NAME:-IBRAHIM KHAN

ROLL NO :-24/CS/J82

SUBMITTED TO:-

AMAN(MENTOR)

PROJECT:- MAJOR

Content pg.no

Q 1:- use nmap tool for finding info,inside the network?

ANS:-

NMAP (Network Mapper)

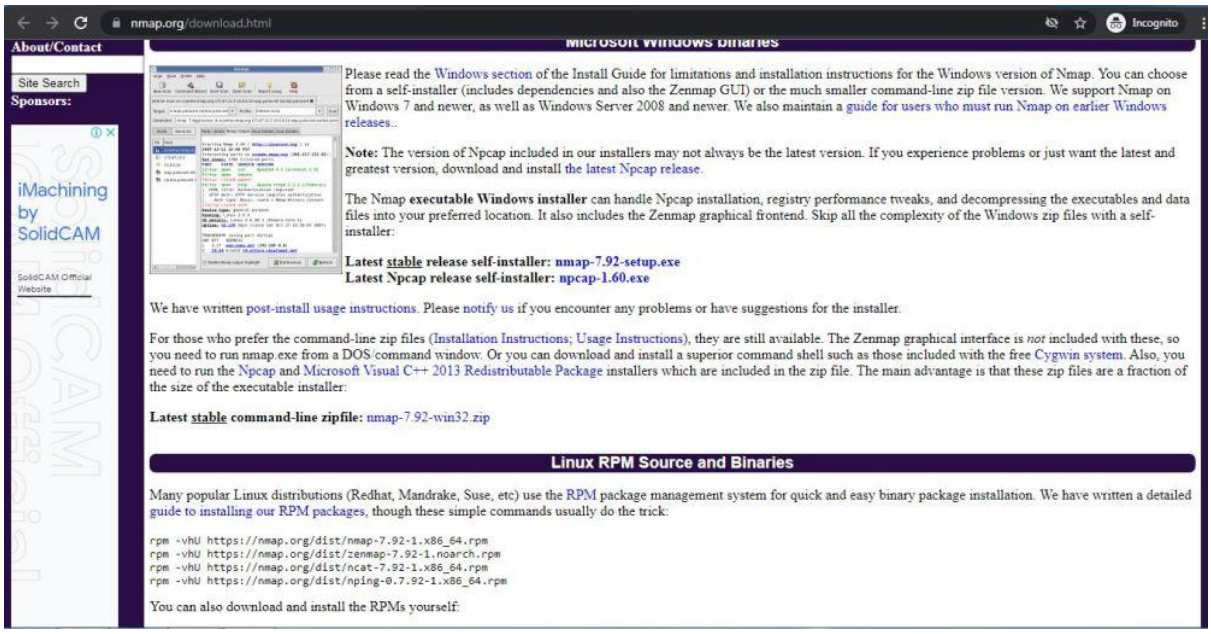
- Network scanning software.
- Developed by Gordon Lyon.
- Written in C, C++, Python, Lua.
- Initial release: 1997.
- Latest version: 7.94
- Free and open-source.
- Compatible with Windows, Mac, Linux, etc.

- Security tool for network protection.
- Features:
  - Host discovery.
  - Port scanning.
  - Application name and version detection.
  - OS and hardware detection.
  - Scriptable interaction via NSE (Nmap Scripting Engine) and Lua.

Installing Nmap on Windows

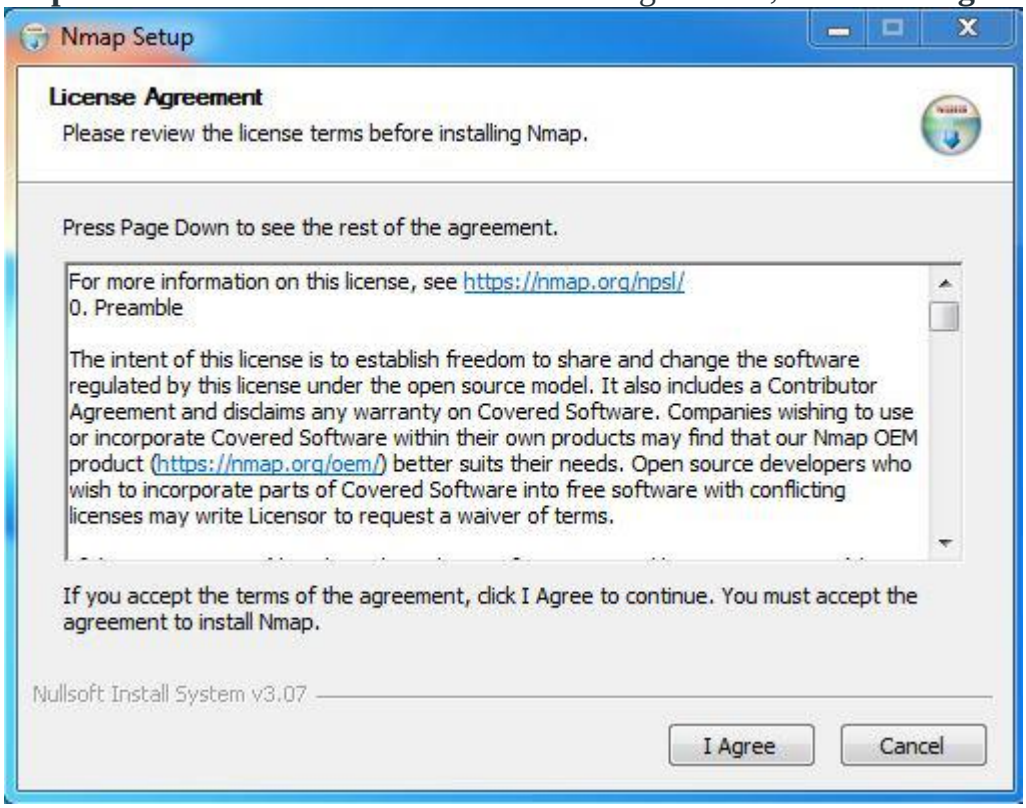
Follow the below steps to install Nmap on Windows:

Step1: Visit the official website using the URL https://nmap.org/download#windows on any web browser the click on **nmap-7.94-setup.exe**. Downloading of this executable file will start soon. It is a 31.8 MB file so it will take some minutes.

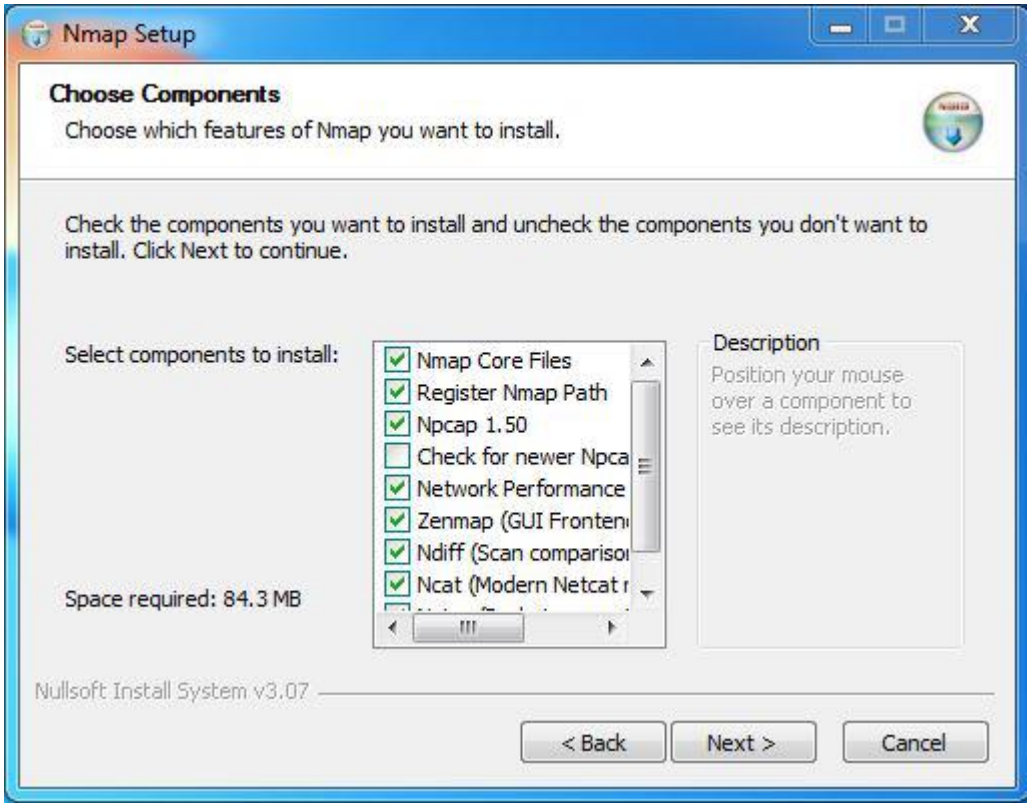


Step 2: Now check for the executable file in downloads in your system and run it.

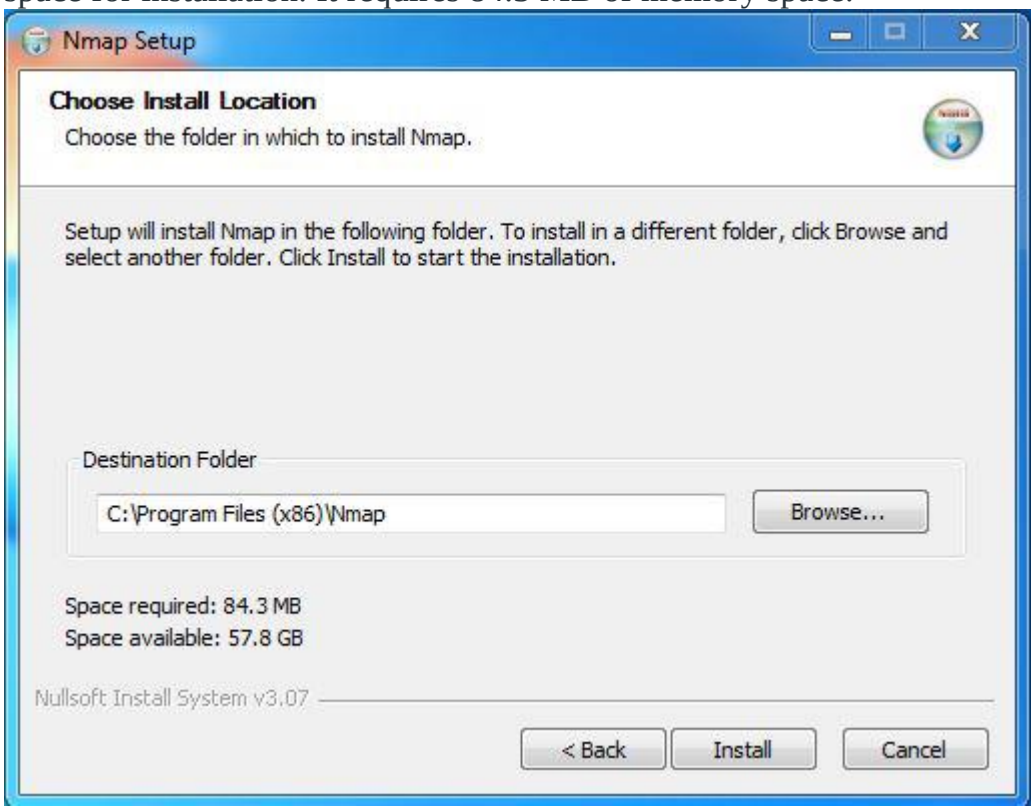
Step 3: It will prompt confirmation to make changes to your system. Click on **Yes**.
Step 4: The next screen will be of License Agreement, click on **I Agree**.



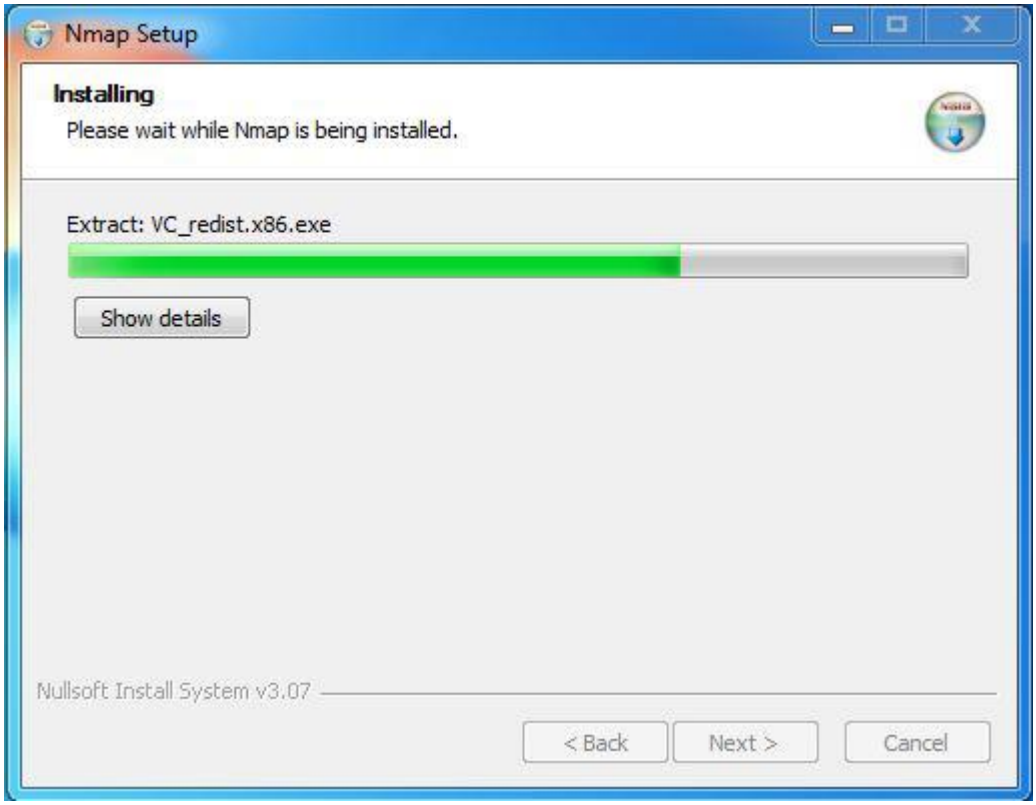
Step 5: Next screen is of choosing components, all components are already marked so don't change anything just click on the **Next** button.



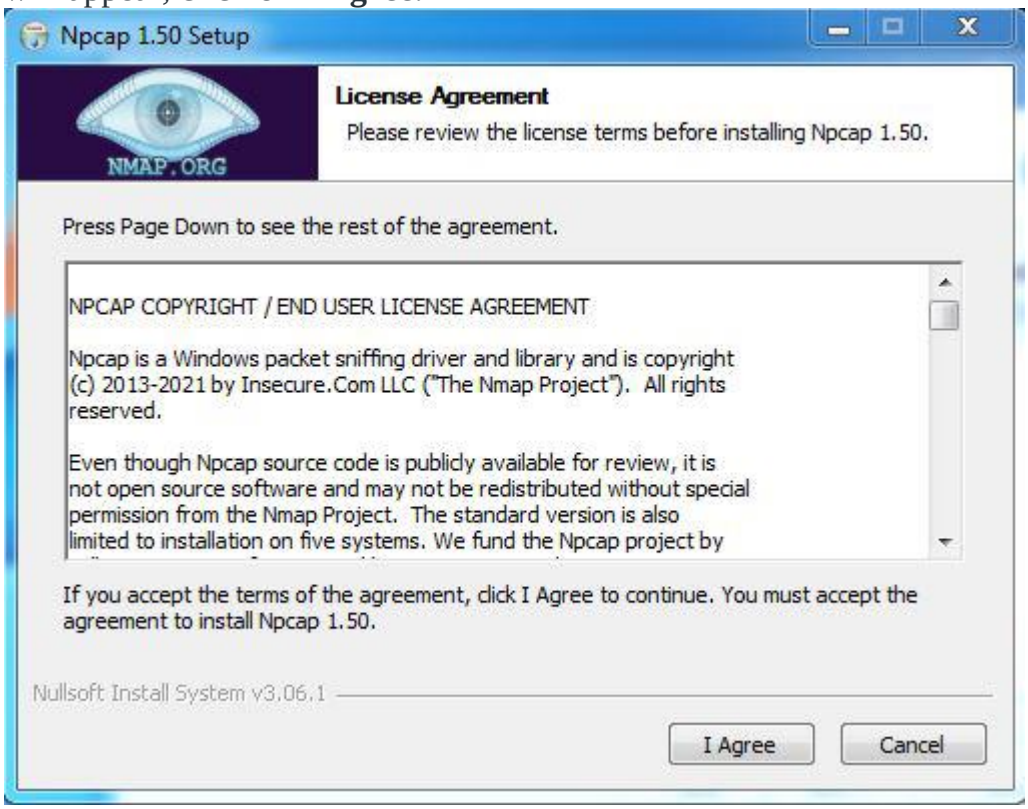
Step 6: In this step, we choose the installation location of Nmap. By default, it uses the C drive but you can change it into another drive that will have sufficient memory space for installation. It requires 84.3 MB of memory space.



