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DISCORD HANDLE: **Abhij18#2629**

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TASK – 5 [LINUX GAMES]

Connecting to the ssh shell:

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

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


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


Welcome to OverTheWire!

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

--[ 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/ and /proc/ is disabled
  so that users can not snoop on eachother. Files and directories with
  easily guessable or short names will be periodically deleted!
```

Bandit Level 0 → Level 1:

```
bandit0@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  .profile  readme
bandit0@bandit:~$ cat readme
boJ9jbbUNNfktd78OOpsqOltutMc3MY1
bandit0@bandit:~$
```

Password: `boJ9jbbUNNfktd78OOpsqOltutMc3MY1`

Bandit Level 1 → Level 2:

```
bandit1@bandit:~$ ls -a
-  .  ..  .bash_logout  .bashrc  .profile
bandit1@bandit:~$ cat ./-
CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9
bandit1@bandit:~$
```

Password: `CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9`

Bandit Level 2 → Level 3:

```
bandit2@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  .profile  spaces in this filename
bandit2@bandit:~$ cat spaces\ in\ this\ filename
UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK
bandit2@bandit:~$
```

Password: `UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK`

Bandit Level 3 → Level 4:

```
bandit3@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  inhere  .profile
bandit3@bandit:~$ cd inhere
bandit3@bandit:~/inhere$ ls -a
.  ..  .hidden
bandit3@bandit:~/inhere$ cat .hidden
pIwrPrtPN36QITSp3EQaw936yaFoFgAB
bandit3@bandit:~/inhere$
```

Password: pIwrPrtPN36QITSp3EQaw936yaFoFgAB

Bandit Level 4 → Level 5:

```
bandit4@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  inhere  .profile
bandit4@bandit:~$ cd inhere
bandit4@bandit:~/inhere$ ls -a
.  ..  -file00  -file01  -file02  -file03  -file04  -file05  -file06  -file07  -file08  -file09
bandit4@bandit:~/inhere$ find . -type f | xargs file
./-file01: data
./-file00: data
./-file06: data
./-file03: data
./-file05: data
./-file08: data
./-file04: data
./-file07: ASCII text
./-file02: data
./-file09: data
bandit4@bandit:~/inhere$ cat ./-file07
koReBOKuIDDepwhWk7jZC0RTdopnAYKh
bandit4@bandit:~/inhere$
```

Password: koReBOKuIDDepwhWk7jZC0RTdopnAYKh

Bandit Level 5 → Level 6:

```
bandit5@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  inhere  .profile
bandit5@bandit:~$ cd inhere
bandit5@bandit:~/inhere$ ls -a
.            maybehere00  maybehere02  maybehere04  maybehere06  maybehere08  maybehere10  maybehere12  maybehere14  maybehere16  maybehere18
..           maybehere01  maybehere03  maybehere05  maybehere07  maybehere09  maybehere11  maybehere13  maybehere15  maybehere17  maybehere19
bandit5@bandit:~/inhere$ find . -type f -size 1033c ! -executable
./maybehere07/.file2
bandit5@bandit:~/inhere$ cat ./maybehere07/.file2
DXjZPULLxYr17uwoI01bNLQbtFemEgo7


~/inhere$
```

Password: `DXjZPULLxYr17uwoI01bNLQbtFemEgo7`

Bandit Level 6 → Level 7:

```
bandit6@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  .profile
bandit6@bandit:~$ find / -type f -user bandit7 -group bandit6 -size 33c
find: '/root': Permission denied
find: '/home/bandit28-git': Permission denied
find: '/home/bandit30-git': Permission denied
find: '/home/bandit5/inhere': Permission denied
find: '/home/bandit27-git': Permission denied
find: '/home/bandit29-git': Permission denied
find: '/home/bandit31-git': Permission denied
find: '/lost+found': Permission denied
find: '/etc/ssl/private': Permission denied
find: '/etc/polkit-1/localauthority': Permission denied
find: '/etc/lvm/archive': Permission denied
find: '/etc/lvm/backup': Permission denied
find: '/sys/fs/pstore': Permission denied
find: '/proc/tty/driver': Permission denied
find: '/proc/14479/task/14479/fdinfo/6': No such file or directory
find: '/proc/14479/fdinfo/5': No such file or directory
find: '/cgroup2/csessions': Permission denied
find: '/boot/lost+found': Permission denied
find: '/tmp': Permission denied
find: '/run/lvm': Permission denied
find: '/run/screen/S-bandit5': Permission denied
find: '/run/screen/S-bandit11': Permission denied
find: '/run/screen/S-bandit20': Permission denied
find: '/run/screen/S-bandit13': Permission denied
find: '/run/screen/S-bandit29': Permission denied
find: '/run/screen/S-bandit1': Permission denied
find: '/run/screen/S-bandit25': Permission denied
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: '/proc/tty/driver': Permission denied
find: '/proc/14479/task/14479/fdinfo/6': No such file or directory
find: '/proc/14479/fdinfo/5': No such file or directory
find: '/cgroup2/csessions': Permission denied
find: '/boot/lost+found': Permission denied
find: '/tmp': Permission denied
find: '/run/lvm': Permission denied
find: '/run/screen/S-bandit5': Permission denied
find: '/run/screen/S-bandit11': Permission denied
find: '/run/screen/S-bandit20': Permission denied
find: '/run/screen/S-bandit13': Permission denied
find: '/run/screen/S-bandit29': Permission denied
find: '/run/screen/S-bandit1': Permission denied
find: '/run/screen/S-bandit25': Permission denied
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
HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs
bandit6@bandit:~$
```

Password: `HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs`

Bandit Level 7 → Level 8:

