



COGNIZANCE 2022

Task-5



JUNE 24, 2022
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OverTheWire Game

Connection to SSH

ssh [-p port] [user@]server [command]

Example: ssh -p 2220 [bandit0@bandit.labs.overthewire.org](https://bandit0.bandit.labs.overthewire.org)

Passwords for each level

Pass 1. boJ9jbbUNNfktd78OOpsqOltutMc3MY1

```
bandit0@bandit: ~  
bandit0@bandit:~$ ls  
readme  
bandit0@bandit:~$ cat readme  
boJ9jbbUNNfktd7800psqOltutMc3MY1  
bandit0@bandit:~$ |
```

Pass 2. CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9

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

Pass 3. UmHadQcIWmgdLOKQ3YNgjWxGoRMb5luK

```
bandit2@bandit:~$ ls  
spaces in this filename  
bandit2@bandit:~$ ls -al  
total 24  
drwxr-xr-x 2 root root 4096 May 7 2020 .  
drwxr-xr-x 41 root root 4096 May 7 2020 ..  
-rw-r--r-- 1 root root 220 May 15 2017 .bash_logout  
-rw-r--r-- 1 root root 3526 May 15 2017 .bashrc  
-rw-r--r-- 1 root root 675 May 15 2017 .profile  
-rw-r----- 1 bandit3 bandit2 33 May 7 2020 spaces in this filename  
bandit2@bandit:~$ cat "./spaces in this filename"  
UmHadQcIWmgdLOKQ3YNgjWxGoRMb5luK  
bandit2@bandit:~$ |
```

Pass 4. plwrPrtPN36QITSp3EQaw936yaFoFgAB

```
bandit3@bandit:~$ ls -al  
total 24  
drwxr-xr-x 3 root root 4096 May 7 2020 .  
drwxr-xr-x 41 root root 4096 May 7 2020 ..  
-rw-r--r-- 1 root root 220 May 15 2017 .bash_logout  
-rw-r--r-- 1 root root 3526 May 15 2017 .bashrc  
drwxr-xr-x 2 root root 4096 May 7 2020 inhere  
-rw-r--r-- 1 root root 675 May 15 2017 .profile  
bandit3@bandit:~$ cd inhere/  
bandit3@bandit:~/inhere$ ls -al  
total 12  
drwxr-xr-x 2 root root 4096 May 7 2020 .  
drwxr-xr-x 3 root root 4096 May 7 2020 ..  
-rw-r----- 1 bandit4 bandit3 33 May 7 2020 .hidden  
bandit3@bandit:~/inhere$ cat .hidden  
plwrPrtPN36QITSp3EQaw936yaFoFgAB  
bandit3@bandit:~/inhere$
```

Pass 5. koReBOKuIDDepwhWk7jZC0RTdopnAYKh

```
bandit4@bandit:~$ ls
inhere
bandit4@bandit:~$ cd inhere
bandit4@bandit:~/inhere$ ls -a
.  ..  -file00  -file01  -file02  -file03  -file04  -file05  -file06  -file07  -file08  -file09
bandit4@bandit:~/inhere$ cat ~/inhere/-file01
e0ep,k;e;r*2e0 0e.!eCeeJ0  eDX,ebandit4@bandit:~/inhere$ cat ~/inhere/-file02
ee)#2e0e5e0e0
0eep0eV0_ee0hmmbandit4@bandit:~/inhere$ cat ~/inhere/-file04
?ebandit4@bandit:~/inhere$ cat ~/inhere/-file05
eReL00$e?h*9('ee!yee#e*0ee=ebandit4@bandit:~/inhere$ cat ~/inhere/-file07
koReBOKuIDDepwhWk7jZC0RTdopnAYKh
bandit4@bandit:~/inhere$
```