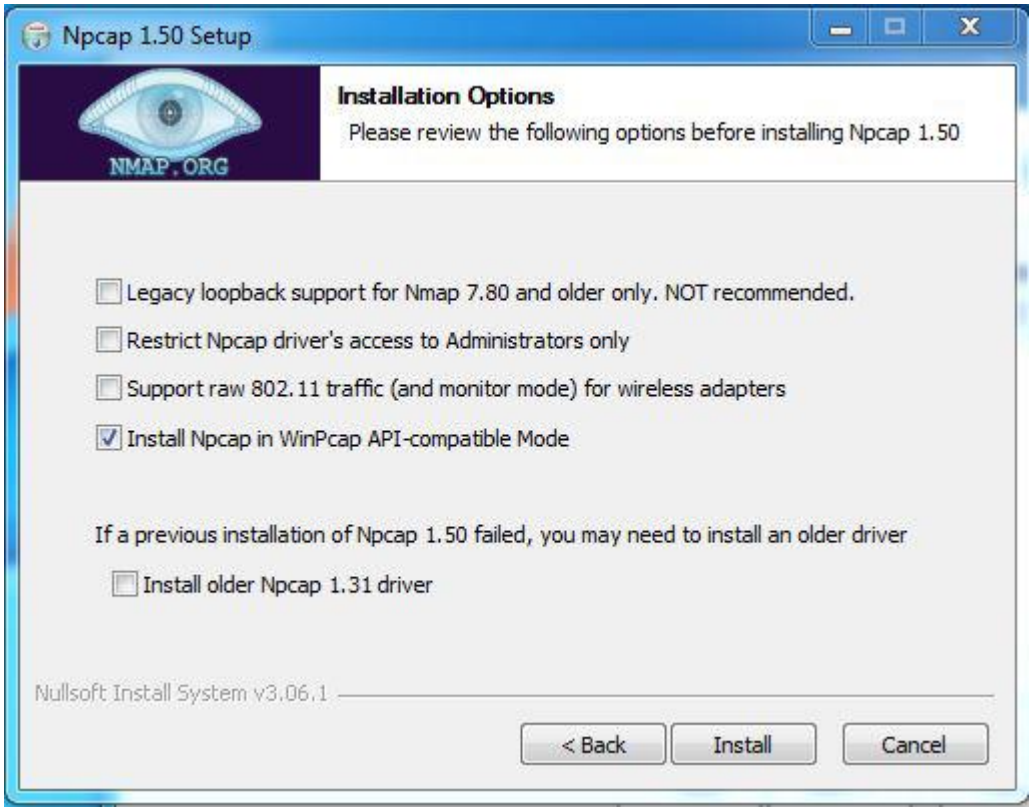
Step 7: After this installation process it will take a few minutes to complete the installation.



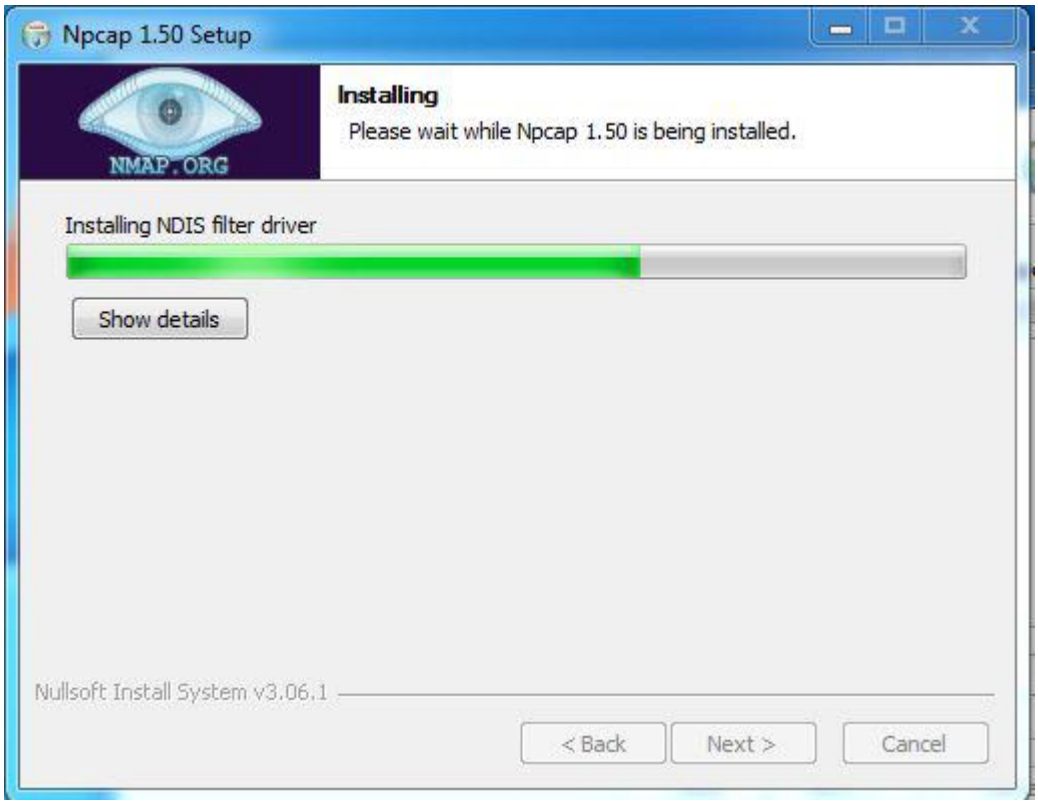
Step 8: Npcap installation will also occur with it, the screen of License Agreement will appear, click on **I Agree**.



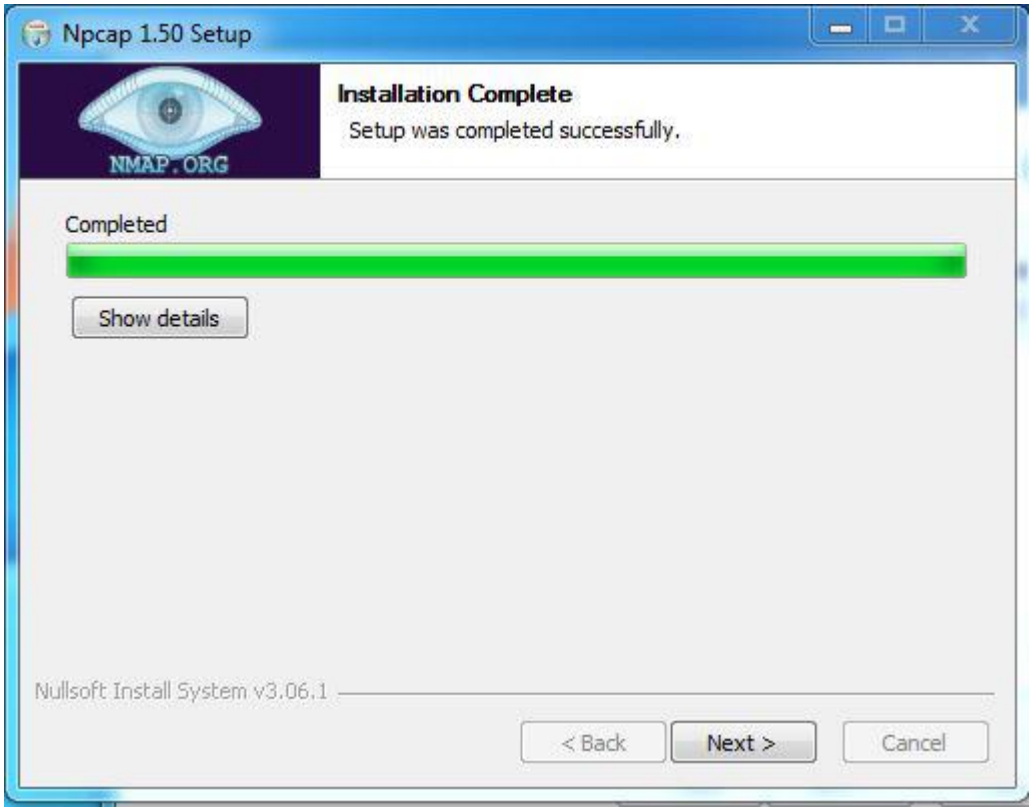
Step 9: Next screen is of installation options don't change anything and click on the **Install** button.



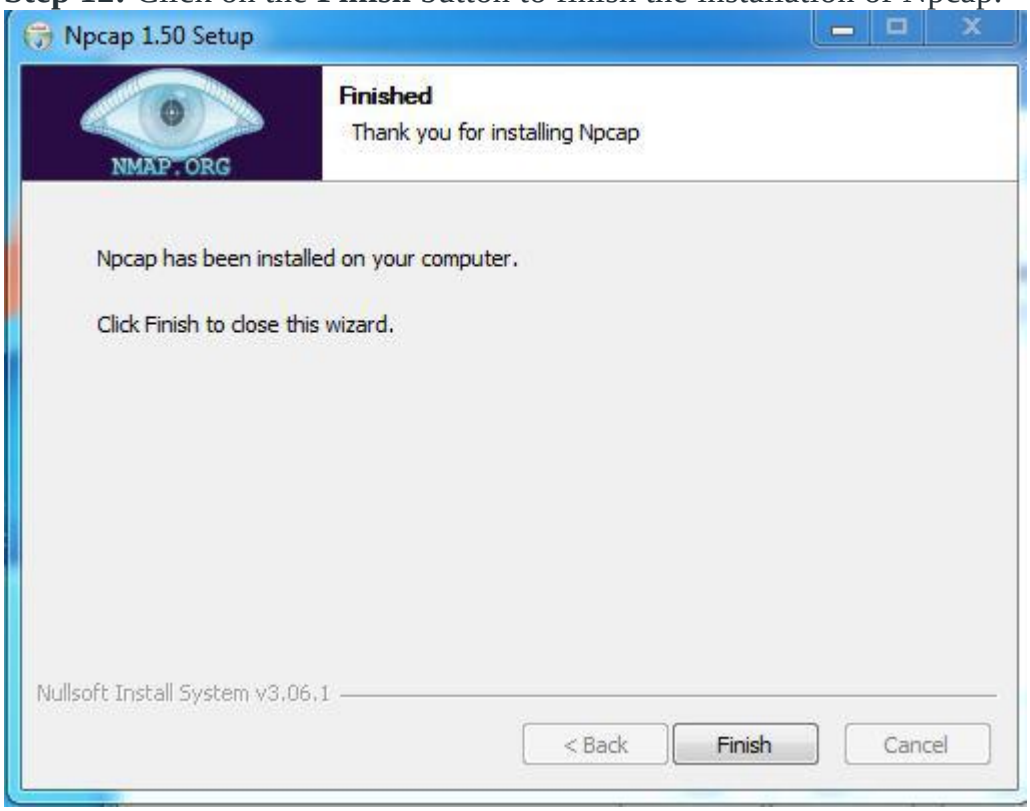
Step 10: After this installation process it will take a few minutes to complete the installation.



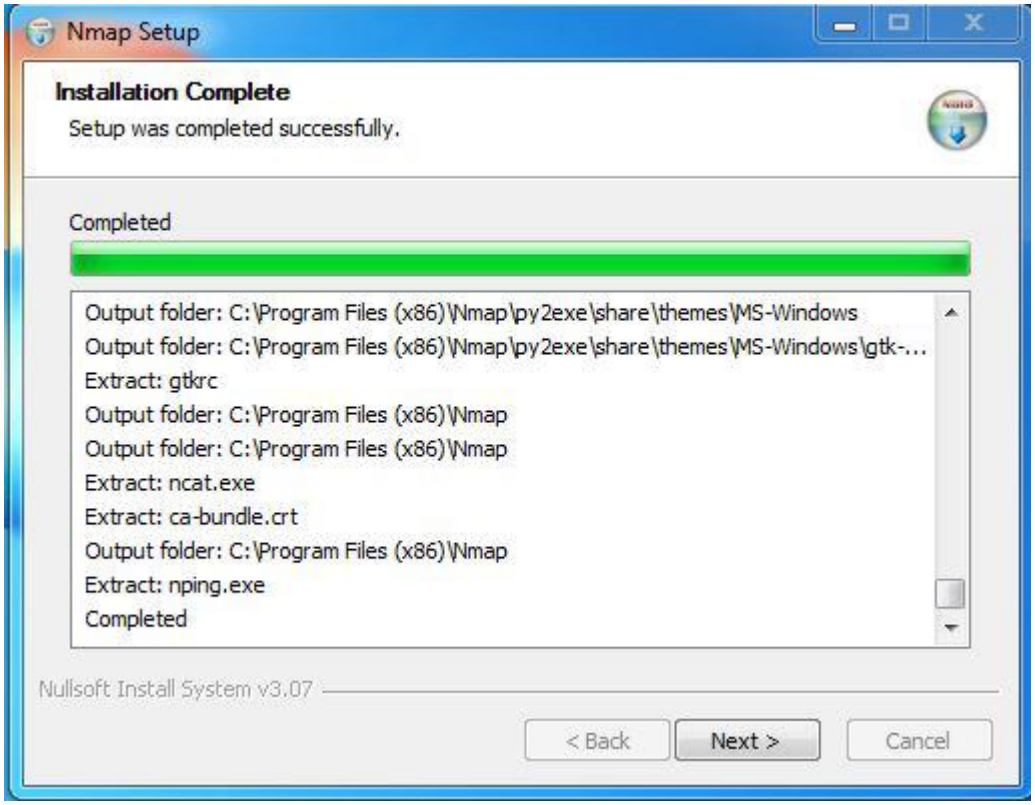
Step 11: After completion of installation click on the **Next** button.



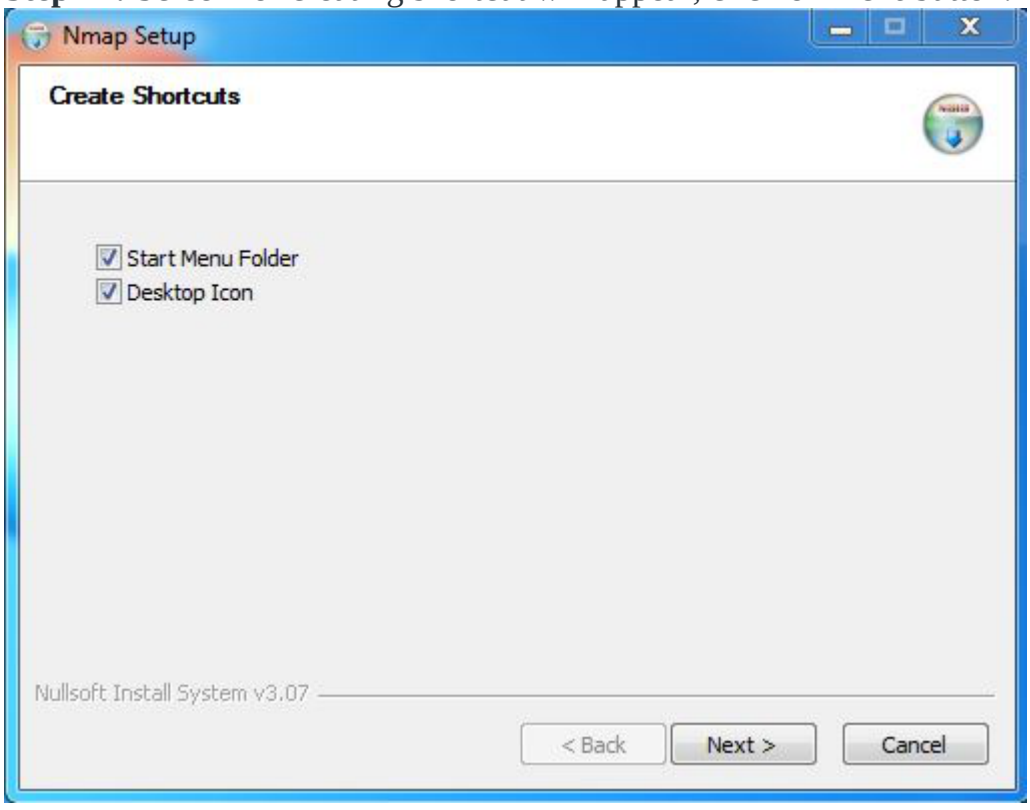
Step 12: Click on the **Finish** button to finish the installation of Npcap.



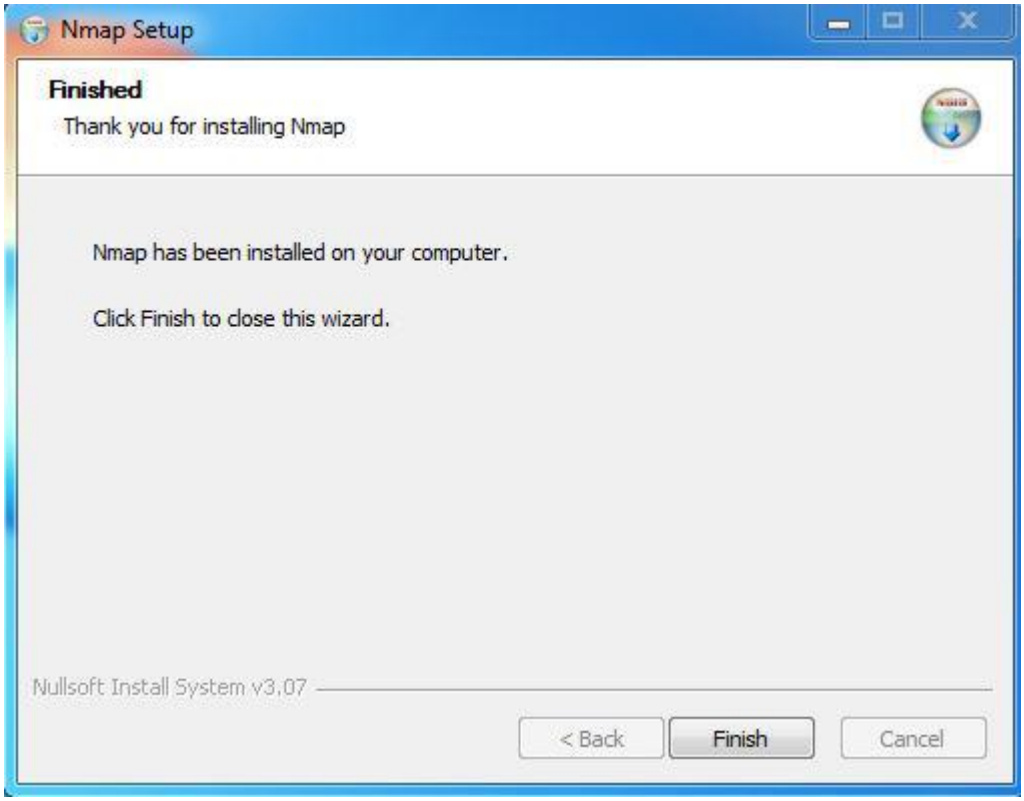
Step 13: After completion of the installation of Nmap click on **Next** button.



