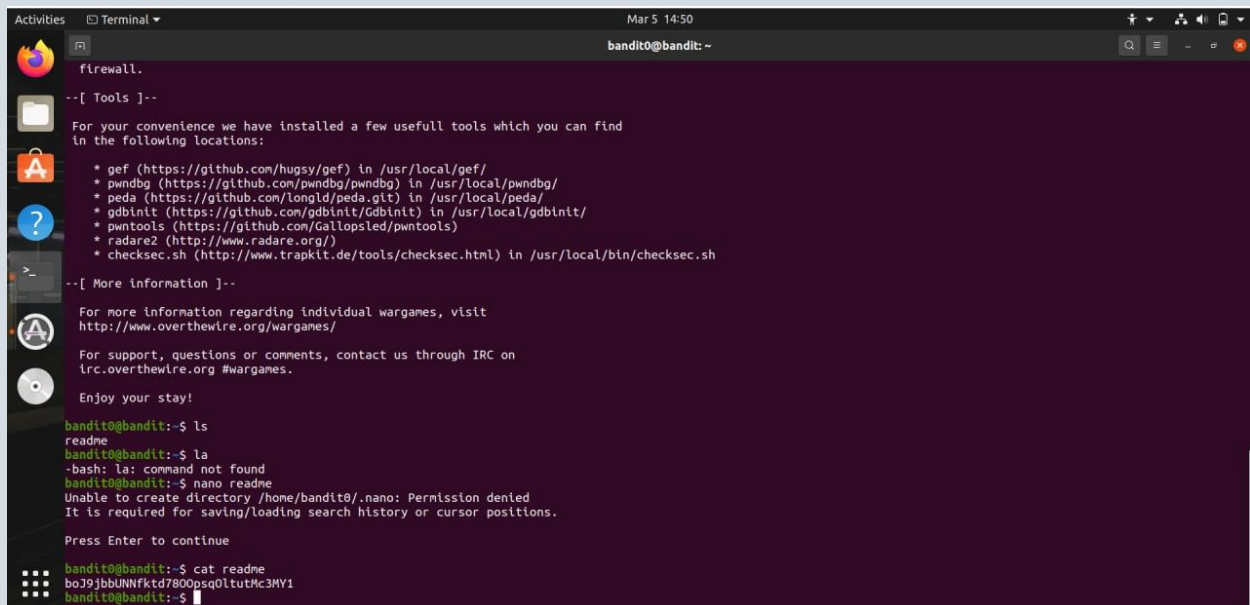


Cognizance-preliminary TASK 7

- Jai Chiranjeeva

First , Let's connect to bandit0 as per the instructions in overthewire website level0.

Level 0 → Level 1



```
bandit0@bandit: ~  
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) in /usr/local/pwntools/  
* radare2 (http://www.radare.org/) in /usr/local/bin/radare2  
* 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:~$ la  
-bash: la: command not found  
bandit0@bandit:~$ nano readme  
Unable to create directory /home/bandit0/.nano: Permission denied  
It is required for saving/loading search history or cursor positions.  
Press Enter to continue  
bandit0@bandit:~$ cat readme  
boJ9jbbUNNfktd7800psq0ltutMc3MY1  
bandit0@bandit:~$
```

After connecting and checking its readme file , we have got the password for bandit1.

∴ Password for bandit1: boJ9jbbUNNfktd7800psq0ltutMc3MY1

Level 1 → Level 2

```
Activities Terminal Mar 5 14:55 bandit1@bandit: ~
* gdbinit (https://github.com/gdbinit/Gdbinit) in /usr/local/gdbinit/
* pwntools (https://github.com/Gallopsled/pwntools)
* radare2 (http://www.radare.org/)
* checksec.sh (http://www.trapkit.de/tools/checksec.html) in /usr/local/bin/checksec.sh

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

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

Enjoy your stay!

bandit1@bandit:~$ ls
-
bandit1@bandit:~$ la
-bash: la: command not found
bandit1@bandit:~$ cd -
-bash: cd: OLDPWD not set
bandit1@bandit:~$ nano
Unable to create directory /home/bandit1/.nano: Permission denied
It is required for saving/loading search history or cursor positions.

Press Enter to continue

Reading from stdin, ^C to abort
Directory '.' is not writable
stdin: Interrupted system call
bandit1@bandit:~$ ls -l
total 4
-rw-r----- 1 bandit2 bandit1 33 May  7 2020 -
bandit1@bandit:~$ cat -
^X^C
bandit1@bandit:~$ cat < -
CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9
bandit1@bandit:~$
```