Pass 6. DXjZPULLxYr17uwoI01bNLQbtFemEgo7

```
bandit5@bandit:~$ ls -a
.  ..  .bash_logout  .bashrc  inhere  .profile
bandit5@bandit:~$ cd inhere
bandit5@bandit:~/inhere$ ls -a
.  ..  maybehere02  maybehere06  maybehere10  maybehere14  maybehere18
maybehere00  maybehere03  maybehere07  maybehere11  maybehere15  maybehere19
maybehere01  maybehere04  maybehere08  maybehere12  maybehere16
maybehere05  maybehere09  maybehere13  maybehere17
bandit5@bandit:~/inhere$ du -alb | grep 1033
1033  ./maybehere07/.file2
bandit5@bandit:~/inhere$ cat ./maybehere07/.file2
DXjZPULLxYr17uwoI01bNLQbtFemEgo7
```

Pass 7. HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs

```
bandit6@bandit:/$ find ./ -group bandit6 -user bandit7 2>/dev/null
./var/lib/dpkg/info/bandit7.password
bandit6@bandit:/$ clear
bandit6@bandit:/$ ls
bin      dev      initrd.img  lib32  lost+found  opt      root  share  tmp  vmlinuz
boot     etc      initrd.img.old  lib64  media      proc     run   srv    usr  vmlinuz.old
cgroup2  home    lib         libx32  mnt        README.txt /sbin  sys    var
bandit6@bandit:/$ find ./ -group bandit6 -user bandit7
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/2981/task/2981/fd/6': No such file or directory
find: './proc/2981/task/2981/fdinfo/6': No such file or directory
find: './proc/2981/fd/5': No such file or directory
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:/$ |
```


Pass 8. cvX2JJa4CFALtqS87jk27qwqGhBM9pIV

```
bandit7@bandit:~$ ls
data.txt
bandit7@bandit:~$ cat data.txt | grep millionth
millionth      cvX2JJa4CFALtqS87jk27qwqGhBM9pIV
bandit7@bandit:~$ |
```

Pass 9. UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhr

```
bandit8@bandit:~$ ls
data.txt
bandit8@bandit:~$ head -5 data.txt
VkBAEWyIibVkeURZV5mowiGg6i3m7Be0
zdd2ctVveROGeiS2WE3TeLZMeL5jL7iM
sYSokIATVvFUKU4sAHTtMarfjLZWWj5i
ySvsTwLMgnUF0n86Fgmn2TNjkS0LrV72
NLWvtQvL7EaqBNx2x4eznRlQONULlCYZ
bandit8@bandit:~$ cat data.txt | sort -d | uniq -u
UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhr
bandit8@bandit:~$ |
```

Pass 10. truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk

```
bandit9@bandit:~$ ls
data.txt
bandit9@bandit:~$ strings data.txt | grep =====
===== the*2i"4
===== password
Z)===== is
&===== truKLdjsbJ5g7yyJ2X2R0o3a5HQJFuLk
bandit9@bandit:~$ |
```

Pass 11. IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR

```
bandit10@bandit:~$ man base64
bandit10@bandit:~$ ls
data.txt
bandit10@bandit:~$ base64 -d data.txt
The password is IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR
bandit10@bandit:~$ |
```

Pass 12. 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu

```
bandit11@bandit:~$ ls
data.txt
bandit11@bandit:~$ cat data.txt
Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHH
bandit11@bandit:~$ python3
Python 3.5.3 (default, Sep 27 2018, 17:25:39)
[GCC 6.3.0 20170516] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> string = "Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHH"
>>> for i in string:
...     if(i <= 'Z' and i >= 'A'):
...         result = (((ord(i)-65)+13)%26)+65
...         print(chr(result), end="")
...     elif(i <= 'z' and i >= 'a'):
...         result = (((ord(i)-97)+13)%26)+97
...         print(chr(result),end="")
...     else:
...         print(i,end="")
...
The password is 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu>>>
>>> exit()
Error in atexit._run_exitfuncs:
PermissionError: [Errno 13] Permission denied
bandit11@bandit:~$ |
```

