tsdku3TTFYXWB6WMKyT
Aymara zSeUS0Uy08Q6a6YPwaC1R8bk1x8kBEC
waned gL59r6xvewh5y8t0mgInHETCMG8S61d
conceded TWLUptx3lbw04qs009sEN0n0iNy79sC
kilned kLjrgoJvftIylyotu014cxFcxXbC6aS
Santayana KKn114fFu1dzKjyvffpl1aYrBDzq03Tr3Pk
Antigua dRyNiegAg00kCrgrKVQFWMX506vFArL55
heyday UAGwMLFzylG4fhpDZFe1UQEzS1J1Upyx
praiseworthy's b;RB0uGM4dhl7ip9HB3mbFBMMw1NKNq
separatism p2167YTC1seAw4YHLZN2Fsf7ziv1DLUW
plan PLzZXwX02Fe4oM1I78wQX14MIMkf
confrontation K1HScgMgzyBQYXBXksjKcQ2A5erDIjL
briguet's oIc51Xhjt3ANF7jH26dd?mHWBfdBVkz
encapsulate STOYYQEMWtfz54JtjJRhDXgZcfVw8LS
wildfowls PqcMofjmkj8Nbvo9exdu7FY2NG6WUMzb
Finland xgXsIYgqUCMrMoT7W2dSwTg1DcvbRvU
bandit@bandit:~$ ls -A
.bash_logout .bashrc data.txt .profile
bandit@bandit:~$ cat data.txt | grep millionth
millionth [cvX2JJa4CFALtqS87jk27qwqGhBM9pIV]
bandit@bandit:~$
```

Screenshot taken at 2022-02-... 4:23 PM.

Level - 8 → Level - 9:

Password: UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhR

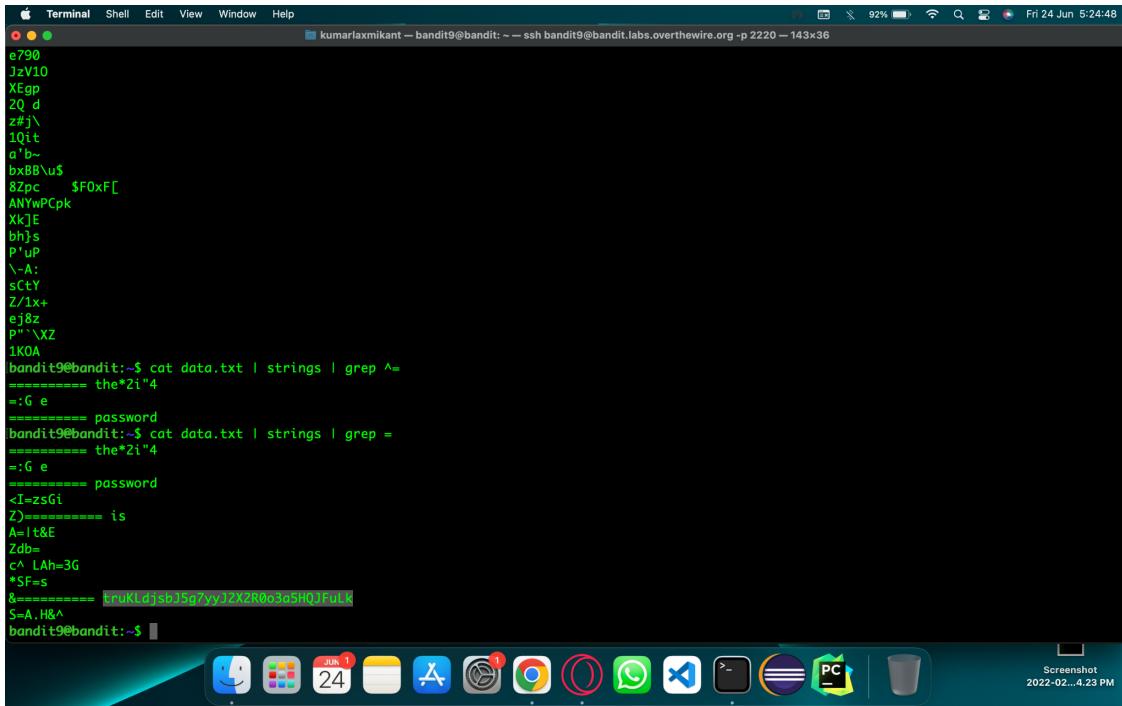


