

Part-1-Using Nmap

1. Here the services and corresponding port numbers:

SERVICE	PORT
ssh	22
http	80
https	443
irc	6666

2. Yes, the target is running a web server.

2(a) A webserver is running on port 80. It is visible on the following url:

<http://35.231.141.75:80>

Software: nginx

Version Number # 1.10.3

3. I did not find any database on the server.

4. The operating System and Distribution target is running on:

Device type: WAP|general purpose

Running: Actiontec embedded, Linux 2.4.X|3.X, Microsoft Windows XP|7|2012

OS CPE: cpe:/h:actiontec:mi424wr-gen3i cpe:/o:linux:linux_kernel

cpe:/o:linux:linux_kernel:2.4.37 cpe:/o:linux:linux_kernel:3.2

cpe:/o:microsoft:windows_xp::sp3 cpe:/o:microsoft:windows_7

cpe:/o:microsoft:windows_server_2012

OS details: Actiontec MI424WR-GEN3I WAP, DD-WRT v24-sp2 (Linux 2.4.37), Linux 3.2, Microsoft Windows XP SP3, Microsoft Windows XP SP3 or Windows 7 or Windows Server 2012

Network Distance: 2 hops

Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

5. Yes, there is a peculiar service on port 6666. I used the command:

`nmap -A -T4 35.231.141.75 6666`

and it identified that on port 6666 there is an unrecognized service running.

Using the command `nc 35.231.141.75 6666 > output` a jpeg is created which has a swimming pool with people swimming and it has something fishy/peculiar in it. Hence, the port has some peculiar service running.

6. I used the following command to get remote access to the server:

`ssh root@35.231.141.75`

And entered **toor** as the password.

Part-2-Without using Nmap

7. Open port: 47808

Target: Blackfoot Telephone Cooperative, Inc. (BTC-13)

8. Shodan showed the following figures:

NETGEAR R8000: 5849

NETGEAR 7000: 11630

NETGEAR 6400: 474