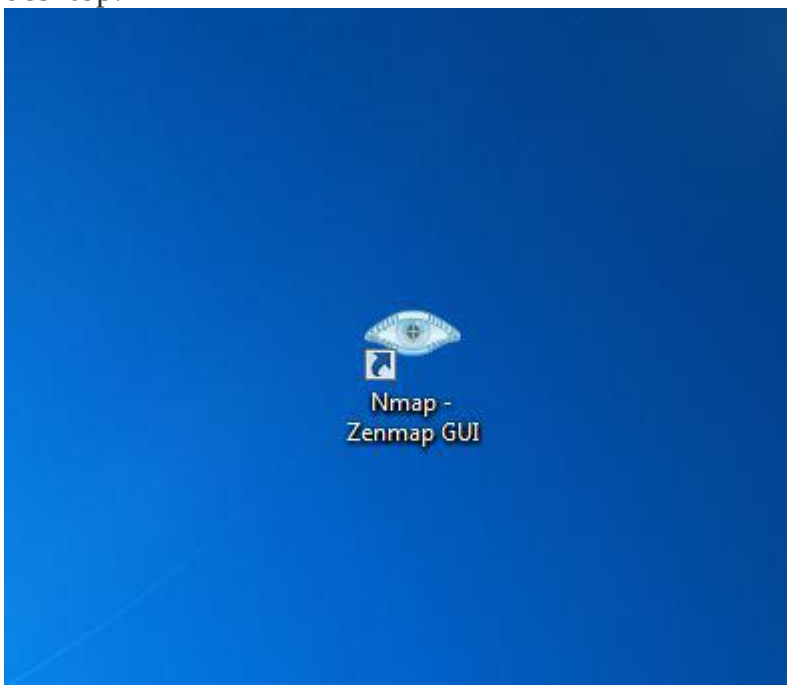
Step 14: Screen for creating shortcut will appear, click on **Next** button.



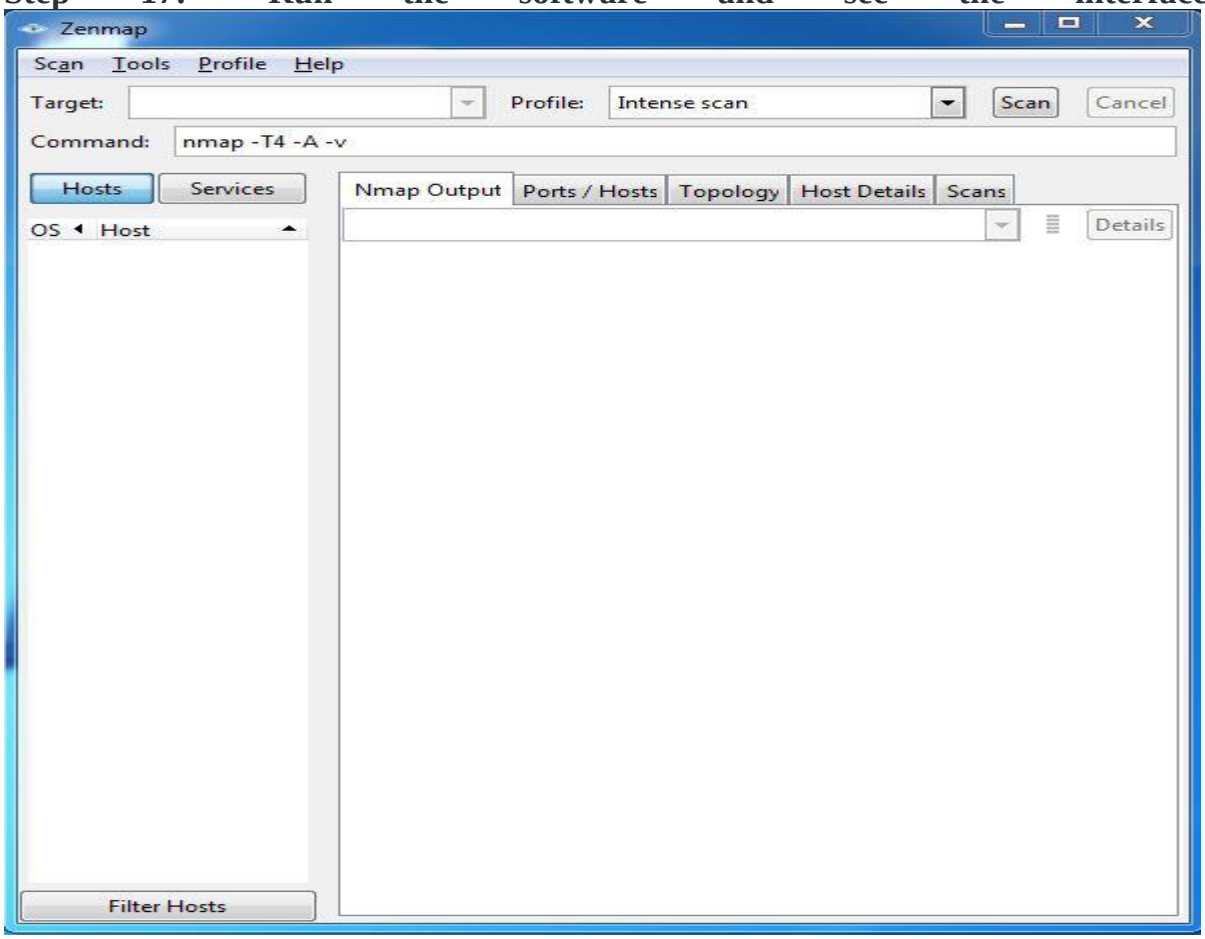
Step 15: Click on the **Finish** button to finish the installation of Nmap.



Step 16: Nmap is successfully installed on the system and an icon is created on the desktop.



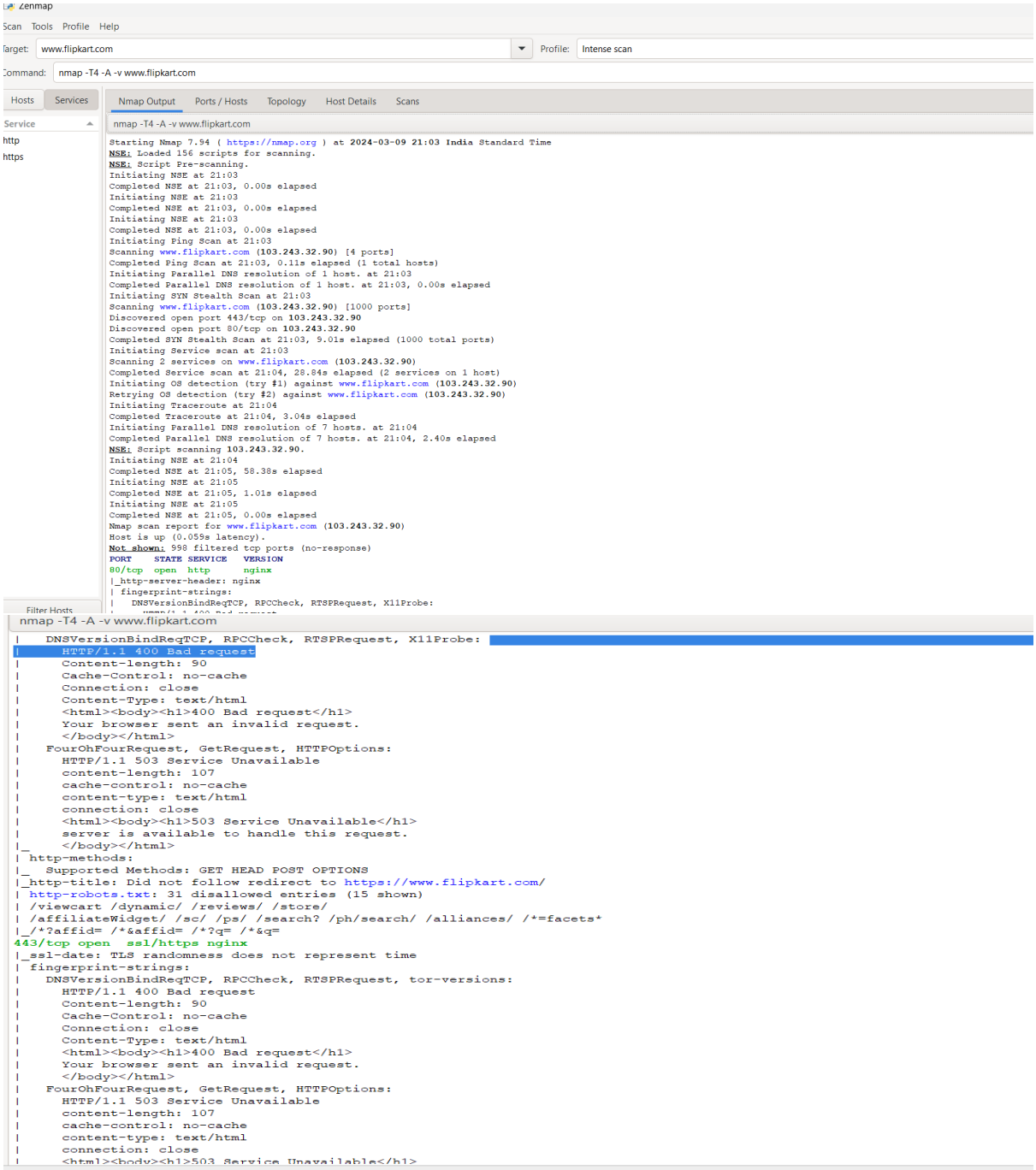
Step 17:- Run the software and see the interface



So this is how you have successfully installed Nmap on your windows system.

This material is intended for educational purposes only. Any unlawful use is strictly prohibited. Users are solely responsible for their actions.

(Zoom it u will see clearly)


Zenmap
Scan Tools Profile Help
Target: www.flipkart.com
Profile: Intense scan
Command: nmap -T4 -A -v www.flipkart.com
Hosts Services
Service
http
https
Nmap Output Ports / Hosts Topology Host Details Scans
nmap -T4 -A -v www.flipkart.com
Starting Nmap 7.94 (https://nmap.org) at 2024-03-09 21:03 India Standard Time
NSE: Loaded 156 scripts for scanning.
NSE: Script Pre-scanning.
Initiating NSE at 21:03
Completed NSE at 21:03, 0.00s elapsed
Initiating NSE at 21:03
Completed NSE at 21:03, 0.00s elapsed
Initiating NSE at 21:03
Completed NSE at 21:03, 0.00s elapsed
Initiating Ping Scan at 21:03
Scanning www.flipkart.com (103.243.32.90) [4 ports]
Completed Ping Scan at 21:03, 0.11s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 21:03
Completed Parallel DNS resolution of 1 host. at 21:03, 0.00s elapsed
Initiating SYN Stealth Scan at 21:03
Scanning www.flipkart.com (103.243.32.90) [1000 ports]
Discovered open port 443/tcp on 103.243.32.90
Discovered open port 80/tcp on 103.243.32.90
Completed SYN Stealth Scan at 21:03, 9.01s elapsed (1000 total ports)
Initiating Service scan at 21:03
Scanning 2 services on www.flipkart.com (103.243.32.90)
Completed Service scan at 21:04, 28.84s elapsed (2 services on 1 host)
Initiating OS detection (try #1) against www.flipkart.com (103.243.32.90)
Retrying OS detection (try #2) against www.flipkart.com (103.243.32.90)
Initiating Traceroute at 21:04
Completed Traceroute at 21:04, 3.04s elapsed
Initiating Parallel DNS resolution of 7 hosts. at 21:04
Completed Parallel DNS resolution of 7 hosts. at 21:04, 2.40s elapsed
NSE: Script scanning 103.243.32.90.
Initiating NSE at 21:04
Completed NSE at 21:05, 58.38s elapsed
Initiating NSE at 21:05
Completed NSE at 21:05, 1.01s elapsed
Initiating NSE at 21:05
Completed NSE at 21:05, 0.00s elapsed
Nmap scan report for www.flipkart.com (103.243.32.90)
Host is up (0.059s latency).
Not shown: 998 filtered tcp ports (no-response)
PORT STATE SERVICE VERSION
80/tcp open http nginx
|_http-server-header: nginx
| fingerprint-strings:
| DNSVersionBindReqTCP, RPCCheck, RTSPRequest, X11Probe:
Filter Hosts
nmap -T4 -A -v www.flipkart.com
| DNSVersionBindReqTCP, RPCCheck, RTSPRequest, X11Probe:
| HTTP/1.1 400 Bad request
| Content-length: 90
| Cache-Control: no-cache
| Connection: close
| Content-Type: text/html
| <html><body><h1>400 Bad request</h1>
| Your browser sent an invalid request.
| </body></html>
| FourOhFourRequest, GetRequest, HTTPOptions:
| HTTP/1.1 503 Service Unavailable
| content-length: 107
| cache-control: no-cache
| content-type: text/html
| connection: close
| <html><body><h1>503 Service Unavailable</h1>
| server is available to handle this request.
|_ </body></html>
| http-methods:
|_ Supported Methods: GET HEAD POST OPTIONS
|_http-title: Did not follow redirect to https://www.flipkart.com/
| http-robots.txt: 31 disallowed entries (15 shown)
| /viewcart /dynamic/ /reviews/ /store/
| /affiliateWidget/ /sc/ /ps/ /search? /ph/search/ /alliances/ /*=facets*
|_/*?affid= /*&affid= /*?q= /*&q=
443/tcp open ssl/https nginx
|_ssl-date: TLS randomness does not represent time
| fingerprint-strings:
| DNSVersionBindReqTCP, RPCCheck, RTSPRequest, tor-versions:
| HTTP/1.1 400 Bad request
| Content-length: 90
| Cache-Control: no-cache
| Connection: close
| Content-Type: text/html
| <html><body><h1>400 Bad request</h1>
| Your browser sent an invalid request.
| </body></html>
| FourOhFourRequest, GetRequest, HTTPOptions:
| HTTP/1.1 503 Service Unavailable
| content-length: 107
| cache-control: no-cache
| content-type: text/html
| connection: close
| <html><body><h1>503 Service Unavailable</h1>

```
|      <html><body><h1>503 Service Unavailable</h1>
|      server is available to handle this request.
|_     </body></html>
| ssl-cert: Subject: commonName=www.flipkart.com/organizationName=FLIPKART HEALTH LIMITED
| Subject Alternative Name: DNS:www.flipkart.com, DNS:tech.flipkart.com, DNS:bhaskar.stor
DNS:offers.store.flipkart.com, DNS:axis.store.flipkart.com, DNS:airtel.store.flipkart.com
DNS:insurance.flipkart.com, DNS:auth.flipkart.com, DNS:pay.flipkart.com, DNS:yono.store.f
| Issuer: commonName=GlobalSign ECC OV SSL CA 2018/organizationName=GlobalSign nv-sa/coun
| Public Key type: ec
| Public Key bits: 256
| Signature Algorithm: ecdsa-with-SHA384
| Not valid before: 2023-07-31T08:53:31
| Not valid after:  2024-08-31T08:53:30
| MD5:   3b4e:416b:8885:85b8:e1a4:45a5:50c4:260a
|_SHA-1: 5cc3:b7bb:d9f2:5757:974e:8181:065c:1649:1b99:2fa0
|_http-server-header: nginx
| http-methods:
|_  Supported Methods: OPTIONS
|_http-title: Online Shopping Site for Mobiles, Electronics, Furniture, Groc...
| http-robots.txt: 31 disallowed entries (15 shown)
| /viewcart /dynamic/ /reviews/ /store/
| /affiliateWidget/ /sc/ /ps/ /search? /ph/search/ /alliances/ /*=facets*
|_/*?affid= /*&affid= /*?q= /*&q=
2 services unrecognized despite returning data. If you know the service/version, please s
==============NEXT SERVICE FINGERPRINT (SUBMIT INDIVIDUALLY)==============
SF-Port80-TCP:V=7.94%I=7%D=3/9%Time=65EC8159%P=i686-pc-windows-windows%r(G
SF:etRequest,E9,"HTTP/1\.1\x20503\x20Service\x20Unavailable\r\ncontent-len
SF:gth:\x20107\r\ncache-control:\x20no-cache\r\ncontent-type:\x20text/html
SF:\r\nconnection:\x20close\r\n\r\n<html><body><h1>503\x20Service\x20Unava
SF:ilable</h1>\nNo\x20server\x20is\x20available\x20to\x20handle\x20this\x2
SF:0request\.\n</body></html>\n")%r(HTTPOptions,E9,"HTTP/1\.1\x20503\x20Se
SF:rvice\x20Unavailable\r\ncontent-length:\x20107\r\ncache-control:\x20no-
SF:cache\r\ncontent-type:\x20text/html\r\nconnection:\x20close\r\n\r\n<htm
SF:l><body><h1>503\x20Service\x20Unavailable</h1>\nNo\x20server\x20is\x20a
SF:vailable\x20to\x20handle\x20this\x20request\.\n</body></html>\n")%r(RTS
SF:PRequest,CF,"HTTP/1\.1\x20400\x20Bad\x20request\r\nContent-length:\x209
SF:0\r\nCache-Control:\x20no-cache\r\nConnection:\x20close\r\nContent-Type
SF::\x20text/html\r\n\r\n<html><body><h1>400\x20Bad\x20request</h1>\nYour\
SF:x20browser\x20sent\x20an\x20invalid\x20request\.\n</body></html>\n")%r(
SF:X11Probe,CF,"HTTP/1\.1\x20400\x20Bad\x20request\r\nContent-length:\x209
SF:0\r\nCache-Control:\x20no-cache\r\nConnection:\x20close\r\nContent-Type
SF::\x20text/html\r\n\r\n<html><body><h1>400\x20Bad\x20request</h1>\nYour\
SF:x20browser\x20sent\x20an\x20invalid\x20request\.\n</body></html>\n")%r(
```

nmap -T4 -A -v www.flipkart.com

```
SF:\.1\x20400\x20Bad\x20request\r\nContent-length:\x2090\r\nCache-Control:
SF:\x20no-cache\r\nConnection:\x20close\r\nContent-Type:\x20text/html\r\n\
SF:r\n<html><body><h1>400\x20Bad\x20request</h1>\nYour\x20browser\x20sent\
SF:x20an\x20invalid\x20request\.\n</body></html>\n")%r(RPCCheck,CF,"HTTP/1
SF:\.1\x20400\x20Bad\x20request\r\nContent-length:\x2090\r\nCache-Control:
SF:\x20no-cache\r\nConnection:\x20close\r\nContent-Type:\x20text/html\r\n\
SF:r\n<html><body><h1>400\x20Bad\x20request</h1>\nYour\x20browser\x20sent\
SF:x20an\x20invalid\x20request\.\n</body></html>\n")%r(DNSVersionBindReqTC
SF:P,CF,"HTTP/1\.1\x20400\x20Bad\x20request\r\nContent-length:\x2090\r\nCa
SF:che-Control:\x20no-cache\r\nConnection:\x20close\r\nContent-Type:\x20te
SF:xt/html\r\n\r\n<html><body><h1>400\x20Bad\x20request</h1>\nYour\x20brow
SF:ser\x20sent\x20an\x20invalid\x20request\.\n</body></html>\n");
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
OS fingerprint not ideal because: Missing a closed TCP port so results incomplete
No OS matches for host
Uptime guess: 0.001 days (since Sat Mar  9 21:04:11 2024)
Network Distance: 11 hops
TCP Sequence Prediction: Difficulty=256 (Good luck!)
IP ID Sequence Generation: All zeros

TRACEROUTE (using port 443/tcp)
HOP RTT      ADDRESS
1   2.00 ms  192.168.179.213
2   30.00 ms 192.168.59.1
3   31.00 ms nsg-corporate-250.40.185.122.airtel.in (122.185.40.250)
4   32.00 ms nsg-corporate-253.40.185.122.airtel.in (122.185.40.253)
5   81.00 ms 116.119.106.108
6   89.00 ms nsg-corporate-190.94.187.122.airtel.in (122.187.94.190)
7   ... 10
11  73.00 ms 103.243.32.90

NSE: Script Post-scanning.
Initiating NSE at 21:05
Completed NSE at 21:05, 0.00s elapsed
Initiating NSE at 21:05
Completed NSE at 21:05, 0.00s elapsed
Initiating NSE at 21:05
Completed NSE at 21:05, 0.00s elapsed
Read data files from: C:\Users\LENOVO\Desktop\New folder\Nmap
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 109.26 seconds
           Raw packets sent: 2106 (96.372KB) | Rcvd: 96 (5.208KB)
```

some information about targets www.flipkart.com:

1. **Host Information**:
   - IP Address: 103.243.32.90
   - Host is up with a latency of 0.078 seconds.

