

Cognizance Task-7

Linux games

NAME: Kanakala Sri Harika

ROLL NO: ch.en.u4cse21223

```
sriharika@sriharika-VirtualBox:~$ ssh bandit0@bandit.labs.overthewire.org -p 22
20
This is a OverTheWire game server. More information on http://www.overthewire.o
rg/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!
```

```
es Terminal ▾ Mar 6 11:25
bandito@bandit: ~
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!
```

Please play nice:

- * don't leave orphan processes running
- * don't leave exploit-files laying around
- * don't annoy other players
- * don't post passwords or spoilers
- * again, DONT POST SPOILERS!

This includes writeups of your solution on your blog or website!

--[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.

The screenshot shows a terminal window titled "Terminal" with the command "bandit0@bandit: ~". The terminal content is as follows:

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 [#wargames](irc://irc.overthewire.org).

Enjoy your stay!

bandit0 -

A screenshot of a terminal window titled "Terminal". The title bar also shows "Mar 6 11:33" and window control buttons. The terminal window has a dark background. It displays the following text:

```
Enjoy your stay!
bandit0@bandit:~$ ls
readme
bandit0@bandit:~$ cat readme
boJ9jbbUNNfktd7800psq0ltutMc3MY1
bandit0@bandit:~$ logout
Connection to bandit.labs.overthewire.org closed.
```

bandit1-

A screenshot of a terminal window showing a login session. The title bar shows "sriharika@sriharika-VirtualBox:~\$". The terminal displays the following text:

```
ssh bandit1@bandit.labs.overthewire.org -p 22
20
This is a OverTheWire game server. More information on http://www.overthewire.o
rg/wargames

bandit1@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux

Welcome to OverTheWire!
```

The password field is redacted with a large block of ASCII art. The art consists of various punctuation marks like commas, colons, and semicolons arranged in a grid-like pattern.

```
bandit1@bandit:~$ ls
-
bandit1@bandit:~$ find
.
./.bashrc
./.profile
./.bash_logout
./-
bandit1@bandit:~$ ls -a
. . .. .bash_logout .bashrc .profile
bandit1@bandit:~$ cat ./
CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9
bandit1@bandit:~$ logout
Connection to bandit.labs.overthewire.org closed.
```

bandit2 -

```
sriharika@sriharika-VirtualBox:~$ ssh bandit2@bandit.labs.overthewire.org -p 22
20
This is a OverTheWire game server. More information on http://www.overthewire.o
rg/wargames

bandit2@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!

```
bandit2@bandit:~$ ls
spaces in this filename
bandit2@bandit:~$ cat spaces\ in\ this\ filename
UmHadQclWmgdLOKQ3YNgjWxGoRMb5luK
bandit2@bandit:~$ logout
Connection to bandit.labs.overthewire.org closed.
```


bandit3 -

```
bandit3@bandit:~$ ls
inhere
bandit3@bandit:~$ cd inhere
bandit3@bandit:~/inhere$ ls
bandit3@bandit:~/inhere$ ls -a
. .. .hidden
bandit3@bandit:~/inhere$ cat .hidden
pIwrPrtPN36QITSp3EQaw936yaFoFgAB
bandit3@bandit:~/inhere$ logout
Connection to bandit.labs.overthewire.org closed.
sriharika@sriharika-VirtualBox:~$ ssh bandit4@bandit.labs.overthewire.org -p 22
20
This is a OverTheWire game server. More information on http://www.overthewire.o
rg/wargames
```

bandit4 -

