

```
ubuntu_1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Thunderbird Mail ~/Desktop$ sudo apt update
Hit:1 http://security.ubuntu.com/ubuntu focal-security InRelease
Err:2 https://deb.nodesource.com/node_15.x focal InRelease
  Cannot initiate the connection to deb.nodesource.com:443 (2600:140f:1e00::17d2:f55a). - connect (101: Network is unreachable) Cannot initiate the connection to deb.nodesource.com:443 (2600:140f:1e00::17d2:f581). - connect (101: Network is unreachable) Could not connect to deb.nodesource.com:443 (23.206.173.136), connection timed out Could not connect to deb.nodesource.com:443 (23.206.173.144), connection timed out
Err:3 http://us.archive.ubuntu.com/ubuntu focal InRelease
  Could not connect to kazooie.canonical.com:80 (91.189.91.39), connection timed out Could not connect to banjo.canonical.com:80 (91.189.91.38), connection timed out Cannot initiate the connection to us.archive.ubuntu.com:80 (2001:67c:1562::15). - connect (101: Network is unreachable) Cannot initiate the connection to us.archive.ubuntu.com:80 (2001:67c:1562::18). - connect (101: Network is unreachable)
Err:4 http://us.archive.ubuntu.com/ubuntu focal-updates InRelease
  Cannot initiate the connection to us.archive.ubuntu.com:80 (2001:67c:1562::15). - connect (101: Network is unreachable) Cannot initiate the connection to us.archive.ubuntu.com:80 (2001:67c:1562::18). - connect (101: Network is unreachable)
Err:5 http://us.archive.ubuntu.com/ubuntu focal-backports InRelease
  Cannot initiate the connection to us.archive.ubuntu.com:80 (2001:67c:1562::15). - connect (101: Network is unreachable) Cannot initiate the connection to us.archive.ubuntu.com:80 (2001:67c:1562::18). - connect (101: Network is unreachable)
Reading package lists... Done
Building dependency tree
Reading state information... Done
464 packages can be upgraded. Run 'apt list --upgradable' to see them.
W: Failed to fetch http://us.archive.ubuntu.com/ubuntu/dists/focal/InRelease Could not connect to kazooie.canonical.com:80 (91.189.91.39), connection timed out Could not connect to banjo.canonical.com:80 (91.189.91.38), connection timed out Cannot initiate the connection to us.archive.ubuntu.com:80 (2001:67c:1562::15). - connect (101: Network is unreachable) Cannot initiate the connection to us.archive.ubuntu.com:80 (2001:67c:1562::18). - connect (101: Network is unreachable)
W: Failed to fetch http://us.archive.ubuntu.com/ubuntu/dists/focal-updates/InRelease Cannot initiate the connection to us.archive.ubuntu.com:80 (2001:67c:1562::15). - connect (101: Network is unreachable) Cannot initiate the connection to us.archive.ubuntu.com:80 (2001:67c:1562::18). - connect (101: Network is unreachable)
W: Failed to fetch http://us.archive.ubuntu.com/ubuntu/dists/focal-backports/InRelease Cannot initiate the connection to us.archive.ubuntu.com:80 (2001:67c:1562::15). - connect (101: Network is unreachable) Cannot initiate the connection to us.archive.ubuntu.com:80 (2001:67c:1562::18). - connect (101: Network is unreachable)