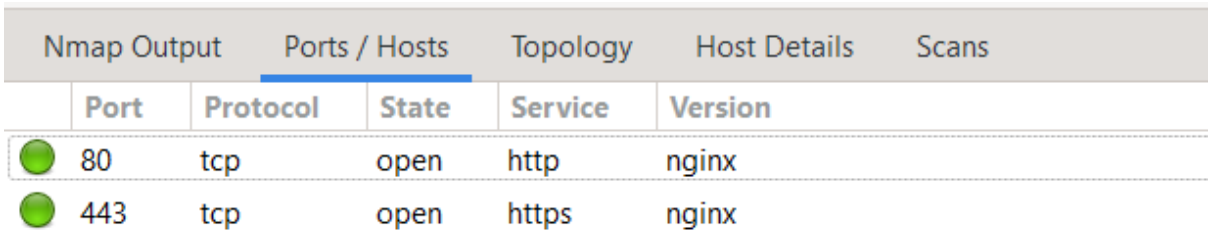
2. **Open Ports**:
   - Port 80/tcp: Open, running HTTP service (nginx).
   - Port 443/tcp: Open, running SSL/HTTPS service (nginx).

3. **HTTP Service** (Port 80/tcp):
   - Server: nginx
   - Supported HTTP Methods: GET, HEAD, POST, OPTIONS
   - HTTP Title: The scan did not follow the redirect to https://www.flipkart.com/
   - Robots.txt Disallowed Entries: 31 entries

4. **HTTPS Service** (Port 443/tcp):
   - Server: nginx
   - SSL Certificate Information:
     - Subject: CommonName=www.flipkart.com, OrganizationName=FLIPKART HEALTH LIMITED, StateOrProvinceName=West Bengal, CountryName=IN
     - Subject Alternative Name: Various subdomains of flipkart.com
     - Issuer: CommonName=GlobalSign ECC OV SSL CA 2018, OrganizationName=GlobalSign nv-sa, CountryName=BE
     - Validity: From July 31, 2023, to August 31, 2024

5. **Operating System Detection**:
   - Device Type: General purpose
   - Running OS (Guessed): OpenBSD
   - Aggressive OS Guess: OpenBSD
   - Uptime Guess: 0.001 days

6. **Network Distance**: 11 hops

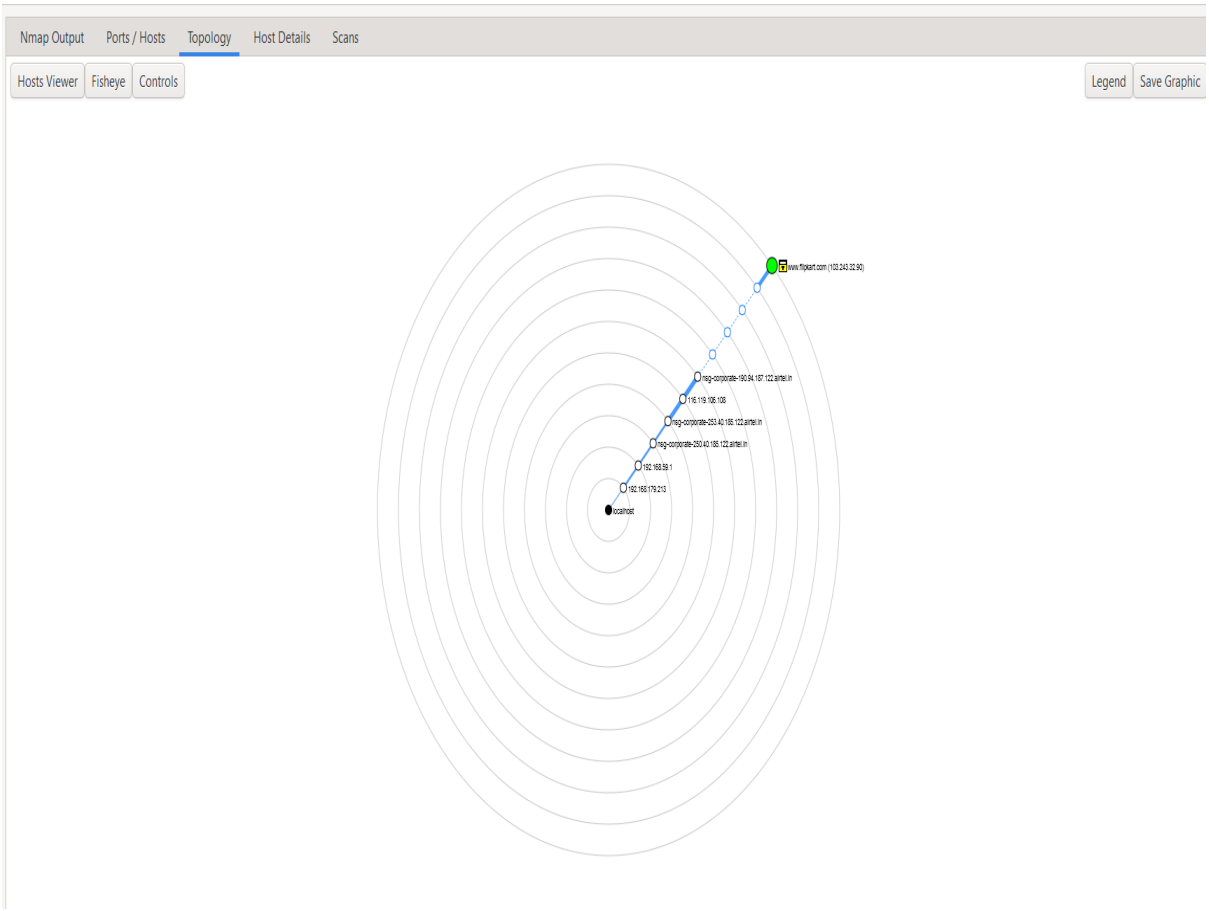


- **Hosts**: Devices like computers, servers, or smartphones on a network.
- **Ports**: Channels on a host through which network traffic flows, allowing different types of communication.

Here are the ports and hosts provided:

- **Port 80**:
  - Protocol: TCP
  - State: Open
  - Service: HTTP

- **Port 443**:
  - Protocol: TCP
  - State: Open
  - Service: HTTPS



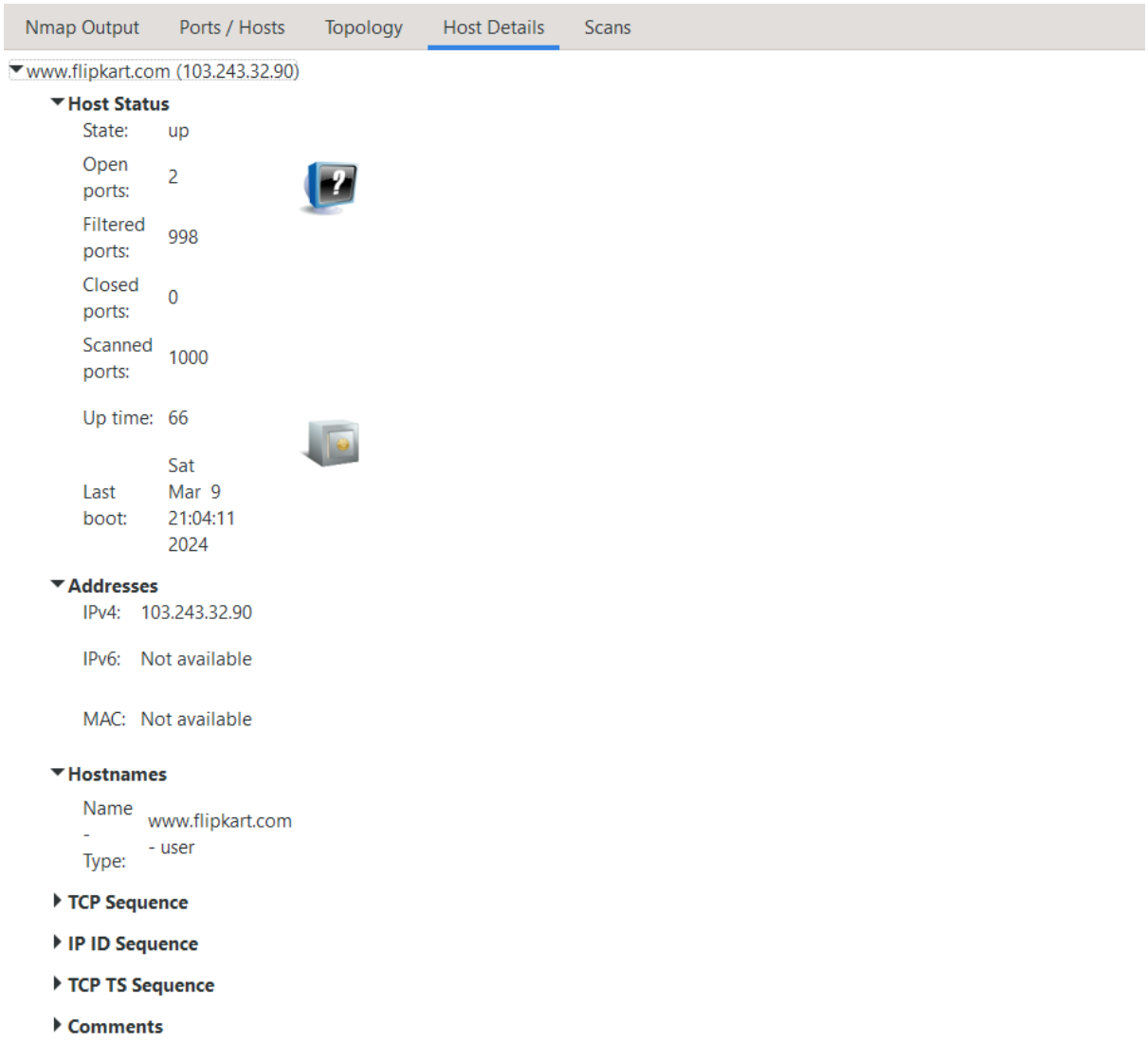
Topology refers to the arrangement or structure of interconnected elements within a system, such as a network.

Hosts Viewer allows you to view and manage information about scanned hosts, including their IP addresses, hostnames, open ports, and other details.

Fisheye is a feature in Nmap that provides a broad overview of the results of a scan, allowing you to quickly identify patterns or anomalies in the data.

Controls in Nmap refer to various options and parameters that you can use to customize and control the behavior of the scan. This includes options like specifying target hosts, scan types, timing options, output formats, and more.

- www.flipkart.com **(105.243.32.90)**: This is the target host being scanned.
- **nsg-corporate-190.94.107.122.airtel.in**: This appears to be a router or gateway device (nsg-corporate) within the Airtel network (airtel.in), with the IP address 190.94.107.122.
- **116.119.106.105**: This is another intermediate device with the IP address 116.119.106.105.
- **nsg-corporate-253.40.105.122.airtel.in**: Similar to the first one, this seems to be another router or gateway device within the Airtel network, with the IP address 40.105.122.
- **nsg-corporate-254.40.185.122.airtel.in**: Another router or gateway device within the Airtel network, with the IP address 40.185.122.
- **192.168.59.1 and 192.168.179.213**: These are private IP addresses, likely representing local devices within a private network.
- **localhost**: This typically refers to the local machine or device on which the Nmap scan is being executed.



- **Host Status**:

  - The host is **open**, indicating it's accessible.

  - **Filtered ports**: Some ports couldn't be reached due to filtering.

  - **Closed ports**: No services found on these ports.

- **Ports Scanned**:

  - A total of 1000 ports were scanned.

  - Only 2 ports were found to be up and responsive.

- **Uptime**:

  - The host has been up for 66 seconds.

  - Last booted on March 9, 2024, at 21:04:11.

- **Addresses**:
  - IPv4 address: 103.243.32.90
  - IPv6 address: Not available
  - MAC address: Not available

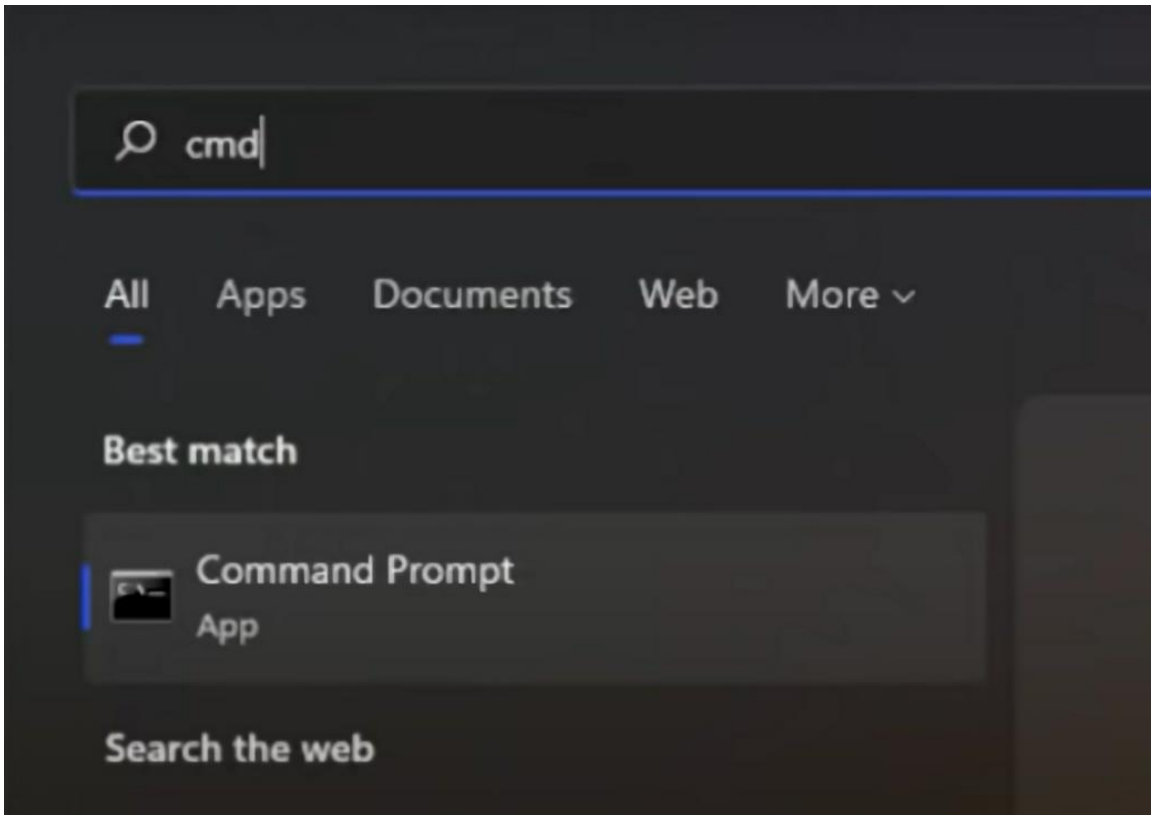
- **Hostnames**:
  - The hostname is www.flipkart.com, representing the target.

- **Comments**:
  - Additional information such as TCP sequence and IP ID sequence is available but not specified.

