ASSIGNMENT 2: Cybersecurity Wargame Internship Task

Level 0 to Level 1

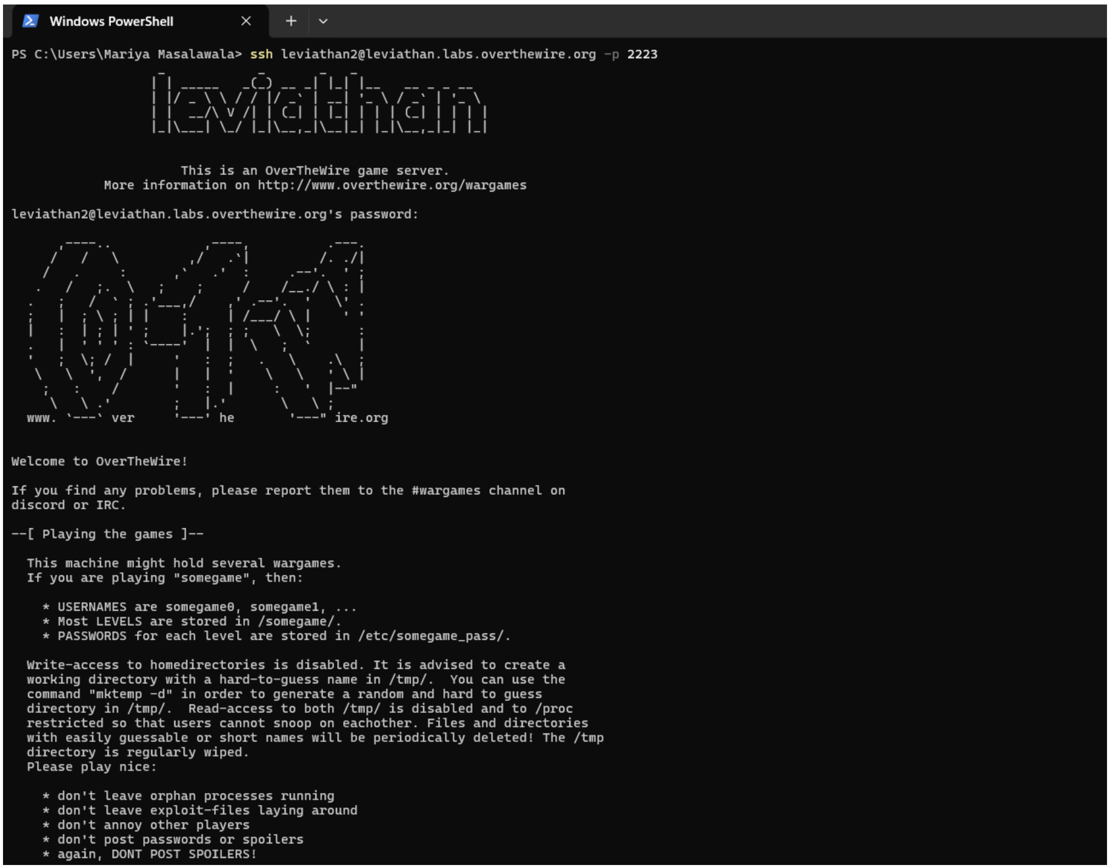
- Step 1: SSH into the server using the password leviathan0
  Command: ssh leviathan0@leviathan.labs.overthewire.org -p 2223
- Step 2: List the files and check for hidden files using ls -la
- Step 3: The .backup directory contains a file bookmarks.html. I used cat and grep to find the password.
  Command: cat bookmarks.html | grep leviathan
- **Password for Level 1: 3QJ3TgzHDq**

Level 1 to Level 2

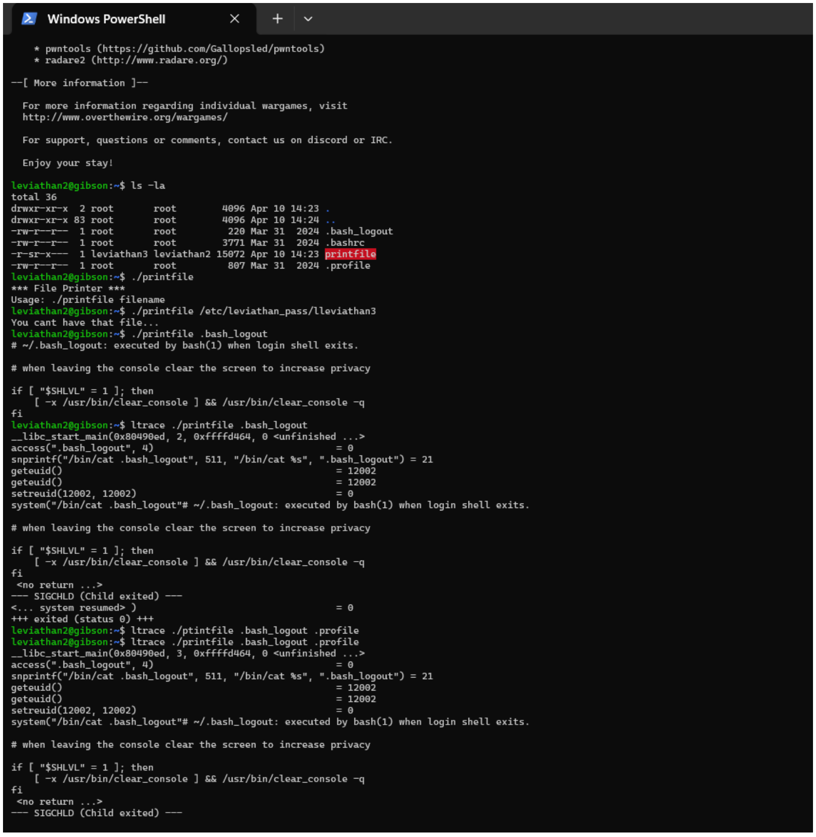
- Step 1: SSH into the server using the password **3QJ3TgzHDq**
  Command: ssh leviathan1@leviathan.labs.overthewire.org -p 2223
- Step 2: Check the file type of check using file
  Command: file check , strcmp("tes", "sex")
- Step 3: Use ltrace to analyze the program and find that the password sex is used for comparison.
  Command: ltrace ./check
- Step 4: Use “sex” as the password to gain a shell and verify access using whoami
  Command: whoami
- Step 5: Retrieve the password for Level 2.
  Command: cat /etc/leviathan_pass/leviathan2
- **Password for Level 2: NsN1HwFoyN**