```
bandit7@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  data.txt  .profile
bandit7@bandit:~$ grep millionth data.txt
millionth          cvX2JJa4CFALtqS87jk27qwqGhBM9plV
bandit7@bandit:~$
```

Password: cvX2JJa4CFALtqS87jk27qwqGhBM9plV

Bandit Level 8 → Level 9:

```
bandit8@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  data.txt  .profile
bandit8@bandit:~$ cat data.txt
VkBAEWyIibVkeURZV5mowiGg6i3m7Be0
zdd2ctVveROGeiS2WE3TeLZMeL5jL7iM
sYSokIATVvFUKU4sAHTtMarfjlZWWj5i
ySvsTwlMgnUF0n86Fgmn2TNjkSOlrV72
NLWvtQvL7EaqBNx2x4eznRlQONULlCYZ
LfrBHfAh0pP9bgGAZP4QrVkut3pysAYC
U0NYdD3wHZKpfEg9qGQOLJimAJy6qxhS
flyKxCbHB8uLTaIB5LXqQNuJj3yj00eh
TThRArdF2ZEXMO47TIYkyPPLtvzzLcDf
cIPbot7oYveUPNxDMhv1hiri50CqpkTG
kJTBMD8k9OHyXwZ2aJMQkV23u0gyuoIO
J6Lzp6ZqTJsOuJRTXcvhwKfM0KK3Xtbl
NLWvtQvL7EaqBNx2x4eznRlQONULlCYZ
0N65ZPpNGkUJePzFxctCRZRXVrCbUGfm
SHMAMUEzQe4mV7SJpETTZFsyNRJsZE2k
I3fc578VLa7mOQ1t9zArPPOPY7aDVBcJ
8jtZmvqp9PTi8tp1oybBM663NQH3fhII
1ETSsKgjfQj1cJeFzXLJWzKzza3iWcJa
bRnktwNdxFy2RPZIshXJikswwEzJGvJ9
0Xo6DLyK5izRqEtBA7sW2SRmlAixWYSg
iIaOHQG7ZLdimomwMQaGIF7vib1RmXBh
nJRb4MipHMdTmFylFc1NlqmywgxDSdoI
337o85y4OymIh99WPUtotkb114evfAkC
07KC3ukwX7kswl8Le9ebb3H3sOoNTsR2
Hq6uxRAkKPNLnH6eRSFDzXtvVt0CSsee
hA6Ofhj75FPgqnCKEJ9g6pLSKapxxmGC
DxxLvJl6cGHXLT7OW4xqS7Qrfny1K01l
wjNwumEX58RUQTrufHMciWz5Yx10GtTC
LfrBHfAh0pP9bgGAZP4QrVkut3pysAYC
kUbOkhsIw6GSp0WI2YUo1Q3hDxFU0iQn
I3fc578VLa7mOQ1t9zArPPOPY7aDVBcJ
33xpPQhjt4Q2mqtX4sCVRwH2Zyh82E8R
PQKOeIQwTw490Y8yobuxZAOL4cNmVo1D
0N65ZPpNGkUJePzFxctCRZRXVrCbUGfm
I3fc578VLa7mOQ1t9zArPPOPY7aDVBcJ
iwE0KTeKQ8PWihqvjUnpu52YZeIO8Pqb
0Xo6DLyK5izRqEtBA7sW2SRmlAixWYSg
7KaMzgnYMUeMISP9vuT3Dvsc06qfqa9u
33xpPQhjt4Q2mqtX4sCVRwH2Zyh82E8R
I3fc578VLa7mOQ1t9zArPPOPY7aDVBcJ
e5HFl4ur1rAxPPv2mHzg1uYKMuos4fwp
UASW6CQwD6MRzftu6FAfyXBK0cVvnBLP
```

