

COGNIZANCE-TASK-7

BY ARCHANAA.N

- 0) bandit0
- 1) boJ9jbbUNNfktd78OOpsqOltutMc3MY1
- 2) CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9
- 3) UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK
- 4) plwrPrtPN36QITSp3EQaw936yaFoFgAB
- 5) koReBOKulIDDepwhWk7jZC0RTdopnAYKh
- 6) DXjzPULLxYr17uwoI01bNLQbtFemEgo7
- 7) HKBPTKQnlay4Fw76bEy8PVxKEDQRKTzs
- 8) cvX2JJa4CFALtqS87jk27qwqGhBM9pIV
- 9) UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhR
- 10) truKLdjsbJ5g7yyJ2X2R0o3a5HqJFuLk
- 11) IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR
- 12) 5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu
- 13) 8ZjyCRiBWFYkneahHwxCv3wb2a1ORpYL
- 14) 4wcYUJFw0k0XLSHlDzztnTBHiqxU3b3e
- 15) BfMYroe26WYalil77FoDi9qh59eK5xNr
- 16) cluFn7wTiGryunymYOu4RcffSxQleuhd

```
Activities Terminal Mar 6 21:10
legend@legend-VirtualBox -

--[ 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:

-m32                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:

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* radare2 (https://www.radare.org/)
* checksec.sh (http://www.trapkit.de/tools/checksec.html) in /usr/local/bin/checksec.sh

--[ More Information ]--

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Enjoy your stay!

bandit@bandit:~$ ls -alps
total 24
4 drwxr-xr-x 2 root root 4096 May 7 2020 ./
4 drwxr-xr-x 41 root root 4096 May 7 2020 ../
4 -rw-r--r-- 1 root root 220 May 15 2017 .bash_logout
4 -rw-r--r-- 1 root root 3526 May 15 2017 .bashrc
4 -rw-r--r-- 1 root root 675 May 15 2017 .profile
4 -rw-r--r-- 1 bandit bandit 33 May 7 2020 readme
bandit@bandit:~$ cat readme
bo39jbbUNHfktD7800psq0ltutMc3MY1
bandit@bandit:~$ exit
```

```
Activities Terminal Mar 5 21:06
bandit@bandit:~$

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total 24
4 -rw-r--r-- 1 bandit2 bandit1 33 May 7 2020 .
4 drwxr-xr-x 2 root root 4096 May 7 2020 ./
4 drwxr-xr-x 41 root root 4096 May 7 2020 ../
4 -rw-r--r-- 1 root root 220 May 15 2017 .bash_logout
4 -rw-r--r-- 1 root root 3526 May 15 2017 .bashrc
4 -rw-r--r-- 1 root root 675 May 15 2017 .profile
bandit@bandit:~$ cat ./-
CVIDtqWVFXtWZfOk9ShizeVwRINYA9
bandit@bandit:~$
```

```
Activities Terminal Mar 5 21:12 bandit2@bandit:~  
-fno-stack-protector disable ProPolice  
-Wl,-z,norelro disable relro  
  
In addition, the execstack tool can be used to flag the stack as  
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4 drwxr-xr-x 41 root root 4096 May 7 2020 /.  
4 -rw-r--r-- 1 root root 220 May 15 2017 .bash_logout  
4 -rw-r--r-- 1 root root 3526 May 15 2017 .bashrc  
4 -rw-r--r-- 1 root root 675 May 15 2017 .profile  
4 -rw-r--r-- 1 bandit3 bandit2 33 May 7 2020 spaces in this filename  
bandit2@bandit:~$ cat spaces in this filename  
cat: spaces: No such file or directory  
cat: in: No such file or directory  
cat: this: No such file or directory  
cat: filename: No such file or directory  
bandit2@bandit:~$ cat spaces in this filename  
UWiaQcLWmgdLOKQ3YhJwXcORHbSLuK  
bandit2@bandit:~$
```

```
Activities Terminal Mar 5 21:16 archanaa@archanaa-VirtualBox:~  
firewall.  
