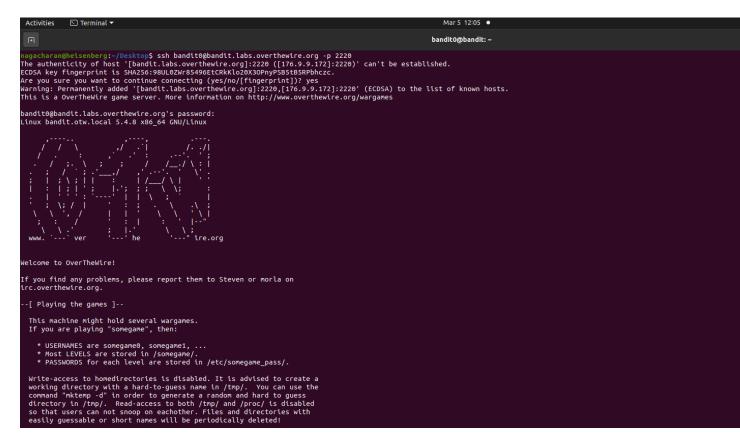
Level 0:



Level 0-1:



Level 1-2:

Level 2-3:

```
Activities

    Terminal ▼

                                                                                                                                                                      Mar 5 12:20 •
                                                                                                                                                                 bandit2@bandit: ~
  -[ Tips ]--
   This machine has a 64bit processor and many security-features enabled by default, although ASLR has been switched off. The following compiler flags might be interesting:
                                             compile for 32bit
disable ProPolice
       -m32
       -fno-stack-protector
       -Wl,-z,norelro
                                             disable relro
   In addition, the execstack tool can be used to flag the stack as
   executable on ELF binaries.
   Finally, network-access is limited for most levels by a local firewall.
 --[ Tools ]--
 For your convenience we have installed a few usefull tools which you can find
 in the following locations:
        gef (https://github.com/hugsy/gef) in /usr/local/gef/
pwndbg (https://github.com/pwndbg/pwndbg) in /usr/local/pwndbg/
peda (https://github.com/longld/peda.git) in /usr/local/peda/
gdbinit (https://github.com/gdbinit/Gdbinit) in /usr/local/gdbinit/
pwntools (https://github.com/Gallopsled/pwntools)
radare2 (http://www.radare.org/)
checksec.sh (http://www.trapkit.de/tools/checksec.html) in /usr/local/bin/checksec.sh
 --[ More information ]--
   For more information regarding individual wargames, visit
   http://www.overthewire.org/wargames/
   For support, questions or comments, contact us through IRC on irc.overthewire.org \ensuremath{\text{\#wargames}} .
   Enjoy your stay!
 oandit2@bandit:~$ ls
spaces in this filename
  andit2@bandit:~$ cat spaces\ in\ this\ filename
UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK
bandit2@bandit:~$
```

Level 3-4:

```
Activities

    Terminal ▼
                                                                                                                                                   Mar 5 12:22 •
                                                                                                                                          bandit3@bandit: ~/inhere
  compiler flags might be interesting:
                                        compile for 32bit
disable ProPolice
      -fno-stack-protector
                                        disable relro
      -Wl,-z,norelro
   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!
bandit3@bandit:~$ ls
 bandit3@bandit:~$ cd inhere/
bandit3@bandit:~/inhere$ ls
bandit3@bandit:~/inhere$ find
./.hidden
bandit3@bandit:~/inhere$ cat ./.hidden
pIwrPrtPN36QITSp3EQaw936yaFoFgAB
 andit3@bandit:~/inhere$
```

Level 5-6:

Level 6-7:

```
Activities

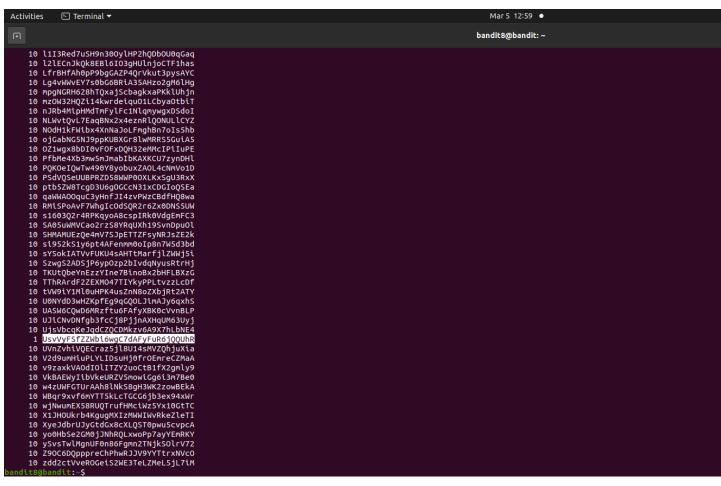
    Terminal ▼

                                                                                                                                                                                                               Mar 5 12:48 •
                                                                                                                                                                                                          bandit6@bandit: ~
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-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/5-bandit9': Permission denied
find: '/run/screen/5-bandit28': Permission denied
find: '/run/screen/5-bandit18': Permission denied
find: '/run/screen/S-bandit20': Permission denied find: '/run/screen/S-bandit12': Permission denied
find: '/run/screen/5-bandit5': Permission dented
find: '/run/screen/5-bandit7': Permission dented
find: '/run/screen/5-bandit16': Permission dented
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-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-bandit14': Permission denied
find: '/run/screen/S-bandit13': Permission denied find: '/run/screen/S-bandit13': Permission denied
find: '/run/screen/5-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
  oandit6@bandit:~$
```

Level 7-8:

```
Terminal ▼
  Activities
                                                                                                                                                                                                           Mar 6 20:25 •
                                                                                                                                                                                                    bandit7@bandit: ~
  --[ Tips ]--
    This machine has a 64bit processor and many security-features enabled by default, although ASLR has been switched off. The following compiler flags might be interesting:
                                                  compile for 32bit
disable ProPolice
disable relro
         -m32
        -fno-stack-protector
        -Wl,-z,norelro
    In addition, the execstack tool can be used to flag the stack as executable on \ensuremath{\mathsf{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!
bandit7@bandit:~$ ls
data.txt
  andit7gbandit:~$ sort data.txt | grep "millionth"
nillionth cvX2JJa4CFALtqS87jk27qwqGhBM9plV
nandit7gbandit:~$
```

Level 8-9:



Level 9-10:

```
Activities ► Terminal ▼
                                                                                         Mar 5 13:02 •
                                                                                      bandit9@bandit: ~
) • • ] • E • • • } R • :
``
«Jó~oo~KW?ooorPooo]o@ooooob#Nzx$boooho_):ooF"oKooBvZo)&okoRoo!ovXou(oo#yoodoo}o.HoooRlG#t]Z}ooooGo_ooC#
                                                                                                                      ◆Lt◆◆◆C◆zKze790◆g
w080-0r0_G0P,.000f#00l00000J)000
ele@e}6eE+ e
:ehee:eeoee|eeoeze
eIe@e}6eE+ +
:ehee:eeoee|eeoeze
3eeIDeeoRUYeeoneGeReeJzV1OokeSeXEgpe{eeo_3"gee^eeo&e'ee4eSee6Me
猍^je@
Oooooā>eefHbs?}eeGeeo,5keeoeo
                           ••.•XI`;••3•••B•A -•••hX7••Nwk•x•••G:•K•s••••U•••
                                                                                          e<eeT;eeM"WeAe8eeee6eQeee@+elce~eeie2Q dez
                                                                                                                               ♦@♦XB'♦
a'b-oo[0ÙjCoobxBB\uSooooo6UoLoEoonoo!o:]#oo^Qoo-oTooow(odooooo`oo'o
aZo}06Rop0ooooaooS+\oYsooocoa5aooooo-!o}Wno[Njvooo6>foo[Ndoomou/oooxoooo%T0o
                                                                      9+2]++Dh+++8Zpc
                                                                                          SFOxF[eee@U4eNe)eeee]ee/eeCeefeYiXfeeeeeK<e:eeeee
ooooool'Eoo>oBs
ooZoo!o%o^oot>o 'oa~oPooUoooooK}L
                            epeL e!eyeeAe
Ge%ed
  •?\<del>••7•••</del>}••'6
                     ,"00%060.00D70X00CV0U
Deleteolog'eook;Zee/eooohog1re)<[e3XB(eo<@G@eootle{_.eove%eooG eoom@eoo@eo!`o ooLoo.Woo>oo@eWoooooovegoooHDe1KOANooooookQof,eo7obandit9@bandit:~$
bandit9@bandit:~$ strings data.txt | grep "="
======== the*2i"4
=:G e
 ====== password
<I=zsGi
      ===== is
A=|t&E
Zdb=
c^ LAh=3G
*SF=s
     truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk
S=A.H&^
 andit9@bandit:~$
```