Level 2 to Level 3

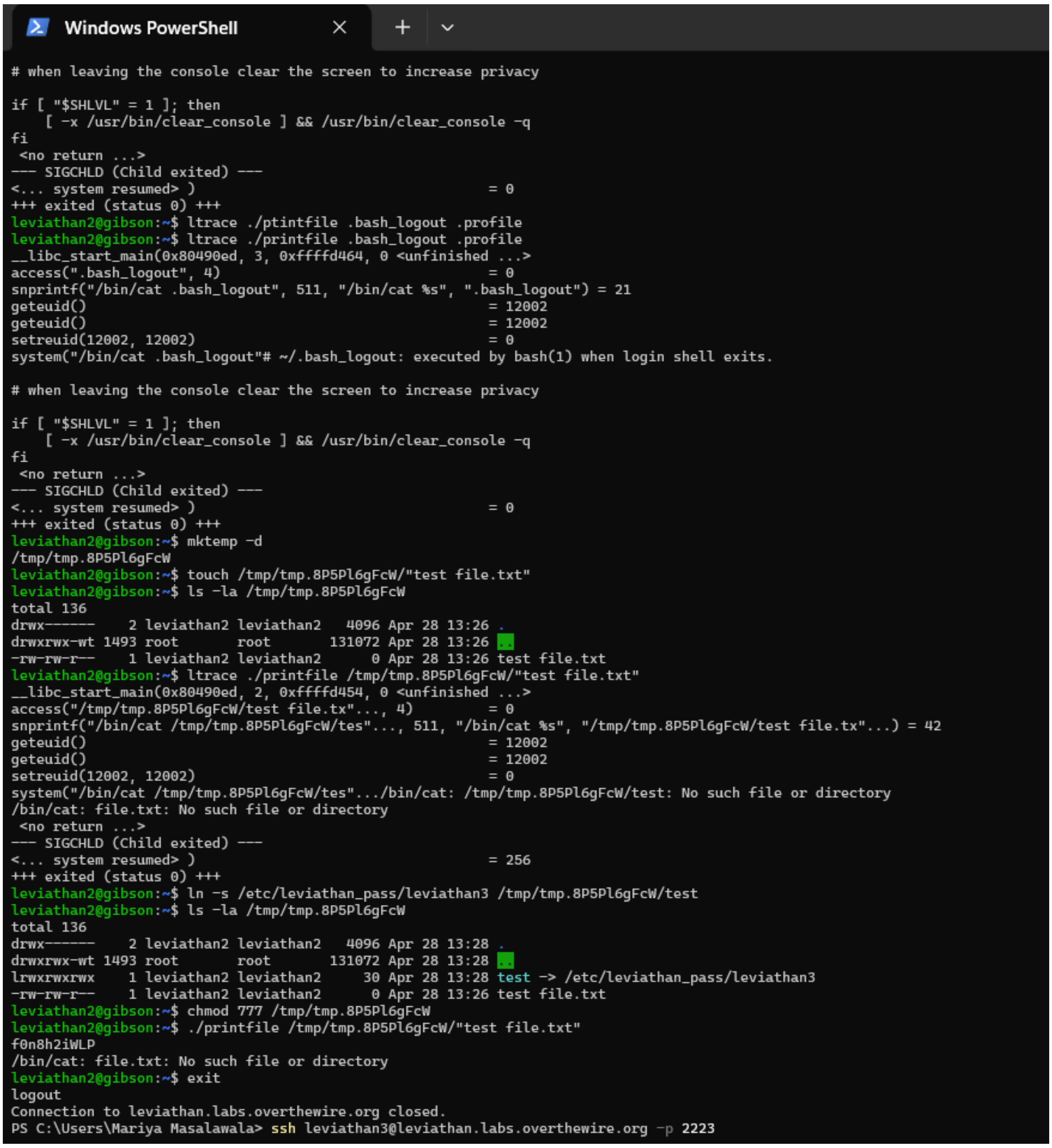
- Step 1: SSH into the server using the password NsN1HwFoyN
  Command: ssh leviathan2@leviathan.labs.overthewire.org -p 2223
- Step 2: List the files and check for hidden files using ls -la
  Command: ls -la
- Step 3: Execute the printfile binary to print file contents, using ltrace to see how it works.
  Command: ltrace ./printfile
  ltrace ./printfile .bash_logout
  ltrace ./printfile .bash_logout .profile
- Step 4: Find the vulnerability and use a malicious file (myfile; bash) to escalate privileges to leviathan3. Command: whoami
- Step 5: Retrieve the password for Level 3.
  Command: cat /etc/leviathan_pass/leviathan3
- **Password for Level 3: f0n8h2iWLP**



```
PS C:\Users\Mariya Masalawala> ssh leviathan2@leviathan.labs.overthewire.org -p 2223
                  _            _       _   _
                 | | _____   _(_) __ _| |_| |__   __ _ _ __
                 | |/ _ \ \ / / |/ _` | __| '_ \ / _` | '_ \
                 | |  __/\ V /| | (_| | |_| | | | (_| | | | |
                 |_|\___| \_/ |_|\__,_|\__|_| |_|\__,_|_| |_|


                      This is an OverTheWire game server.
            More information on http://www.overthewire.org/wargames

leviathan2@leviathan.labs.overthewire.org's password:

      ,----..            ,----,          .---.
     /   /   \         ,/   .`|         /. ./|
    /   .     :      ,`   .'  :     .--'.  ' ;
   .   /   ;.  \   ;    ;     /    /__./ \ : |
  .   ;   /  ` ; .'___,/    ,' .--'.  '   \' .
  ;   |  ; \ ; | |    :     | /___/ \ |    ' '
  |   :  | ; | ' ;    |.';  ; ;   \  \;      :
  .   |  ' ' ' : `----'  |  |  \   ;  `      |
  '   ;  \; /  |     '   :  ;   .   \    .\  ;
   \   \  ',  /      |   |  '    \   \   ' \ |
    ;   :    /       '   :  |     :   '  |--"
     \   \ .'        ;   |.'       \   \ ;
  www. `---` ver     '---' he       '---" ire.org


Welcome to OverTheWire!

If you find any problems, please report them to the #wargames channel on
discord or IRC.

--[ 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
  command "mktemp -d" in order to generate a random and hard to guess
  directory in /tmp/.  Read-access to both /tmp/ is disabled and to /proc
  restricted so that users cannot snoop on eachother. Files and directories
  with easily guessable or short names will be periodically deleted! The /tmp
  directory is regularly wiped.
  Please play nice:

    * don't leave orphan processes running
    * don't leave exploit-files laying around
    * don't annoy other players
    * don't post passwords or spoilers
    * again, DONT POST SPOILERS!
```