```
bandit4@bandit:~$ ls
inhere
bandit4@bandit:~$ cd inhere
bandit4@bandit:~/inhere$ ls
-file00  -file02  -file04  -file06  -file08
-file01  -file03  -file05  -file07  -file09
bandit4@bandit:~/inhere$ ls -a
.  -file00  -file02  -file04  -file06  -file08
..  -file01  -file03  -file05  -file07  -file09
bandit4@bandit:~/inhere$ cat -file00
cat: invalid option -- 'f'
Try 'cat --help' for more information.
bandit4@bandit:~/inhere$ cat ./-file00
*`2F*%o+rL~5og***  *****bandit4@bandit:~/inhere$ file .-*
./-file00: data
./-file01: data
./-file02: data
./-file03: data
./-file04: data
./-file05: data
./-file06: data
./-file07: ASCII text
./-file08: data
./-file09: data
bandit4@bandit:~/inhere$ cat ./-file07
koReBOKuIDDepwhWk7jZC0RTdopnAYKh
bandit4@bandit:~/inhere$ logout
Connection to bandit.labs.overthewire.org closed.
```

bandit5

```
srihari@srighari-VirtualBox:~$ ssh bandit5@bandit.labs.overthewire.org -p 22  
20  
This is a OverTheWire game server. More information on http://www.overthewire.o  
rg/wargames  
  
bandit5@bandit.labs.overthewire.org's password:  
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux  
  
Welcome to OverTheWire!
```

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

bandit6 –

```
sriharika@sriharika-VirtualBox:~$ ssh bandit6@bandit.labs.overthewire.org -p 22  
20  
This is a OverTheWire game server. More information on http://www.overthewire.o  
rg/wargames  
  
bandit6@bandit.labs.overthewire.org's password:  
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux  
  
Welcome to OverTheWire!
```

bandit6 -

```
bandit6@bandit:~$ cd /  
  
bandit6@bandit:/ $ find / -user bandit7 -group bandit6 -size  
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/21154/task/21154/fd/6': No such file or directory  
find: '/proc/21154/task/21154/fdinfo/6': No such file or directory  
find: '/proc/21154/fd/5': No such file or directory  
find: '/proc/21154/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: '/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-bandit29': 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-bandit20': Permission denied
find: '/run/screen/S-bandit12': Permission denied
find: '/run/screen/S-bandit5': 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-bandit3': 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-bandit13': 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:/$ logout
Connection to bandit.labs.overthewire.org closed.
```

bandit7 –

```
srihariika@srihariika-VirtualBox:~$ ssh bandit7@bandit.labs.overthewire.org -p 22
20
This is a OverTheWire game server. More information on http://www.overthewire.o
rg/wargames
```

```
bandit7@bandit.labs.overthewire.org's password:
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```



```
Welcome to OverTheWire!
```

```
bandit7@bandit:~$ ls
data.txt
bandit7@bandit:~$ cat data.txt | grep millionth
millionth      cvX2JJa4CFALTqs87jk27qwqGhBM9plV
bandit7@bandit:~$ logout
Connection to bandit.labs.overthewire.org closed.
```

bandit8 –

```
srihari@srighari-VirtualBox:~$ ssh bandit8@bandit.labs.overthewire.org -p 22  
20  
This is a OverTheWire game server. More information on http://www.overthewire.o  
rg/wargames  
  
bandit8@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!
```

```
bandit8@bandit:~$ ls
data.txt
bandit8@bandit:~$ file data.txt
data.txt: ASCII text
bandit8@bandit:~$ cat data.txt
VkBAAEwyIibVkeURZV5mowiGg6i3m7Be0
zdd2ctVveROGeis2WE3TeLZMeL5jL7iM
sYSokIATVvFUKU4sAHTtMarfjlZWWj5i
ySvsTwlMgnUF0n86Fgmn2TNjks0lrV72
NLWvtQvL7EaqBNx2x4eznRlQONULLCYZ
LfrBHfAh0pP9bgGAZP4QrVket3pysAYC
U0NYdD3wHZKpfEg9qGQOLJjmAJy6qxhS
flyKxCbHB8uLTaIB5LXqQNuJj3yj00eh
TThRArdF2ZEXM047TIYkyPPLtvzzLcDf
cIPbot7oYveUPNxDMhv1hiri50CqpkTG
kJTBMD8k90HyXwZ2aJMQkV23u0gyuoIO
J6Lzp6ZqTJsOuJRTXcvhwKfM0KK3Xtbl
NLWvtQvL7EaqBNx2x4eznRlQONULLCYZ
0N65ZPpNGkUJePzFxctCRZRXVrcbUGfm
SHMAMUEzQe4mV7SJpETTZFsyNRJsZE2k
I3fc578VLa7m0Q1t9zArPP0PY7aDVBCJ
8jtZmvqp9PTi8tp1oybBM663NQH3fhII
1ETSSkgjfQj1cJeFzXLJWzKzza3iWcJa
bRnktwNdxFy2RPZIshXJikswwEzJGvJ9
0Xo6DLyK5izRqEtBA7sW2SRmlAixWYSg
iIaOHQG7ZLdimomwMQaGIF7vib1RmXBh
nJRb4MipHMdTmFylFc1NlqmywgxDsdoI
337o85y40ymIh99WP Utotkb114evfAkC
```