  
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bandit3@bandit:~$ ls -alps  
total 24  
4 drwxr-xr-x 3 root root 4096 May 7 2020 /  
4 drwxr-xr-x 41 root root 4096 May 7 2020 /.  
4 -rw-r--r-- 1 root root 220 May 15 2017 .bash_logout  
4 -rw-r--r-- 1 root root 3526 May 15 2017 .bashrc  
4 drwxr-xr-x 2 root root 4096 May 7 2020 inhere/  
4 -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--r-- 1 bandit4 bandit3 33 May 7 2020 .hidden  
bandit3@bandit:~/inhere$ ls -la  
total 12  
drwxr-xr-x 2 root root 4096 May 7 2020 .  
drwxr-xr-x 3 root root 4096 May 7 2020 ..  
-rw-r--r-- 1 bandit4 bandit3 33 May 7 2020 .hidden  
bandit3@bandit:~/inhere$ cat .hidden  
pIwRPrTm36QITSp3EQaw936yaf0rGAB  
bandit3@bandit:~/inhere$ cd ..  
bandit3@bandit:~$ exit  
logout  
Connection to bandit.labs.overthewire.org closed.  
archanaa@archanaa-VirtualBox:~$
```

```
Activities Terminal Mar 6 21:13 legend@legend-VirtualBox:~  
--[ Tools ]--  
  
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bandit4@bandit:~$ ls -alps  
total 24  
4 drwxr-xr-x 3 root root 4096 May 7 2020 /  
4 drwxr-xr-x 41 root root 4096 May 7 2020 /.  
4 -rw-r--r-- 1 root root 220 May 15 2017 .bash_logout  
4 -rw-r--r-- 1 root root 3526 May 15 2017 .bashrc  
4 drwxr-xr-x 2 root root 4096 May 7 2020 inhere/  
4 -rw-r--r-- 1 root root 675 May 15 2017 .profile  
bandit4@bandit:~$ cd /c  
bandit4@bandit:~/c$ cd inhere/  
bandit4@bandit:~/inhere$ ls  
-file00 -file01 -file02 -file03 -file04 -file05 -file06 -file07 -file08 -file09  
bandit4@bandit:~/inhere$ find . -type f | xargs file  
./file01: data  
./file00: data  
./file08: data  
./file03: data  
./file05: data  
./file06: data  
./file04: data  
./file07: ASCII text  
./file02: data  
./file09: data  
bandit4@bandit:~/inhere$ cat ./file07  
koReBOKuIDepwhK7J2C0RT0p0nAYKh  
bandit4@bandit:~/inhere$ exit
```

```
Activities Terminal Mar 5 21:36
bandit5@bandit: ~/inhere

compiler flags might be interesting:

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bandit5@bandit: $ ls
inhere
bandit5@bandit: $ cd inhere/
bandit5@bandit: ~/inhere$ find . -type f -size 1033c ! -executable
./maybehere07.file2
bandit5@bandit: ~/inhere$ cat ./maybehere07.file2
0XJZPULXKr170wo101BNLQbtFenEgo7

bandit5@bandit: ~
```

```
Activities Terminal Mar 5 21:40
bandit6@bandit: ~

find: '/boot/lost+found': Permission denied
find: '/tmp': Permission denied
find: '/run/lvm': Permission denied
find: '/run/screen5-bandit1': Permission denied
find: '/run/screen5-bandit10': Permission denied
find: '/run/screen5-bandit129': Permission denied
find: '/run/screen5-bandit25': Permission denied
find: '/run/screen5-bandit30': Permission denied