W: Failed to fetch https://deb.nodesource.com/node_15.x/dists/focal/InRelease Cannot initiate the connection to deb.nodesource.com:443 (2600:140f:1e00::17d2:f55a). - connect (101: Network is unreachable) Cannot initiate the connection to deb.nodesource.com:443 (2600:140f:1e00::17d2:f581). - connect (101: Network is unreachable) Could not connect to deb.nodesource.com:443 (23.206.173.136), connection timed out Could not connect to deb.nodesource.com:443 (23.206.173.144), connection timed out
W: Some index files failed to download. They have been ignored, or old ones used instead.
Activate Windows
Go to Settings to activate Windows.
```

```
student@ubuntu:~/Desktop$ sudo apt install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
You might want to run 'apt --fix-broken install' to correct these.
The following packages have unmet dependencies:
 apache2 : Depends: apache2-bin (= 2.4.41-4ubuntu3.12) but 2.4.41-4ubuntu3.6 is to be installed
           Depends: apache2-data (= 2.4.41-4ubuntu3.12) but 2.4.41-4ubuntu3.6 is to be installed
           Depends: apache2-utils (= 2.4.41-4ubuntu3.12)
 linux-headers-5.11.0-37-generic : Depends: linux-hwe-5.11-headers-5.11.0-37 but it is not going to be installed
 linux-image-generic-hwe-20.04 : Depends: linux-modules-extra-5.11.0-37-generic but it is not going to be installed
E: Unmet dependencies. Try 'apt --fix-broken install' with no packages (or specify a solution).
student@ubuntu:~/Desktop$ sudo apt --fix-broken install
Reading package lists... Done
Building dependency tree
Reading state information... Done
Correcting dependencies... Done
The following packages were automatically installed and are no longer required:
  linux-headers-5.11.0-37-generic linux-hwe-5.11-headers-5.11.0-37 linux-image-5.11.0-37-generic linux-modules-5.11.0-37-generic
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  linux-generic-hwe-20.04 linux-headers-5.15.0-48-generic linux-headers-generic-hwe-20.04 linux-hwe-5.11-headers-5.11.0-37
  linux-hwe-5.15-headers-5.15.0-48 linux-image-5.15.0-48-generic linux-image-generic-hwe-20.04 linux-modules-5.15.0-48-generic
  linux-modules-extra-5.15.0-48-generic
Suggested packages:
  fdutils linux-doc | linux-hwe-5.15-source-5.15.0 linux-hwe-5.15-tools
The following NEW packages will be installed:
  linux-headers-5.15.0-48-generic linux-hwe-5.11-headers-5.11.0-37 linux-hwe-5.15-headers-5.15.0-48 linux-image-5.15.0-48-generic
  linux-modules-5.15.0-48-generic linux-modules-extra-5.15.0-48-generic
The following packages will be upgraded:
  linux-generic-hwe-20.04 linux-headers-generic-hwe-20.04 linux-image-generic-hwe-20.04
3 upgraded, 6 newly installed, 0 to remove and 461 not upgraded.
3 fully installed, 3 removed.
```