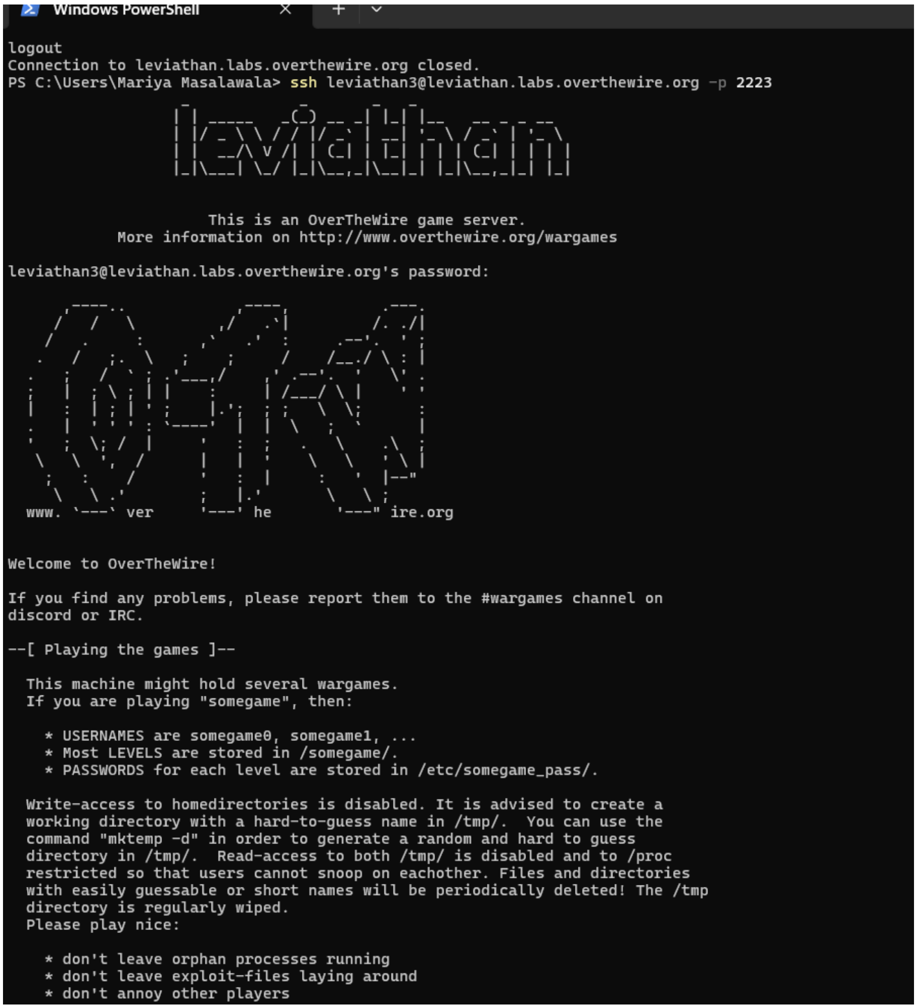
```
    * pwntools (https://github.com/Gallopsled/pwntools)
    * radare2 (http://www.radare.org/)

--[ More information ]--

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

  For support, questions or comments, contact us on discord or IRC.

  Enjoy your stay!

leviathan2@gibson:~$ ls -la
total 36
drwxr-xr-x  2 root       root        4096 Apr 10 14:23 .
drwxr-xr-x 83 root       root        4096 Apr 10 14:24 ..
-rw-r--r--  1 root       root         220 Mar 31  2024 .bash_logout
-rw-r--r--  1 root       root        3771 Mar 31  2024 .bashrc
-r-sr-x---  1 leviathan3 leviathan2 15072 Apr 10 14:23 printfile
-rw-r--r--  1 root       root         807 Mar 31  2024 .profile
leviathan2@gibson:~$ ./printfile
*** File Printer ***
Usage: ./printfile filename
leviathan2@gibson:~$ ./printfile /etc/leviathan_pass/lleviathan3
You cant have that file...
leviathan2@gibson:~$ ./printfile .bash_logout
# ~/.bash_logout: executed by bash(1) when login shell exits.

# when leaving the console clear the screen to increase privacy

if [ "$SHLVL" = 1 ]; then
    [ -x /usr/bin/clear_console ] && /usr/bin/clear_console -q
fi
leviathan2@gibson:~$ ltrace ./printfile .bash_logout
__libc_start_main(0x80490ed, 2, 0xffffd464, 0 <unfinished ...>
access(".bash_logout", 4)                                        = 0
snprintf("/bin/cat .bash_logout", 511, "/bin/cat %s", ".bash_logout") = 21
geteuid()                                                        = 12002
geteuid()                                                        = 12002
setreuid(12002, 12002)                                           = 0
system("/bin/cat .bash_logout"# ~/.bash_logout: executed by bash(1) when login shell exits.

# when leaving the console clear the screen to increase privacy

if [ "$SHLVL" = 1 ]; then
    [ -x /usr/bin/clear_console ] && /usr/bin/clear_console -q
fi
 <no return ...>
--- SIGCHLD (Child exited) ---
<... system resumed> )                                           = 0
+++ exited (status 0) +++
leviathan2@gibson:~$ ltrace ./ptintfile .bash_logout .profile
leviathan2@gibson:~$ ltrace ./printfile .bash_logout .profile
__libc_start_main(0x80490ed, 3, 0xffffd464, 0 <unfinished ...>
access(".bash_logout", 4)                                        = 0
snprintf("/bin/cat .bash_logout", 511, "/bin/cat %s", ".bash_logout") = 21
geteuid()                                                        = 12002
geteuid()                                                        = 12002
setreuid(12002, 12002)                                           = 0
system("/bin/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
 <no return ...>
--- SIGCHLD (Child exited) ---
```



```
# when leaving the console clear the screen to increase privacy

if [ "$SHLVL" = 1 ]; then
    [ -x /usr/bin/clear_console ] && /usr/bin/clear_console -q
fi
 <no return ...>
--- SIGCHLD (Child exited) ---
<... system resumed> )                                   = 0
+++ exited (status 0) +++
leviathan2@gibson:~$ ltrace ./ptintfile .bash_logout .profile
leviathan2@gibson:~$ ltrace ./printfile .bash_logout .profile
__libc_start_main(0x80490ed, 3, 0xffffd464, 0 <unfinished ...>
access(".bash_logout", 4)                                = 0
snprintf("/bin/cat .bash_logout", 511, "/bin/cat %s", ".bash_logout") = 21
geteuid()                                                = 12002
geteuid()                                                = 12002
setreuid(12002, 12002)                                   = 0
system("/bin/cat .bash_logout"# ~/.bash_logout: executed by bash(1) when login shell exits.

# when leaving the console clear the screen to increase privacy

if [ "$SHLVL" = 1 ]; then
    [ -x /usr/bin/clear_console ] && /usr/bin/clear_console -q
fi
 <no return ...>
--- SIGCHLD (Child exited) ---
<... system resumed> )                                   = 0
+++ exited (status 0) +++
leviathan2@gibson:~$ mktemp -d
/tmp/tmp.8P5Pl6gFcW
leviathan2@gibson:~$ touch /tmp/tmp.8P5Pl6gFcW/"test file.txt"
leviathan2@gibson:~$ ls -la /tmp/tmp.8P5Pl6gFcW
total 136
drwx------    2 leviathan2 leviathan2   4096 Apr 28 13:26 .
drwxrwx-wt 1493 root       root       131072 Apr 28 13:26 ..
-rw-rw-r--    1 leviathan2 leviathan2      0 Apr 28 13:26 test file.txt
leviathan2@gibson:~$ ltrace ./printfile /tmp/tmp.8P5Pl6gFcW/"test file.txt"
__libc_start_main(0x80490ed, 2, 0xffffd454, 0 <unfinished ...>
access("/tmp/tmp.8P5Pl6gFcW/test file.tx"..., 4)         = 0
snprintf("/bin/cat /tmp/tmp.8P5Pl6gFcW/tes"..., 511, "/bin/cat %s", "/tmp/tmp.8P5Pl6gFcW/test file.tx"...) = 42
geteuid()                                                = 12002
geteuid()                                                = 12002
setreuid(12002, 12002)                                   = 0
system("/bin/cat /tmp/tmp.8P5Pl6gFcW/tes".../bin/cat: /tmp/tmp.8P5Pl6gFcW/test: No such file or directory
/bin/cat: file.txt: No such file or directory
 <no return ...>
--- SIGCHLD (Child exited) ---
<... system resumed> )                                   = 256
+++ exited (status 0) +++
leviathan2@gibson:~$ ln -s /etc/leviathan_pass/leviathan3 /tmp/tmp.8P5Pl6gFcW/test
leviathan2@gibson:~$ ls -la /tmp/tmp.8P5Pl6gFcW
total 136
drwx------    2 leviathan2 leviathan2   4096 Apr 28 13:28 .
drwxrwx-wt 1493 root       root       131072 Apr 28 13:28 ..
lrwxrwxrwx    1 leviathan2 leviathan2     30 Apr 28 13:28 test -> /etc/leviathan_pass/leviathan3
-rw-rw-r--    1 leviathan2 leviathan2      0 Apr 28 13:26 test file.txt
leviathan2@gibson:~$ chmod 777 /tmp/tmp.8P5Pl6gFcW
leviathan2@gibson:~$ ./printfile /tmp/tmp.8P5Pl6gFcW/"test file.txt"
f0n8h2iWLP
/bin/cat: file.txt: No such file or directory
leviathan2@gibson:~$ exit
logout
Connection to leviathan.labs.overthewire.org closed.
PS C:\Users\Mariya Masalawala> ssh leviathan3@leviathan.labs.overthewire.org -p 2223
```