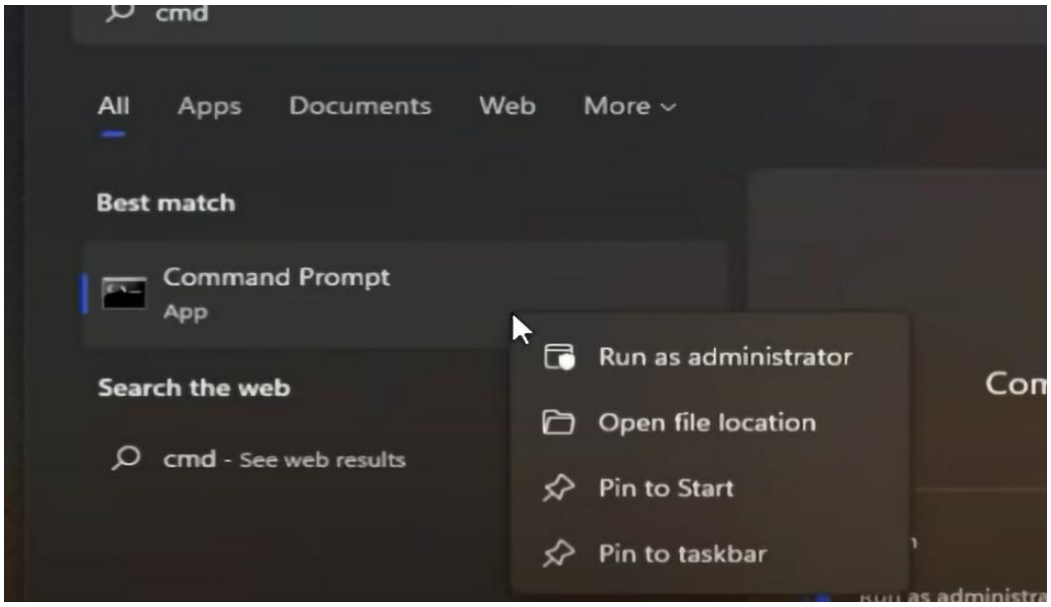
Q 2:- write and explain commands in window command prompt for network/service details?

ANS:-

Step 1:- go to the search bar of your computer and search cmd



Step 2:- right click and put the mouse



click to run administrator.

Step2:- your cmd command prompt will open

ipconfig:

- **Explanation**: Displays the current TCP/IP network configuration values. This includes IP address, subnet mask, default gateway, etc.
- **When to use**:
  - Troubleshooting network connectivity issues.
  - Verifying network settings.

- Renewing or releasing IP addresses.

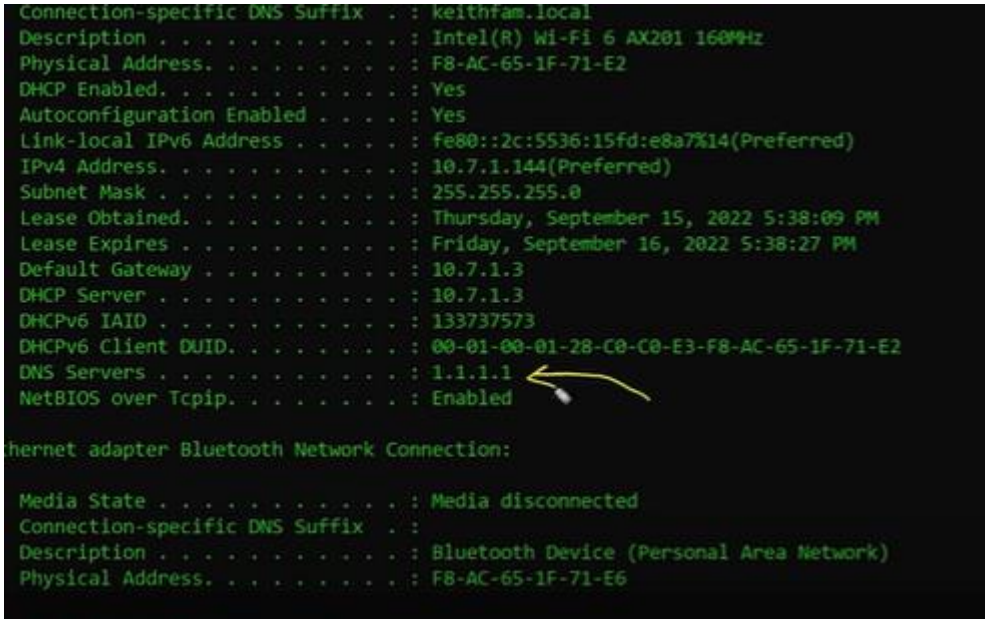
```
C:\WINDOWS\system32>ipconfig
```

```
Wireless LAN adapter Local Area Connection* 1:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 2:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Wi-Fi:

   Connection-specific DNS Suffix  . : keithfam.local
   Link-local IPv6 Address . . . . . : fe80::2c:5536:15fd:e8a7%14
   IPv4 Address. . . . . . . . . . . : 10.7.1.144
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 10.7.1.3

Ethernet adapter Bluetooth Network Connection:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :
```

ipconfig /all:

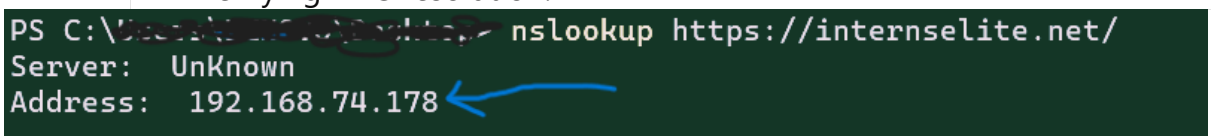
- **Explanation**: Provides detailed information about the network configuration, including DNS servers, DHCP server, MAC address, etc.
- **When to use**:
  - Diagnosing complex network issues.
  - Gathering detailed network information.

```
:\WINDOWS\system32>
:\WINDOWS\system32>ipconfig /all
```



nslookup:

- **Explanation**: A network administration command-line tool used for querying the Domain Name System (DNS) to obtain domain name or IP address mapping, or other DNS records.
- **When to use**:
    - Troubleshooting DNS-related issues.
    - Checking DNS records for a domain.
    - Verifying DNS resolution.



ping:

- **Explanation**: Sends ICMP Echo Request messages to a specified network host to check if it's reachable and measure the round-trip time.
- **When to use**:
    - Testing connectivity to a remote host.
    - Diagnosing network latency issues.
    - Verifying network availability.

```
PS C:\Users\LENOVO\Desktop> ping www.google.com

Pinging www.google.com [172.217.160.228] with 32 bytes of data:
Reply from 172.217.160.228: bytes=32 time=48ms TTL=56
Reply from 172.217.160.228: bytes=32 time=58ms TTL=56
Reply from 172.217.160.228: bytes=32 time=104ms TTL=56
Reply from 172.217.160.228: bytes=32 time=56ms TTL=56

Ping statistics for 172.217.160.228:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 48ms, Maximum = 104ms, Average = 66ms
```

tracert:

- **Explanation**: Traces the route taken by packets from the source to the destination, showing the number of hops and the time taken by each.
- **When to use**:
  - Identifying network routing issues.
  - Troubleshooting slow network connections.
  - Analyzing network paths.

```
PS C:\Users\LENOVO\Desktop> tracert www.internselite.net

Tracing route to www.internselite.net [139.59.38.226]
over a maximum of 30 hops:

  1     1 ms     1 ms     1 ms  192.168.74.178
  2    43 ms    35 ms    24 ms  10.50.101.4
  3    52 ms    34 ms    26 ms  10.50.101.105
  4    29 ms    23 ms    22 ms  10.188.90.166
  5    36 ms    34 ms    34 ms  abts-north-static-141.180.144.59.airtelbroadband.in [59.144.180.141]
  6    71 ms    77 ms    72 ms  116.119.49.150
  7   141 ms    91 ms    74 ms  182.79.27.226
  8    91 ms    97 ms    84 ms  143.244.225.127
```

netstat:

- **Explanation**: Displays active network connections, routing tables, interface statistics, masquerade connections, multicast memberships, and other network-related information.
- **When to use**:
  - Monitoring network connections.
  - Identifying network usage.
  - Diagnosing network performance issues.

```
PS C:\Users\LENOVO\Desktop> netstat

Active Connections

  Proto  Local Address          Foreign Address        State
  TCP    192.168.74.202:15485   52.111.252.6:https     ESTABLISHED
  TCP    192.168.74.202:15551   sh-in-f188:5228        ESTABLISHED
  TCP    192.168.74.202:15569   del03s09-in-f3:https   TIME_WAIT
  TCP    192.168.74.202:15572   ec2-13-126-70-76:https  ESTABLISHED
  TCP    192.168.74.202:15573   del12s06-in-f14:https  TIME_WAIT
  TCP    192.168.74.202:15574   del11s13-in-f1:https   TIME_WAIT
  TCP    192.168.74.202:15575   del12s11-in-f14:https  TIME_WAIT
  TCP    192.168.74.202:15578   del11s11-in-f14:https  TIME_WAIT
  TCP    192.168.74.202:15579   www:https              TIME_WAIT
  TCP    192.168.74.202:15580   del12s02-in-f10:https  TIME_WAIT
  TCP    192.168.74.202:15583   ec2-54-218-245-8:https  TIME_WAIT
  TCP    192.168.74.202:15585   52.168.117.171:https   TIME_WAIT
```

Q 3:- use website copying tool for website copy (Httrack)?

ANS 3)

HTTRACK

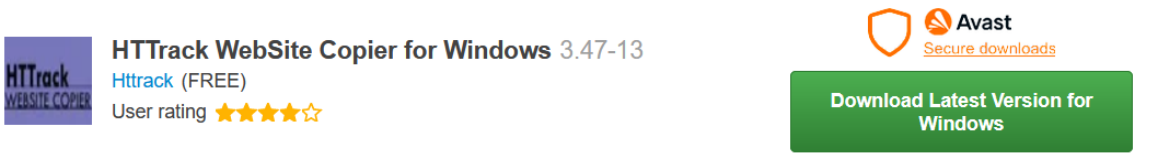
HTTrack is a popular website copying tool that allows users to download entire websites for offline browsing. Here are the key points about HTTrack:

1. **Website Mirroring**: HTTrack allows users to duplicate entire websites onto their local storage, capturing HTML, images, CSS, JavaScript, and other resources.
2. **Offline Browsing**: Users can access the mirrored version of websites offline, offering convenient browsing when internet connectivity is unavailable or unreliable.
3. **Recursive Retrieval**: Employing a recursive retrieval algorithm, HTTrack systematically follows links within a website, downloading all associated pages and resources to ensure a comprehensive copy.
4. **Customizable Settings**: HTTrack offers flexible configuration options, enabling users to specify parameters such as link depth, file types for download, and bandwidth limits.
5. **HTML Parsing**: HTTrack parses HTML files to adjust links and resources, ensuring seamless functionality of the mirrored website offline, even when the original website employs absolute URLs.

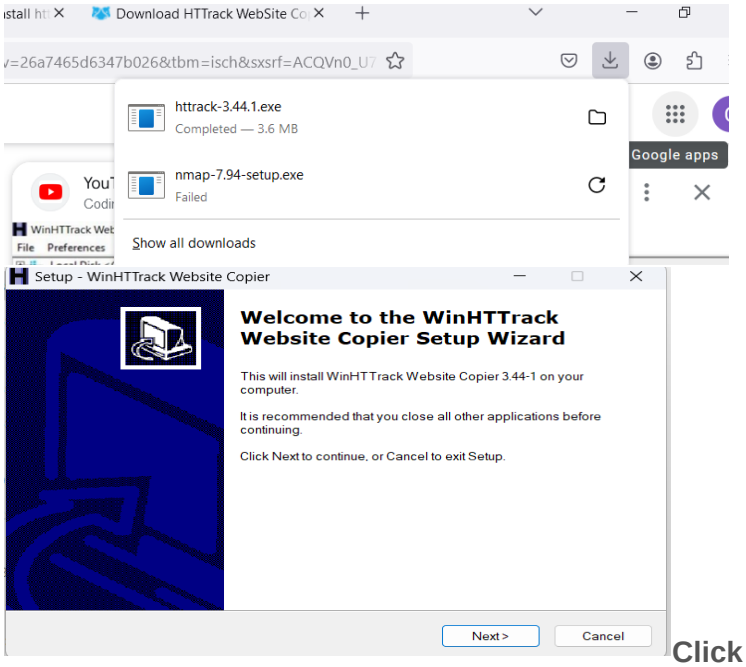
Installation

Step1:-Go to the website: https://filehippo.com/download_httrack-website-copier/

And Press the download button.

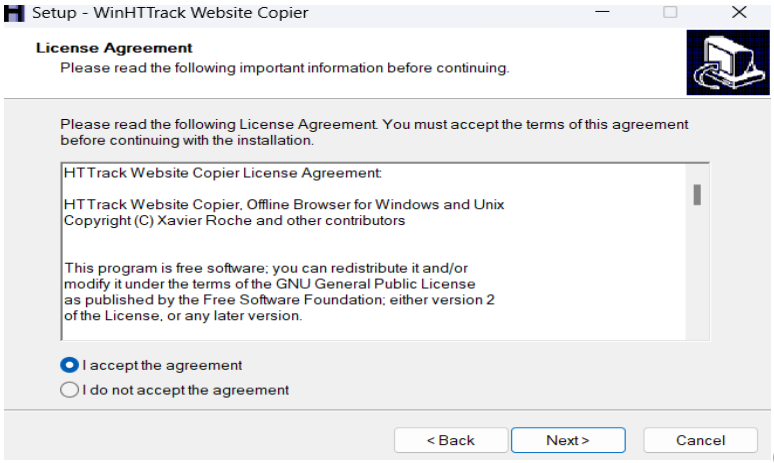


Step2:- Go to the download section and click on the downloaded file to begin the installation process.



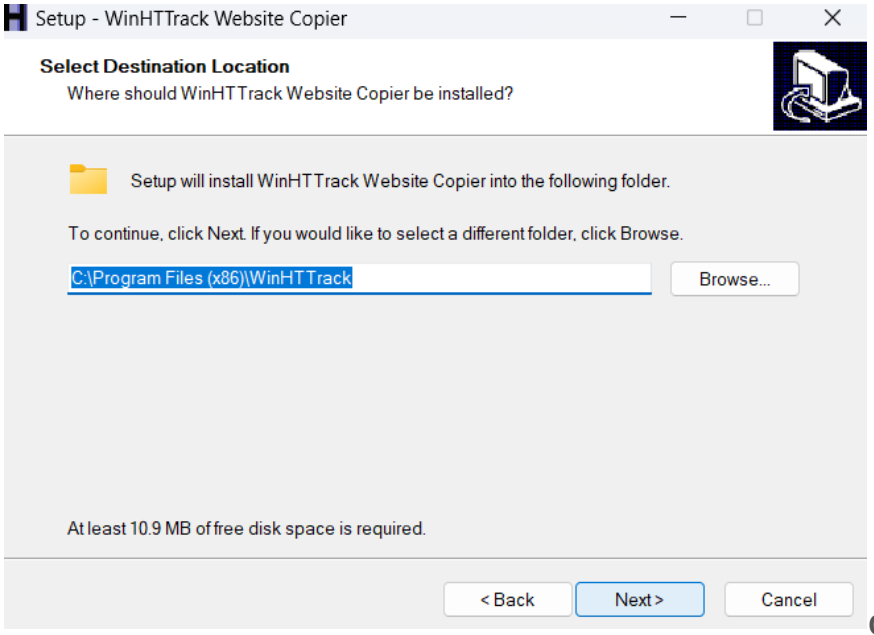
Click Next.

Step3:- Accept the agreement

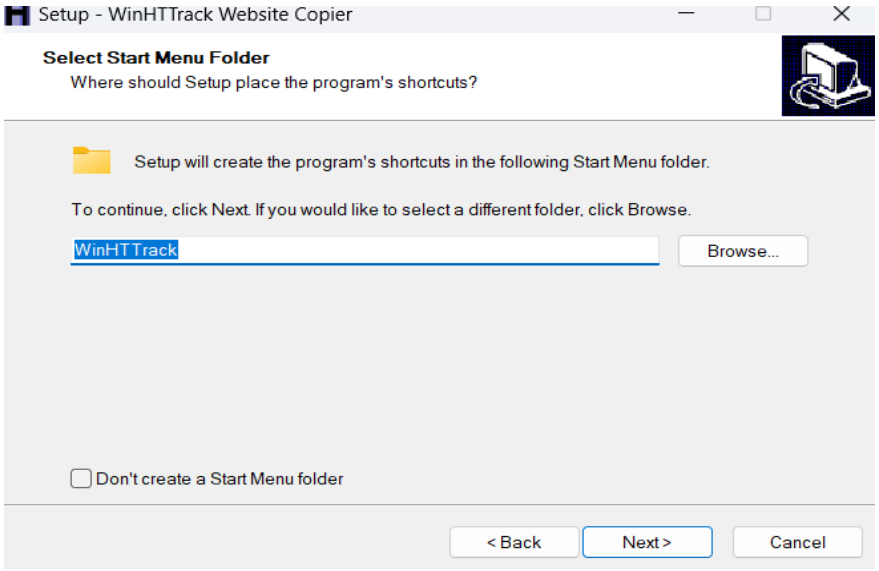


Click Next.