find: '/run/screen5-bandit9': Permission denied
find: '/run/screen5-bandit28': Permission denied
find: '/run/screen5-bandit18': Permission denied
find: '/run/screen5-bandit20': Permission denied
find: '/run/screen5-bandit12': Permission denied
find: '/run/screen5-bandit5': Permission denied
find: '/run/screen5-bandit7': Permission denied
find: '/run/screen5-bandit16': Permission denied
find: '/run/screen5-bandit26': Permission denied
find: '/run/screen5-bandit8': Permission denied
find: '/run/screen5-bandit15': Permission denied
find: '/run/screen5-bandit4': Permission denied
find: '/run/screen5-bandit33': Permission denied
find: '/run/screen5-bandit19': Permission denied
find: '/run/screen5-bandit31': Permission denied
find: '/run/screen5-bandit17': Permission denied
find: '/run/screen5-bandit2': Permission denied
find: '/run/screen5-bandit22': Permission denied
find: '/run/screen5-bandit21': Permission denied
find: '/run/screen5-bandit4': Permission denied
find: '/run/screen5-bandit13': Permission denied
find: '/run/screen5-bandit24': Permission denied
find: '/run/screen5-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
find: 'type': No such file or directory
find: 'f': No such file or directory
bandit6@bandit: $ cat /var/lib/dpkg/info/bandit7.password
HKBPTKQnIay4fw76EybEPVAKEDQRKTzs
bandit6@bandit: ~
```

```
Activities Terminal Mar 5 21:51
bandit7@bandit: ~

* don't leave exploit-files laying around
* don't annoy other players
* don't post passwords or spollers
* again, DONT POST SPOILERS!
This includes writeups of your solution on your blog or website!

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bandit7@bandit: $ grep "millionth" data.txt
millionth 0x223j4CfALtqS07Jk27qwqH0h9pLv
bandit7@bandit: $ exit[]
```

```
Activities Terminal Mar 5 21:54
bandit10@bandit: ~
10 KLu6lrnqFwHKnVoTuoTReSt6oxYQwv
10 KcPvQDZLPfHr fllwup3DnMhKwGdS4B
10 KuB0khsIw6GspM7YUuoIQ3hDxFUoLqn
10 L113Red7USH9n30dyLHP2hQb0u0uGcaq
10 L2IECnDkK8EBLE103pHlUnJcTf3Ihan
10 LfrBfAHqP8qGZ4HqYkU3p3ysAYC
10 Lg4vMwEV7s0bG6BRlA35AHzo2gmUhg
10 mpgwGRH628HT0xaj5CbaqkkaPKLuhJn
10 nC0G23HQZL14wrdetQu01LCybd0b1T
10 n3Rb4NlpmHdThFyIfC3lNlqnywx05doI
10 NLWvIQvL7EaQBNx244eznRlQOMULLCVZ
10 N0d8H1FvHbXkMn23OLFmgH8n7oIS5ub
10 oJCaNGCSN3ppKUBXGr8LwRRSSGulAS
10 OZlwx8b0IOvFOPxQh32eWwC1PLtUE
10 PfrM64X03mW5mJnabDkAXKCU7zynDHL
10 PQ0cd1Qw7e897y0uXZ0L145hWn010
10 P5vVQseUUBPRZ058WNP00LKK5gU3Rxx
10 ptb5ZM8Tcg3UeG0GcN3iXCDG1oQ5Ea
10 qAM40DqcC3jHn724vPwZC8rTfQ8w
10 RMLSP0AvF7HngIcod5Q82r6Zx00N55UW
10 s1603Q2r4RPkY0A8cspIRk0v0gEnFC3
10 s4B5uWwVw8e2rz58VRqUu195v0n0u0L
10 2HMAUUE2e4vV732ETTF3yW752E2k
10 s1952k516pt44Femnm0ip8n7H5d3bd
