Bratarina

Key Takeaways

 Dont tunnel on the web app too soon and once it seems like a dead end, maybe turn to looing at your enumeration again for the other services. The attack chains should not be complex, don't need to dig too hard.

Walk Through

Target: 192.168.184.71

Getting rustscan going for some quick enumeration

```
rustscan -a 192.168.184.71 --ulimit 5000

PORT STATE SERVICE REASON
22/tcp open ssh syn-ack ttl 61
25/tcp open smtp syn-ack ttl 61
80/tcp open http syn-ack ttl 61
445/tcp open microsoft-ds syn-ack ttl 61
```

Getting nmap running

```
smtp-commands: bratarina Hello nmap.scanme.org [192.168.45.174], pleased
to meet you, 8BITMIME, ENHANCEDSTATUSCODES, SIZE 36700160, DSN, HE
LP
_ 2.0.0 This is OpenSMTPD 2.0.0 To report bugs in the implementation, pleas
e contact bugs@openbsd.org 2.0.0 with full details 2.0.0 End of HELP info
53/tcp closed domain
80/tcp open http
                     nginx 1.14.0 (Ubuntu)
_http-server-header: nginx/1.14.0 (Ubuntu)
_http-title:
              Page not found - FlaskBB
445/tcp open netbios-ssn Samba smbd 4.7.6-Ubuntu (workgroup: COFFEEC
ORP)
Service Info: Host: bratarina; OS: Linux; CPE: cpe:/o:linux:linux_kernel
Host script results:
smb2-security-mode:
  3:1:1:
   Message signing enabled but not required
smb-os-discovery:
  OS: Windows 6.1 (Samba 4.7.6-Ubuntu)
Computer name: bratarina
 NetBIOS computer name: BRATARINA\x00
  Domain name: \x00
FQDN: bratarina
_ System time: 2025-08-18T22:48:26-04:00
smb2-time:
 date: 2025-08-19T02:48:23
_ start_date: N/A
smb-security-mode:
  account_used: quest
authentication_level: user
challenge_response: supported
_ message_signing: disabled (dangerous, but default)
_clock-skew: mean: 1h20m01s, deviation: 2h18m35s, median: 0s
```

Getting autorecon going

```
autorecon 192.168.184.71 --nmap-append="--min-rate=5000" --dirbuster.thre ads=30 -v \,
```

22 SSH

Trying some default credential logins for ssh

root:root,toor

admin:password,admin

53 DNS

nmap said this one was closed

445 smb

attempting to enumerate shares using a guest session

```
nxc smb 192.168.184.71 -u '' -p '' --shares
```

Running the spierplus module to enumerate the backups share that is reported as readable

```
nxc smb 192.168.184.71 -u '' -p '' -M spider_plus
```

it says there is a backups passwd.bak file to login with smbclient and get connect to the backups share using smbclient with a null session

```
smbclient -N //192.168.184.71/backups
```

```
      (kali⊗ kali)-[/tmp/nxc_hosted/nxc_spider_plus]

      $ smbclient -N //192.168.184.71/backups

      Anonymous login successful

      Try "help" to get a list of possible commands.

      smb: \> ls

      .
      D
      0 Mon Jul 6 03:46:41 2020

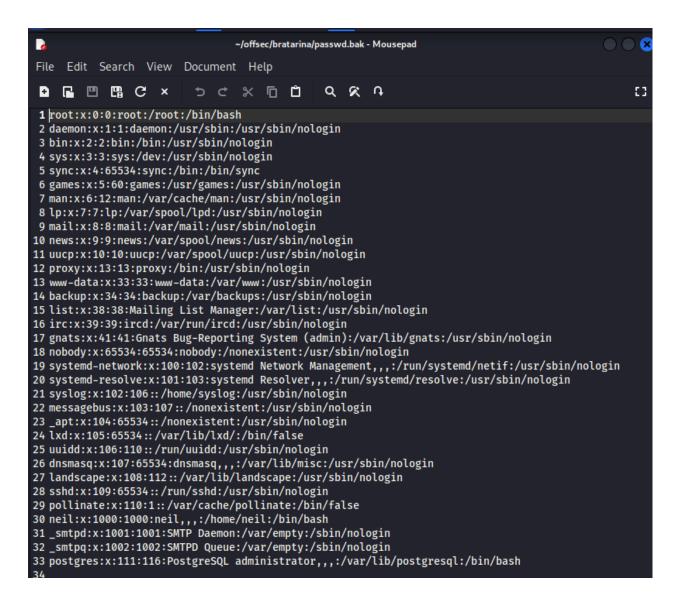
      passwd.bak
      D
      0 Mon Jul 6 03:46:41 2020

      passwd.bak
      N
      1747 Mon Jul 6 03:46:41 2020

      smb: \> get passwd.bak
      swide passwd.bak
      swide passwd.bak

      getting file \passwd.bak of size 1747 as passwd.bak (3.9 KiloBytes/sec) (average 3.9 KiloBytes/sec)
      smb: \> ■
```