Step4:- Choose the browser section or set it as default

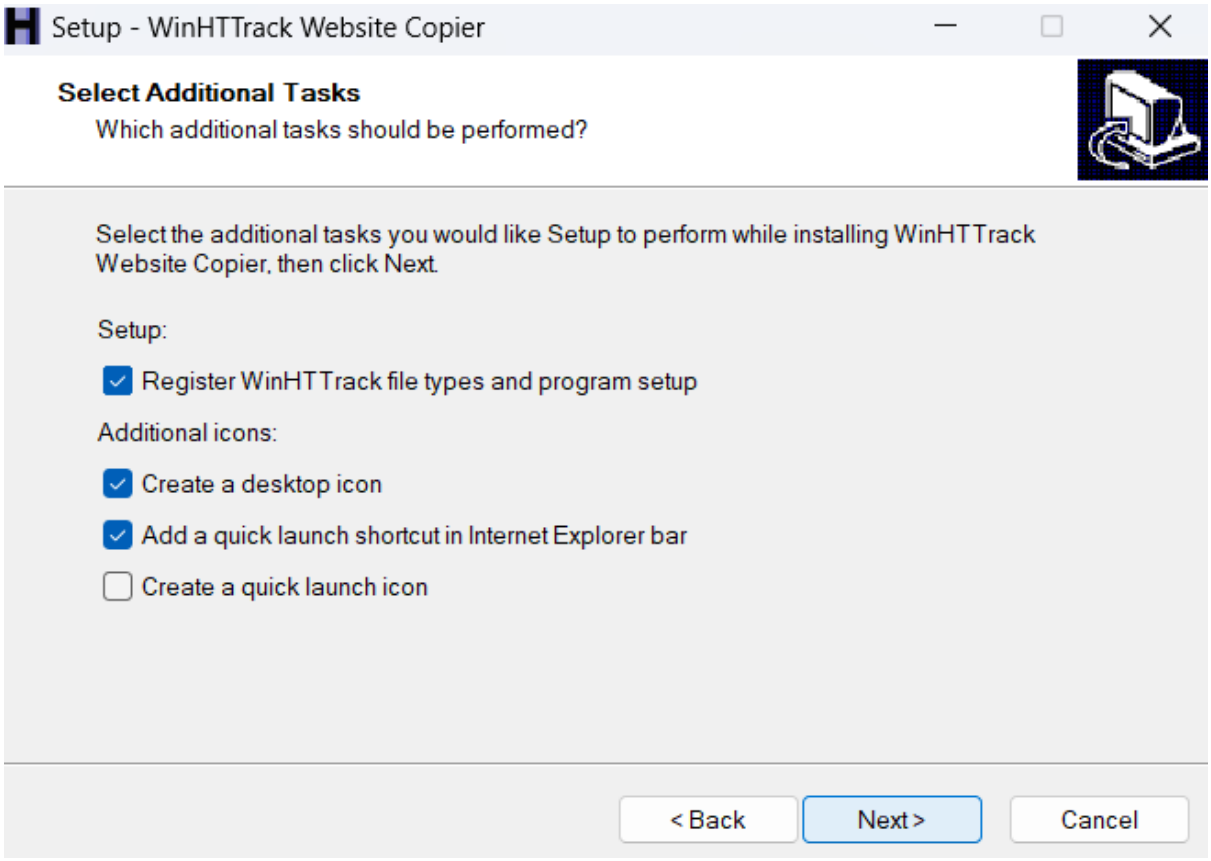


Click Next.



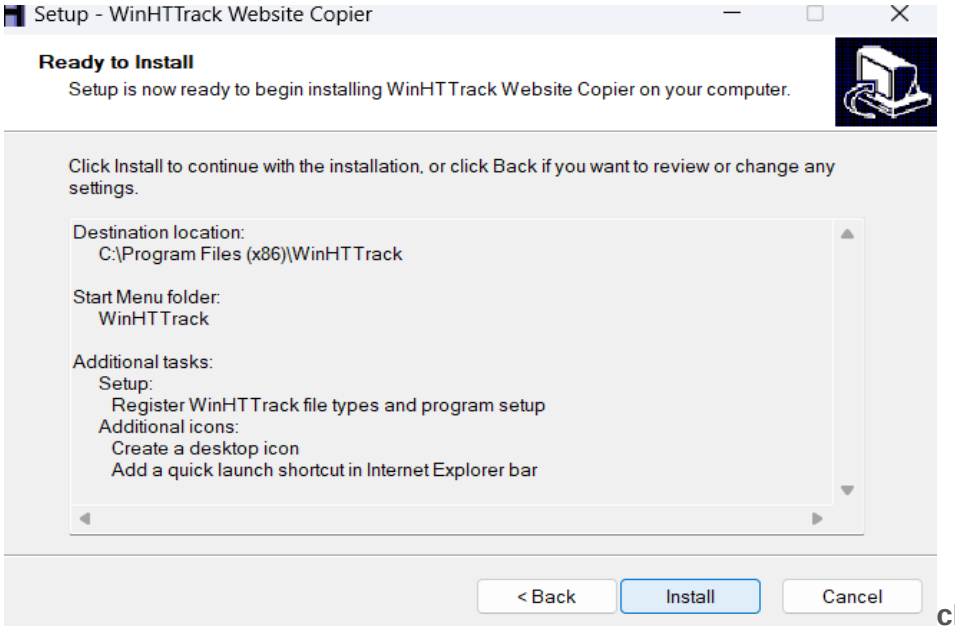
Click Next.

Step5:-chose the option if u need destop icon

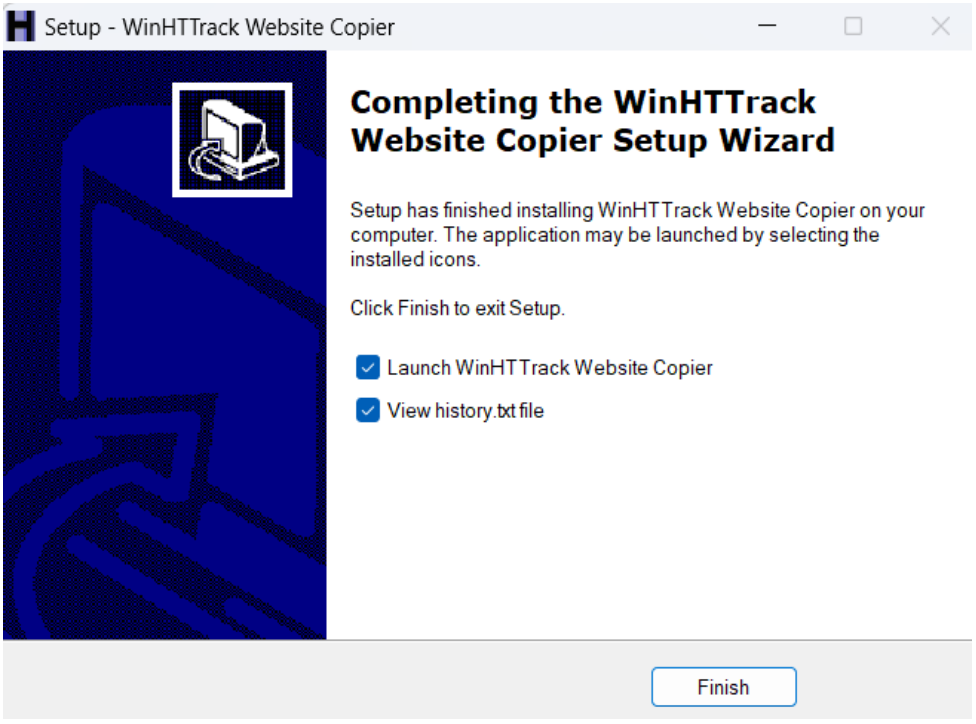

Setup - WinHTTrack Website Copier
Select Additional Tasks
Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing WinHTTrack Website Copier, then click Next.
Setup:
Register WinHTTrack file types and program setup
Additional icons:
Create a desktop icon
Add a quick launch shortcut in Internet Explorer bar
Create a quick launch icon
< Back
Next >
Cancel

Click Next.

Step6:- it is ready to install and press finish



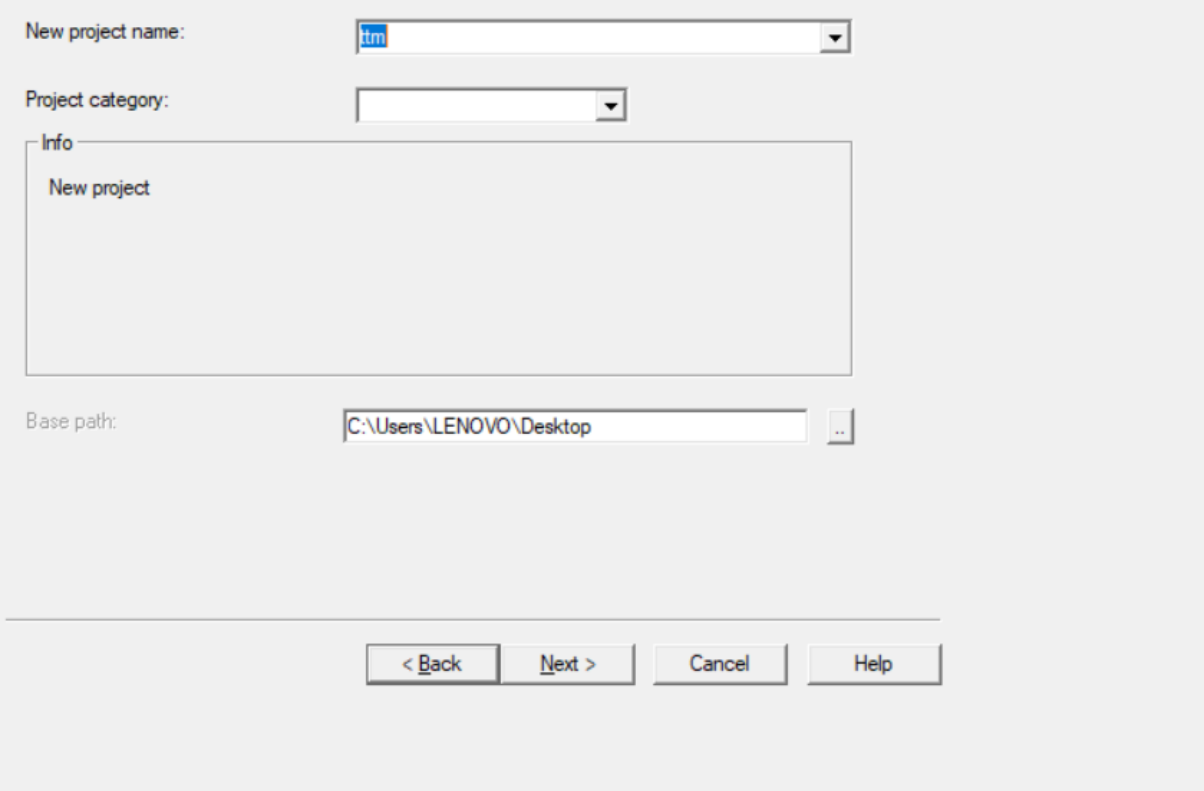
click install



install

How to perform httrack

Step1:-Open HTTrack and choose a project name. This will be the name of the folder containing your project. One project can include copies of multiple websites.



Click Next.

Step2:-

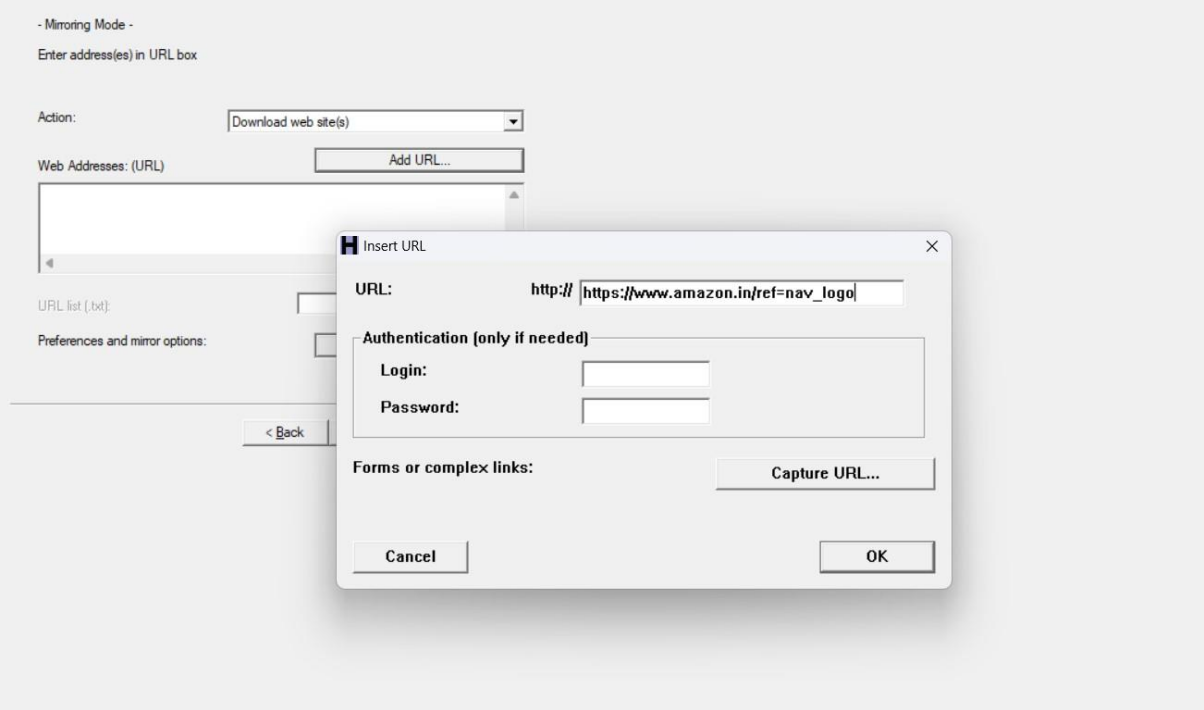
Select an action. Click the menu at the top, and choose the option that fits what you want to do. The most common options are:

- Chose **Download web site(s)** to mirror a website with its default options.

Choose **Download website(s) + questions** if you want to be prompted about links to download.[1]

Enter the URL(s) of the websites you want to mirror. If you're downloading multiple websites, place each URL on a separate line.

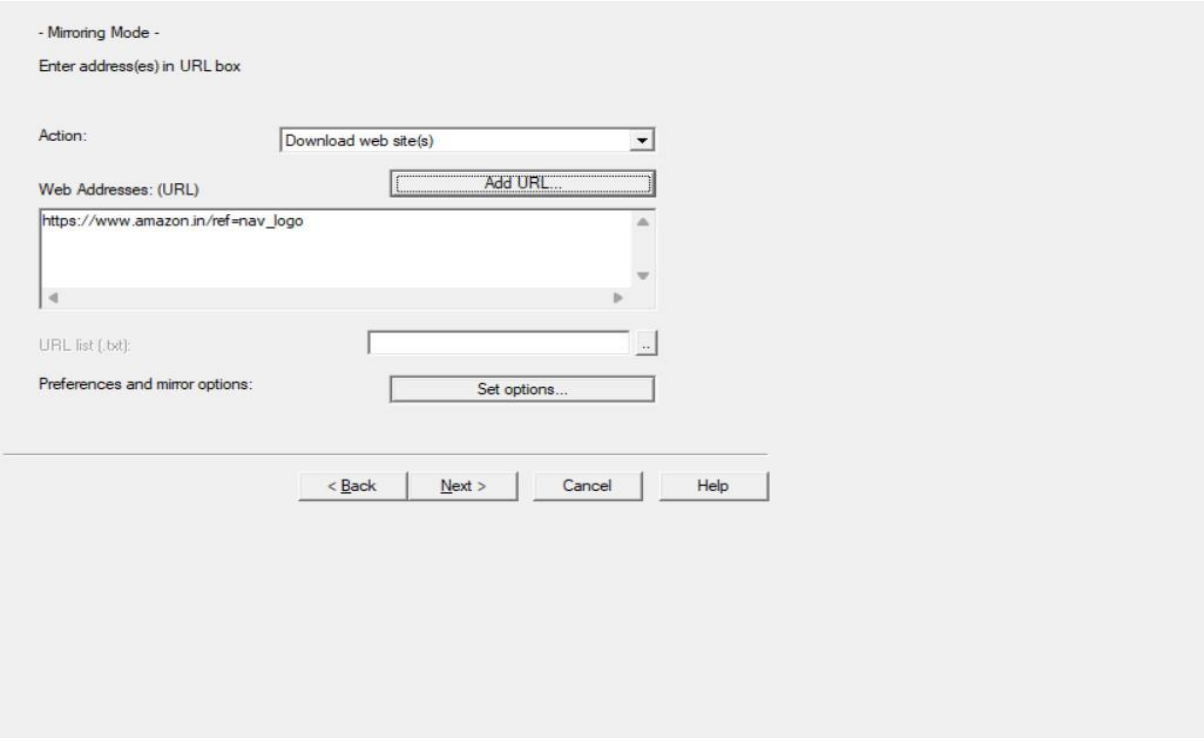
- You can click **Set options…** to choose other options, including certain file types to download or skip, recursion preferences, and the address of your proxy server.