Level 3 to Level 4

- Step 1: SSH into the server using the password **f0n8h2iWLP**
  Command: ssh leviathan3@leviathan.labs.overthewire.org -p 2223
- Step 2: Run the level3 executable, use ltrace to trace the password check, and identify snlprintfn as the correct password.
  Command: ltrace ./level3
- Step 3: Use snlprintfn as the password to gain access.
- Command: ./level3
- Step 4: Retrieve the password for Level 4.
  Command: cat /etc/leviathan_pass/leviathan4
  Password for Level 4: WG1egElCvO



```
logout
Connection to leviathan.labs.overthewire.org closed.
PS C:\Users\Mariya Masalawala> ssh leviathan3@leviathan.labs.overthewire.org -p 2223
                   _            _       _   _
                  | | _____   _(_) __ _| |_| |__   __ _ _ __
                  | |/ _ \ \ / / |/ _` | __| '_ \ / _` | '_ \
                  | |  __/\ V /| | (_| | |_| | | | (_| | | | |
                  |_|\___| \_/ |_|\__,_|\__|_| |_|\__,_|_| |_|


                      This is an OverTheWire game server.
            More information on http://www.overthewire.org/wargames

leviathan3@leviathan.labs.overthewire.org's password:

      ,----..            ,----,          .---.
     /   /   \         ,/   .`|         /. ./|
    /   .     :      ,`   .'  :     .--'.  ' ;
   .   /   ;.  \   ;    ;     /    /__./ \ : |
  .   ;   /  ` ; .'___,/    ,' .--'.  '   \' .
  ;   |  ; \ ; | |    :     | /___/ \ |    ' '
  |   :  | ; | ' ;    |.';  ; ;   \  \;      :
  .   |  ' ' ' : `----'  |  |  \   ;  `      |
  '   ;  \; /  |     '   :  ;   .   \    .\  ;
   \   \  ',  /      |   |  '    \   \   ' \ |
    ;   :    /       '   :  |     :   '  |--"
     \   \ .'        ;   |.'       \   \ ;
  www. `---` ver     '---' he       '---" ire.org


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discord or IRC.

--[ 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
  command "mktemp -d" in order to generate a random and hard to guess
  directory in /tmp/.  Read-access to both /tmp/ is disabled and to /proc
  restricted so that users cannot snoop on eachother. Files and directories
  with easily guessable or short names will be periodically deleted! The /tmp
  directory is regularly wiped.
  Please play nice:

    * don't leave orphan processes running
    * don't leave exploit-files laying around
    * don't annoy other players
```
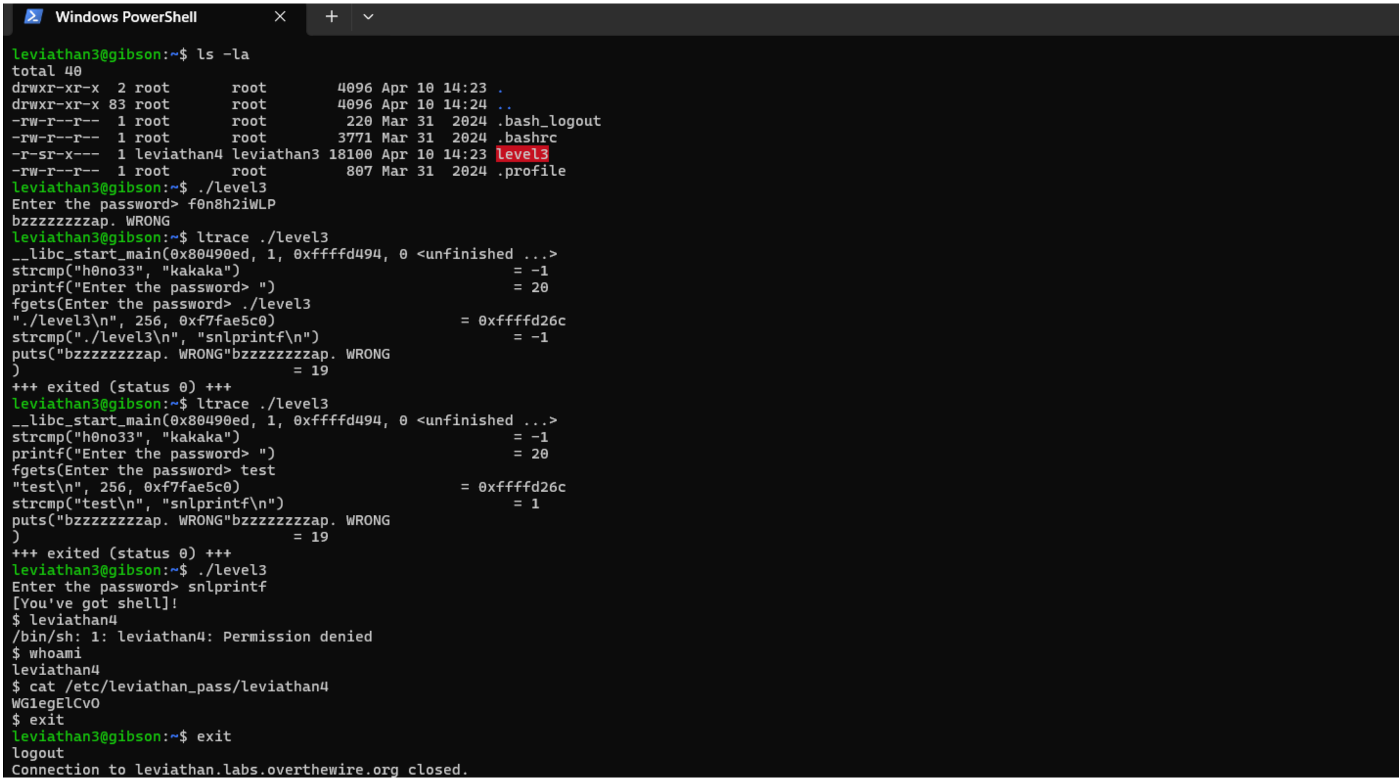