student@ubuntu: ~/Desktop

GNU nano 4.8 /etc/ssh/sshd_config

#SyslogFacility AUTH
#LogLevel INFO

Authentication:

#LoginGraceTime 2m
PermitRootLogin yes
#StrictModes yes
#MaxAuthTries 6
#MaxSessions 10

#PubkeyAuthentication yes

Expect .ssh/authorized_keys2 to be disregarded by default in future.
#AuthorizedKeysFile .ssh/authorized_keys .ssh/authorized_keys2

#AuthorizedPrincipalsFile none

#AuthorizedKeysCommand none
#AuthorizedKeysCommandUser nobody

For this to work you will also need host keys in /etc/ssh/ssh_known_hosts
#HostbasedAuthentication no
Change to yes if you don't trust ~/.ssh/known_hosts for
HostbasedAuthentication
#IgnoreUserKnownHosts no
Don't read the user's ~/.rhosts and ~/.shosts files
#IgnoreRhosts yes

To disable tunneled clear text passwords, change to no here!
#PasswordAuthentication yes

ubuntu_1 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Retype new password:
passwd: password updated successfully
student@ubuntu:~/Desktop\$ nano /etc/ssh/sshd_config
student@ubuntu:~/Desktop\$ ls
'install NODE-RED.docx' 'NESSUS' 'WinSCP' 'WinSCP' 'WinSCP'
student@ubuntu:~/Desktop\$ sudo systemctl restart sshd
student@ubuntu:~/Desktop\$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,MULTICAST> mtu 1500
inet 172.20.210.119 netmask 255.255.255.0
inet6 fe80::1e76:4305:80:ca:1 netmask 64
ether 08:00:27:80:1c:ca txqueuelen 1000 (Ethernet)
RX packets 80934 bytes (80.9 KB) rx errors 0
TX packets 33034 bytes (33.0 KB) tx errors 0 dropped 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
inet 127.0.0.1 netmask 255.255.255.255
inet6 ::1 prefixlen 128
loop txqueuelen 1000 (loopback)
RX packets 506 bytes (506 B) rx errors 0
TX packets 506 bytes (506 B) tx errors 0 dropped 0
student@ubuntu:~/Desktop\$

Documents - root@172.20.210.119 - WinSCP

Local Mark Files Commands Session Options Remote Help

root@172.20.210.119 X New Session

My documents Upload Edit Properties New Download Edit Properties New Find Files

root /root/

Name	Size	Type	Changed	Size	Changed	Rights	Ov
..		Parent directory	06-10-2022 11:34:37		19-02-2021 19:30:02	rwxr-xr-x	roc
..		File folder	06-10-2022 11:53:42		19-02-2021 19:39:16	rwxr-xr-x	roc
Anand		File folder	18-08-2022 12:04:47				
Arduino		File folder	06-10-2022 11:34:37				
Custom Office Templ...		File folder	01-05-2022 16:51:00				
WindowsPowerShell		File folder	26-09-2022 12:00:29				
1.rtf	1 KB	Rich Text Document	26-09-2022 12:00:46				
2.rtf	1 KB	Rich Text Document	26-09-2022 12:00:46				

Activate Windows
Go to Settings to activate Windows.

0 B of 433 B in 0 of 6 4 hidden 0 B of 0 B in 0 of 1 SFTP-3

PHPJabber | Car Rental Web

Network Authentication

172.20.210.119

It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!

Refresh Firefox...

Car Rental Website

HomeFleetOffersAboutContact Us

Activate Windows

Go to Settings to activate Windows.

html - root@172.20.210.119 - WinSCP

LocalMarkFilesCommandsSessionOptionsRemoteHelp

SynchronizeQueueTransfer Settings Default

root@172.20.210.119New Session

My documents

UploadEditPropertiesNew

C:\Users\xie\Documents\

Name	Size	Type	Changed
..		Parent directory	06-10-2022 11:34:37
Anand		File folder	06-10-2022 11:53:42
Arduino		File folder	18-08-2022 12:04:47
Custom Office Templ...		File folder	06-10-2022 11:34:37
WindowsPowerShell		File folder	01-05-2022 16:51:00
1.rtf	1 KB	Rich Text Document	26-09-2022 12:00:29
2.rtf	1 KB	Rich Text Document	26-09-2022 12:00:46

html

DownloadEditPropertiesNew

/var/www/html/

Name	Size	Changed	Rights	Owner
..		24-02-2021 18:52:26	rwxf-rf-x	root
css		25-09-2021 15:07:42	rwxf-rf-x	root
fonts		25-09-2021 15:07:42	rwxf-rf-x	root
images		25-09-2021 15:07:42	rwxf-rf-x	root
js		24-02-2021 19:56:48	rwxf-rf-x	root
about-us.html	11 KB	15-06-2020 20:11:35	rw-r--r--	root
blog-post-details.html	14 KB	15-06-2020 19:51:33	rw-r--r--	root
blog-posts.html	21 KB	15-06-2020 20:11:41	rw-r--r--	root
contact.html	9 KB	15-06-2020 20:11:44	rw-r--r--	root
fleet.html	20 KB	15-06-2020 20:11:48	rw-r--r--	root
index.html	27 KB	15-06-2020 20:04:50	rw-r--r--	root
license.txt	35 KB	14-10-2014 22:33:24	rw-r--r--	root
offers.html	16 KB	15-06-2020 20:11:51	rw-r--r--	root
special-offer.html	1 KB	24-04-2019 03:30:30	rw-r--r--	root
team.html	14 KB	15-06-2020 20:11:56	rw-r--r--	root
terms.html	13 KB	15-06-2020 20:12:01	rw-r--r--	root
testimonials.html	15 KB	15-06-2020 20:12:03	rw-r--r--	root