Looking at the contents of this file its a backup of the passwd file



- users with a shell
 - root
 - postgres
 - neil

This to me looks like if I go look at the web server postgres is likely to be my entry point

attempting to ssh to the machine as neil, using password and neil didn't work

enum4linux was able to enumerate the password policy via rpc

```
Policies via RPC for 192.168.184.71
 _____
  94m[*] Trying port 445/tcp [0m
 [92m[+] Found policy:
Domain password information:
 Password history length: None
 Minimum password length: 5
 Maximum password age: 49710 days 6 hours 21 minutes
 Password properties:
 - DOMAIN PASSWORD COMPLEX: false
 - DOMAIN PASSWORD NO ANON CHANGE: false
 - DOMAIN PASSWORD NO CLEAR CHANGE: false
 - DOMAIN PASSWORD LOCKOUT ADMINS: false
 - DOMAIN PASSWORD PASSWORD STORE CLEARTEXT: false
 - DOMAIN PASSWORD REFUSE PASSWORD CHANGE: false
Domain lockout information:
 Lockout observation window: 30 minutes
 Lockout duration: 30 minutes
 Lockout threshold: None
Domain logoff information:
 Force logoff time: 49710 days 6 hours 21 minutes [0m
```

80 HTTP

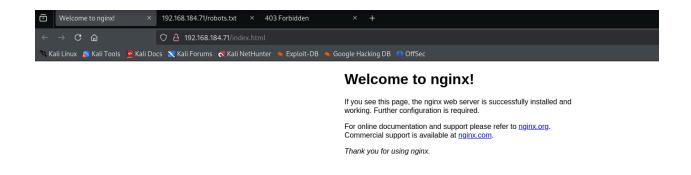
Looking at the dirbuster autorecon results

there is an index page and there is a robots.txt file

```
    tcp_25_smtp_user-enum_hydra_expn.txt

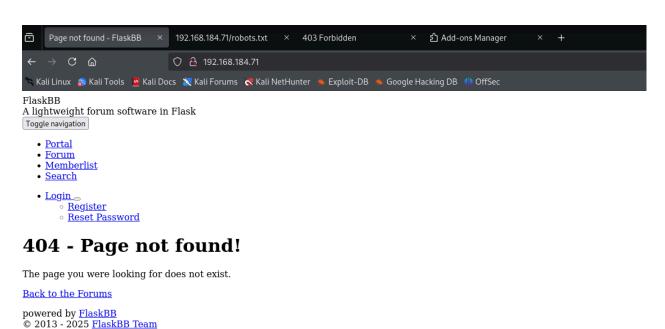
                           Configuration {
        scan dir listings: false,
        request file: "",
        protocol: "https",
        limit_bars: 0,
    200
           GET -
                   25l
                                  612c http://192.168.184.71/index.html
                                   14c http://192.168.184.71/robots.txt
266
     200
            GET
```

The index.html doesn't show anything of interest to me



Neither did the robots.txt file

Looking at the root / page I see a 404 error and it tells me that the site is powered by flaskbb



Looking into flaskbb exploits I found a couple of exploitdb post that highlighting flashbb exploits and at first I thought that they might be typos, becuase at one point in the article it would say flask and at another flash. So I spent sometime going down this rabit hole, but didn't find anything.

At this point I went back to my enumeration output and wanted to look deeper into SMTP

25 SMTP

At first this didn't seem interesting

Nothing particularly of interest here

Hydra was also run to try and do user enumeration

However, googling SMTPD 2.0.0 exploits did find some interesting RCE exploits running searchsploit for some exploits

and running search for some exploits in msfconsole did find some things of interest

I get one use of metasploit in the exam so its generally not best practice for these lab machines I think, but in this case I didn't see an easy implementation of the exploit online so I went with this and it worked.

searchsploit did find some exploits for this software