10 sY5Ok1ATvVfUK04s4HTHarcfJL2WJ5tL
10 2wep52ADS3jey0p2p201vdqyus8rT4s
10 TKUtQbEvNEzzYine7Bln0bX2HFLBx2G
10 TTRARdfZ2EXM047T1YkYPLtVzzLcOf
10 U9VdV1hLeuPK4x2hN0zJh3rZATV
10 U0NYd03wIZKpfEg9qG0L3lNA2y0qxhS
10 UASh6CQ06MRzfTuoFAfYXK06vVnBLP
10 U31GNvMf9b3fC38FJjNAH0h063uyJ
10 U3j5bCqK3q0CZ020Kx40897hLNE4
10 UsvVvYfSfZ2Wb16wG7dAFyU6JQUHR
10 UvW2vhlVQECraz5Jl0U14shVZ0hJ0X1a
10 V20pWuLrPLT0su0j9f08vncC2W4a
10 V92axKVAODIOLITZ2u0Ct1fX2gmly9
10 V8BAEHYI1bKkEURZ5m0wLGG6l3n7B60
10 w42HfGTU7Aah3lNk50g3WZ20wE8A
10 WbqR9XvF0hYTT3KLtCGG6jB3ex94wP
10 wJNwumEX5BRUQTfufHMcLh25Yx10GtC
10 x13H0UKrB4guuKX12WMIWk6cZLeT1
10 Xy0b0hR1U3YcG8K8KlQ2toWu5cvpca
10 y08H85ezG06J3NHRQLw0p7ayYENRKY
10 y5v2tUg9uF086fpm2TjK50LrV72
10 Z5K6D0pprcChHwK23J9YrTtrXW0C
10 zdd2cTVv0E0eLS2ME3tEL2MeLSjL7UW
bandit10@bandit:~$
```

```
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bandit10@bandit: ~
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Enjoy your stay!

bandit10@bandit:~$ strings data.txt | grep "="
===== the*2l*4
~!G e
===== password
<I-zsG!
2)===== is
A=[t8E
Zdb=
C^ Lh=JG
*SF=s
&===== truKldJsb35g7yy32X2R003aSHQ3FuLk
SnA.HM^
bandit10@bandit:~$
```

```
Activities Terminal Mar 5 22:03
bandit10@bandit: ~
* don't post passwords or spoilers
* again, DONT POST SPOILERS!
This includes writeups of your solution on your blog or website!

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Enjoy your stay!

bandit10@bandit:~$ cat data.txt
VCh1IHbHCN3b3JkIGZlZG9Wt350dzRlc4TU9xM0LSRnFyeUxhbnRUTKVLVB5Scg==
bandit10@bandit:~$ base64 -d data.txt
The password is Tr0k4wG5FHM0q3lFqRxEIhtTNEUPR
bandit10@bandit:~$
```



```
Activities Terminal Mar 5 22:57
bandit11@bandit: ~
--[ 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!
bandit11@bandit:~$ cat data.txt
Gur cnffjbeq vf 5Gr8L4qetPeSsk8htqjHrK8XSP6x2Rhh
bandit11@bandit:~$ echo "Gur cnffjbeq vf 5Gr8L4qetPeSsk8htqjHrK8XSP6x2Rhh"
Gur cnffjbeq vf 5Gr8L4qetPeSsk8htqjHrK8XSP6x2Rhh
bandit11@bandit:~$ echo "Gur cnffjbeq vf 5Gr8L4qetPeSsk8htqjHrK8XSP6x2Rhh"tr "n-za-mN-ZA-M" 'a-zA-Z'
Gur cnffjbeq vf 5Gr8L4qetPeSsk8htqjHrK8XSP6x2Rhhtr "n-za-mN-ZA-M" 'a-zA-Z'
bandit11@bandit:~$ echo "Gur cnffjbeq vf 5Gr8L4qetPeSsk8htqjHrK8XSP6x2Rhh" | tr "n-za-mN-ZA-M" 'a-zA-Z'
The password is 5TebYdrgCRfcx8ugdwuEX8KfCk2kUu
bandit11@bandit:~$ cat data.txt | tr "$(echo -n [A..Z] [a..z] | tr -d ' ')" "$(echo -n [N..Z] [A..H] [n..z] [a..m] | client_loop: send disconnect: Broken pipe
archanaa@archanaa-VirtualBox:~$ ssh bandit11@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
bandit11@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
OverTheWire
www.OverTheWire.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.