tvW9iY1Ml0uHPK4usZnN8oZXbjRt2ATY
bRnktwNdxFy2RPZIshXJikswwEzJGvJ9
0efnqHY1ZTNRu4LsDX4D73DsxEQq7RuJ
dqnvnnNxL4QR3ALq95ckhZwEpl77cRgF4
KASH0xc1NxaM8caXUw5MHCKddANX0kCu
wjNwumEX58RUQTrufHMciWz5Yx10GtTC
UVnZvhivQECEraz5jl8U14sMVZQhjuXia
dqnvnnNxL4QR3ALq95ckhZwEpl77cRgF4
l2lECnjkQk8EBl6I03gHUlnoCTF1has
2CxmtCkpNL5ZjuoNzAtShkPXF5T43W7s
mpgNGRH628hTQxajScbagkxaPKklUhjn
SA05uWMVCao2rzS8YRqUXh195vnDpuOl
UjsVbcqKeJqdCZQCDMkzv6A9X7hLbNE4
1ETSSkgjfQj1cJeFzXLJWzKzza3iWcJa
iKiMcQpNMn2ImOASX39XBUR8XfApdmsj
K9D1CLsVCdkodgvJJIt1oHIai0Y1h8hg
KrDVVORXLPfRhfnRmmuP3OnVHWKDMMS8
XyeJdbrUJyGtdGx8cXLQST0pwu5cvpcA
gqyF9CW3NNIiGW27AtWVNPqp3i1fxTMY
f0tri5KLH5eiTU0zQ0qWvXTsrl1ekqnU
NLWvtQvL7EaqBNx2x4eznRlQONULLCYZ
KrDVVORXLPfRhfnRmmuP3OnVHWKDMMS8
SHMAMUEzQe4mV7SJpETTZFsyNRJsZE2k
KASH0xc1NxaM8caXUw5MHCKddANX0kCu
RMiSPoAvF7WhgIc0dsQR2r6Zx0DNS5UW
flyKxCbHB8uLTaIB5LXqQNuJj3yj00eh
0Xo6DLyK5izRqEtBA7sW2SRmlAixWYSg
tvW9iY1Ml0uHPK4usZnN8oZXbjRt2ATY

```
LfrBHfAh0pP9bgGAZP4QrVku3pysAYC
qaWWAO0quC3yHnfJI4zvPWzCBdfHQ8wa
f0tri5KLH5eiTU0zQ0qWvXTsrl1ekqnU
PSdVQSeUUBPRZD58WP00XLKxSgU3RxX
K9D1CLsVCdkodgvJJIt1oHIai0Y1h8hg
BccauS9LeE8NUz4HVLXUwE8M1LWiPlG
WBqr9xvf6mYTT5kLcTGC6jb3ex94xWr
iwE0KTeKQ8PWiqvjUnpu52YZeI08Pqb
qaWWAO0quC3yHnfJI4zvPWzCBdfHQ8wa
0N65ZPpNGkJePzFxctCRZRXVrCbUGfm
cR6riSWC0ST7ALZ2i1e47r3gc0QxShGo
TKUtQbeYnEzzYIne7BinoBx2bHFLBXzG
8NtHZnWzCA8HswoJSCU70jg8nP3eKpsA
SzwgS2ADSjP6yp0zp2bIvdqNyusRtrHj
5AdqWjoJOEdx5tJmZVBMo0K2e4arD3ZW
gqyF9CW3NNIiGW27AtWVNpqp3i1fxTMY
flyKxCbHB8uLTaIB5LXqQNuJj3yj00eh
w4zUWFGTUrAAh8lNkS8gH3WK2zowBEkA
bandit8@bandit:$ sort data.txt | uniq -u
UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhR
bandit8@bandit:$ logout
Connection to bandit.labs.overthewire.org closed.
```