```
Terminal Shell Edit View Window Help
kumarlaxmikant — bandit8@bandit: ~ ssh bandit8@bandit.labs.overthewire.org -p 2220 — 143x34
PsdvQSeUUPRZD58WMP0OXLkXSpU3RxX
ptb5Z#8Tcg3u6gGCCnC31xCdGt0QSEa
qaIWa00quC3ylnfJ14zvPNzCBdfH08xa
RMtSp0AvF7Whg1co5dQR2r6Zx0DNSSUW
s160302r4RPKqyo8&spIRk0vdgEmfc3
SA05uMMVCao2r7z58YRqlJXh195svnDpu01
SHMANUEze4m/7SjpeTTZFsnyRJsE2K
s1952k51y6ptAFeimm0o1p8n7W5d3bd
sYsokIAITVfFUKU4sAHTtMarfj12ZWj51
SzwgS2ADSjP6yp0zp2b1vdqNyusRtrHj
TKUeQdeYnEzzTine7Bino8zBhFLBXzG
TThhRardfZEXMO47T1YkyPPLtvzlcDf
tVWBi1Y1Ml0uHPK4uSzrn8oZxbjRt2ATY
UoNYnd3whZkpFeg9qQQLJin4Jy6gxh5
UA5H6CQvD8MReftu6FAFyBXK0cvVnBLP
Uj1CnDnfgb3fCcJ8pjjnAxIqUD630yj
UjsVbcqKeJadCZQCDMkcvGA9X7hLBNE4
UsvVyFSFZWB16wgC7dAFyFuR6jQQUhR
UnvZniVQECEroz518U14sMVZ0hjuXia
V2d9umHiuPLYLIDsuHj0fr0EmreCZMaA
v9zoxkvAo101ITZYzu0CtB1X2gmy9
VkBAAwY1ibVkeuRZV5mow1Ggfi3m7Be0
w4zJWFGTUrAAh81NKs8gH3WK2zowBEKA
Wbqr9xvF6mTT5KLCtCGG6jb3ex94xNr
wJNnumeX58RUQtruhFMciNz5Yx10gtTC
X1JHOukrb4KugMXIzMWMTIWkrkeZleT1
XyeJdnriUjyGtdfx8cxKLQST0pwu5cvpcA
yo0RbsZ0M0jJNRQLxwoPr7ayYemRKY
ysvsTwMgnUf0n86Fgmn2TNjS0t-V72
Z90C6Q0pppreChPhwRJJ1V9YTtxNvC0
zdd2ctvveROGeis2WE3TeLZMeL5jL71M
bandit8@bandit:~$ cat data.txt | sort | uniq -u
UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhR
bandit8@bandit:~$
```

Screenshot taken at 2022-02-... 4:23 PM.

Level - 9 → Level - 10:

Password: truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk

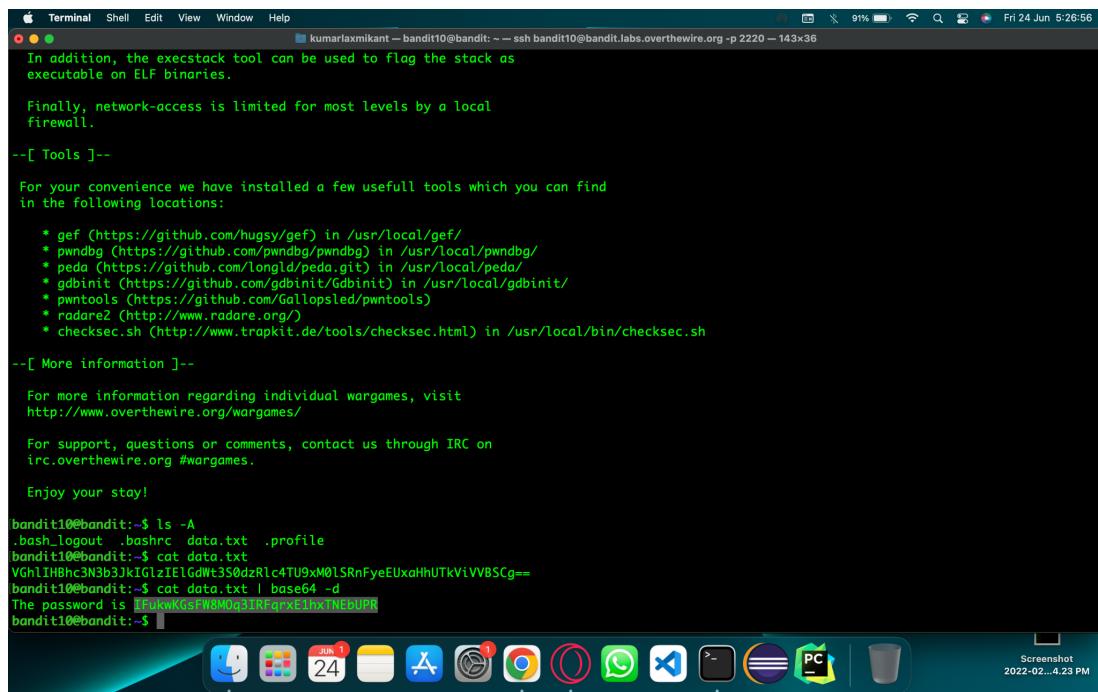