```

```
Activities Terminal Mar 6 00:18
bandit15@bandit: ~
Enjoy your stay!
bandit12@bandit:~$ cp data.txt /tmp/ARCHANAA
bandit12@bandit:~$ cd /tmp/ARCHANAA
bandit12@bandit:~/tmp/ARCHANAA$ ls
data6.bin data.tar data.txt
bandit12@bandit:~/tmp/ARCHANAA$ xxd -r data.txt > data
bandit12@bandit:~/tmp/ARCHANAA$ ls
data data6.bin data.tar data.txt
bandit12@bandit:~/tmp/ARCHANAA$ 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/ARCHANAA$ mv data file.gz
bandit12@bandit:~/tmp/ARCHANAA$ gzip -d file.gz
gzip: file.gz: No such file or directory
bandit12@bandit:~/tmp/ARCHANAA$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
bandit12@bandit:~/tmp/ARCHANAA$ mv data6.bin data.bz2
bandit12@bandit:~/tmp/ARCHANAA$ bzip2 -d data.bz2
data
bandit12@bandit:~/tmp/ARCHANAA$ ls
data data.tar data.txt file
bandit12@bandit:~/tmp/ARCHANAA$ file data
data: POSIX tar archive (GNU)
bandit12@bandit:~/tmp/ARCHANAA$ mv data data.tar
bandit12@bandit:~/tmp/ARCHANAA$ tar xf data.tar
bandit12@bandit:~/tmp/ARCHANAA$ ls
data6a.bin data6a.tar data.txt file.gz
bandit12@bandit:~/tmp/ARCHANAA$ file data6a.bin
data6a.bin: gzip compressed data, was "data6a.bin", last modified: Thu May 7 18:14:30 2020, max compression, from Unix
bandit12@bandit:~/tmp/ARCHANAA$ mv data6a.bin archu.gz
bandit12@bandit:~/tmp/ARCHANAA$ gzip -d archu.gz
bandit12@bandit:~/tmp/ARCHANAA$ ls
archu data6a.tar data.txt file.gz
bandit12@bandit:~/tmp/ARCHANAA$ file archu
archu: ASCII text
bandit12@bandit:~$ cat archu
The password is 8zjyCtLBPfVkeahmxcV3b2a10RgVl
bandit12@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
archanaa@archanaa-VirtualBox:~$ ssh bandit13@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
bandit13@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
OverTheWire
www.OverTheWire.org
Welcome to OverTheWire!
```

```
Activities Terminal Mar 6 00:17
bandit15@bandit: ~
* 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!
bandit14@bandit:~$ cat /etc/bandit_pass/bandit14
4ucYUJFw6k8XL5h10zztn7BH1q4u3b3e
bandit14@bandit:~$ nc localhost 30000
4ucYUJFw6k8XL5h10zztn7BH1q4u3b3e
Correct!!
8FmYroe2dWyll177Fd0l9qh59eK5xHr
bandit14@bandit:~$ exit
logout
Connection to localhost closed.
bandit13@bandit:~$ exit
logout
Connection to bandit.labs.overthewire.org closed.
archanaa@archanaa-VirtualBox:~$ ssh bandit15@bandit.labs.overthewire.org -p 2220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
bandit15@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
OverTheWire
www.OverTheWire.org
Welcome to OverTheWire!
```

```
Activities Terminal Mar 6 00:23 bandit15@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:  
  
-m32          compile for 32bit  
-fno-stack-protector  disable ProPolice  
-fPIE, -pie    disable PIE  
  
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/  
* gdbint (https://github.com/gdbint/gdbint) in /usr/local/gdbint/  
* pwntools (https://github.com/callopsled/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:~$ ncat --ssl localhost 30001  
BfMYroe26WVall77F0d19qH59eK5XNr  
Correct!  
cLufFn7wTlGryunymY0u4Rcfft5xQluehd  
  
^Z  
[1]+  Stopped                  ncat --ssl localhost 30001  
bandit15@bandit:~$
```