bandit9 –

```
sriharika@sriharika-VirtualBox:~$ ssh bandit9@bandit.labs.overthewire.org -p 22  
20  
This is a OverTheWire game server. More information on http://www.overthewire.o  
rg/wargames  
  
bandit9@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!
```

```
bandit9@bandit:~$ ls  
data.txt  
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:~$ logout  
Connection to bandit.labs.overthewire.org closed.
```

bandit10 -

```
srihari@srighari-VirtualBox:~$ ssh bandit10@bandit.labs.overthewire.org -p 220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames

bandit10@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!
```

```
bandit10@bandit:~$ ls
data.txt
bandit10@bandit:~$ cat data.txt
VGhlIHBhc3N3b3JkIGlzIElGdWt3S0dzRlc4TU9xM0lSRnFyeEUxaHhUTkViVVBCg==
bandit10@bandit:~$ base64 -d VGhlIHBhc3N3b3JkIGlzIElGdWt3S0dzRlc4TU9xM0lSRnFye
EUxaHhUTkViVVBCg==
base64: 'VGhlIHBhc3N3b3JkIGlzIElGdWt3S0dzRlc4TU9xM0lSRnFyeEUxaHhUTkViVVBCg==' :
No such file or directory
bandit10@bandit:~$ base64 -d VGhlIHBhc3N3b3JkIGlzIElGdWt3S0dzRlc4TU9xM0lSRnFyeE
UxaHhUTkViVVBCg==
base64: 'VGhlIHBhc3N3b3JkIGlzIElGdWt3S0dzRlc4TU9xM0lSRnFyeEUxaHhUTkViVVBCg==' :
No such file or directory
bandit10@bandit:~$ base64 -d data.txt
The password is IFukwKGsFW8M0q3IRFqrxE1hxTNEbUPR
bandit10@bandit:~$ logout
Connection to bandit.labs.overthewire.org closed.
```

bandit11 -

```
bandit11@bandit:~$ ls  
data.txt  
bandit11@bandit:~$ cat data.txt  
Gur cnffjbeq vf 5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHh  
bandit11@bandit:~$ logout  
Connection to bandit.labs.overthewire.org closed.
```

Restore Session

ROT13 - CyberChef

Download CyberChef

Operations

- rot13
- ROT13**
- Favourites
- Encryption / Encoding
- Public Key
- Arithmetic / Logic
- Networking
- Language

Recipe

ROT13 Rotate

lower case chars

upper case chars

Amount 13

Input

length: 48
lines: 1

Gur cnffjbeq vf

5Gr8L4qetPEsPk8htqjhRK8XSP6x2RHh

Output

time: 12ms
length: 48
lines: 1

The password is

5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu

STEP **BAKE!** Auto Bake

The screenshot shows the CyberChef web interface. The left sidebar has a 'Operations' section with links to 'rot13', 'ROT13' (which is selected and highlighted in blue), 'Favourites', 'Encryption / Encoding', 'Public Key', 'Arithmetic / Logic', 'Networking', and 'Language'. The main workspace shows a 'Recipe' card for 'ROT13 Rotate'. Under 'ROT13', there are three checked options: 'lower case', 'upper case', and 'chars'. Below these is an 'Amount' field set to 13. To the right of the recipe card is the 'Input' section, which displays the string 'Gur cnffjbeq vf' with its length (48) and lines (1) specified. Below the input is the 'Output' section, which shows the result of the rotation: '5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu'. This output is preceded by the message 'The password is'. At the bottom of the workspace are buttons for 'STEP', 'BAKE!' (which is highlighted in green), and 'Auto Bake'.