```
e790
JxV10
XEGp
2Q_d
z#\\
1qit
a'b-
bxBB\u$#
8Zpc $FOxF[
ANywPCpk
XxE
bn}s
P'uP
\`A;
sctY
Z/1x+
ej8z
P``XZ
1KOA
bandit9@bandit:~$ cat data.txt | strings | grep ^=
===== the*2i"4
=:G e
===== password
bandit9@bandit:~$ cat data.txt | strings | grep =
===== the*2i"4
=:G e
===== password
<=zsGt
Z)===== is
A=lt&E
Zdb=
c^ LAh=3G
*SF=s
===== truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk
S=A.H&^
bandit9@bandit:~$
```

Screenshot
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Level - 10 → Level - 11:

Password: IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR



```
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/
* pwnools (https://github.com/Gallopsled/pwnools)
* 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.

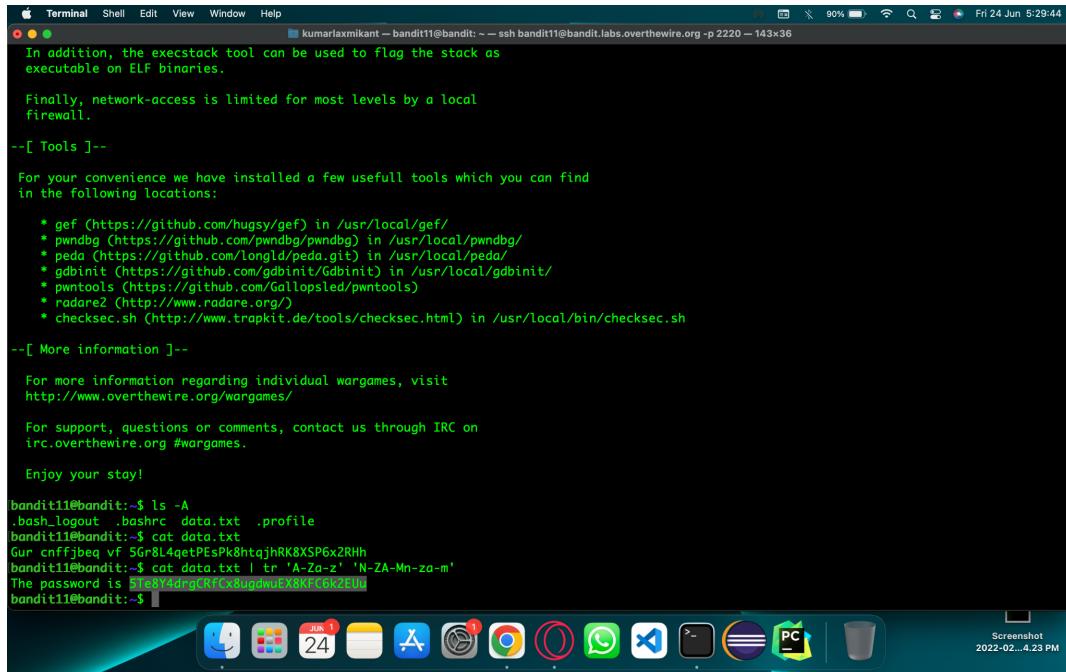
Enjoy your stay!