Level 10-11:

```
Mar 5 13:05 •
 Activities

    Terminal ▼

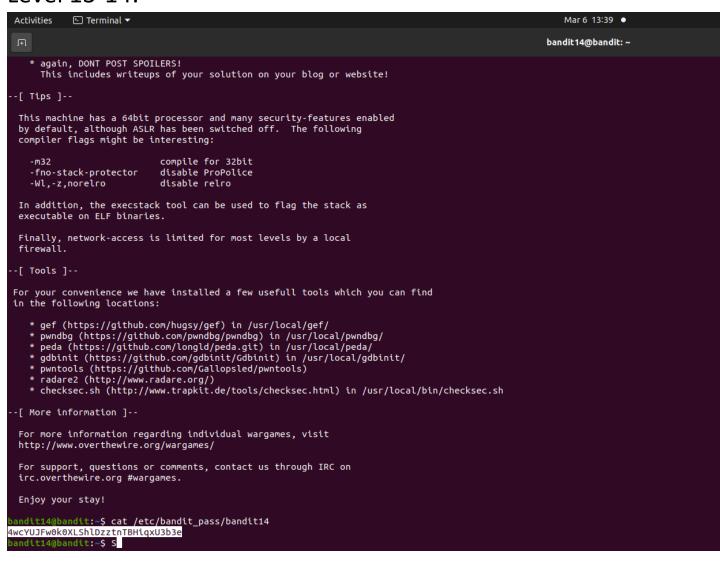
                                                                                                                                                 bandit10@bandit: ~
  compile for 32bit
disable ProPolice
disable relro
     -fno-stack-protector
-Wl,-z,norelro
  In addition, the execstack tool can be used to flag the stack as
  executable on ELF binaries.
  Finally, network-access is limited for most levels by a local firewall.
 -[ Tools ]--
* gef (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!
 andit10@bandit:~$ ls
data.txt
              pandit:~$ base64 data.txt
VkdobElIQmhjM04zYjNKa0lHbHpJRWxHZFd0M1MwZHpSbGM0VFU5eE0wbFNSbkZ5ZUVVeGFIaFVU
a1ZpVlZCŪ0NnPT0K
  andit10@bandit:~$ man base64
andit10@bandit:~$ base64 -d data.txt
The password is <a href="IFukwKGsFW8M0q3IRFqrxE1hxTNEbUPR">IFukwKGsFW8M0q3IRFqrxE1hxTNEbUPR</a>
 andit10@bandit:~$
```

Level 11-12:

Level 12-13:

Activities Terminal ▼ Mar 6 13:32 • bandit12@bandit: /tmp/Nagacharan pandit12@bandit:/tmp/Nagacharan\$ mv file file.gz pandit12@bandit:/tmp/Nagacharan\$ gzip -d file.gz pandit12@bandit:/tmp/Nagacharan\$ mv file file.tar oandit12@bandit:/tmp/Nagacharan\$ tar xf file.tar bandit12@bandit:/tmp/Nagacharan\$ file file
file: cannot open `file' (No such file or directory) andit12@bandit:/tmp/Nagacharan\$ ls data5.bin data.txt andit12@bandit:/tmp/Nagacharan\$ file data data: cannot open 'data' (No such file or directory)
bandit12@bandit:/tmp/Nagacharan\$ file data5.bin data5.bin: POSIX tar archive (GNU) bandit12@bandit:/tmp/Nagacharan\$ rm file.tar bandit12@bandit:/tmp/Nagacharan\$ rm data.txt bandit12@bandit:/tmp/Nagacharan\$ mv data5.bin data.tar bandit12@bandit:/tmp/Nagacharan\$ tar xf data.tar bandit12@bandit:/tmp/Nagacharan\$ file data6.bin data6.bin: bzip2 compressed data, block size = 900k bandit12@bandit:/tmp/Nagacharan\$ ls data6.bin bandit12@bandit:/tmp/Nagacharan\$ mv data6.bin data.bz2 bandit12@bandit:/tmp/Nagacharan\$ bzip2 -d data.bz2 bandit12@bandit:/tmp/Nagacharan\$ ls data data data.com
bandit12@bandit:/tmp/Nagacharan\$ file datat
datat: cannot open 'datat' (No such file or directory)
bandit12@bandit:/tmp/Nagacharan\$ mv data data.tar
bandit12@bandit:/tmp/Nagacharan\$ ls bandit12@bandit:/tmp/Nagacharan\$ tar xf data.tar pandit12@bandit:/tmp/Nagacharan\$ ls data8.bin bandit12@bandit:/tmp/Nagacharan\$ 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/Nagacharan\$ mv data8.bin data.gz
bandit12@bandit:/tmp/Nagacharan\$ ls bandit12@bandit:/tmp/Nagacharan\$ gzip -d data.gz bandit12@bandit:/tmp/Nagacharan\$ ls data pandit12@bandit:/tmp/Nagacharan\$ file data data: ASCII text andit12@bandit:/tmp/Nagacharan\$ cat data The password is 8ZjyCRiBWFYkneahHwxCv3wb2a10RpYL

Level 13-14:



Level 14-15:

```
Activities

    Terminal ▼

                                                                                                                             Mar 6 13:42 •
                                                                                                                         bandit14@bandit: ~
  by default, although ASLR has been switched off. The following
  compiler flags might be interesting:
                                  compile for 32bit
    -fno-stack-protector
                                  disable ProPolice
    -Wl,-z,norelro
                                 disable relro
  In addition, the execstack tool can be used to flag the stack as
  executable on ELF binaries.
  Finally, network-access is limited for most levels by a local
  firewall.
--[ Tools ]--
 For your convenience we have installed a few usefull tools which you can find
 in the following locations:
    * gef (https://github.com/hugsy/gef) in /usr/local/gef/
    * pwndbg (https://github.com/pwndbg/pwndbg) in /usr/local/pwndbg/
* peda (https://github.com/longld/peda.git) in /usr/local/peda/
* gdbinit (https://github.com/gdbinit/Gdbinit) in /usr/local/gdbinit/
    * pwntools (https://github.com/Gallopsled/pwntools)
* radare2 (http://www.radare.org/)
* checksec.sh (http://www.trapkit.de/tools/checksec.html) in /usr/local/bin/checksec.sh
--[ More information ]--
  For more information regarding individual wargames, visit
  http://www.overthewire.org/wargames/
  For support, questions or comments, contact us through IRC on
  irc.overthewire.org #wargames.
  Enjoy your stay!
pandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e
bandit14@bandit:~$ ls
bandit14@bandit:~$ nc localhost 30000
4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e
Correct!
BfMYroe26WYalil77FoDi9qh59eK5xNr
pandit14@bandit:~$
```

Level 15-16:

 Terminal ▼ Mar 6 13:46 • Activities bandit15@bandit: ~ compiler flags might be interesting: compile for 32bit disable ProPolice disable relro -fno-stack-protector -Wl,-z,norelro 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! bandit15@bandit:-\$ cat /etc/bandit_pass/bandit15
BfMYroe26WYalil77FoDi9qh59eK5xNr pandit15@bandit:~\$ ncat ssl localhost 30001 Ncat: Could not resolve hostname "ssl": No address associated with hostname. QUITTING. bandit15@bandit:~\$ ncat --ssl localhost 30001 BfMYroe26WYalil77FoDi9qh59eK5xNr Correct! cluFn7wTiGryunymYOu4RcffSxQluehd