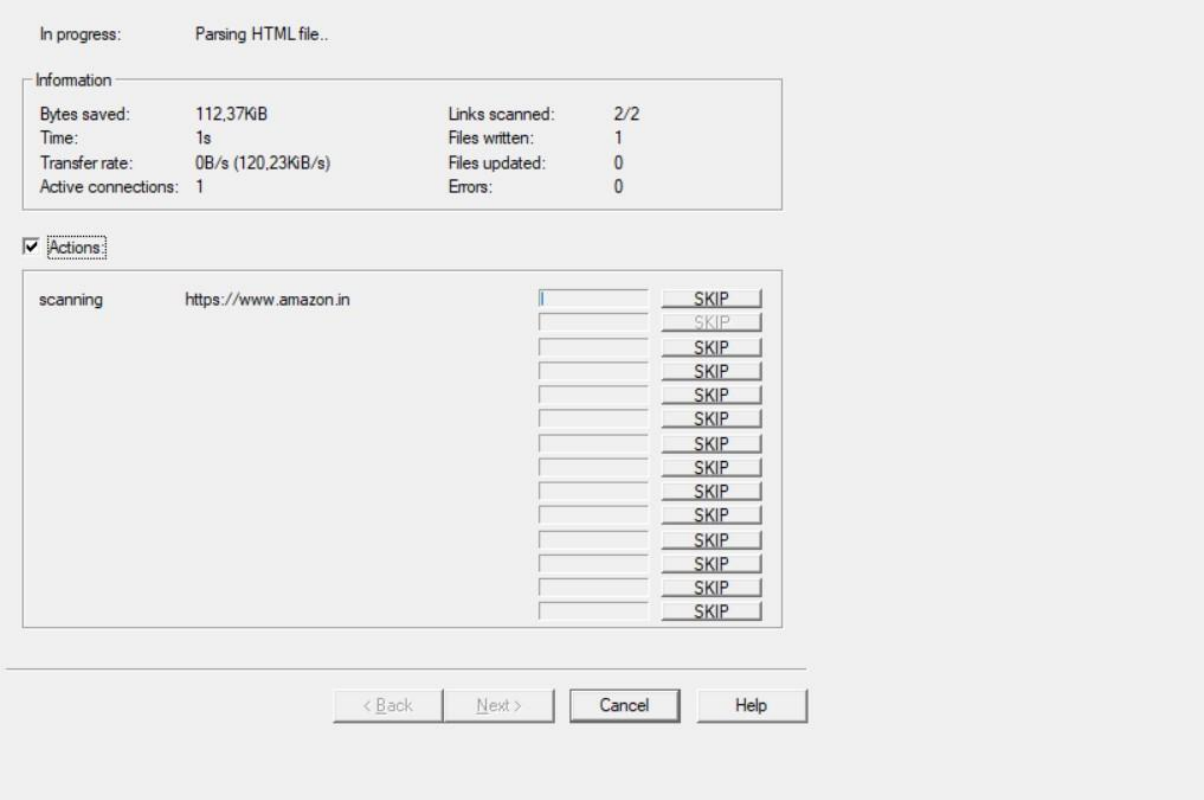
Click ok

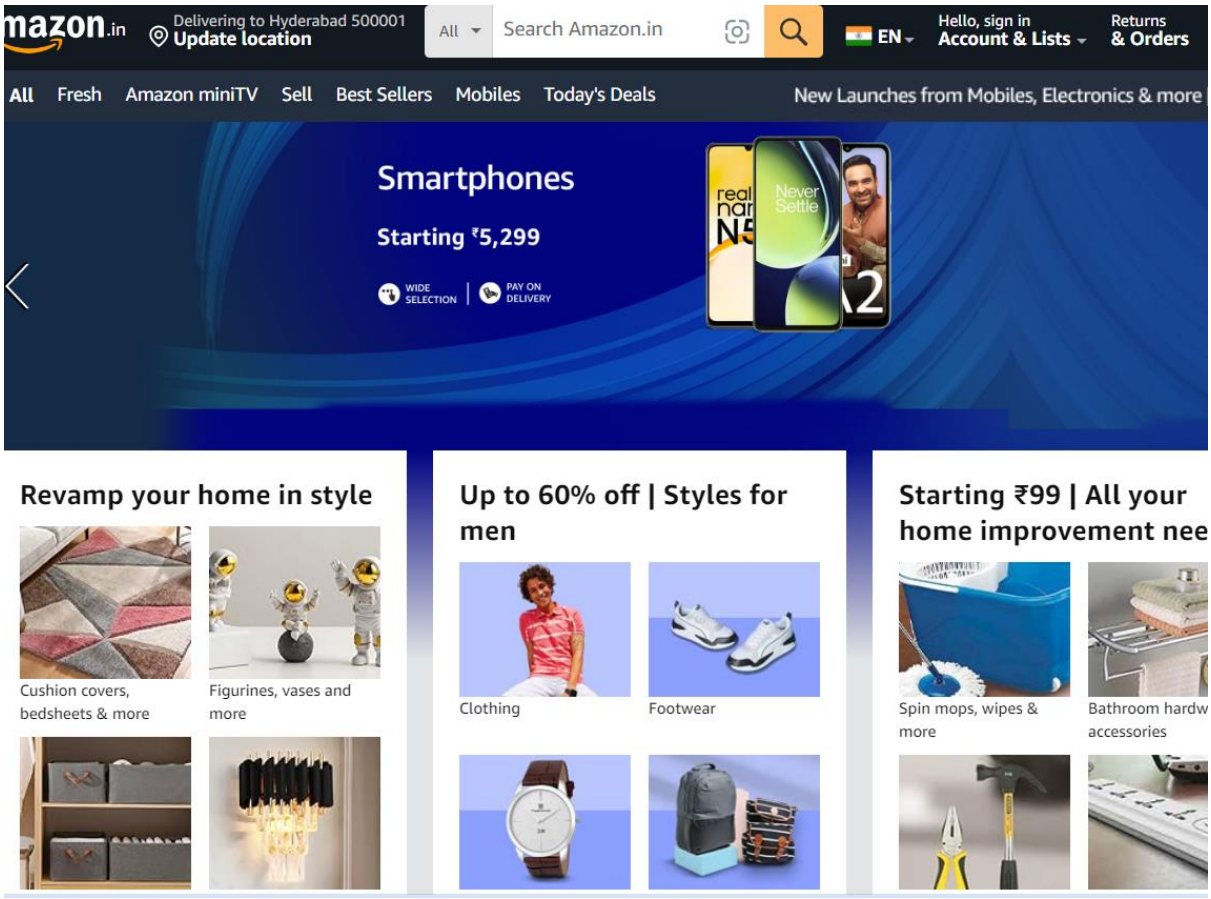
Step 3:-

Choose your final preferences and click Finish**.** If you want, you can choose options such as delaying the start of the downloading or disconnecting when finished first.



Step4:- Watch the site(s) download in real time. HTTrack will now download the websites you entered with your preferred preferences.




mazon.in
Delivering to Hyderabad 500001
Update location
All
Search Amazon.in
EN
Hello, sign in
Account & Lists
Returns
& Orders
All
Fresh
Amazon miniTV
Sell
Best Sellers
Mobiles
Today's Deals
New Launches from Mobiles, Electronics & more
Smartphones
Starting ₹5,299
WIDE SELECTION
PAY ON DELIVERY
Never Settle
Revamp your home in style
Cushion covers, bedsheets & more
Figurines, vases and more
Up to 60% off | Styles for men
Clothing
Footwear
Starting ₹99 | All your home improvement nee
Spin mops, wipes & more
Bathroom hardw accessories

Q 4:- use wireshark tool for packet capturing?

Ans:-

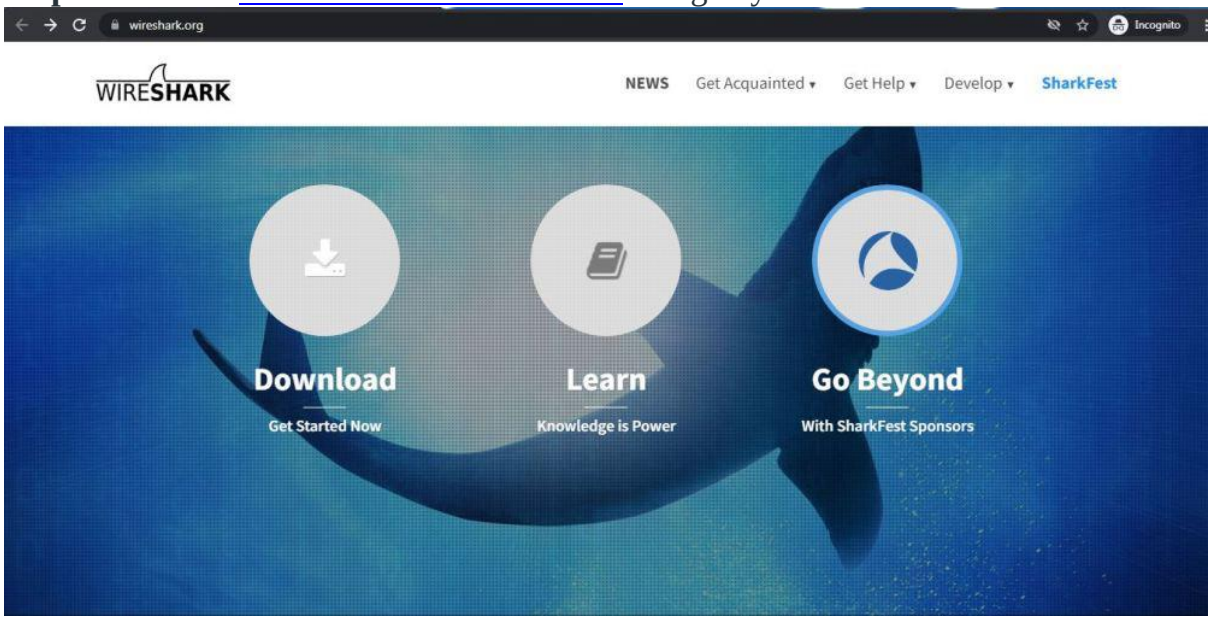
Wireshark is a widely-used network protocol analyzer. It allows users to capture and interactively browse the traffic running on a computer network. Here are some key points about Wireshark and why it's used

1. **Packet Analysis**: Captures and presents network packets in human-readable format.
2. **Protocol Analysis**: Supports a wide range of network protocols for detailed analysis.
3. **Troubleshooting**: Essential for diagnosing network issues like slow response times or packet loss.
4. **Security Analysis**: Detects network intrusions, analyzes malware traffic, and investigates security incidents.
5. **Network Monitoring**: Monitors network performance and usage, aiding in resource optimization and anomaly detection.
6. **Education and Training**: Used in educational settings to teach networking concepts and packet analysis techniques.
7. **Open Source**: Free and open-source under the GNU GPL, accessible to a broad user community for customization and extension

Installing Wireshark on Windows:

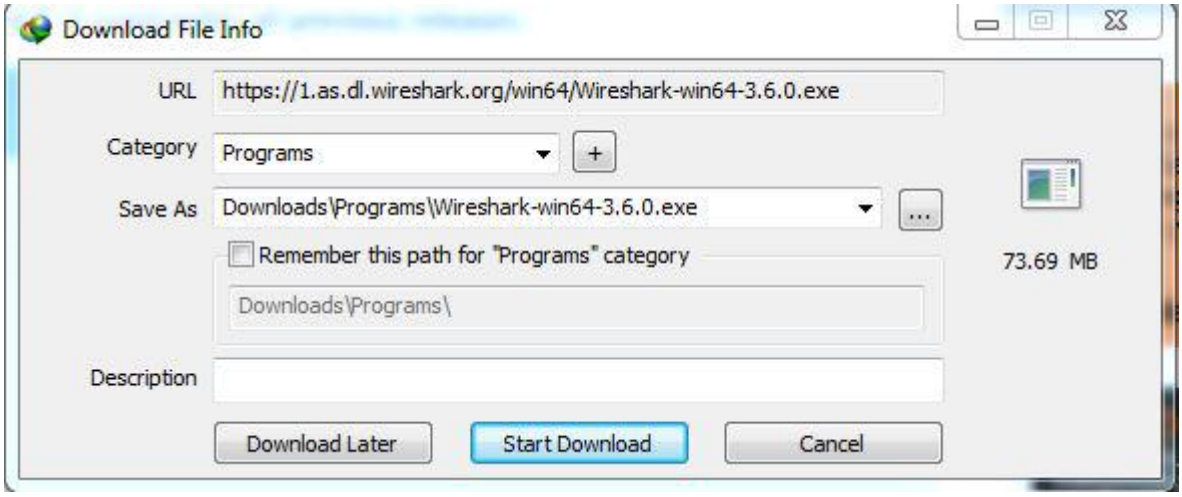
Follow the below steps to install Wireshark on Windows:

Step 1: Visit the official Wireshark website using any web browser.

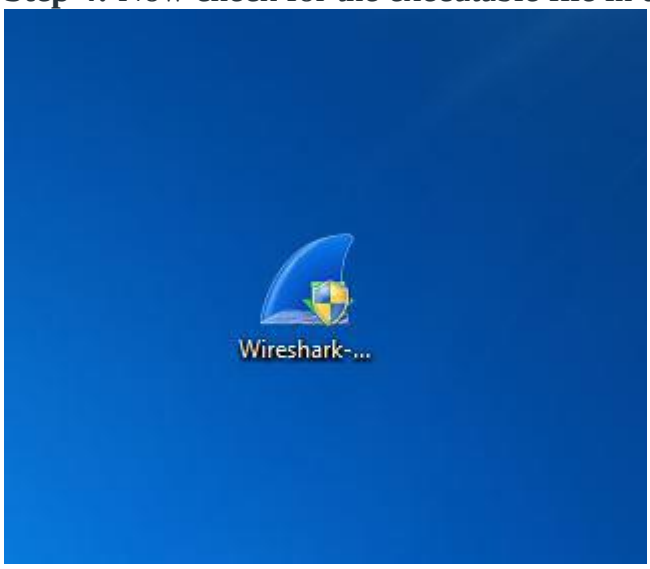


Step 2: Click on Download, a new webpage will open with different installers of Wireshark.

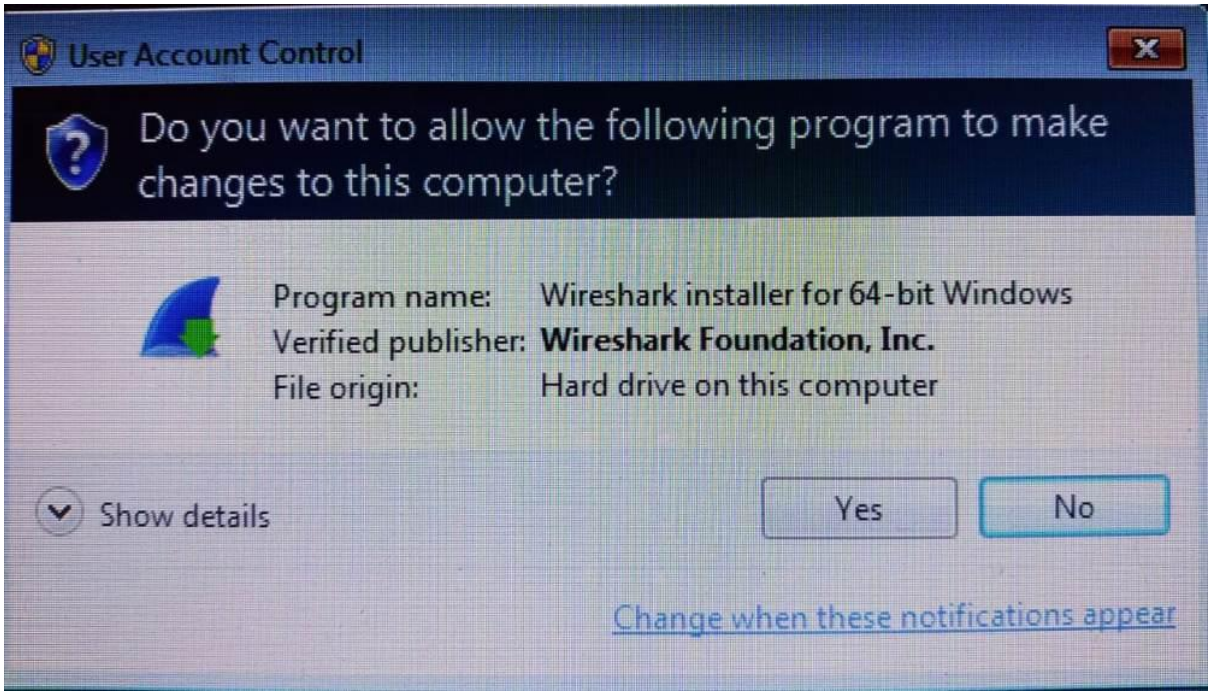
Step 3: Downloading of the executable file will start shortly. It is a small 73.69 MB file that will take some time.



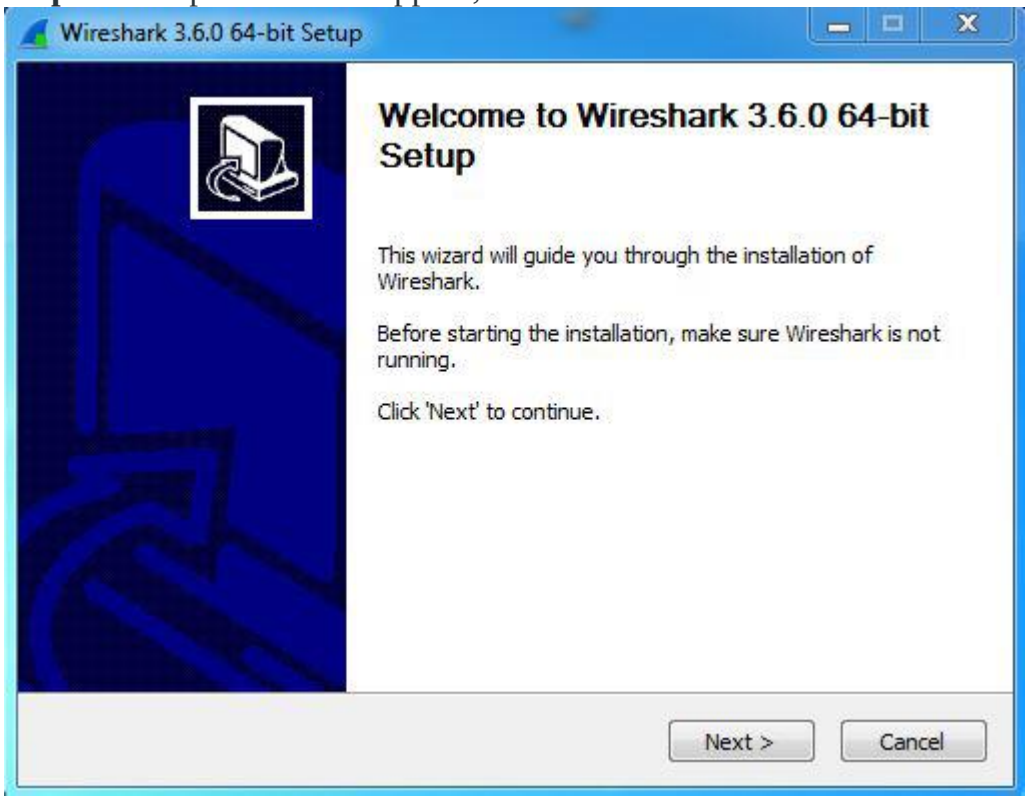
Step 4: Now check for the executable file in downloads in your system and run it.