bandit12 -

```
srihari@srihari-VirtualBox:~$ ssh bandit11@bandit.labs.overthewire.org -p 220
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

Welcome to OverTheWire!
```

```
srihari@srighari-VirtualBox:~$ ssh bandit12@bandit.labs.overthewire.org -p 220
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames

bandit12@bandit.labs.overthewire.org's password:
Permission denied, please try again.
bandit12@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!
```

```
bandit12@bandit:~$ ls
data.txt
bandit12@bandit:~$ ls -a
. .. .bash_logout .bashrc data.txt .profile
bandit12@bandit:~$ mkdir /tmp/sriharika
bandit12@bandit:~$ cp data.txt /tmp/sriharika
bandit12@bandit:~$ cd /tmp/sriharika
bandit12@bandit:/tmp/sriharika$ ls
data.txt
bandit12@bandit:/tmp/sriharika$ file data.txt
data.txt: ASCII text
bandit12@bandit:/tmp/sriharika$ 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 7fd8 &SY.O..... .
00000030: 9e7f 4f76 9fcf fe7d 3fff f67d abde 5e9f ..0v...}?...}..^.
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.
```

```
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....0
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 w0.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:/tmp/sriharika$ xxd -r data.txt data
bandit12@bandit:/tmp/sriharika$ 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/sriharika$ mv data file.gz
bandit12@bandit:/tmp/sriharika$ gzip -d file.gz
bandit12@bandit:/tmp/sriharika$ ls
data.txt  file
bandit12@bandit:/tmp/sriharika$ file file
file: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/sriharika$ mv file file.bz2
bandit12@bandit:/tmp/sriharika$ bzip2 -d file.bz2
bandit12@bandit:/tmp/sriharika$ ls
data.txt  file
bandit12@bandit:/tmp/sriharika$ file file
file: gzip compressed data, was "data4.bin", last modified: Thu May  7 18:14:30
2020, max compression, from Unix
bandit12@bandit:/tmp/sriharika$ mv file file.gz
bandit12@bandit:/tmp/sriharika$ gzip -d file.gz
bandit12@bandit:/tmp/sriharika$ ls
data.txt  file
bandit12@bandit:/tmp/sriharika$ file file
file: POSIX tar archive (GNU)
bandit12@bandit:/tmp/sriharika$ mv file file.tar
bandit12@bandit:/tmp/sriharika$ tar xf file.tar
bandit12@bandit:/tmp/sriharika$ ls
data5.bin  data.txt  file.tar
```

```
bandit12@bandit:/tmp/sriharika$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/sriharika$ rm file.tar
bandit12@bandit:/tmp/sriharika$ rm data
rm: cannot remove 'data': No such file or directory
bandit12@bandit:/tmp/sriharika$ rm data.txt
bandit12@bandit:/tmp/sriharika$ ls
data5.bin
bandit12@bandit:/tmp/sriharika$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/sriharika$ mv data5.bin data.tar
bandit12@bandit:/tmp/sriharika$ tar xf data.tar
bandit12@bandit:/tmp/sriharika$ ls
data6.bin  data.tar
bandit12@bandit:/tmp/sriharika$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/sriharika$ mv data6.bin data.bz2
bandit12@bandit:/tmp/sriharika$ ls
data  data.tar
bandit12@bandit:/tmp/sriharika$ bzip2 -d data.bz2
bandit12@bandit:/tmp/sriharika$ ls
data  data.tar
bandit12@bandit:/tmp/sriharika$ file data
data: POSIX tar archive (GNU)
bandit12@bandit:/tmp/sriharika$ mv data data.tar
bandit12@bandit:/tmp/sriharika$ ls
data.tar
```

```
bandit12@bandit:/tmp/sriharika$ tar xf data.tar
bandit12@bandit:/tmp/sriharika$ ls
data8.bin  data.tar
bandit12@bandit:/tmp/sriharika$ 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/sriharika$ mv data8.bin data.gz
bandit12@bandit:/tmp/sriharika$ ls
data.gz  data.tar
bandit12@bandit:/tmp/sriharika$ gzip -d data.gz
bandit12@bandit:/tmp/sriharika$ ls
data  data.tar
bandit12@bandit:/tmp/sriharika$ cat data
The password is 8ZjyCRiBWFYkneahHwxCv3wb2a10RpYL
bandit12@bandit:/tmp/sriharika$ logout
Connection to bandit.labs.overthewire.org closed.
```