∴ Password for bandit2: CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9

Level 2 → Level 3

```
Activities Terminal Mar 5 14:59 bandit2@bandit: ~
--[ 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!

bandit2@bandit:~$ ls
spaces in this filename
bandit2@bandit:~$ la
-bash: la: command not found
bandit2@bandit:~$ nano
.bash_logout .bashrc .profile spaces in this filename
bandit2@bandit:~$ nano spaces\ in\ this\ filename
Unable to create directory /home/bandit2/.nano: Permission denied
It is required for saving/loading search history or cursor positions.

Press Enter to continue

bandit2@bandit:~$ cat < spaces\ in\ this\ filename
UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK
bandit2@bandit:~$
```

∴ Password for bandit3: UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK

Level 3 → Level 4

```
Activities Terminal Mar 5 15:01 bandit3@bandit: ~/inhere

* gef (https://github.com/hugsy/gef) in /usr/local/gef/
* pwndbg (https://github.com/pwndbg/pwndbg) in /usr/local/pwndbg/
* peda (https://github.com/longld/peda.git) in /usr/local/peda/
* gdbinit (https://github.com/gdbinit/Gdbinit) in /usr/local/gdbinit/
* pwntools (https://github.com/Gallopsled/pwntools)
* radare2 (http://www.radare.org/)
* checksec.sh (http://www.trapkit.de/tools/checksec.html) in /usr/local/bin/checksec.sh

--[ More information ]--

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

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

Enjoy your stay!

bandit3@bandit:~$ ls
inhere
bandit3@bandit:~$ la
-bash: la: command not found
bandit3@bandit:~$ cd inhere/
bandit3@bandit:~/inhere$ ls
bandit3@bandit:~/inhere$ la
-bash: la: command not found
bandit3@bandit:~/inhere$ du
8
bandit3@bandit:~/inhere$ nano .hidden
Unable to create directory /home/bandit3/.nano: Permission denied
It is required for saving/loading search history or cursor positions.

Press Enter to continue

bandit3@bandit:~/inhere$ cat .hidden
pIwRPrTPN36QITSp3EQaw936yaFoFgAB
bandit3@bandit:~/inhere$
```

∴ Password for bandit4: pIwRPrTPN36QITSp3EQaw936yaFoFgAB

Level 4 → Level 5

```
Activities Terminal Mar 5 15:03 bandit4@bandit: ~/inhere

* 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/

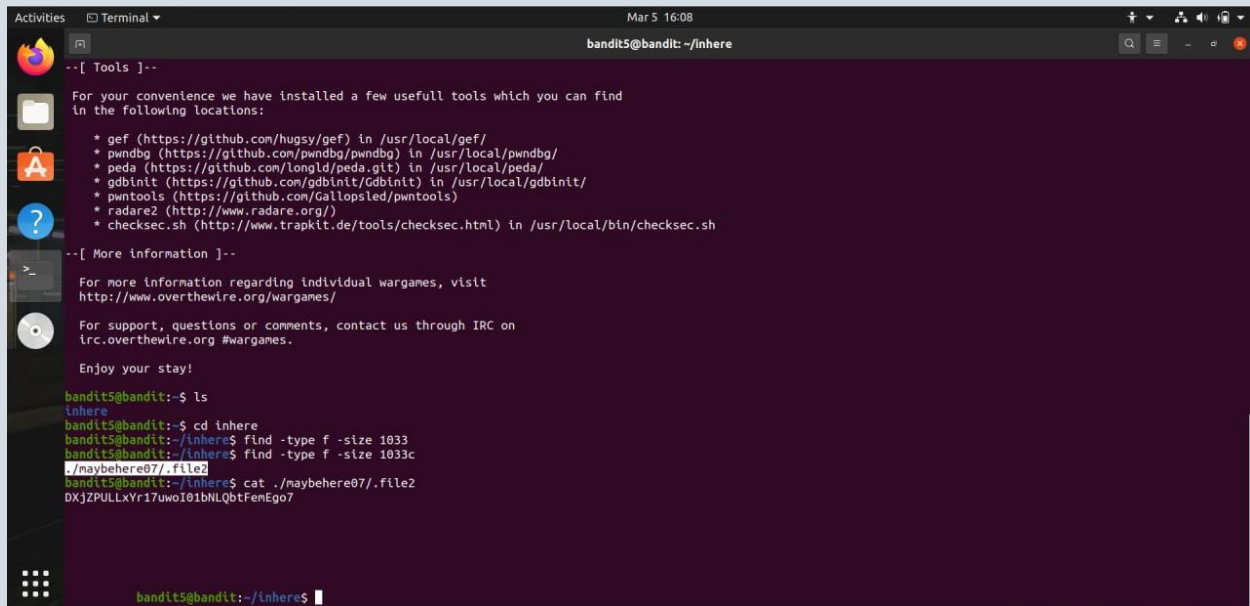
For support, questions or comments, contact us through IRC on
irc.overthewire.org #wargames.

Enjoy your stay!

bandit4@bandit:~$ ls
inhere
bandit4@bandit:~$ cd inhere/
bandit4@bandit:~/inhere$ ls
-file00 -file01 -file02 -file03 -file04 -file05 -file06 -file07 -file08 -file09
bandit4@bandit:~/inhere$ cat < -file0
-bash: -file0: No such file or directory
bandit4@bandit:~/inhere$ cat < -file00
e/'2r4%erL-5eg000 0000bandit4@bandit:~/inhere$ cat < -file01
00p,ke;00"00 0.100C00J 0dx,0bandit4@bandit:~/inhere$ cat < -file02
00)000000
000000V0 000000bandit4@bandit:~/inhere$ cat < -file03
000000h!TQ00 04"0P70hT00,0bandit4@bandit:~/inhere$ cat < -file04
?0bandit4@bandit:~/inhere$ cat < -file05
00e150?h09('000!y000000000000bandit4@bandit:~/inhere$ cat < -file06
ly000000000000E0{0000000000bandit4@bandit:~/inhere$ cat < -file07
koReBOKuIDDepwhWk7jZC0RTdopnAYKh
bandit4@bandit:~/inhere$ cat < -file08
0T07000j00lP0F00000000000000bandit4@bandit:~/inhere$ cat < -file09
00000000000000SF00P75ze0gNbandit4@bandit:~/inhere$
bandit4@bandit:~/inhere$ cat < -file07
koReBOKuIDDepwhWk7jZC0RTdopnAYKh
bandit4@bandit:~/inhere$
```