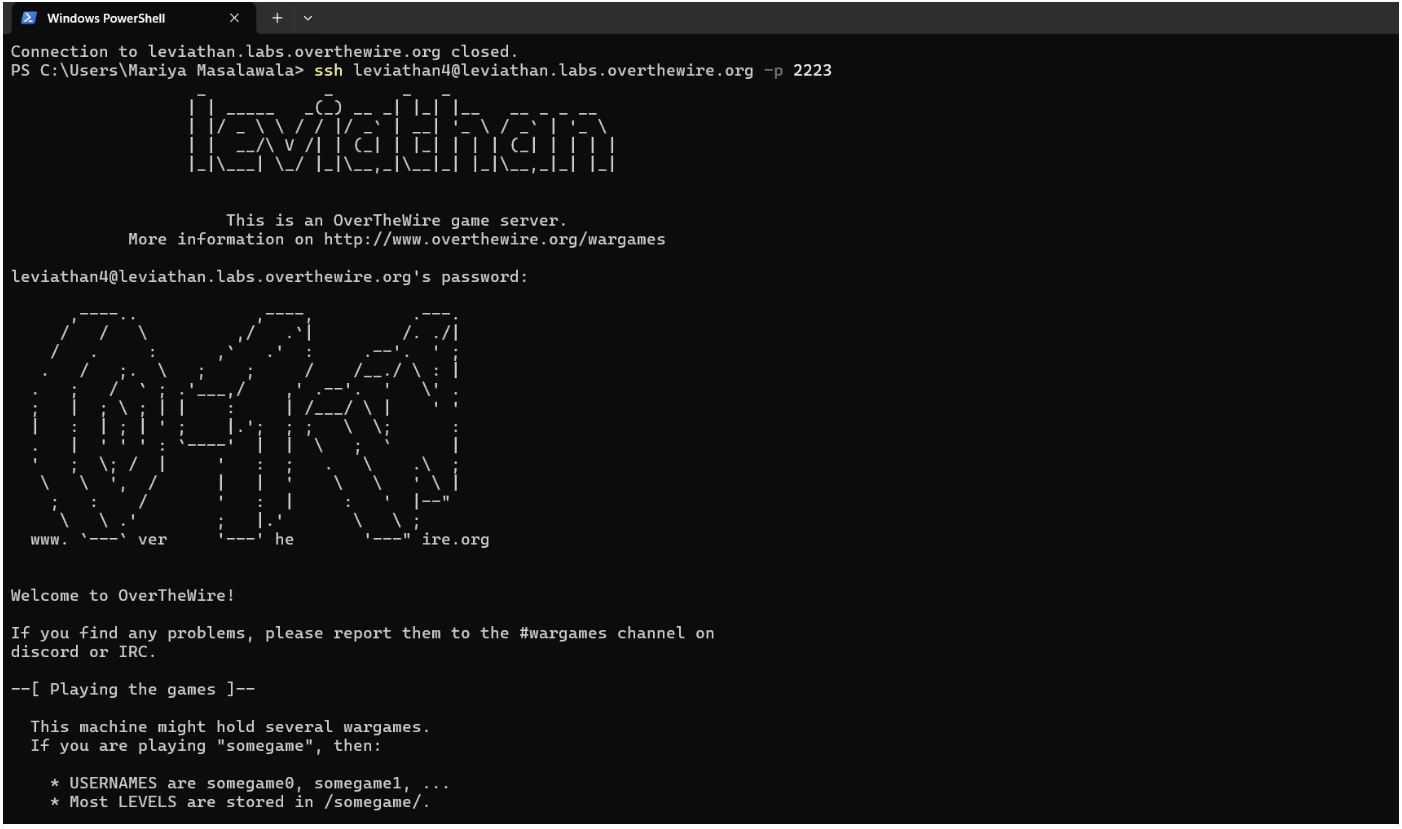



```
leviathan3@gibson:~$ ls -la
total 40
drwxr-xr-x  2 root       root        4096 Apr 10 14:23 .
drwxr-xr-x 83 root       root        4096 Apr 10 14:24 ..
-rw-r--r--  1 root       root         220 Mar 31  2024 .bash_logout
-rw-r--r--  1 root       root        3771 Mar 31  2024 .bashrc
-r-sr-x---  1 leviathan4 leviathan3 18100 Apr 10 14:23 level3
-rw-r--r--  1 root       root         807 Mar 31  2024 .profile
leviathan3@gibson:~$ ./level3
Enter the password> f0n8h2iWLP
bzzzzzzzzap. WRONG
leviathan3@gibson:~$ ltrace ./level3
__libc_start_main(0x80490ed, 1, 0xffffd494, 0 <unfinished ...>
strcmp("h0no33", "kakaka")                              = -1
printf("Enter the password> ")                          = 20
fgets(Enter the password> ./level3
"./level3\n", 256, 0xf7fae5c0)                    = 0xffffd26c
strcmp("./level3\n", "snlprintf\n")                     = -1
puts("bzzzzzzzzap. WRONG"bzzzzzzzzap. WRONG
)                                = 19
+++ exited (status 0) +++
leviathan3@gibson:~$ ltrace ./level3
__libc_start_main(0x80490ed, 1, 0xffffd494, 0 <unfinished ...>
strcmp("h0no33", "kakaka")                              = -1
printf("Enter the password> ")                          = 20
fgets(Enter the password> test
"test\n", 256, 0xf7fae5c0)                        = 0xffffd26c
strcmp("test\n", "snlprintf\n")                         = 1
puts("bzzzzzzzzap. WRONG"bzzzzzzzzap. WRONG
)                                = 19
+++ exited (status 0) +++
leviathan3@gibson:~$ ./level3
Enter the password> snlprintf
[You've got shell]!
$ leviathan4
/bin/sh: 1: leviathan4: Permission denied
$ whoami
leviathan4
$ cat /etc/leviathan_pass/leviathan4
WG1egElCvO
$ exit
leviathan3@gibson:~$ exit
logout
Connection to leviathan.labs.overthewire.org closed.
```

Level 4 to Level 5

- Step 1: SSH into the server using the password WG1egElCvO
  Command: ssh leviathan4@leviathan.labs.overthewire.org -p 2223
- Step 2: Use ls -a to list hidden files and find a .trash directory. Inside, execute bin to output binary data.
  Command: ls -la
  cd .trash/
- Step 3: Convert the binary data to ASCII
- Command: echo 01010100 01101001 01110100 01101000 00110100 01100011 01101111 01101011 01100101 01101001 00001010 | perl -lpe '$_=pack"B*",$_'
- Step 4: Retrieve the password for Level 5.
  Command: cat /etc/leviathan_pass/leviathan5