bandit13 –

```
sriharika@sriharika-VirtualBox:~$ ssh bandit13@bandit.labs.overthewire.org -p 220
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

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

Welcome to OverTheWire!
```

```
bandit13@bandit:~$ ls
sshkey.private
bandit13@bandit:~$ head sshkey.private
-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEAXkk0E83W2c0T7IWhFc9aPaaQmQDdgzuXCv+ppZHa++buskN+
gg0tcr7Fw8NLGa5+Uzec2rEg0WmeevB13AIoYp0MZYETq46t+jk9puNwZwIt9XgB
ZufGtZEwWbFWw/vVLNwOXBe4UWstGRWzgPpEeSv5Tb1VjLZIBdGphTIK22Amz6Zb
ThMsimNyJafEwJ/T8PQ03myS91vUHEuoOMAzoUID4kN0MEZ3+XahyK0HJVq68KsV
ObefXG1vvA3GAJ29kxJaqvRfgYnqZryWN7w3ChjNU4c/2Jkp+n8L0SnxaNA+WYA7
jiPyTF0is8uzMlYQ4l1Lzh/8/MpvhCQF8r22dwIDAQABoIBAQC6dWBjhyEOzjeA
J3j/RWmap9M5zfJ/wb2bfidNpwbB8rsJ4sZIDZQ7XuIh4LfpygoAQSS+bBw3RXvzE
pvJt3SmU8hIDuLsCjL1VnBY5pY7Bju8g8aR/3FyjyNAqx/TLfzLLYf0u7i9Jet67
xAh0tONG/u8FB5I3LAI2Vp60viwvdWeC4n0xCthldpuPKNLA8rmMMVRTKQ+7T2VS
bandit13@bandit:~$ ssh bandit14@localhost -i sshkey.private
Could not create directory '/home/bandit13/.ssh'.
The authenticity of host 'localhost (127.0.0.1)' can't be established.
ECDSA key fingerprint is SHA256:98UL0ZWr85496EtCRkKlo20X30PnyPSB5tB5RPbhczc.
Are you sure you want to continue connecting (yes/no)? yes
Failed to add the host to the list of known hosts (/home/bandit13/.ssh/known_hosts).
This is a OverTheWire game server. More information on http://www.overthewire.org/wargames
```

bandit14 –

```
Linux bandit.otw.local 5.4.8 x86_64 GNU/Linux
```

Welcome to OverTheWire!

```
bandit14@bandit:~$ cat /etc/bandit_pass/bandit14  
4wcYUJFw0k0XLShlDzztnTBHiqxU3b3e  
bandit14@bandit:~$ nc localhost 30000
```

Wrong! Please enter the correct current password

```
bandit14@bandit:~$ nc localhost 30000
```

4wcYUJFw0k0xLshlDzztnTBHiqxU3b3e

Correct!

BfMYroe26WYalil77FoDi9qh59eK5xNr

bandit14@bandit:~\$ logout

Connection to localhost closed.

bandit13@bandit:~\$ logout

Connection to bandit.labs.overthewire.org closed.

bandit15 -

```
bandit15@bandit:~$ cat /etc/bandit_pass/bandit15
BfMYroe26WYalil77FoDi9qh59eK5xNr
bandit15@bandit:~$ nc -ssl localhost 30001
BfMYroe26WYalil77FoDi9qh59eK5xNr
Correct!
cluFn7wTiGryunymY0u4RcffSxQluehd
```