∴ Password for bandit5: koReBOKuIDDepwhWk7jZC0RTdopnAYKh

Level 5 → Level 6



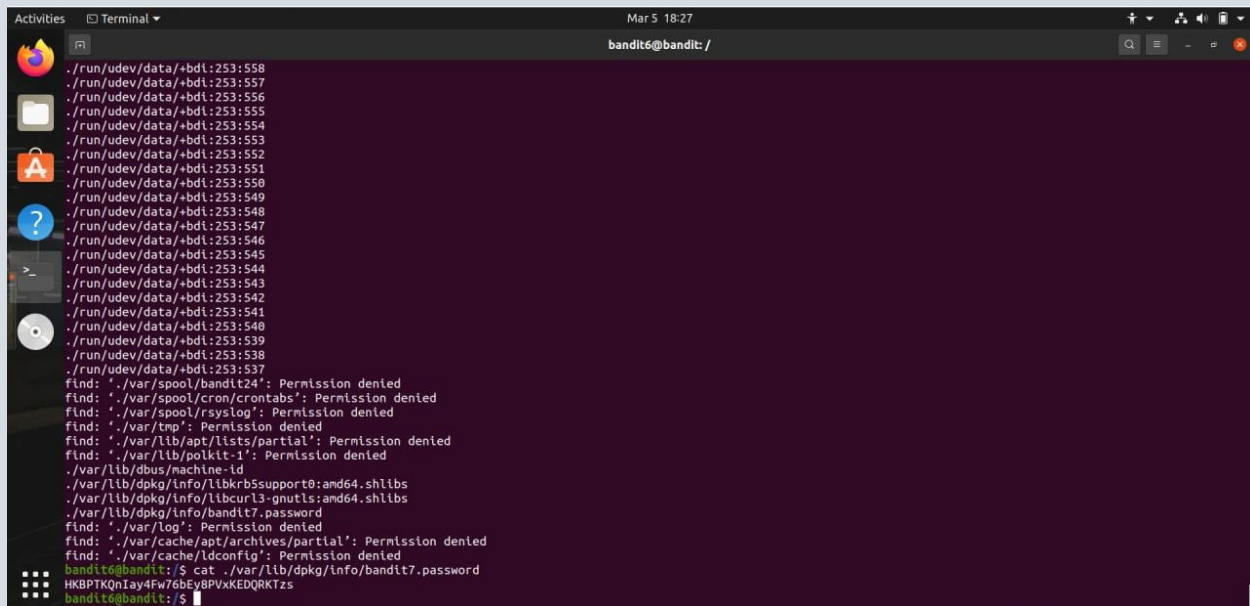
```
bandit5@bandit: ~/inhere
--[ Tools ]--
For your convenience we have installed a few usefull tools which you can find
in the following locations:
* gef (https://github.com/hugsy/gef) in /usr/local/gef/
* pwndbg (https://github.com/pwndbg/pwndbg) in /usr/local/pwndbg/
* peda (https://github.com/longld/peda.git) 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!

bandit5@bandit:~$ ls
inhere
bandit5@bandit:~$ cd inhere
bandit5@bandit:~/inhere$ find -type f -size 1033
bandit5@bandit:~/inhere$ find -type f -size 1033c
./maybeh ere07/.file2
bandit5@bandit:~/inhere$ cat ./maybeh ere07/.file2
DXjZPULLxYr17uwoI01bNLQbtFemEgo7

bandit5@bandit:~/inhere$
```