Password for Level 5: 0dyxQD



```
Connection to leviathan.labs.overthewire.org closed.
PS C:\Users\Mariya Masalawala> ssh leviathan4@leviathan.labs.overthewire.org -p 2223
                  _            _       _   _
                 | | _____   _(_) __ _| |_| |__   __ _ _ __
                 | |/ _ \ \ / / |/ _` | __| '_ \ / _` | '_ \
                 | |  __/\ V /| | (_| | |_| | | | (_| | | | |
                 |_|\___| \_/ |_|\__,_|\__|_| |_|\__,_|_| |_|


                      This is an OverTheWire game server.
            More information on http://www.overthewire.org/wargames

leviathan4@leviathan.labs.overthewire.org's password:

      ,----..            ,----,          .---.
     /   /   \         ,/   .`|         /. ./|
    /   .     :      ,`   .'  :     .--'.  ' ;
   .   /   ;.  \   ;    ;     /    /__./ \ : |
  .   ;   /  ` ; .'___,/    ,' .--'.  '   \' .
  ;   |  ; \ ; | |    :     | /___/ \ |    ' '
  |   :  | ; | ' ;    |.';  ; ;   \  \;      :
  .   |  ' ' ' : `----'  |  |  \   ;  `      |
  '   ;  \; /  |     '   :  ;   .   \    .\  ;
   \   \  ',  /      |   |  '    \   \   ' \ |
    ;   :    /       '   :  |     :   '  |--"
     \   \ .'        ;   |.'       \   \ ;
  www. `---` ver     '---' he       '---" ire.org


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--[ 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/.
```
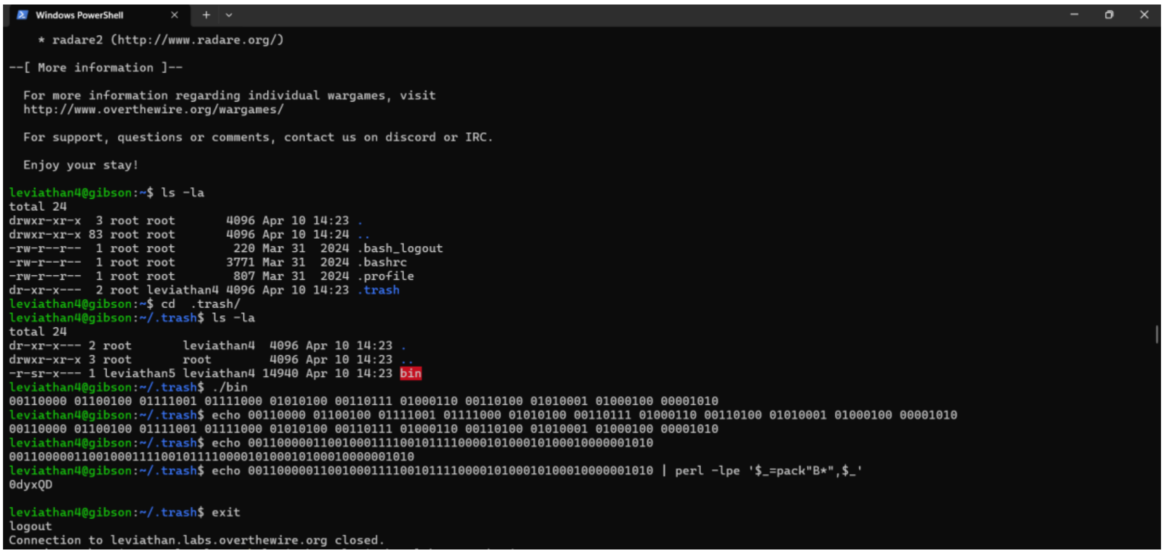
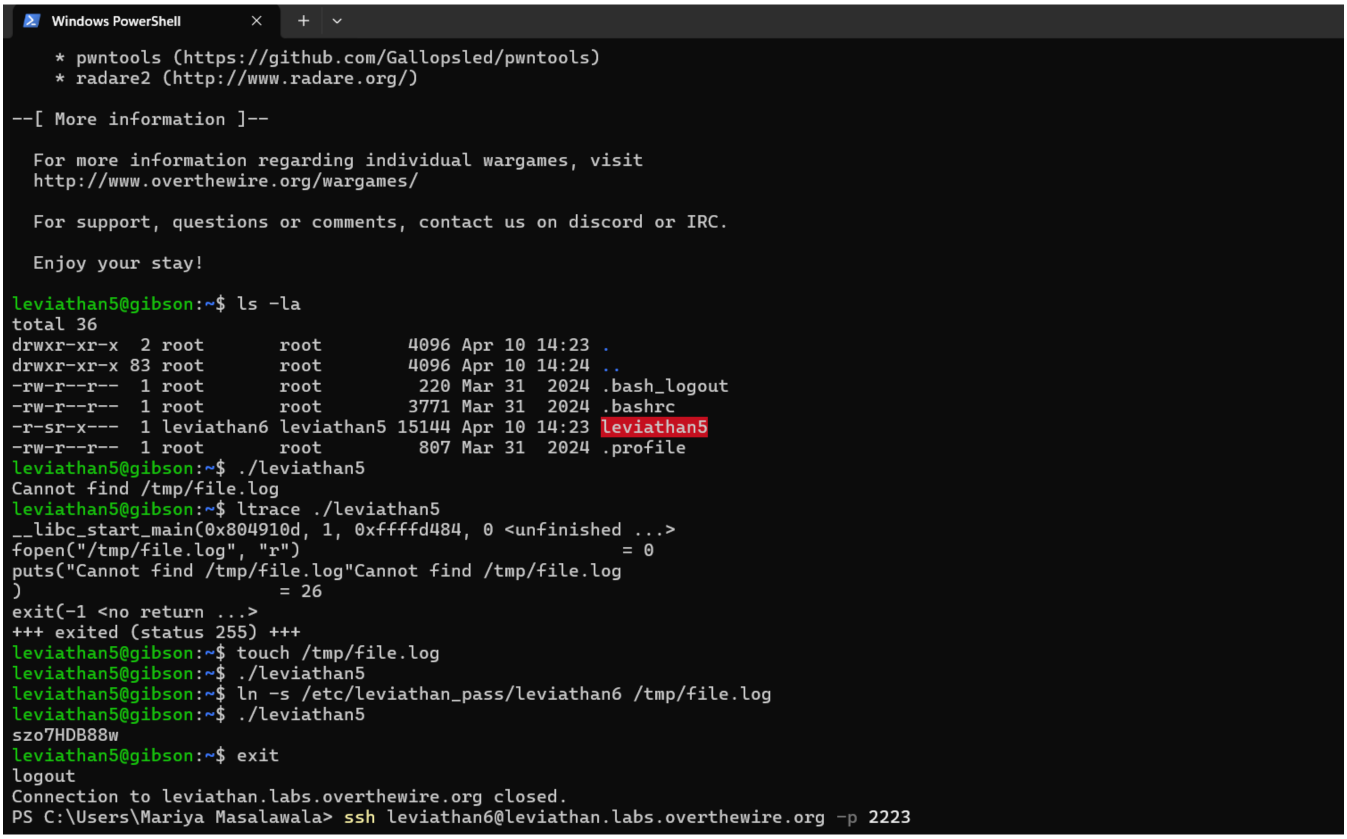



```
    * radare2 (http://www.radare.org/)

--[ More information ]--

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

  For support, questions or comments, contact us on discord or IRC.

  Enjoy your stay!

leviathan4@gibson:~$ ls -la
total 24
drwxr-xr-x  3 root root       4096 Apr 10 14:23 .
drwxr-xr-x 83 root root       4096 Apr 10 14:24 ..
-rw-r--r--  1 root root        220 Mar 31  2024 .bash_logout
-rw-r--r--  1 root root       3771 Mar 31  2024 .bashrc
-rw-r--r--  1 root root        807 Mar 31  2024 .profile
dr-xr-x---  2 root leviathan4 4096 Apr 10 14:23 .trash
leviathan4@gibson:~$ cd  .trash/
leviathan4@gibson:~/.trash$ ls -la
total 24
dr-xr-x--- 2 root       leviathan4  4096 Apr 10 14:23 .
drwxr-xr-x 3 root       root        4096 Apr 10 14:23 ..
-r-sr-x--- 1 leviathan5 leviathan4 14940 Apr 10 14:23 bin
leviathan4@gibson:~/.trash$ ./bin
00110000 01100100 01111001 01111000 01010100 00110111 01000110 00110100 01010001 01000100 00001010
leviathan4@gibson:~/.trash$ echo 00110000 01100100 01111001 01111000 01010100 00110111 01000110 00110100 01010001 01000100 00001010
00110000 01100100 01111001 01111000 01010100 00110111 01000110 00110100 01010001 01000100 00001010
leviathan4@gibson:~/.trash$ echo 0011000001100100011110010111100001010001010001000000001010
0011000001100100011110010111100001010001010001000000001010
leviathan4@gibson:~/.trash$ echo 0011000001100100011110010111100001010001010001000000001010 | perl -lpe '$_=pack"B*",$_'
0dyxQD

leviathan4@gibson:~/.trash$ exit
logout
Connection to leviathan.labs.overthewire.org closed.
```