```
bandit8@bandit:~$ sort data.txt
07KC3ukwX7kswl8Le9ebb3H3sOoNTsR2
07KC3ukwX7kswl8Le9ebb3H3sOoNTsR2
07KC3ukwX7kswl8Le9ebb3H3sOoNTsR2
07KC3ukwX7kswl8Le9ebb3H3sOoNTsR2
07KC3ukwX7kswl8Le9ebb3H3sOoNTsR2
07KC3ukwX7kswl8Le9ebb3H3sOoNTsR2
07KC3ukwX7kswl8Le9ebb3H3sOoNTsR2
07KC3ukwX7kswl8Le9ebb3H3sOoNTsR2
07KC3ukwX7kswl8Le9ebb3H3sOoNTsR2
07KC3ukwX7kswl8Le9ebb3H3sOoNTsR2
0efnqHY1ZTNRu4LsDX4D73DsxIQq7RuJ
0efnqHY1ZTNRu4LsDX4D73DsxIQq7RuJ
0efnqHY1ZTNRu4LsDX4D73DsxIQq7RuJ
0efnqHY1ZTNRu4LsDX4D73DsxIQq7RuJ
0efnqHY1ZTNRu4LsDX4D73DsxIQq7RuJ
0efnqHY1ZTNRu4LsDX4D73DsxIQq7RuJ
0efnqHY1ZTNRu4LsDX4D73DsxIQq7RuJ
0efnqHY1ZTNRu4LsDX4D73DsxIQq7RuJ
0efnqHY1ZTNRu4LsDX4D73DsxIQq7RuJ
0efnqHY1ZTNRu4LsDX4D73DsxIQq7RuJ
0N65ZPpNGkUJePzFxctCRZRXVrCbUGfm
0N65ZPpNGkUJePzFxctCRZRXVrCbUGfm
0N65ZPpNGkUJePzFxctCRZRXVrCbUGfm
0N65ZPpNGkUJePzFxctCRZRXVrCbUGfm
0N65ZPpNGkUJePzFxctCRZRXVrCbUGfm
0N65ZPpNGkUJePzFxctCRZRXVrCbUGfm
0N65ZPpNGkUJePzFxctCRZRXVrCbUGfm
0N65ZPpNGkUJePzFxctCRZRXVrCbUGfm
0N65ZPpNGkUJePzFxctCRZRXVrCbUGfm
0N65ZPpNGkUJePzFxctCRZRXVrCbUGfm
0Xo6DLyK5izRqEtBA7sW2SRmlAixWYSg
0Xo6DLyK5izRqEtBA7sW2SRmlAixWYSg
0Xo6DLyK5izRqEtBA7sW2SRmlAixWYSg
0Xo6DLyK5izRqEtBA7sW2SRmlAixWYSg
0Xo6DLyK5izRqEtBA7sW2SRmlAixWYSg
0Xo6DLyK5izRqEtBA7sW2SRmlAixWYSg
0Xo6DLyK5izRqEtBA7sW2SRmlAixWYSg
0Xo6DLyK5izRqEtBA7sW2SRmlAixWYSg
0Xo6DLyK5izRqEtBA7sW2SRmlAixWYSg
0Xo6DLyK5izRqEtBA7sW2SRmlAixWYSg
```