∴ Password for bandit6: DXjZPULLxYr17uwoI01bNLQbtFemEgo7

Level 6 → Level 7

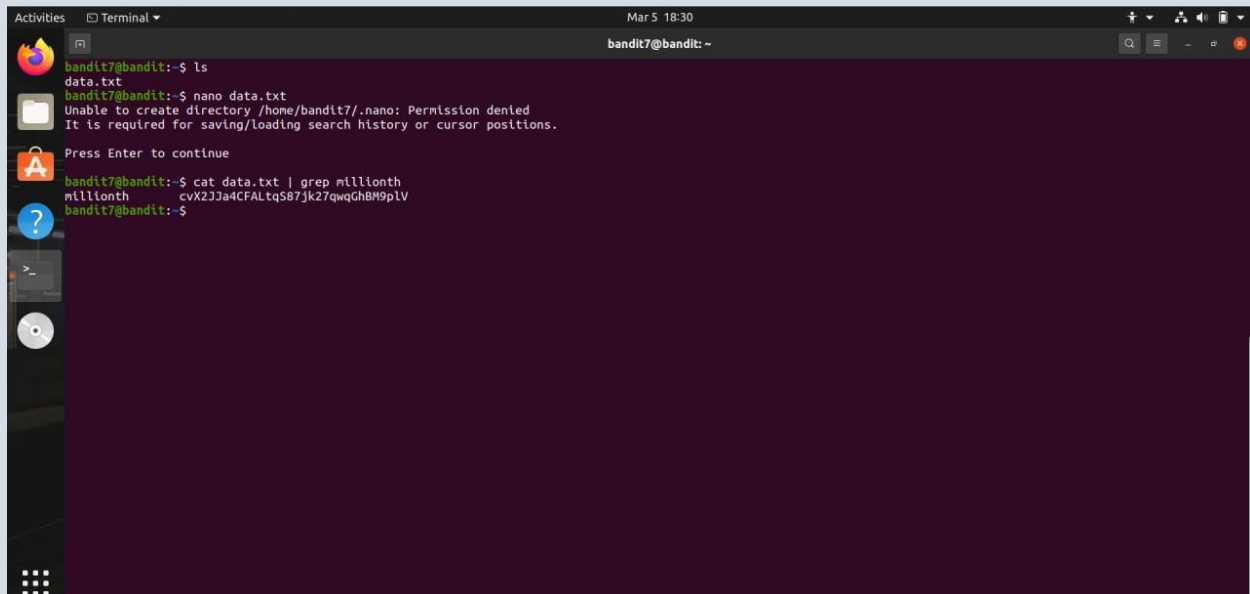


```
bandit6@bandit: /
./run/udev/data/+bdl:253:558
./run/udev/data/+bdl:253:557
./run/udev/data/+bdl:253:556
./run/udev/data/+bdl:253:555
./run/udev/data/+bdl:253:554
./run/udev/data/+bdl:253:553
./run/udev/data/+bdl:253:552
./run/udev/data/+bdl:253:551
./run/udev/data/+bdl:253:550
./run/udev/data/+bdl:253:549
./run/udev/data/+bdl:253:548
./run/udev/data/+bdl:253:547
./run/udev/data/+bdl:253:546
./run/udev/data/+bdl:253:545
./run/udev/data/+bdl:253:544
./run/udev/data/+bdl:253:543
./run/udev/data/+bdl:253:542
./run/udev/data/+bdl:253:541
./run/udev/data/+bdl:253:540
./run/udev/data/+bdl:253:539
./run/udev/data/+bdl:253:538
./run/udev/data/+bdl:253:537
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/pamkit-1': Permission denied
./var/lib/dbus/machine-id
./var/lib/dpkg/info/libkrb5support0:amd64.shlibs
./var/lib/dpkg/info/libcurl3-gnutls:amd64.shlibs
./var/lib/dpkg/info/bandit7.password
find: './var/log': Permission denied
find: './var/cache/apt/archives/partial': Permission denied
find: './var/cache/ldconfig': Permission denied
bandit6@bandit:~$ cat ./var/lib/dpkg/info/bandit7.password
HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs

bandit6@bandit:~$
```