bandit10@bandit:~$ ls -A
.bash_logout .bashrc data.txt .profile
bandit10@bandit:~$ cat data.txt
VGhlIHBhc3N3b3JkIGlzIElGdWt3S0dzRlc4TU9xM01SRnFyeUxalHUTkViVVBSG==
bandit10@bandit:~$ cat data.txt | base64 -d
The password is IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR
bandit10@bandit:~$
```

Screenshot
2022-02-... 4.23 PM

Level - 11 → Level - 12:

Password: 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu



A screenshot of a macOS terminal window titled "Terminal". The window shows the following text output from a bandit user session:

```
kumarlaxmikant - bandit11@bandit: ~ - ssh bandit11@bandit.labs.overthewire.org -p 2220 - 143x36
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/pwntools/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 ]--

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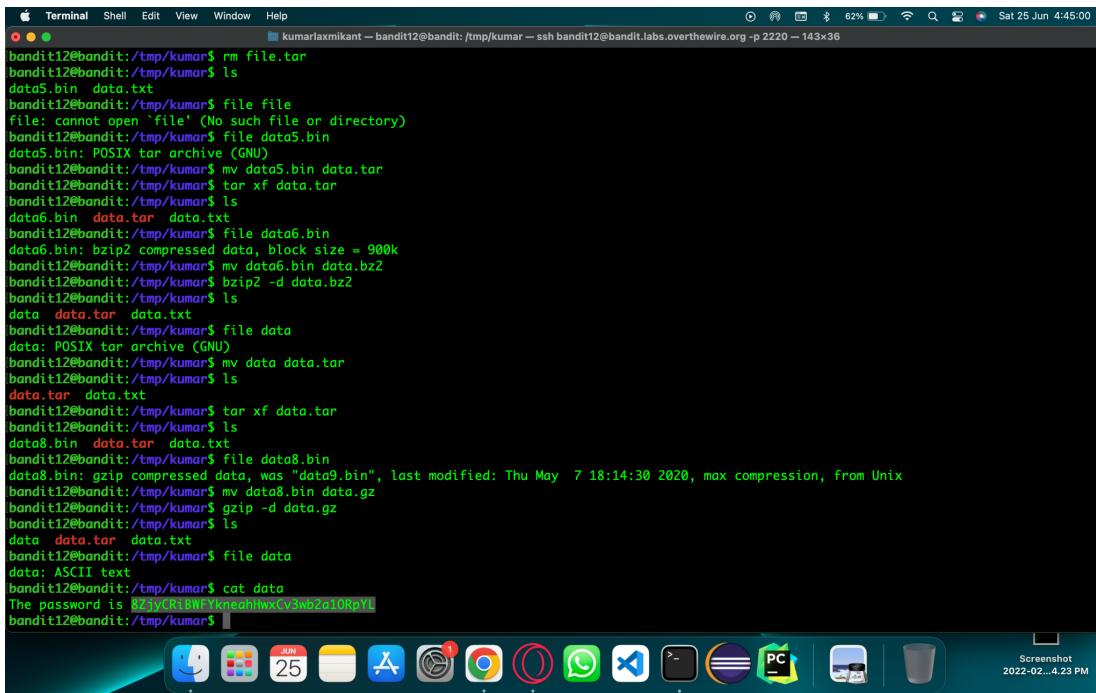
Enjoy your stay!