Pass 13. 8ZjyCRiBWfYkneahHwxCv3wb2a1ORpYL

```
data.txt file
bandit12@bandit:/tmp/dir$ file file
file: gzip compressed data, was "data4.bin", last modified: Thu May  7 18:14:30
pression, from Unix
bandit12@bandit:/tmp/dir$ mv file file.gz
bandit12@bandit:/tmp/dir$ gzip -d file.gz
bandit12@bandit:/tmp/dir$ file file
file: POSIX tar archive (GNU)
bandit12@bandit:/tmp/dir$ mv file file.tar
bandit12@bandit:/tmp/dir$ tar -d file.tar
tar: Refusing to read archive contents from terminal (missing -f option?)
tar: Error is not recoverable: exiting now
bandit12@bandit:/tmp/dir$ man tar
bandit12@bandit:/tmp/dir$ tar -xf file.tar
bandit12@bandit:/tmp/dir$ ls
data5.bin data.txt file.tar
bandit12@bandit:/tmp/dir$ file file
file: cannot open 'file' (No such file or directory)
bandit12@bandit:/tmp/dir$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/dir$ mv data5.bin data5.tar
bandit12@bandit:/tmp/dir$ tar -xf data5.tar
bandit12@bandit:/tmp/dir$ ls
data5.tar data6.bin data.txt file.tar
bandit12@bandit:/tmp/dir$ mv data6.bin data6.tar
bandit12@bandit:/tmp/dir$ tar -xf data6.tar
bandit12@bandit:/tmp/dir$ ls
data5.tar data6.tar data8.bin data.txt file.tar
bandit12@bandit:/tmp/dir$ file data8
data8: ASCII text
bandit12@bandit:/tmp/dir$ cat data8
The password is 8ZjyCRiBWfYkneahHwxCv3wb2a1ORpYL
bandit12@bandit:/tmp/dir$ |
```