∴ Password for bandit7: HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs

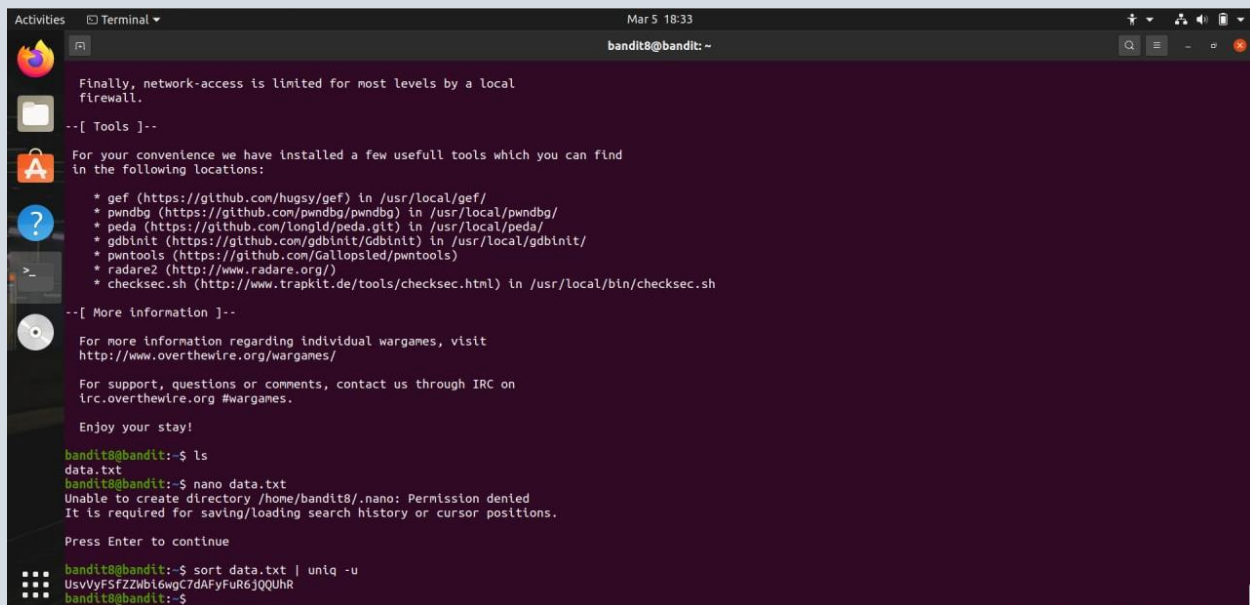
Level 7 → Level 8

A terminal window titled 'bandit7@bandit: ~' showing the process of finding a password. The user lists files, attempts to create a directory for nano, and then uses grep to find a password in a file named data.txt.

```
bandit7@bandit:~$ ls
data.txt
bandit7@bandit:~$ nano data.txt
Unable to create directory /home/bandit7/.nano: Permission denied
It is required for saving/loading search history or cursor positions.
Press Enter to continue
bandit7@bandit:~$ cat data.txt | grep millionth
millionth      cvX2JJJa4CFALtqS87jk27qwqGhBM9pIV
bandit7@bandit:~$
```

∴ Password for bandit8: cvX2JJJa4CFALtqS87jk27qwqGhBM9pIV

Level 8 → Level 9

A terminal window titled 'bandit8@bandit: ~' displaying a message about network access and a list of tools. The user then lists files and attempts to create a directory for nano, which fails due to permission issues. Finally, they use sort and uniq to find a password in data.txt.

```
bandit8@bandit:~$ ls
data.txt
bandit8@bandit:~$ nano data.txt
Unable to create directory /home/bandit8/.nano: Permission denied
It is required for saving/loading search history or cursor positions.
Press Enter to continue
bandit8@bandit:~$ sort data.txt | uniq -u
UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUHR
bandit8@bandit:~$
```

∴ Password for bandit9: UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUHR

Level 9 → Level 10

```
Activities Terminal Mar 5 18:40
bandit9@bandit: ~
e?7ee7eeee?ee'6 "e8%6e.eeD7xXeeCyeU
eeD1eeANYwPCpkZg'eeeeIHue?e-eHae.DeeH;nShieeyeeefJee,eeXk]Eeg)ee5e\ee/_eeqceX\''Ko'eeeiNe@eTeekSabh]s8eeeeeMDew(e?e)'eYeZee71UeeSeJeeceZeeP'uPeCee4;belee8ee.eDeeD}
[eo-eZee eeleeJeeUMCe@jeb1eeeeeB]CheRUeeP@jeeee(eeeeeeeeee eeHieeJee-A:beF2ee5UeeeeeB;lee
?D]eJeeleeexj3eHee-eqe2eeZ$#en;eeesi/aeHie/ePeeeRs et\eeee[eeeb*eeeeee eeSeeeFee@2eSe7eAeeeee*ezHReB-e@epee]eeceeeZeeAe:/peTee KAesCTYeeSeeeZ/1x+eBoUeej8ze
?eeeee
e33)eeeeLnzeewSe^eeef)SeeeeeeFdeee:e7eReeeXe(ie2eeE+nee@e
Deleeeleoe'eeek;Zee/eeehoe1re)<[e3XB(ee<@Geeeele[.eeve%eeeg eeenDeeeDee!' eeLee.Hee>eeHieeeeeeeveeeeeHDe1KOANeeeeeKQef,ee7ebandit9@bandit:~$ cat data.txt |grep =
Binary file (standard input) matches
bandit9@bandit:~$ cat data.txt |grep '='
Binary file (standard input) matches
bandit9@bandit:~$ nano data.txt
Unable to create directory /home/bandit9/.nano: Permission denied
It is required for saving/loading search history or cursor positions.
Press Enter to continue
bandit9@bandit:~$ nano data.txt
Unable to create directory /home/bandit9/.nano: Permission denied
It is required for saving/loading search history or cursor positions.
Press Enter to continue
bandit9@bandit:~$ cat data.txt |grep "="
Binary file (standard input) matches
bandit9@bandit:~$ man strings
bandit9@bandit:~$ strings data.txt | grep =
===== the*2L^4
=:G e
===== password
<I=zsGf
Z)====== is
A=lt&E
Zdb=
c^ LAh=3G
*SF=s
&===== truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk
S=A.H&^
bandit9@bandit:~$
```

∴ Password for bandit10: truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk

Level 10 → Level 11

```
Activities Terminal Mar 5 21:26
bandit10@bandit: ~
executable on ELF binaries.

Finally, network-access is limited for most levels by a local
firewall.

--[ Tools ]--
For your convenience we have installed a few usefull tools which you can find
in the following locations:

* gef (https://github.com/hugsy/gef) in /usr/local/gef/
* pwndbg (https://github.com/pwndbg/pwndbg) in /usr/local/pwndbg/
* peda (https://github.com/longld/peda.git) in /usr/local/peda/
* gdbinit (https://github.com/gdbinit/Gdbinit) in /usr/local/gdbinit/
* pwntools (https://github.com/Gallopsled/pwntools)
* radare2 (http://www.radare.org/)
* checksec.sh (http://www.trapkit.de/tools/checksec.html) in /usr/local/bin/checksec.sh

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

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

Enjoy your stay!

bandit10@bandit:~$ ls
data.txt
bandit10@bandit:~$ cat data.txt
VghlIHBhc3N3b3JkIGlzIElGdWt3S0dzRlc4TU9xM0lSRnFyeEUxaHhUTkVlVVB5Cg==
bandit10@bandit:~$ cat data.txt | base64 -decode
base64: invalid option -- 'e'
Try 'base64 --help' for more information.
bandit10@bandit:~$ cat data.txt | base64 --decode
The password is IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR
bandit10@bandit:~$
```

∴ Password for bandit11: IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR

Level 11 → Level 12

```
Activities Terminal Mar 5 21:35 bandit11@bandit: ~
bandit11@bandit:~$ ls
data.txt
bandit11@bandit:~$ nano data.txt
Unable to create directory /home/bandit11/.nano: Permission denied.
It is required for saving/loading search history or cursor positions.
Press Enter to continue
bandit11@bandit:~$ cat data.txt | tr 'a-z' 'n-za-m'
The password is 5Gc8L4drgPEFPx8ugdWuRK8XSP6k2RHu
bandit11@bandit:~$ cat data.txt | tr 'a-z' 'n-za-m' | tr -A-Z 'N-ZA-M'
tr: invalid option -- 'A'
Try 'tr --help' for more information.
bandit11@bandit:~$ cat data.txt | tr 'a-z' 'n-za-m' | tr '-A-Z' 'N-ZA-M'
tr: invalid option -- 'A'
Try 'tr --help' for more information.
bandit11@bandit:~$ cat data.txt | tr 'a-z' 'n-za-m' | tr 'A-Z' 'N-ZA-M'
The password is 5Te8Y4drgCRfCx8ugdWuEX8KFC6k2EUu
bandit11@bandit:~$
```