bandit11@bandit:~$ ls -A
.bash_logout  bashrc  data.txt  .profile
bandit11@bandit:~$ cat data.txt
Gur cnfjbeq vf 5Gr8L4qetEsPk8htqjhRK8XSP6xZRHh
bandit11@bandit:~$ cat data.txt | tr 'A-Za-z' 'N-ZA-Mn-za-m'
The password is 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu
bandit11@bandit:~$
```

The terminal window has a dark blue background and a dark blue header bar. The dock at the bottom of the screen shows various application icons.

Level - 12 → Level - 13:

Password: 8ZjyCRiBWFYkneahHwxCv3wb2a1ORpYL



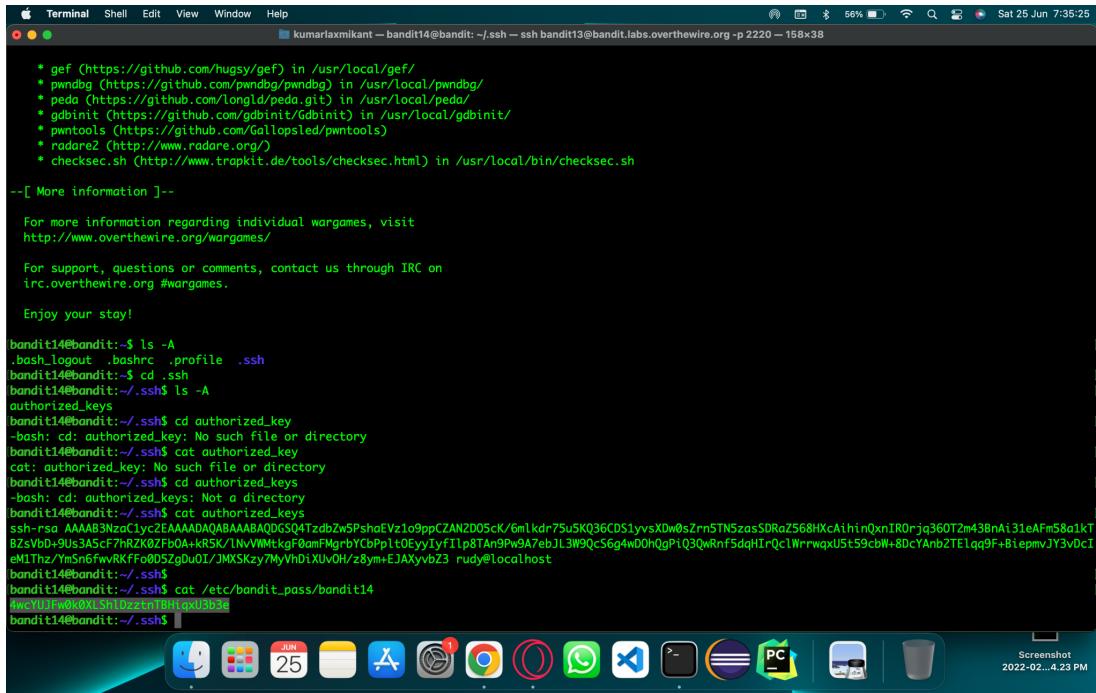
A screenshot of a macOS terminal window titled "Terminal". The window shows the following text output from a bandit user session:

```
kumarlaxmikant - bandit12@bandit: /tmp/kumar - ssh bandit12@bandit.labs.overthewire.org -p 2220 - 143x36
bandit12@bandit:~/tmp/kumar$ rm file.tar
bandit12@bandit:~/tmp/kumar$ ls
data5.bin  data.txt
bandit12@bandit:~/tmp/kumar$ file file
file: cannot open 'file'! (No such file or directory)
bandit12@bandit:~/tmp/kumar$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:~/tmp/kumar$ mv data5.bin data.tar
bandit12@bandit:~/tmp/kumar$ tar xf data.tar
bandit12@bandit:~/tmp/kumar$ ls
data6.bin  data.tar  data.txt
bandit12@bandit:~/tmp/kumar$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
bandit12@bandit:~/tmp/kumar$ mv data6.bin data.bz2
bandit12@bandit:~/tmp/kumar$ bzip2 -d data.bz2
bandit12@bandit:~/tmp/kumar$ ls
data  data.tar  data.txt
bandit12@bandit:~/tmp/kumar$ file data
data: POSIX tar archive (GNU)
bandit12@bandit:~/tmp/kumar$ mv data data.tar
bandit12@bandit:~/tmp/kumar$ ls
data.tar  data.txt
bandit12@bandit:~/tmp/kumar$ tar xf data.tar
bandit12@bandit:~/tmp/kumar$ ls
data8.bin  data.tar  data.txt
bandit12@bandit:~/tmp/kumar$ 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/kumar$ mv data8.bin data.gz
bandit12@bandit:~/tmp/kumar$ gzip -d data.gz
bandit12@bandit:~/tmp/kumar$ ls
data  data.tar  data.txt
bandit12@bandit:~/tmp/kumar$ file data
data: ASCII text
bandit12@bandit:~/tmp/kumar$ cat data
The password is 8ZjyCRiBWFYkneahHwxCv3wb2a1ORpYL
bandit12@bandit:~/tmp/kumar$
```

The terminal window has a dark blue background and a dark blue header bar. The dock at the bottom of the screen shows various application icons.

Level - 13 → Level - 14:

Password: 4wcYUJFw0k0XLSh1DzztnTBHiqxU3b3e



A screenshot of a macOS terminal window titled "Terminal". The title bar shows the path "kumar laxmikant — bandit14@bandit: ~/.ssh — ssh bandit13@bandit.labs.overthewire.org -p 2220 — 158x38". The status bar at the bottom right indicates "Sat 25 Jun 7:35:25". The terminal window displays the following text:

```
* 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/
* pwnutils (https://github.com/Gallopsled/pwnutils)
* radare2 (http://www.radare.org/)
* checksec.sh (http://www.tropkit.de/tools/checksec.html) in /usr/local/bin/checksec.sh

--[ More information ]--

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irc.overthewire.org #wargames.

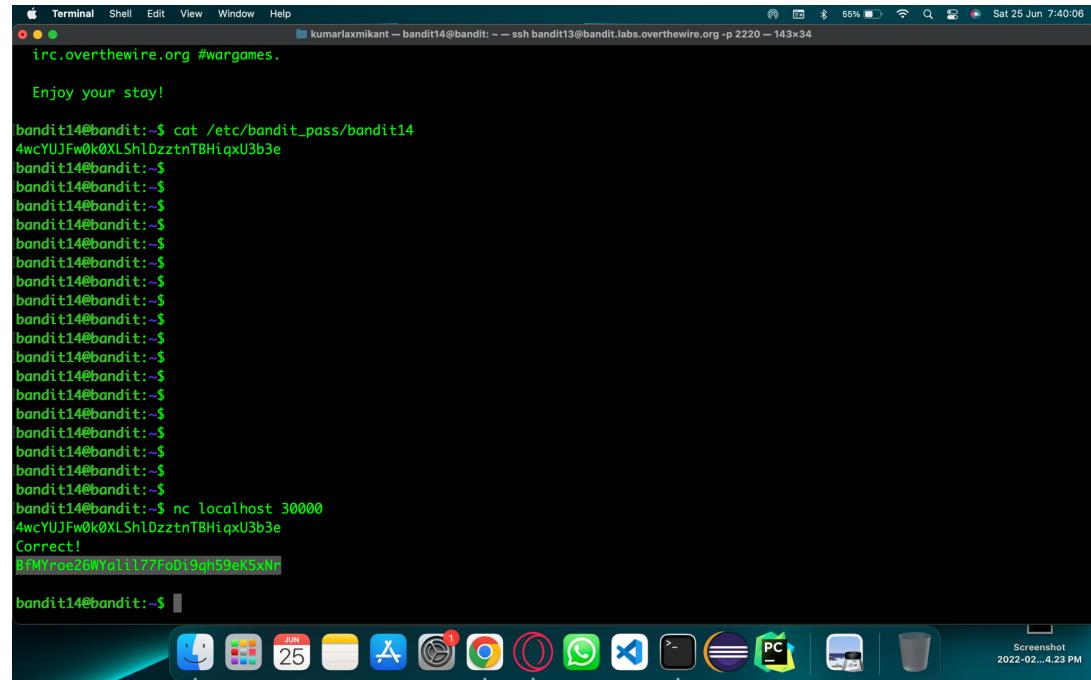
Enjoy your stay!