0 B of 433 B in 0 of 6

4 hidden

0 B of 190 KB in 0 of 16

Activate Windows

Go to Settings to activate Windows.

SFTP-3

0:08:03

html - root@172.20.210.119 - WinSCP

Local Mark Files Commands Session Options Remote Help

Synchronize Queue Transfer Settings Default

root@172.20.210.119 X New Session

My documents Upload Edit Properties New Download Edit Properties New Find Files

C:\Users\xie\Documents\ /var/www/html/

Name	Size	Type	Changed
..		Parent directory	06-10-2022 11:34:37
Anand		File folder	06-10-2022 11:53:42
Arduino		File folder	18-08-2022 12:04:47
Custom Office Templ...		File folder	06-10-2022 11:34:37
WindowsPowerShell		File folder	01-05-2022 16:51:00
1.rtf	1 KB	Rich Text Document	26-09-2022 12:00:29
2.rtf	1 KB	Rich Text Document	26-09-2022 12:00:46

Name	Size	Changed	Rights	Owner
css		06-10-2022 14:22:53	rw-r-xr-x	root
fonts		25-09-2021 15:07:42	rw-r-xr-x	root
food app		06-10-2022 14:22:55	rw-r-xr-x	root
images		25-09-2021 15:07:42	rw-r-xr-x	root
img		06-10-2022 14:22:55	rw-r-xr-x	root
js		06-10-2022 14:22:55	rw-r-xr-x	root
pages		06-10-2022 14:22:55	rw-r-xr-x	root
about-us.html	11 KB	15-06-2020 20:11:35	rw-r--r--	root
blog-post-details.html	14 KB	15-06-2020 19:51:33	rw-r--r--	root
blog-posts.html	21 KB	15-06-2020 20:11:41	rw-r--r--	root
contact.html	9 KB	15-06-2020 20:11:44	rw-r--r--	root
fleet.html	20 KB	15-06-2020 20:11:48	rw-r--r--	root
index.html	5 KB	01-04-2022 13:17:26	rw-r--r--	root
license.txt	35 KB	14-10-2014 22:33:24	rw-r--r--	root
manifest.json	1 KB	01-04-2022 13:16:00	rw-r--r--	root
offers.html	16 KB	15-06-2020 20:11:51	rw-r--r--	root
special-offer.html	1 KB	24-04-2019 03:30:30	rw-r--r--	root
sw.js	1 KB	28-03-2022 09:38:04	rw-r--r--	root
team.html	14 KB	15-06-2020 20:11:56	rw-r--r--	root
terms.html	13 KB	15-06-2020 20:12:01	rw-r--r--	root
testimonials.html	15 KB	15-06-2020 20:12:03	rw-r--r--	root

0 B of 433 B in 0 of 6 4 hidden 0 B of 168 KB in 0 of 21


Activate Windows Go to Settings to activate Windows. SFTP-3 0:08:37

Food Application x Network Authentication x +


172.20.210.119

It looks like you haven't started Firefox for a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back! Refresh Firefox...