∴ Password for bandit12: 5Te8Y4drgCRfCx8ugdWuEX8KFC6k2EUu

Level 12 → Level 13

```
Activities Terminal Mar 5 22:13 bandit12@bandit: /tmp/jai
bandit12@bandit:/tmp/jai$ mv conv.bzlp2.out conv.gzlp
bandit12@bandit:/tmp/jai$ gzip -d conv.gzlp
gzip: conv.gzlp: unknown suffix -- ignored
bandit12@bandit:/tmp/jai$ mv conv.gzlp conv.gz
bandit12@bandit:/tmp/jai$ gzip -d conv.gz
bandit12@bandit:/tmp/jai$ ls
conv data.txt
bandit12@bandit:/tmp/jai$ file conv
conv: POSIX tar archive (GNU)
bandit12@bandit:/tmp/jai$ man POSIX
No manual entry for POSIX
bandit12@bandit:/tmp/jai$ tar -xvf conv
data5.bin
bandit12@bandit:/tmp/jai$ ls
conv data5.bin data.txt
bandit12@bandit:/tmp/jai$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/jai$ tar -xvf data5.bin
data6.bin
bandit12@bandit:/tmp/jai$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/jai$ bzip2 -d data6.bin
bzip2: Can't guess original name for data6.bin -- using data6.bin.out
bandit12@bandit:/tmp/jai$ file data6.bin.out
data6.bin.out: POSIX tar archive (GNU)
bandit12@bandit:/tmp/jai$ tar -xvf data6.bin.out
data8.bin
bandit12@bandit:/tmp/jai$ 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/jai$ mv data8.bin d.gz
bandit12@bandit:/tmp/jai$ gzip -d d.gz
bandit12@bandit:/tmp/jai$ ls
conv d data5.bin data6.bin.out data.txt
bandit12@bandit:/tmp/jai$ file d
d: ASCII text
bandit12@bandit:/tmp/jai$ cat d
The password is 8ZjyCRiBWFYkneahHwxCv3wb2a1ORpYL
bandit12@bandit:/tmp/jai$
```

∴ Password for bandit13: 8ZjyCRiBWFYkneahHwxCv3wb2a1ORpYL

Level 13 → Level 14

```
bandit14@bandit:~$ ls
bandit14@bandit:~$ cd ..
bandit14@bandit:/home$ ls
bandit0  bandit11  bandit14  bandit17  bandit2  bandit22  bandit25  bandit27-git  bandit29  bandit30  bandit31-git  bandit4  bandit7
bandit1  bandit12  bandit15  bandit18  bandit20  bandit23  bandit26  bandit28  bandit29-git  bandit30-git  bandit32  bandit5  bandit8
bandit10 bandit13  bandit16  bandit19  bandit21  bandit24  bandit27  bandit28-git  bandit3  bandit31  bandit33  bandit6  bandit9
bandit14@bandit:/home$ cd ..
bandit14@bandit:/etc$ cd etc
bandit14@bandit:/etc$ ls
adduser.conf  cronab  group-  insserv.conf.d  magic.mime  passwd-  rpc  supervisor
addtime       cron.weekly  grub.d  iproute2       mailcap     perl     rsyslog.conf  sysctl.conf
alternatives  dbus-1      gshadow  issue          mailcap.order  polkit-1  rsyslog.d     sysctl.d
apache2       debconf.conf  gshadow-  issue.net      manpath.config  profile  screenrc      systemd
apm           debian_version  gss      kernel         mke2fs.conf   protocols  security      terminfo
apparmor      default      hdparm.conf  kernel-tmg.conf  mke2fs.conf   python    securetty     timezone
apparmor.d    deluser.conf  hosts     ld.so.cache    modprobe.d     python2.7  services      tmpfiles.d
apt           devuan_version  hosts     ld.so.conf     modules        python3    services      ucf.conf
bandit_pass   dhcp          hosts     ld.so.conf.d   motd           python3.5  shadow        udev
bash.bashrc   dictionaries-common  hosts.allow  ld.so.conf.d  ntp.conf      rc0.d      shadow        urfw
bash_completion  discover.conf.d  hosts.deny  libaudit.conf  ntp.conf      rc1.d      shells        update-notd.d
bindresvport.blacklist  dpkg          identd.conf  locale.alias  nanorc        rc2.d      skel          xdg
ca-certificates  elogind       inetd.conf  locale.gen     NetworkManager  rc3.d      ssh           x11
ca-certificates.conf  enacms       inetd.d     localtime     networks       rc4.d      ssl           xorg
calendar      environment  init.d      logcheck      nsswitch.conf  rc5.d      staff-group-for-usr-local  xml
ConsoleKit     firewall    initramfs-tools  logrotate.d  os-release    rc6.d      sudoers.d
console-setup  fstab       inputrc     logrotate     pam.conf      rc.local   sudoers.d
cron.d         gal.conf    insserv     ltrace.conf   pam.d         rc.ssh    sudoers.d
cron.daily     gpg         insserv     lun           passw         rc.ssh    sudoers.d
cron.hourly    groff       insserv     lun           passw         rc.ssh    sudoers.d
cron.monthly   group       insserv     lun           passw         rc.ssh    sudoers.d
bandit14@bandit:/etc$ cd bandit_pass/
bandit14@bandit:/etc/bandit_pass$ ls
bandit0  bandit10  bandit12  bandit14  bandit16  bandit18  bandit2  bandit21  bandit23  bandit25  bandit27  bandit29  bandit30  bandit32  bandit4  bandit6  bandit8
bandit1  bandit11  bandit13  bandit15  bandit17  bandit19  bandit20  bandit22  bandit24  bandit26  bandit28  bandit3  bandit31  bandit33  bandit5  bandit7  bandit9
bandit14@bandit:/etc/bandit_pass$ cat bandit14
4wcYUJFw0k8XLShlDzztnTBHlqxU3b3e
bandit14@bandit:/etc/bandit_pass$
```