```
bandit8@bandit:~$ sort data.txt | uniq -c
     10 07KC3ukwX7kswl8Le9ebb3H3sOoNTsR2
     10 0efnqHY1ZTNRu4LsDX4D73DsxIQq7RuJ
     10 0N65ZPpNGkUJePzFxctCRZRXVrCbUGfm
     10 0Xo6DLyK5izRqEtBA7sW2SRmlAixWYSg
     10 10XitczY5Dz7UMoseKIeFWSzzwQrylfw
     10 1ETSsKgjfQj1cJeFzXLJWzKzza3iWcJa
     10 1T6qw9I32d71cS3TTvwmVp1WsxPFDJ9I
     10 2bFz9F0yRwxGzVCZ4Er04bk00qfUrzWb
     10 2CxmtCkpNL5ZjuoNzAtShkPXf5T43W7s
     10 337o85y4OymIh99WPUtotkb114evfAkC
     10 33xpPQhjt4Q2mqtX4sCVRwH2Zyh82E8R
     10 4SMqyZZztep75cte6xxKpVL49pKUkV8N
     10 5AdqWjoJOEdx5tJmZVBMo0K2e4arD3ZW
     10 5cO8XuoQWrzsyeOWDht8zgUIVWSRDaeC
     10 6PF22p6O8TphCTZot9ApZx8VfGuo8rd5
     10 7KaMzgnYMUeMISP9vuT3Dvsc06qfqa9u
     10 7uhj3nhe4AS0esnnEZHBAZN67fJ8BFjM
     10 8jtZmvqp9PTi8tp1oybBM663NQH3fhII
     10 8NtHZnWzCA8HswoJSCU7Ojg8nP3eKpsA
     10 aR2QhaBoDMncvJqPWkvLXMzEx9meBIbX
     10 BccauS9LeE8NUz4HVLXUwE8M1LWisPlG
     10 bRnktwNdxFy2RPZIshXJikswwEzJGvJ9
     10 cIPbot7oYveUPNxDMhv1hiri50CqpkTG
     10 cR6riSWC0ST7ALZ2i1e47r3gc0QxShGo
     10 CUqLkjIo0Jz9fNgrjPxiPa7PGGC1wpTQ
     10 dGnfD2LoqTiO1MBf2vmqw1KKEWSHfMKJ
     10 dqd5wTVO1cVPJoEY7GGkCdGxG6ZYqW98
     10 dqnvnNxL4QR3ALq95ckhZwEpl77cRgF4
     10 DqPqVp8YCjZ1vFsclwRTg13EuSc2D52X
     10 dV0aGGhk6mB4ZJX1aTTluAUIvLWToTYr
     10 DxxLvJl6cGHXLT7OW4xqS7Qrfny1K01l
     10 e5HFl4ur1rAxPPv2mHzg1uYKMuos4fwp
     10 Ef509iQpb5gQJsjz5dMXLxpeAfkbLOrw
     10 eTHlmI3pFZ4FQASs32Dm0ETVZWHlP0I1
     10 f0tri5KLH5eiTU0zQOqWvXTsrl1ekqnU
     10 f6ZuiZizTliaMOkVYXZMudtaReSYMnkP
     10 flyKxCbHB8uLTaIB5LXqQNuJj3yj00eh
```

```
10  PfbMe4Xb3mw5mJmabIbKAXKCU7zynDHl
10  PQKOeIQwTw490Y8yobuxZAOL4cNmVo1D
10  PSdVQSeUUBPRZD58WWP0OXLKxSgU3RxX
10  ptb5ZW8TcgD3U6gOGCcN31xCDGIoQSEa
10  qaWWAOOquC3yHnfJI4zvPWzCBdfHQ8wa
10  RMiSPoAvF7WhgIcOdSQR2r6Zx0DNS5UW
10  s1603Q2r4RPKqyoA8cspIRk0VdgEmFC3
10  SA05uWMVCao2rzS8YRqUXh19SvnDpuOl
10  SHMAMUEzQe4mV7SJpETTZFsyNRJsZE2k
10  si952kS1y6pt4AFenmm0oIp8n7W5d3bd
10  sYSokIATVvFUKU4sAHTtMarfjlZWWj5i
10  SzwgS2ADSjP6ypOzp2bIvdqNyusRtrHj
10  TKUtQbeYnEzzYIne7BinoBx2bHFLBXzG
10  TThRArdF2ZEXMO47TIYkyPPLtvzzLcDf
10  tVW9iY1Ml0uHPK4usZnN8oZXbjRt2ATY
10  U0NYdD3wHZKpfEg9qGQOLJimAJy6qxhS
10  UASW6CQwD6MRzftu6FAfyXBK0cVvnBLP
10  UJiCNvDNfgb3fcCj8PjjnAXHqUM63Uyj
10  UjsVbcqKeJqdCZQCDMkzv6A9X7hLbNE4
 1  UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhR
10  UVnZvhiVQECraz5jl8U14sMVZQhjuXia
10  V2d9umHiuPLYLIDsuHj0frOEmreCZMaA
10  v9zaxkVAOdIOlITZY2uoCtB1fX2gmly9
10  VkBAEWyIibVkeURZV5mowiGg6i3m7Be0
10  w4zUWFGTUrAAh8lNkS8gH3WK2zowBEkA
10  WBqr9xvf6mYTT5kLcTGCG6jb3ex94xWr
10  wjNwumEX58RUQTrufHMciWz5Yx10GtTC
10  X1JHOUkrb4KgugMXIzMWWIWvRkeZleTI
10  XyeJdbrUJyGtdGx8cXLQST0pwu5cvpcA
10  yo0HbSe2GM0jJNhRQLxwoPp7ayYEmRKY
10  ySvsTwlMgnUF0n86Fgmn2TNjkSOlrV72
10  Z9OC6DQpppreChPhwRJJV9YYTtrxNVcO
10  zdd2ctVveROGeiS2WE3TeLZMeL5jL7iM
```

Password: `UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhR`

Bandit Level 9 → Level 10:

```
bandit9@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  data.txt  .profile
bandit9@bandit:~$ cat data.txt
```

◆L◆lω;◆◆ßQ◆◆GX◆◆NdT$◆◆x7◆◆@D@◆o◆◆+D◆◆B◆◆M◆Z/,_◆◆w◆◆#◆5◆◆◆
◆np◆6l   Ÿ◆◆&◆-◆◆ᵋ◆6Q8◆◆J◆%fa◆
|c◆◆◆WW"&8◆◆f◆◆
◆◆VJ◆$◆5-◆◆◆◆d◆
        ◆p◆k◆U◆;◆v◆Am◆◆H◆◆t9◆3◆◆ᵓ(ᵃ◆E'
                               ◆◆◆'◆◆:◆◆uP◆y◆◆◆◆◆◆◆◆◆g◆
!◆'◆
    t◆◆!P◆◆◆
       p
      ◆q◆◆◆◆<(◆^◆5◆◆◆◆◆|◆-r◆◆◆◆◆B◆◆ᵐᵋ;◆◆◆D5◆1◆
>◆'◆◆.9o◆c◆◆◆◆?◆D.◆\◆UU,L◆◆},◆   c◆◆D^◆◆◆!◆◆`◆◆P◆◆◆KT◆◆◆5◆?)X◆ᵓᵘF◆]◆◆2◆J◆-5◆|P◆rL{◆◆◆◆DX◆
)◆W[b◆◆
◆◆7<◆[E2Qk)◆◆◆>Q◆G◆nW([◆>◆◆L◆◆◆[◆◆W̄-◆Gw◆J◆p_◆pT◆◆◆E◆}-◆◆◆◆◆◆
                                                   ◆◆◆
◆
v◆◆7◆◆[d4◆◆◆◆[◆E◆ed{s◆5◆d!◆ᵗ.◆d◆d◆$6◆◆1Td◆=◆◆{◆◆◆◆◆a◆◆◆
                   ◆◆◆◆C◆r◆A◆◆G◆◆1◆-◆◆ᵘᵉ◆◆◆b◆◆2%◆0`c◆◆^◆!`3r◆◆◆◆◆/◆ZÉj◆xL◆◆}◆◆◆◆◆}$◆x?X◆◆7◆◆kj◆◆◆H3◆◆ᵓᵘᵗ`◆◆&
                                                                    ◆Q9◆…J◆◆//M$◆a◆^◆;yzEt!◆◆◆WpU-eᵖ`Rn,I◆◆◆MT◆◆ᵓᵇB$1◆,◆2ᵘ|\{9◆◆V◆ᵓᵘᵓ◆◆G◆7◆4@[◆◆◆tk◆4[◆◆h
ob◆◆X◆◆Q◆◆◆◆◆O◆`◆<!◆◆L◆VSXdKi◆◆um◆◆◆m◆\◆NB|{◆,x◆◆◆◆vd◆◆T◆◆◆xIY.}◆M&F◆,0f◆◆◆◆◆◆RV{◆◆◆l◆◆◆◆#@^◆S◆Jp◆`EO%s◆◆◆-◆c◆}◆◆◆◆?/{◆◆◆^◆◆P8ᴌ9◆d
◆◆r-49◆G]vQ◆◆◆◆◆◆◆n◆◆R◆Cm◆p◆◆◆◆◆-◆{◆r'◆H(-◆-r◆ZÚs◆xz◆◆◆◆}+a◆◆g◆◆◆◆|A◆◆x^◆_f◆^◆◆[R◆◆+OQ◆◆f◆◆3,U◆tG◆◆y◆*   ◆◆◆◆◆Un"◆◆◆◆g◆
   ◆◆◆◆GhG$◆◆◆=========== the*2i"4◆◆◆d◆◆k◆D
◆I◆◆◆Y◆◆1◆3_◆◆6Z◆◆;`◆◆G◆GJ◆◆;Y◆ᵃ◆?◆◆◆'◆.◆◆◆k7B◆L◆◆N◆◆◆%|◆◆ᵓᵘᵘ◆◆
                                   pu◆◆OMd◆H

```
bandit9@bandit:~$ strings data.txt | grep "="
========== the*2i"4
=:G e
========== password
<I=zsGi
Z)========== is
A=|t&E
Zdb=
c^ LAh=3G
*SF=s
&========== truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk
S=A.H&^
bandit9@bandit:~$
```

Password: truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk

Bandit Level 10 → Level 11:

```
bandit10@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  data.txt  .profile
bandit10@bandit:~$ cat data.txt
VGhlIHBhc3N3b3JkIGlzIElGdWt3S0dzRlc4TU9xM0lSRnFyeEUxaHhUTkViUVBSCg==
bandit10@bandit:~$ man base64
bandit10@bandit:~$ base64 -d data.txt
The password is IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR
bandit10@bandit:~$
```

Password: IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR

Bandit Level 11 → Level 12:

```
bandit11@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  data.txt  .profile
bandit11@bandit:~$ cat data.txt
Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHh
bandit11@bandit:~$ cat data.txt | tr 'A-Za-z' 'N-ZA-Mn-za-m'
The password is 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu
bandit11@bandit:~$
```

Password: 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu

Bandit Level 12 → Level 13:

```
bandit12@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  data.txt  .profile
bandit12@bandit:~$ cat data.txt
00000000: 1f8b 0808 0650 b45e 0203 6461 7461 322e  .....P.^..data2.
00000010: 6269 6e00 013d 02c2 fd42 5a68 3931 4159  bin..=...BZh91AY
00000020: 2653 598e 4f1c c800 001e 7fff fbf9 7fda  &SY.O...........
00000030: 9e7f 4f76 9fcf fe7d 3fff f67d abde 5e9f  ..Ov...}?..}..^.
00000040: f3fe 9fbf f6f1 feee bfdf a3ff b001 3b1b  .............;.
00000050: 5481 a1a0 1ea0 1a34 d0d0 001a 68d3 4683  T......4....h.F.
00000060: 4680 0680 0034 1918 4c4d 190c 4000 0001  F....4..LM..@...
00000070: a000 c87a 81a3 464d a8d3 43c5 1068 0346  ...z..FM..C..h.F
00000080: 8343 40d0 3400 0340 66a6 8068 0cd4 f500  .C@.4..@f..h....
00000090: 69ea 6800 0f50 68f2 4d00 680d 06ca 0190  i.h..Ph.M.h.....
000000a0: 0000 69a1 a1a0 1ea0 194d 340d 1ea1 b280  ..i......M4.....
000000b0: f500 3406 2340 034d 3400 0000 3403 d400  ..4.#@.M4....4...
000000c0: 1a07 a832 3400 f51a 0003 43d4 0068 0d34  ...24.....C..h.4
000000d0: 6868 f51a 3d43 2580 3e58 061a 2c89 6bf3  hh..=C%.>X..,.k.
000000e0: 0163 08ab dc31 91cd 1747 599b e401 0b06  .c...1...GY.....
000000f0: a8b1 7255 a3b2 9cf9 75cc f106 941b 347a  ..rU...u....4z
00000100: d616 55cc 2ef2 9d46 e7d1 3050 b5fb 76eb  ..U....F..0P..v.
00000110: 01f8 60c1 2201 33f0 0de0 4aa6 ec8c 914f  ..`.".3..J....O
00000120: cf8a aed5 7b52 4270 8d51 6978 c159 8b5a  ....{RBp.Qix.Y.Z
00000130: 2164 fb1f c26a 8d28 b414 e690 bfdd b3e1  !d...j.(........
00000140: f414 2f9e d041 c523 b641 ac08 0c0b 06f5  ../.A.#.A......
00000150: dd64 b862 1158 3f9e 897a 8cae 32b0 1fb7  .d.b.X?..z..2...
00000160: 3c82 af41 20fd 6e7d 0a35 2833 41bd de0c  <..A .n}.5(3A...
00000170: 774f ae52 a1ac 0fb2 8c36 ef58 537b f30a  wO.R.....6.XS{..
00000180: 1510 cab5 cb51 4231 95a4 d045 b95c ea09  .....QB1...E.\..
00000190: 9fa0 4d33 ba43 22c9 b5be d0ea eeb7 ec85  ..M3.C"........
000001a0: 59fc 8bf1 97a0 87a5 0df0 7acd d555 fc11  Y.........z..U.
000001b0: 223f fdc6 2be3 e809 c974 271a 920e acbc  "?..+....t'.....
000001c0: 0de1 f1a6 393f 4cf5 50eb 7942 86c3 3d7a  ....9?L.P.yB..=z
000001d0: fe6d 173f a84c bb4e 742a fc37 7b71 508a  .m.?.L.Nt*.7{qP.
000001e0: a2cc 9cf1 2522 8a77 39f2 716d 34f9 8620  ...%".w9.qm4...
000001f0: 4e33 ca36 eec0 cd4b b3e8 48e4 8b91 5bea  N3.6...K..H...[.
00000200: 01bf 7d21 0b64 82c0 3341 3424 e98b 4d7e  ..}!.d..3A4$..M~
00000210: c95c 1b1f cac9 a04a 1988 43b2 6b55 c6a6  .\.....J..C.kU..
00000220: 075c 1eb4 8ecf 5cdf 4653 064e 84da 263d  .\....\.FS.N..&=
00000230: b15b bcea 7109 5c29 c524 3afc d715 4894  .[..q.\).$:...H.
00000240: 7426 072f fc28 ab05 9603 b3fc 5dc9 14e1  t&./.(......]...
00000250: 4242 393c 7320 98f7 681d 3d02 0000       BB9<s ..h.=...
bandit12@bandit:~$ man xxd
bandit12@bandit:~$ mkdir /tmp/arj
bandit12@bandit:~$
bandit12@bandit:~$ mkdir /tmp/abhiram
bandit12@bandit:~$ cp data.txt /tmp/abhiram
bandit12@bandit:~$
```