Level 5 to Level 6

- Step 1: SSH into the server using the password 0dyxQD
  Command: ssh leviathan5@leviathan.labs.overthewire.org -p 2223
- Step 2: Create a symbolic link from /tmp/file.log to the password file for Level 6.
- Command: ln -s /etc/leviathan_pass/leviathan6 /tmp/file.log
- Step 3: Execute leviathan5 to print the password for Level 6.
- Command: ./leviathan5
- Step 4: Retrieve the password for Level 6.
  Command: cat /etc/leviathan_pass/leviathan6
- **Password for Level 6:** szo7HDB88w



```
    * pwntools (https://github.com/Gallopsled/pwntools)
    * radare2 (http://www.radare.org/)

--[ More information ]--

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

  For support, questions or comments, contact us on discord or IRC.

  Enjoy your stay!

leviathan5@gibson:~$ ls -la
total 36
drwxr-xr-x  2 root       root        4096 Apr 10 14:23 .
drwxr-xr-x 83 root       root        4096 Apr 10 14:24 ..
-rw-r--r--  1 root       root         220 Mar 31  2024 .bash_logout
-rw-r--r--  1 root       root        3771 Mar 31  2024 .bashrc
-r-sr-x---  1 leviathan6 leviathan5 15144 Apr 10 14:23 leviathan5
-rw-r--r--  1 root       root         807 Mar 31  2024 .profile
leviathan5@gibson:~$ ./leviathan5
Cannot find /tmp/file.log
leviathan5@gibson:~$ ltrace ./leviathan5
__libc_start_main(0x804910d, 1, 0xffffd484, 0 <unfinished ...>
fopen("/tmp/file.log", "r")                          = 0
puts("Cannot find /tmp/file.log"Cannot find /tmp/file.log
)                          = 26
exit(-1 <no return ...>
+++ exited (status 255) +++
leviathan5@gibson:~$ touch /tmp/file.log
leviathan5@gibson:~$ ./leviathan5
leviathan5@gibson:~$ ln -s /etc/leviathan_pass/leviathan6 /tmp/file.log
leviathan5@gibson:~$ ./leviathan5
szo7HDB88w
leviathan5@gibson:~$ exit
logout
Connection to leviathan.labs.overthewire.org closed.
PS C:\Users\Mariya Masalawala> ssh leviathan6@leviathan.labs.overthewire.org -p 2223
```