Now , after connecting to bandit13 and connection to bandit14 through private key file with localhost , we have the permissions to rw /etc/bandit_pass/bandit14 file as we are using bandit14.

Level 14 → Level 15

```
bandit14@bandit:~$ echo 4wcYUJFw0k8XLShlDzztnTBHlqxU3b3e | nc localhost 30000
Correct!
BfMYroe26WYalil77FoDi9qh59eK5xNr
bandit14@bandit:~$
```

∴ Password for bandit15: BfMYroe26WYalil77FoDi9qh59eK5xNr

```
--[ 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:~$
```


Level 15 → Level 16

```
Activities Terminal Mar 6 16:57 bandit15@bandit: ~
New, TLSv1.2, Cipher is ECDHE-RSA-AES256-GCM-SHA384
Server public key is 1024 bit
Secure Renegotiation IS supported
Compression: NONE
Expansion: NONE
No ALPN negotiated
SSL-Session:
  Protocol : TLSv1.2
  Cipher   : ECDHE-RSA-AES256-GCM-SHA384
  Session-ID: 664A8F89D3B3C71FFE7D6722E9B06025783C2BBE010CD3D6427DF08F4F4A26A
  Session-ID-ctx:
  Master-Key: 5895BBD39116F2438C52F13EE9528CF1FF295F03C316BAC37182CDD0A0C9390B4F1ACF64BC82C030227E0984227D9B64
  PSK identity: None
  PSK identity hint: None
  SRP username: None
  TLS session ticket lifetime hint: 7200 (seconds)
  TLS session ticket:
0000 - 8a eb e8 f5 31 15 46 ad-b2 a8 10 c1 51 b9 66 14 ...1.F....Q.f.
0010 - f1 b6 40 ef 41 29 1e bf-51 2f d7 6a a9 1b 12 bf ..@.A)..Q/.j....
0020 - 8b 9b 7a fa f8 91 0f 02-6f 01 fd 5c 1b 10 ff 80 ..Z.....o..\\....
0030 - 7c a6 4e f6 97 e4 ea a1-02 57 b9 57 5d 88 d3 21 |.N.....W.W].!
0040 - 32 c6 f9 36 0f 9c 8b ad-75 1c 48 4c 11 68 f6 cb 2..6....u.HL.h..
0050 - e0 0e e9 d4 29 1b d6 d4-85 4e d0 b1 28 4d 63 eb ....).N..(Mc.
0060 - 29 9f 73 75 cc 71 60 cc-30 42 54 5f 54 17 10 e5 ).su.q'.0BT.T...
0070 - 7d b2 4e cd db ea 90 fc-05 dd 27 6b 7c 56 32 ea }.N.....'k|V2.
0080 - 3f 79 05 21 e9 3e 00 91-fc 99 3a 14 3b f9 3f 87 ?y.!>.....:;?..
0090 - f1 06 02 3f ca c8 7f 16-a9 f3 6e 0d 82 04 d1 c9 ...?.....n.....

Start Time: 1646565973
Timeout : 7200 (sec)
Verify return code: 10 (self signed certificate)
Extended master secret: yes
...
Correct!
cluFn7wTiGryunymY0u4RcffSxQluehd
closed
bandit15@bandit:~$
```

∴ Password for bandit16: cluFn7wTiGryunymY0u4RcffSxQluehd