```
bandit12@bandit:~$ mkdir /tmp/abhiram
bandit12@bandit:~$ cp data.txt /tmp/abhiram
bandit12@bandit:~$ cd /tmp/abhiram
bandit12@bandit:/tmp/abhiram$ ls
data.txt
bandit12@bandit:/tmp/abhiram$ xxd -r data.txt > data
bandit12@bandit:/tmp/abhiram$ ls
data  data.txt
bandit12@bandit:/tmp/abhiram$ file data
data: gzip compressed data, was "data2.bin", last modified: Thu May  7 18:14:30 2020, max compression, from Unix
bandit12@bandit:/tmp/abhiram$ man gzip
bandit12@bandit:/tmp/abhiram$ mv data bandit12.gz
bandit12@bandit:/tmp/abhiram$ gzip -d bandit12.gz
bandit12@bandit:/tmp/abhiram$ ls
bandit12  data.txt
bandit12@bandit:/tmp/abhiram$ file bandit12
bandit12: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/abhiram$ mv bandit12 bandit12.bz2
bandit12@bandit:/tmp/abhiram$ bzip2 -d bandit12.bz2
bandit12@bandit:/tmp/abhiram$ ls
bandit12  data.txt
bandit12@bandit:/tmp/abhiram$ file bandit12
bandit12: gzip compressed data, was "data4.bin", last modified: Thu May  7 18:14:30 2020, max compression, from Unix
bandit12@bandit:/tmp/abhiram$ mv bandit12 bandit12.gz
bandit12@bandit:/tmp/abhiram$ gzip -d bandit.gz
gzip: bandit.gz: No such file or directory
bandit12@bandit:/tmp/abhiram$ gzip -d bandit12.gz
bandit12@bandit:/tmp/abhiram$ ls
bandit12  data.txt
bandit12@bandit:/tmp/abhiram$ file bandit12
bandit12: POSIX tar archive (GNU)
bandit12@bandit:/tmp/abhiram$ mv bandit12 bandit12.tar
bandit12@bandit:/tmp/abhiram$ tar xf bandit12.tar
bandit12@bandit:/tmp/abhiram$ ls
bandit12.tar  data5.bin  data.txt
bandit12@bandit:/tmp/abhiram$ rm bandit12.tar
bandit12@bandit:/tmp/abhiram$ rm data.txt
bandit12@bandit:/tmp/abhiram$ ls
data5.bin
bandit12@bandit:/tmp/abhiram$ mv data5.bin data.tar
bandit12@bandit:/tmp/abhiram$ tar xf data.tar
bandit12@bandit:/tmp/abhiram$ ls
data6.bin  data.tar
bandit12@bandit:/tmp/abhiram$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/abhiram$ mv data6.bin data.bz2
bandit12@bandit:/tmp/abhiram$ bzip2 -d data.bz2
bandit12@bandit:/tmp/abhiram$ ls
```