F00DIEEAPP menu




Burgers
Hamburger, White sauce, french fries
Rs:85 [delete_outline](#)



Pasta Recipe
White sauce Pasta, Red Sauce Pasta
Rs:80 [delete_outline](#)



Vegetable Rice Varieties
Rice, Dhal, bhaji
Rs:100 [delete_outline](#)



desserts
Ice creams, Cake, Juices, Chocolates
Rs:70 [delete_outline](#)

Go to Settings to activate Windows. Right Ctrl

2 Analysing Ports and Hosts in Windows Machine

Step1 : Install Nmap 7.92.setup.exe given in the class drive folder

Step2 : Open Nmap Once it installed on your system

Step3 : Type the Ip address of your Windows Machine in the Target and select the type of Scan as Intense scan and scan it.

Step4 : You will get all the Open Port Details

Output:

Zenmap

Scan Tools Profile Help

Target: 172.20.210.66 Profile: Intense scan Scan Cancel

Command: nmap -T4 -A -v 172.20.210.66

Hosts Services Nmap Output Ports / Hosts Topology Host Details Scans

OS Host

172.20.210.66

Starting Nmap 7.93 (<https://nmap.org>) at 2022-10-06 14:33 India Standard Time
NSOCK ERROR [0.3290s] ssl_init_helper(): OpenSSL legacy provider failed to load.

NSE: Loaded 155 scripts for scanning.
NSE: Script Pre-scanning.
Initiating NSE at 14:33
Completed NSE at 14:33, 0.00s elapsed
Initiating NSE at 14:33
Completed NSE at 14:33, 0.00s elapsed
Initiating NSE at 14:33
Completed NSE at 14:33, 0.00s elapsed
Initiating ARP Ping Scan at 14:33
Scanning 172.20.210.66 [1 port]
Completed ARP Ping Scan at 14:33, 0.22s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 14:33
Completed Parallel DNS resolution of 1 host. at 14:33, 0.09s elapsed
Initiating SYN Stealth Scan at 14:33
Scanning 172.20.210.66 [1000 ports]
Discovered open port 22/tcp on 172.20.210.66
Discovered open port 21/tcp on 172.20.210.66
Discovered open port 80/tcp on 172.20.210.66
Completed SYN Stealth Scan at 14:33, 0.22s elapsed (1000 total ports)
Initiating Service scan at 14:33
Scanning 3 services on 172.20.210.66
Completed Service scan at 14:33, 6.07s elapsed (3 services on 1 host)
Initiating OS detection (try #1) against 172.20.210.66
NSE: Script scanning 172.20.210.66.
Initiating NSE at 14:33
Completed NSE at 14:33, 5.21s elapsed
Initiating NSE at 14:33
Completed NSE at 14:33, 0.07s elapsed
Initiating NSE at 14:33
Completed NSE at 14:33, 0.00s elapsed
Nmap scan report for 172.20.210.66
Host is up (0.0017s latency).
Not shown: 997 closed tcp ports (reset)
PORT STATE SERVICE VERSION
21/tcp open ftp vsftpd 3.0.3
22/tcp open ssh OpenSSH 8.2p1 Ubuntu 4ubuntu0.2 (Ubuntu Linux; protocol 2.0)

Activate Windows
Go to Settings to activate Windows.

Nmap Output Ports / Hosts Topology Host Details Scans

nmap -T4 -A -v 172.20.210.66

Nmap scan report for 172.20.210.66
Host is up (0.0017s latency).
Not shown: 997 closed tcp ports (reset)
PORT STATE SERVICE VERSION
21/tcp open ftp vsftpd 3.0.3
22/tcp open ssh OpenSSH 8.2p1 Ubuntu 4ubuntu0.2 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
| 3072 a1a1ef1602d54f03f12e7414841de7ca (RSA)
| 256 e46a61b898eafec2c2757cddcc3a7c0d (ECDSA)
|_ 256 c520eee61c87bce30f3d30c749de24c4 (ED25519)
80/tcp open http Apache httpd 2.4.41 ((Ubuntu))
|_ http-title: Food Application
| http-methods:
|_ Supported Methods: HEAD GET POST OPTIONS
|_ http-server-header: Apache/2.4.41 (Ubuntu)
MAC Address: 08:00:27:BA:0B:DC (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Linux 4.X|5.X
OS CPE: cpe:/o:linux:linux_kernel:4 cpe:/o:linux:linux_kernel:5
OS details: Linux 4.15 - 5.6
Uptime guess: 43.477 days (since Wed Aug 24 03:06:05 2022)
Network Distance: 1 hop
TCP Sequence Prediction: Difficulty=263 (Good luck!)
IP ID Sequence Generation: All zeros
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel

TRACEROUTE

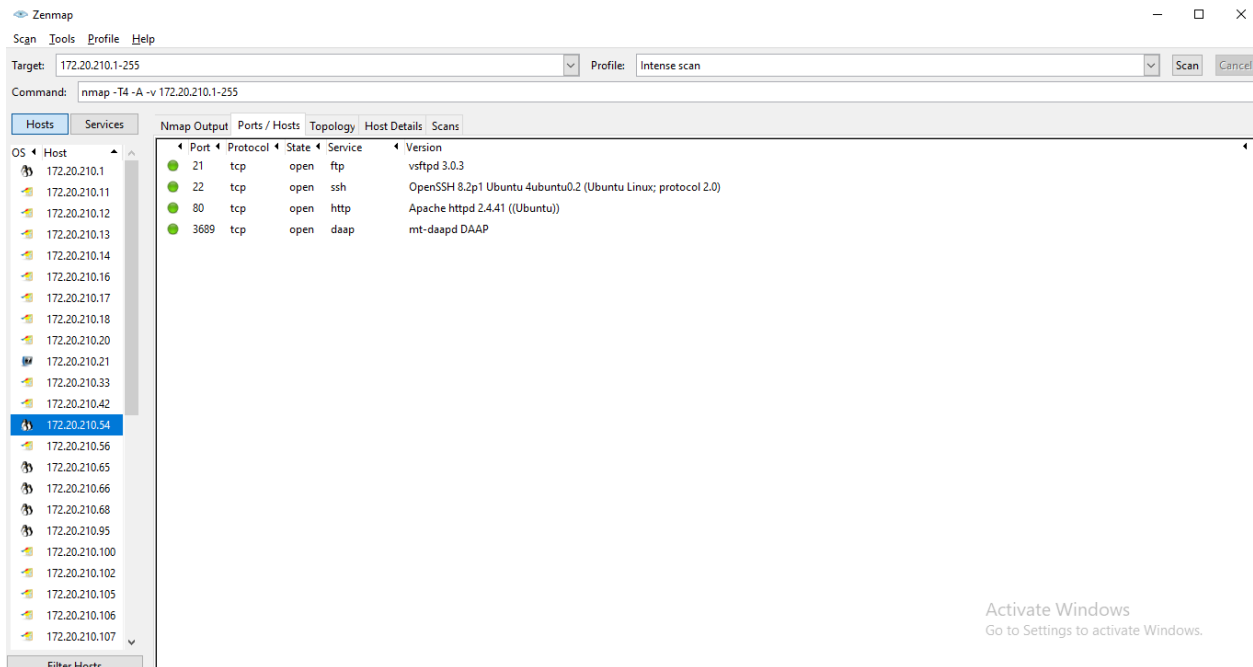
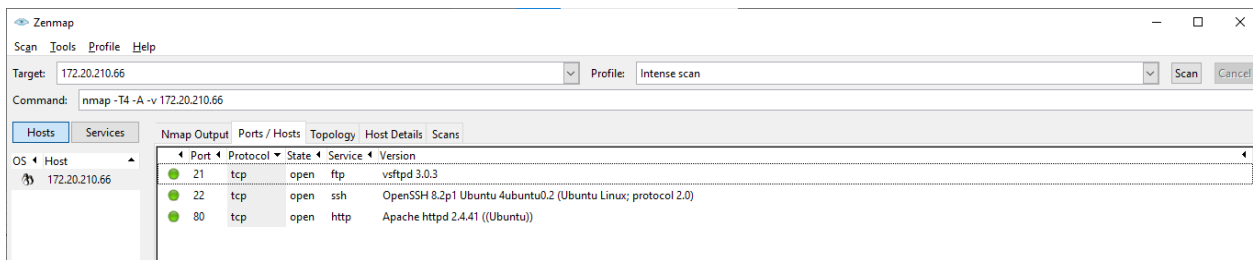
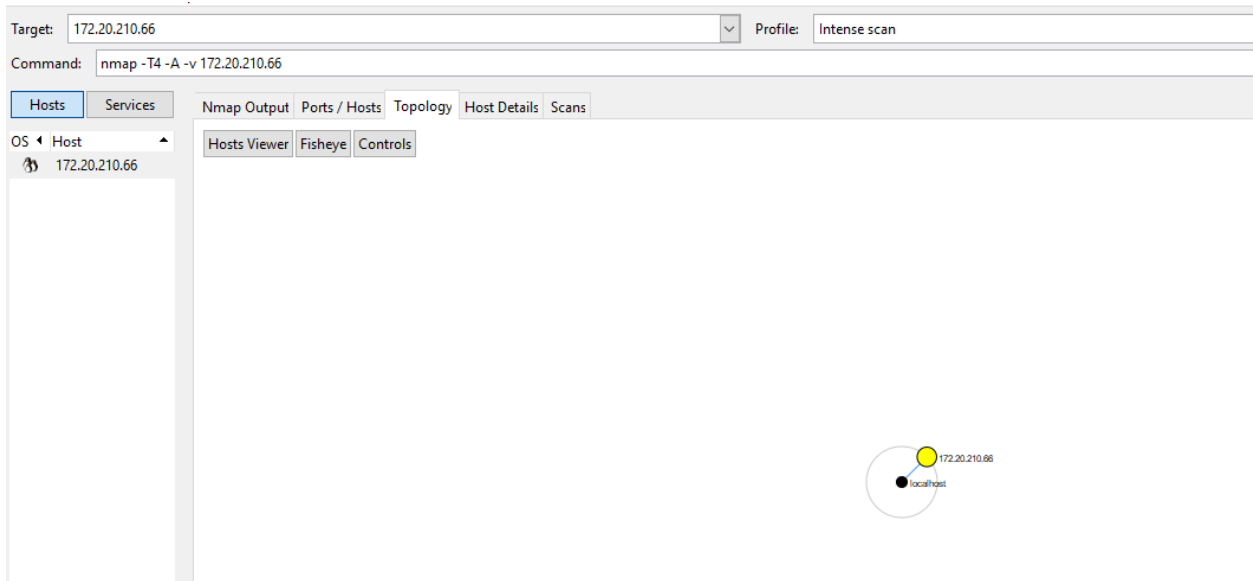
HOP	RTT	ADDRESS
1	1.70 ms	172.20.210.66

NSE: Script Post-scanning.

Initiating NSE at 14:33
Completed NSE at 14:33, 0.00s elapsed
Initiating NSE at 14:33
Completed NSE at 14:33, 0.00s elapsed
Initiating NSE at 14:33
Completed NSE at 14:33, 0.00s elapsed

Read data files from: C:\Program Files (x86)\Nmap

OS and Service detection performed. Please report any incorrect results at <https://nmap.org/submit/>.





*Untitled - Notepad

File Edit Format View Help

FTP PORT:

172.20.210.54
172.20.210.65
172.20.210.66
172.20.210.68
172.20.210.95
172.20.210.109
172.20.210.114
172.20.210.115
172.20.210.118
172.20.210.125
172.20.210.129
172.20.210.130
172.20.210.131
172.20.210.132
172.20.210.134
172.20.210.137
172.20.210.140