Pass 14. 4wcYUJFw0k0XLSHlDzztnTBHiaqxU3b3e

```
bandit13@bandit:~$ ls
sshkey.private
bandit13@bandit:~$ ls -al
total 24
drwxr-xr-x  2 root    root    4096 May  7  2020 .
drwxr-xr-x 41 root    root    4096 May  7  2020 ..
-rw-r--r--  1 root    root     220 May 15  2017 .bash_logout
-rw-r--r--  1 root    root    3526 May 15  2017 .bashrc
-rw-r--r--  1 root    root     675 May 15  2017 .profile
-rw-r-----  1 bandit14 bandit13 1679 May  7  2020 sshkey.private
bandit13@bandit:~$ cat sshkey.private
-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEAxkkOE83W2c0T7IWhFc9aPaaQmQDdgzuXCv+ppZHa++buSkN+
gg0tcr7Fw8NLGa5+Uzec2nEg0WmwevB13AIoYp0MZyETq46t+jk9puNwZwIt9XgB
Zuf6tZEWbFWw/vVLNwOXBe4UWStGRWzgPpEeSv5Tb1VjLZIBdGphTIK22Amz6Zb
ThMsIMny3afEwJ/T8PQ03myS91vUHEuo0MAzoUID4kN0MEZ3+XahyK0HJvq68KsV
0befXG1vvA3GAJ29kxJaqvRfgYnqZryWN7w3ChjNU4c/2Jkp+n8L0SnxaNA+WYA7
jiPyTF0is8uzMLYQ4l1Lzh/8/MpvhCQF8r22dwIDAQABAoIBAQC6dWBjhyE0zjeA
J3j/RWmap9M5zfJ/wb2bfidNpwbB8rsJ4sZIDZQ7XuIh4LfyoAQSS+bBw3RXvzE
pvJt3SmU8hIDuLScjL1VnBY5pY7Bju8g8aR/3FyjjNAqx/TLfzLLYf0u7i9Jet67
xAh0tONG/u8FB5I3LAI2Vp60viwvdWeC4n0xCthldpuPKNLA8rmmMMVRTKQ+7T2VS
nXmwYckKUCugzoVSpINZaS0zUDypdy2+trH3MQa5kqN1YKjvF8RC47wo0YCKtsD
o3FFpGNFec7Taa3Msy+DfQqHKKZFKIL3bJDDntmrVvtYK40/yeU4aZ/HA2DQzwe
oL1AfiEhAoGBA0nVjosBkm7sbLK+n4IEwPxs8S0mhPnTDUy5WGrpScrX0msVIBUf
LaL3ZGLx3xCiwtCnEucB9DvN2HZkucp/h6hTKUvLqXuyLD8njTrbRhLgbC9QrKrS
M1F2fStXvQpTZDLDMwjNR04xHA/fkh8bXXyTMqOHNJTHHnbb3McdURjAoGBANKU
1hqfnw7+aXncJ9bjysr1ZWbqOE5Nd8AFgfwaku6TTVX2NsUQnCMWdOp+wFak40JH
PKWkJNDBG+ex0H9JNQsTK3X5PBMA8Afx0GrKeuwKWA6erytVTqj0fLYcdp5+z9s
8DtVCxduVsm+i4X8UqIG0LvGbtKEVokHPFXP1q/dAoGACHg5YX7WEehCgCYTzp0+
xysX8Scm2Qs6xuZ3MqUWAxUWkh7NGZvhe0sGy9i0dANZwKw7mUUFViacMR/t54W1
GC83s0s3D7n5Mj8x3Nd08xFit7dT9a245TvaoyQ7KgmqpSg/ScKcW4c3eiLava+J
3bttJeSIU+8ZXq9XjPRpKwUcGya7z6Li0QKXNeXH3qHXcnHok855maUj5fJNpPbY
iDkyZY8SF8G1CfSkY8Yw6fWCqf63zDrohJ5L9JmEsBh7SadkmsZhvecQcs9t4vby
9/8X4jS0P8ibfcKs4nBP+dT81kkkg5Z5MohXB0RA7VWx+ACohcDEkprsq+w32xeD
qT1EvQKbQ0DKm8ws2ByvSUVs9GjTilCajFqLJ0eVYzRpAY6f++Gv/UVfAPV4c+S0
kAWpXbv5tbkkzbS0eaLPTKgLzavXtQoTtKwrjpoLHKIHUz6Wu+n4abFAIRFubOdN
/+aLOR0yBDRbdXmsZN/jvY44eM+xRLdRVyMmdPtP8beLri2E2aEza=
-----END RSA PRIVATE KEY-----
bandit13@bandit:~$ ssh -p 2220 -i sshkey.private bandit14@bandit.labs.overthewire.org
^C
bandit13@bandit:~$ |
```



```
➤ sam at ★ ~  
ls  
ctf files key14.txt  
  
➤ sam at ★ ~  
head -2 key14.txt  
-----BEGIN RSA PRIVATE KEY-----  
MIIEpAIBAAKCAQEAXkk0E83W2c0T7IWhFc9aPaaQmQDgzuxCv+ppZHa++busKN+  
  
➤ sam at ★ ~  
ssh -p 2220 -i key14.txt bandit14@bandit.labs.overthewire.org  
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames  
  
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux  
  
www. ver he ire.org  
  
bandit14@bandit:~$ cat /etc/bandit_pass/bandit14  
4wcYUJFw0k0XLShLDzztnTBHixU3b3e  
bandit14@bandit:~$ |
```

Pass 15. BfMYroe26WYalil77FoDi9qh59eK5xNr

```
bandit14@bandit:~$ nc localhost 30000  
4wcYUJFw0k0XLShLDzztnTBHixU3b3e  
Correct!  
BfMYroe26WYalil77FoDi9qh59eK5xNr  
  
bandit14@bandit:~$ |
```