```
bandit12  data.txt
bandit12@bandit:/tmp/abhiram$ file bandit12
bandit12: gzip compressed data, was "data4.bin", last modified: Thu May  7 18:14:30 2020, max compression, from Unix
bandit12@bandit:/tmp/abhiram$ mv bandit12 bandit12.gz
bandit12@bandit:/tmp/abhiram$ gzip -d bandit.gz
gzip: bandit.gz: No such file or directory
bandit12@bandit:/tmp/abhiram$ gzip -d bandit12.gz
bandit12@bandit:/tmp/abhiram$ ls
bandit12  data.txt
bandit12@bandit:/tmp/abhiram$ file bandit12
bandit12: POSIX tar archive (GNU)
bandit12@bandit:/tmp/abhiram$ mv bandit12 bandit12.tar
bandit12@bandit:/tmp/abhiram$ tar xf bandit12.tar
bandit12@bandit:/tmp/abhiram$ ls
bandit12.tar  data5.bin  data.txt
bandit12@bandit:/tmp/abhiram$ rm bandit12.tar
bandit12@bandit:/tmp/abhiram$ rm data.txt
bandit12@bandit:/tmp/abhiram$ ls
data5.bin
bandit12@bandit:/tmp/abhiram$ mv data5.bin data.tar
bandit12@bandit:/tmp/abhiram$ tar xf data.tar
bandit12@bandit:/tmp/abhiram$ ls
data6.bin  data.tar
bandit12@bandit:/tmp/abhiram$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/abhiram$ mv data6.bin data.bz2
bandit12@bandit:/tmp/abhiram$ bzip2 -d data.bz2
bandit12@bandit:/tmp/abhiram$ ls
data  data.tar
bandit12@bandit:/tmp/abhiram$ file data
data: POSIX tar archive (GNU)
bandit12@bandit:/tmp/abhiram$ mv data data.tar
bandit12@bandit:/tmp/abhiram$ ls
data.tar
bandit12@bandit:/tmp/abhiram$ tar xf data.tar
bandit12@bandit:/tmp/abhiram$ ls
data8.bin  data.tar
bandit12@bandit:/tmp/abhiram$ 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/abhiram$ mv data8.bin data.gz
bandit12@bandit:/tmp/abhiram$ gzip -d data.gz
bandit12@bandit:/tmp/abhiram$ ls
data  data.tar
bandit12@bandit:/tmp/abhiram$ file data
data: ASCII text
bandit12@bandit:/tmp/abhiram$ cat data
The password is 8ZjyCRiBWFYkneahHwxCv3wb2a1ORpYL
bandit12@bandit:/tmp/abhiram$
```

Password: 8ZjyCRiBWFYkneahHwxCv3wb2a1ORpYL

Bandit Level 13 → Level 14:

```
bandit13@bandit:~$ cat /etc/bandit_pass/bandit14
cat: /etc/bandit_pass/bandit14: Permission denied
bandit13@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  .profile  sshkey.private
bandit13@bandit:~$ ssh -i sshkey.private bandit14@localhost
Could not create directory '/home/bandit13/.ssh'.
The authenticity of host 'localhost (127.0.0.1)' can't be established.
ECDSA key fingerprint is SHA256:98UL0ZWr85496EtCRkKlo20X3OPnyPSB5tB5RPbhczc.
Are you sure you want to continue connecting (yes/no)?
```

```
bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e
bandit14@bandit:~$
```

Password: `4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e`

Bandit Level 14 → Level 15:

```
bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e
bandit14@bandit:~$ nc localhost 30000
^C
bandit14@bandit:~$ nc localhost 30000
4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e
Correct!
BfMYroe26WYalil77FoDi9qh59eK5xNr

bandit14@bandit:~$
```

Password: `BfMYroe26WYalil77FoDi9qh59eK5xNr`

Bandit Level 15 → Level 16:

```
bandit15@bandit:~$ cat /etc/bandit_pass/bandit15
BfMYroe26WYalil77FoDi9qh59eK5xNr
bandit15@bandit:~$ man nc | grep ssl
bandit15@bandit:~$ man nc
bandit15@bandit:~$ man ncat
bandit15@bandit:~$ man ncat | grep ssl
                --ssl                 Connect or listen with SSL
                --ssl-cert            Specify SSL certificate file (PEM) for listening
                --ssl-key             Specify SSL private key (PEM) for listening
                --ssl-verify          Verify trust and domain name of certificates
                --ssl-trustfile       PEM file containing trusted SSL certificates
                --ssl-ciphers         Cipherlist containing SSL ciphers to use
        --ssl (Use SSL)
        --ssl-verify (Verify server certificates)
                In client mode, --ssl-verify is like --ssl except that it also requires verification of the server certificate. Ncat comes with a default set of trusted certificates in the file
                ca-bundle.crt.  Some operating systems provide a default list of trusted certificates; these will also be used if available. Use --ssl-trustfile to give a custom list. Use -v one or more
        --ssl-cert certfile.pem (Specify SSL certificate)
                This option gives the location of a PEM-encoded certificate files used to authenticate the server (in listen mode) or the client (in connect mode). Use it in combination with --ssl-key.
        --ssl-key keyfile.pem (Specify SSL private key)
                This option gives the location of the PEM-encoded private key file that goes with the certificate named with --ssl-cert.
        --ssl-trustfile cert.pem (List trusted certificates)
                This option sets a list of certificates that are trusted for purposes of certificate verification. It has no effect unless combined with --ssl-verify. The argument to this option is the
                http://www.openssl.org
bandit15@bandit:~$ ncat --ssl localhost 30001
BfMYroe26WYalil77FoDi9qh59eK5xNr
Correct!
cluFn7wTiGryunymYOu4RcffSxQluehd
```

Password: cluFn7wTiGryunymYOu4RcffSxQluehd