Level 6 to Level 7

Login : ssh leviathan@6leviathan.labs.overthewire.org -p 2223

Password: szo7HDB88w

--> ls -la

--> ./leviathan6

-->./leviathan6 0000

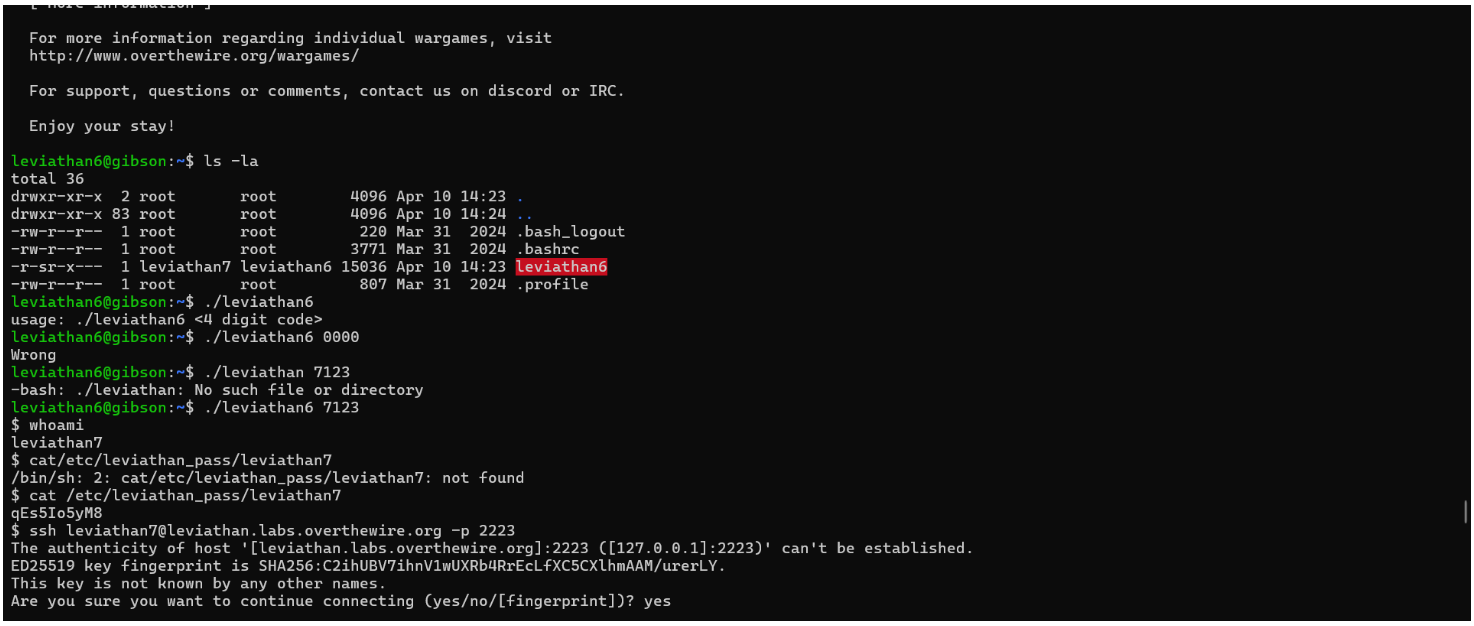
--> ./leviathan 7123

--> whoami

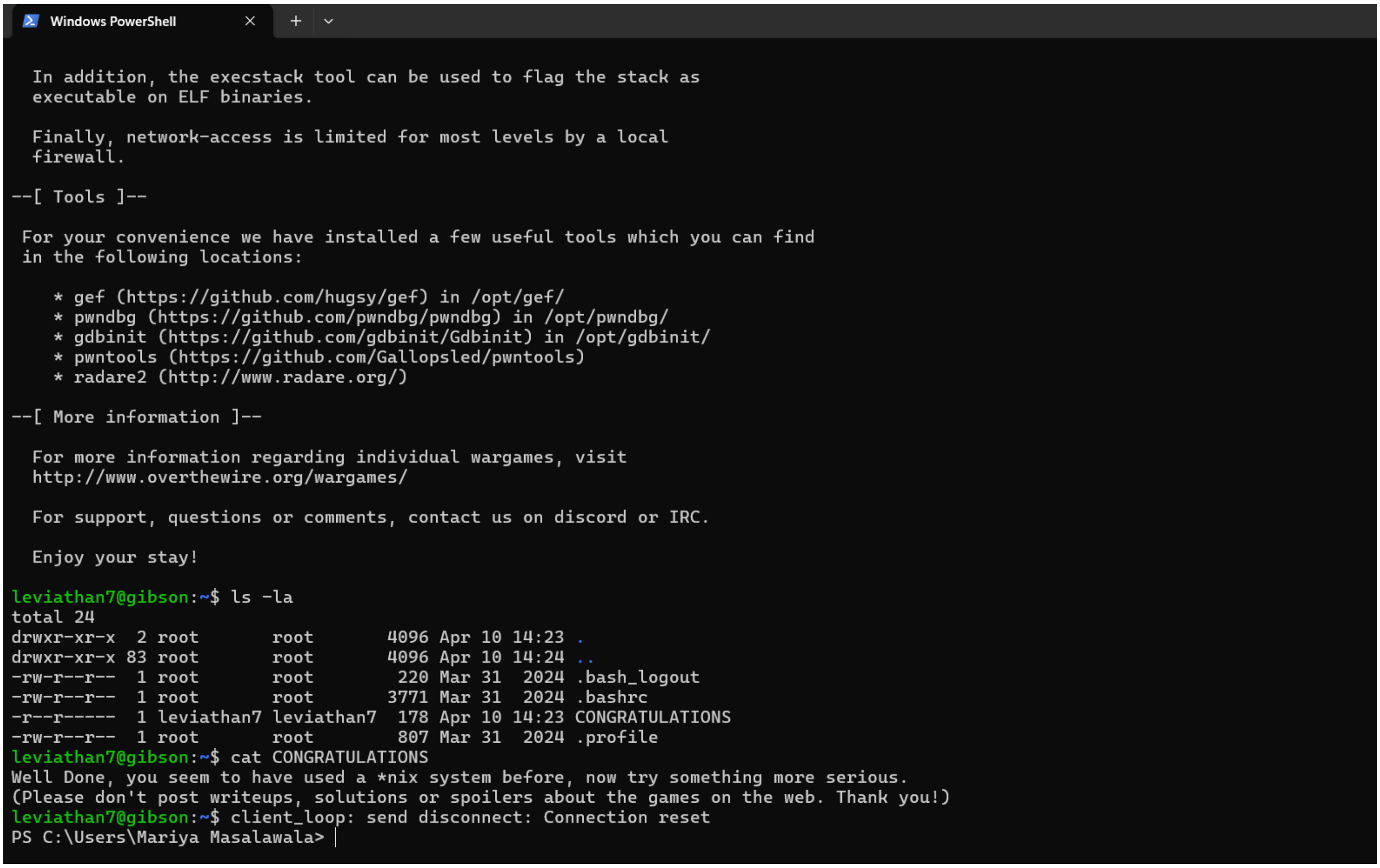
leviathan7

--> cat /etc/leviathan_pass/leviathan7

qEs5Io5yM8



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

  For support, questions or comments, contact us on discord or IRC.

  Enjoy your stay!

leviathan6@gibson:~$ ls -la
total 36
drwxr-xr-x  2 root       root        4096 Apr 10 14:23 .
drwxr-xr-x 83 root       root        4096 Apr 10 14:24 ..
-rw-r--r--  1 root       root         220 Mar 31  2024 .bash_logout
-rw-r--r--  1 root       root        3771 Mar 31  2024 .bashrc
-r-sr-x---  1 leviathan7 leviathan6 15036 Apr 10 14:23 leviathan6
-rw-r--r--  1 root       root         807 Mar 31  2024 .profile
leviathan6@gibson:~$ ./leviathan6
usage: ./leviathan6 <4 digit code>
leviathan6@gibson:~$ ./leviathan6 0000
Wrong
leviathan6@gibson:~$ ./leviathan 7123
-bash: ./leviathan: No such file or directory
leviathan6@gibson:~$ ./leviathan6 7123
$ whoami
leviathan7
$ cat/etc/leviathan_pass/leviathan7
/bin/sh: 2: cat/etc/leviathan_pass/leviathan7: not found
$ cat /etc/leviathan_pass/leviathan7
qEs5Io5yM8
$ ssh leviathan7@leviathan.labs.overthewire.org -p 2223
The authenticity of host '[leviathan.labs.overthewire.org]:2223 ([127.0.0.1]:2223)' can't be established.
ED25519 key fingerprint is SHA256:C2ihUBV7ihnV1wUXRb4RrEcLfXC5CXlhmAAM/urerLY.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
```



```
  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 useful tools which you can find
 in the following locations:

    * gef (https://github.com/hugsy/gef) in /opt/gef/
    * pwndbg (https://github.com/pwndbg/pwndbg) in /opt/pwndbg/
    * gdbinit (https://github.com/gdbinit/Gdbinit) in /opt/gdbinit/
    * pwntools (https://github.com/Gallopsled/pwntools)
    * radare2 (http://www.radare.org/)

--[ More information ]--

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

  For support, questions or comments, contact us on discord or IRC.

  Enjoy your stay!

leviathan7@gibson:~$ ls -la
total 24
drwxr-xr-x  2 root       root       4096 Apr 10 14:23 .
drwxr-xr-x 83 root       root       4096 Apr 10 14:24 ..
-rw-r--r--  1 root       root        220 Mar 31  2024 .bash_logout
-rw-r--r--  1 root       root       3771 Mar 31  2024 .bashrc
-r--r-----  1 leviathan7 leviathan7  178 Apr 10 14:23 CONGRATULATIONS
-rw-r--r--  1 root       root        807 Mar 31  2024 .profile
leviathan7@gibson:~$ cat CONGRATULATIONS
Well Done, you seem to have used a *nix system before, now try something more serious.
(Please don't post writeups, solutions or spoilers about the games on the web. Thank you!)
leviathan7@gibson:~$ client_loop: send disconnect: Connection reset
PS C:\Users\Mariya Masalawala>
```