bandit14@bandit:~$ ls -A
.bash_logout .bashrc .profile .ssh
bandit14@bandit:~$ cd .ssh
bandit14@bandit:~$ ls -A
authorized_keys
bandit14@bandit:~$ cd authorized_keys
-bash: cd: authorized_key: No such file or directory
bandit14@bandit:~$ cat authorized_key
cat: authorized_key: No such file or directory
bandit14@bandit:~$ cd authorized_keys
-bash: cd: authorized_keys: Not a directory
bandit14@bandit:~$ ssh cat authorized_keys
ssh-AAAA3Nza1yc2EAAQADQABAAAQGSQ4TzdbZw5PshaVzlo9ppCZAN2005cK/6mlkr75uSKQ36CD51yvsXDw0sZrnSTN5zasS0Rz568HxCAihinQxnIR0rjq360T2m43BnAi31eAFm58a1kTB2svb+9Us3A5cF7hRZK0ZFB0A+kRSK/LN/VMicgF0amFMgrbCbPplt0Eyy1yf1p8tAn9Pw9A7ebJL3W9QcS6g4wD0hQgPlQ3QwRnf5dqHrQclWrrwxqU5t59cbW+8DcYAnb2TE1qq9F+8iepmvJY3v0CIeM1ThzUm6nfwvRKFFo05Zq0U1/JMKSkzy7MyhDiXUvOH/z8ym+EJAXybZ3 rudy@localhost
bandit14@bandit:~$ ssh
bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4wcYUJFw0k0XLSh1DzztnTBHiqxU3b3e
bandit14@bandit:~$
```

The desktop dock at the bottom of the screen shows various application icons.

Level - 14 → Level - 15:

Password: BfMYroe26WYalil77FoDi9qh59eK5xNr



A screenshot of a macOS terminal window titled "Terminal". The title bar shows the path "kumar laxmikant — bandit14@bandit: ~ — ssh bandit13@bandit.labs.overthewire.org -p 2220 — 143x34". The status bar at the bottom right indicates "Sat 25 Jun 7:40:06". The terminal window displays the following text:

```
irc.overthewire.org #wargames.

Enjoy your stay!

bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4wcYUJFw0k0XLSh1DzztnTBHiqxU3b3e
bandit14@bandit:~$ 
bandit14@bandit:~$ nc localhost 30000
4wcYUJFw0k0XLSh1DzztnTBHiqxU3b3e
Correct!
BfMYroe26WYalil77FoDi9qh59eK5xNr
bandit14@bandit:~$
```

The desktop dock at the bottom of the screen shows various application icons.

Level - 15 → Level - 16:

Password: cluFn7wTiGryunymYOu4RcffSxQluehd

```
Terminal Shell Edit View Window Help
kumar laxmikant — bandit14@bandit: ~ — ssh bandit13@bandit.labs.overthewire.org -p 2220 — 143x34
Session-ID-ctx:
Master-Key: 6F23B89367890785D1AF6096375DC9C9A9E452EE4AFA85D3E216D4985EAAA325890BBEA627192B541FFA7E2945B3956E
PSK identity: None
PSK identity hint: None
SRP username: None
TLS session ticket lifetime hint: 7200 (seconds)
TLS session ticket:
0000 - d3 53 01 d9 4c 2e 82 50-ef 16 38 c5 d8 1b dd f2 .S..L..P..8.....
0010 - 4d 66 9a b2 2e ab 0c f3-f2 99 af 3a 5d 9f cd 9c Mf.....:]:...
0020 - 97 4d 08 2e 4c 89 dd bd-d1 20 58 45 77 53 7d 0e .M..L.... XEW$}.
0030 - 03 35 f4 21 ea 11 e4 47-d1 d2 af 26 bc 78 0a e2 .5!...G...&.x..
0040 - b5 03 11 45 a4 22 67 1b-db cc 58 15 ab 01 7e F2 ...E."g..X...~.
0050 - 50 b8 04 fc 8e 4d ea 2a-fc cc 50 51 f5 97 b2 bf P....M*..PQ....
0060 - b1 f4 6e c1 dc 54 51 fe-00 11 71 95 1f a4 88 0e ..n..TQ...q.....
0070 - 13 b6 fd f7 04 e0 2c e5-e1 dc 32 6c e5 cf 4a cc .....,.21..J.
0080 - 3b 16 60 3d 8c 75 1a 21-df f8 73 0f 01 99 be 57 ;..=u!..s....W
0090 - 19 fa 39 c8 2e de f7 13-f9 bb d0 bc 33 9f e9 00 ..9.....3...

Start Time: 1656166397
Timeout   : 7200 (sec)
Verify return code: 18 (self signed certificate)
Extended master secret: yes
---
BfMYroeZ6WYAlil77FoDi9qh59eK5xNr
Correct!
cluFn7wTiGryunymYOu4RcffSxQluehd

closed
bandit14@bandit:~$
```



Screenshot
2022-02...4.23 PM