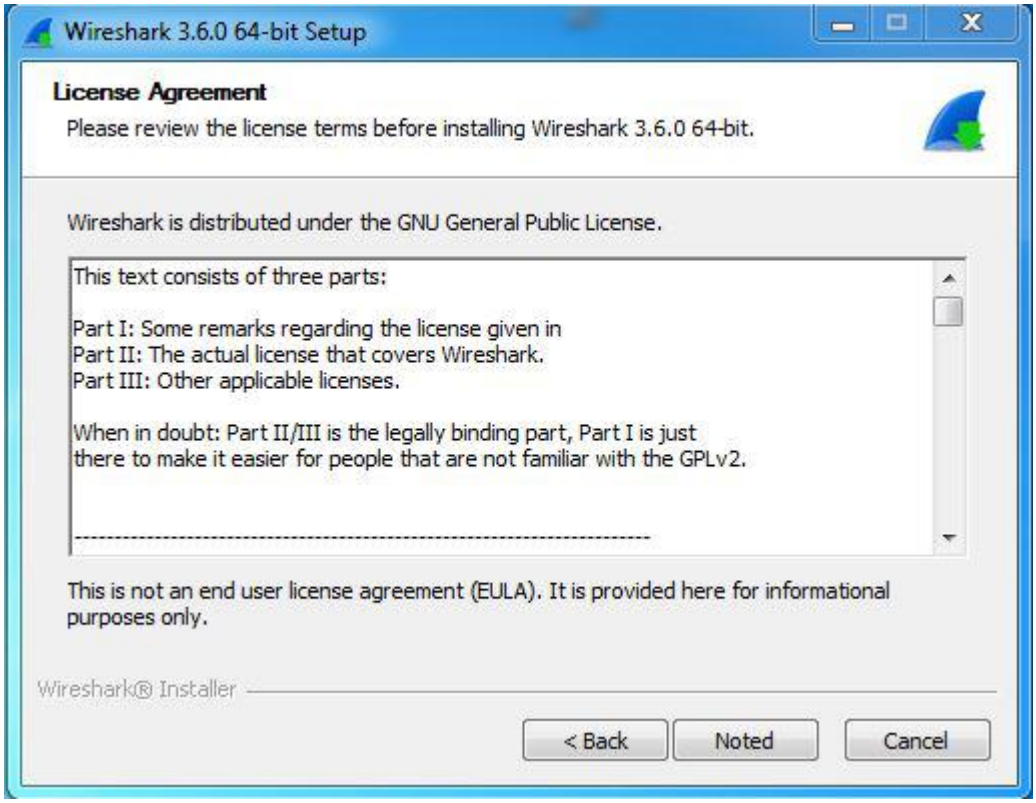
Step 5: It will prompt confirmation to make changes to your system. Click on Yes.



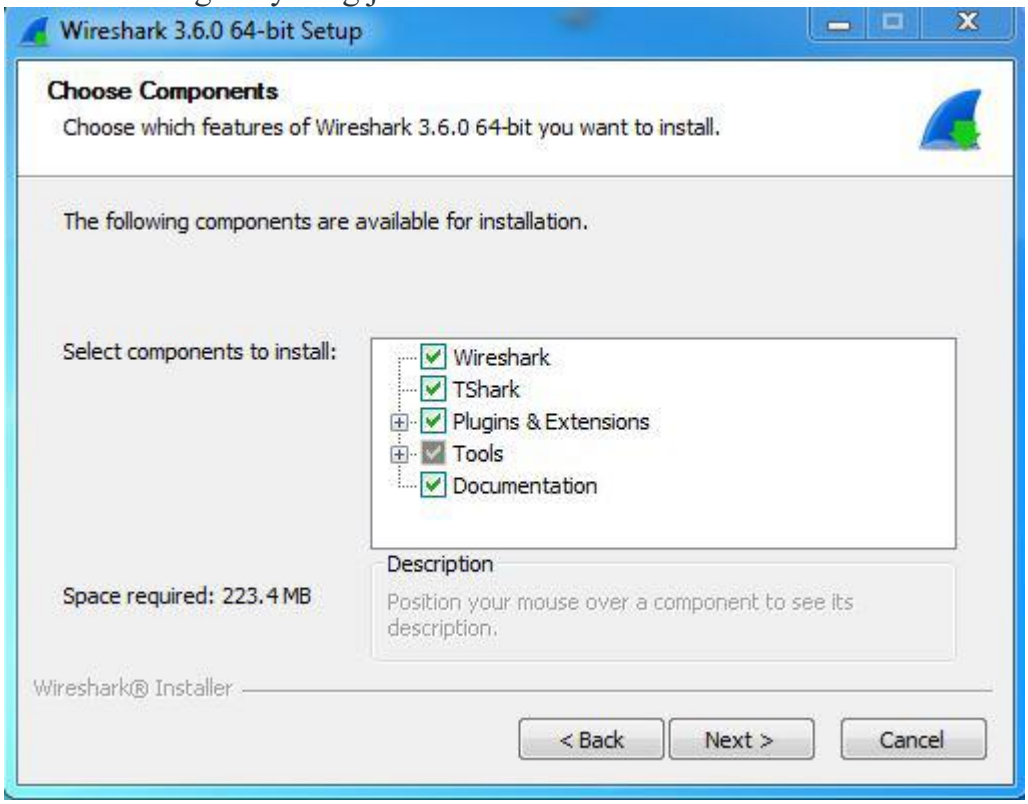
Step 6: Setup screen will appear, click on Next.



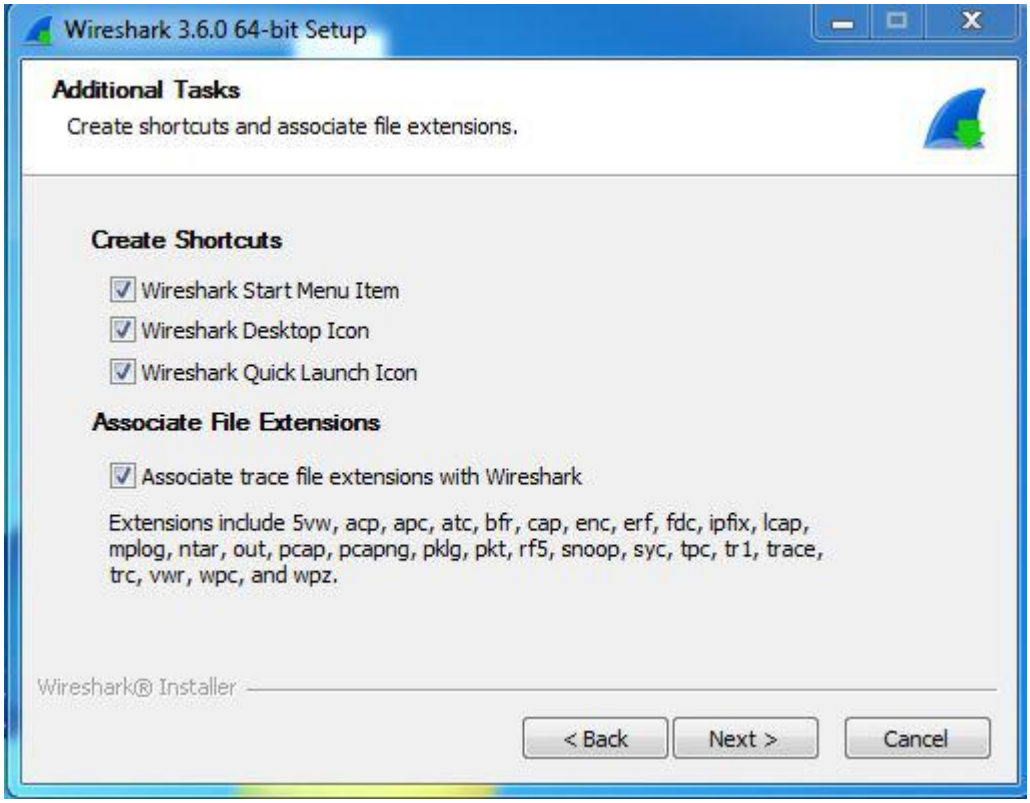
Step 7: The next screen will be of License Agreement, click on Noted.



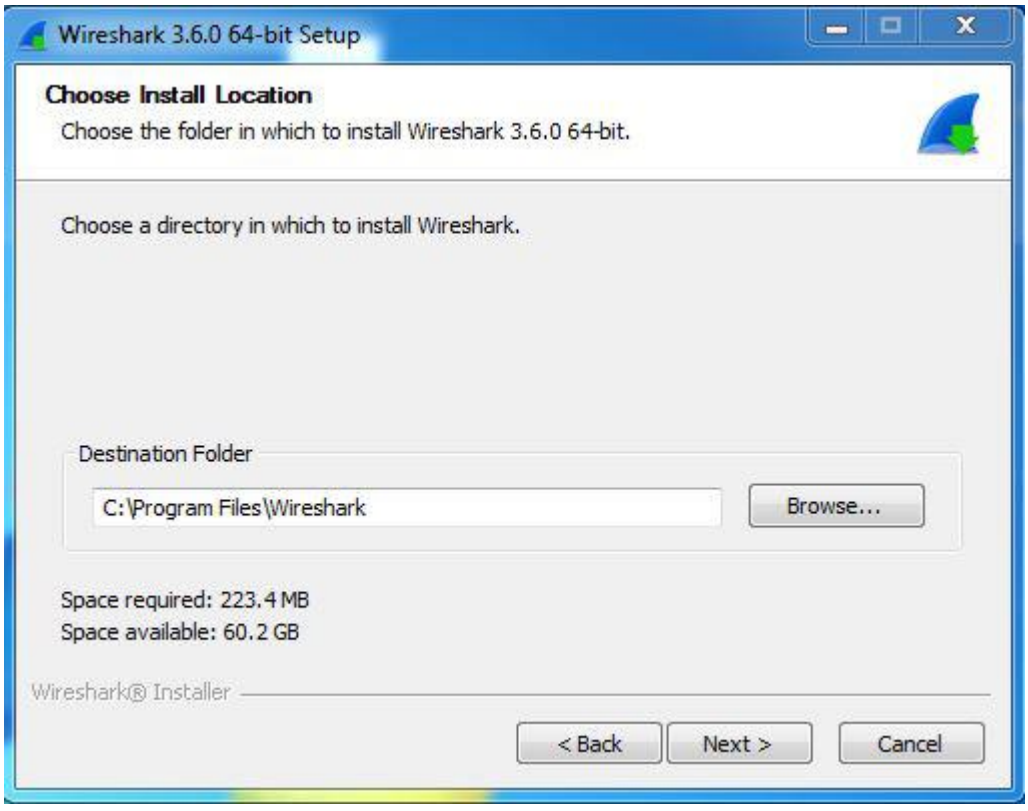
Step 8: This screen is for choosing components, all components are already marked so don't change anything just click on the Next button.



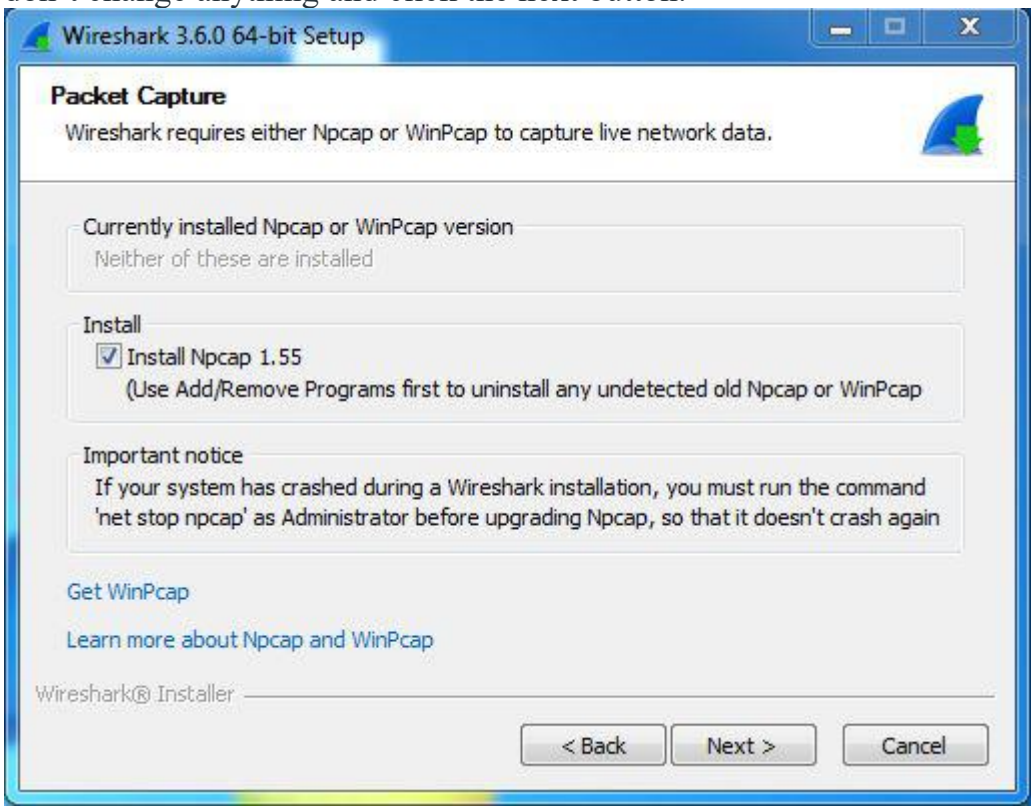
Step 9: This screen is of choosing shortcuts like start menu or desktop icon along with file extensions which can be intercepted by Wireshark, tick all boxes and click on Next button.



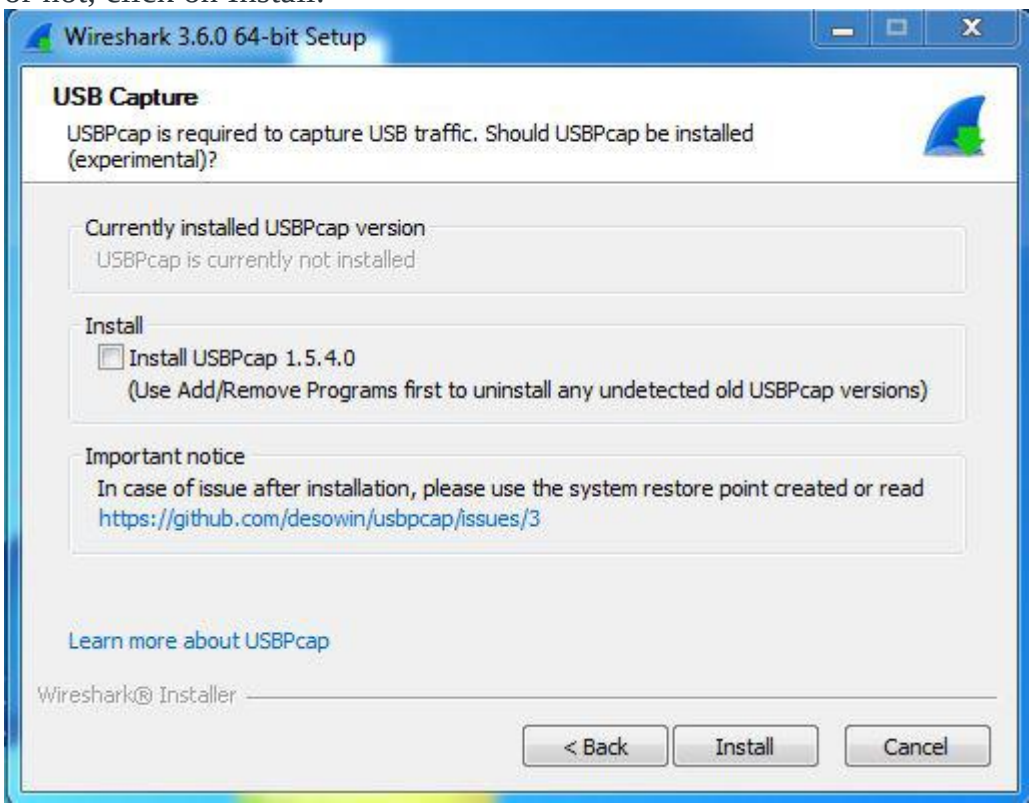
Step 10: The next screen will be of installing location so choose the drive which will have sufficient memory space for installation. It needed only a memory space of 223.4 MB.



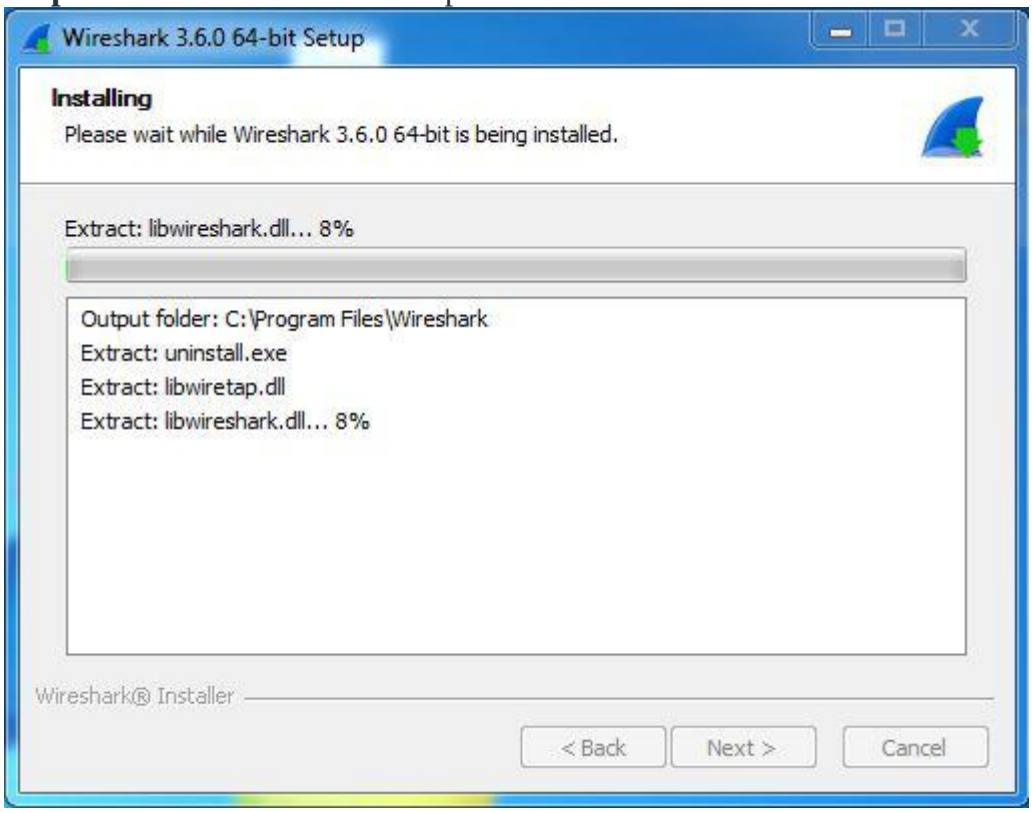
Step 11: Next screen has an option to install Npcap which is used with Wireshark to capture packets *pcap* means packet capture so the install option is already checked don't change anything and click the next button.



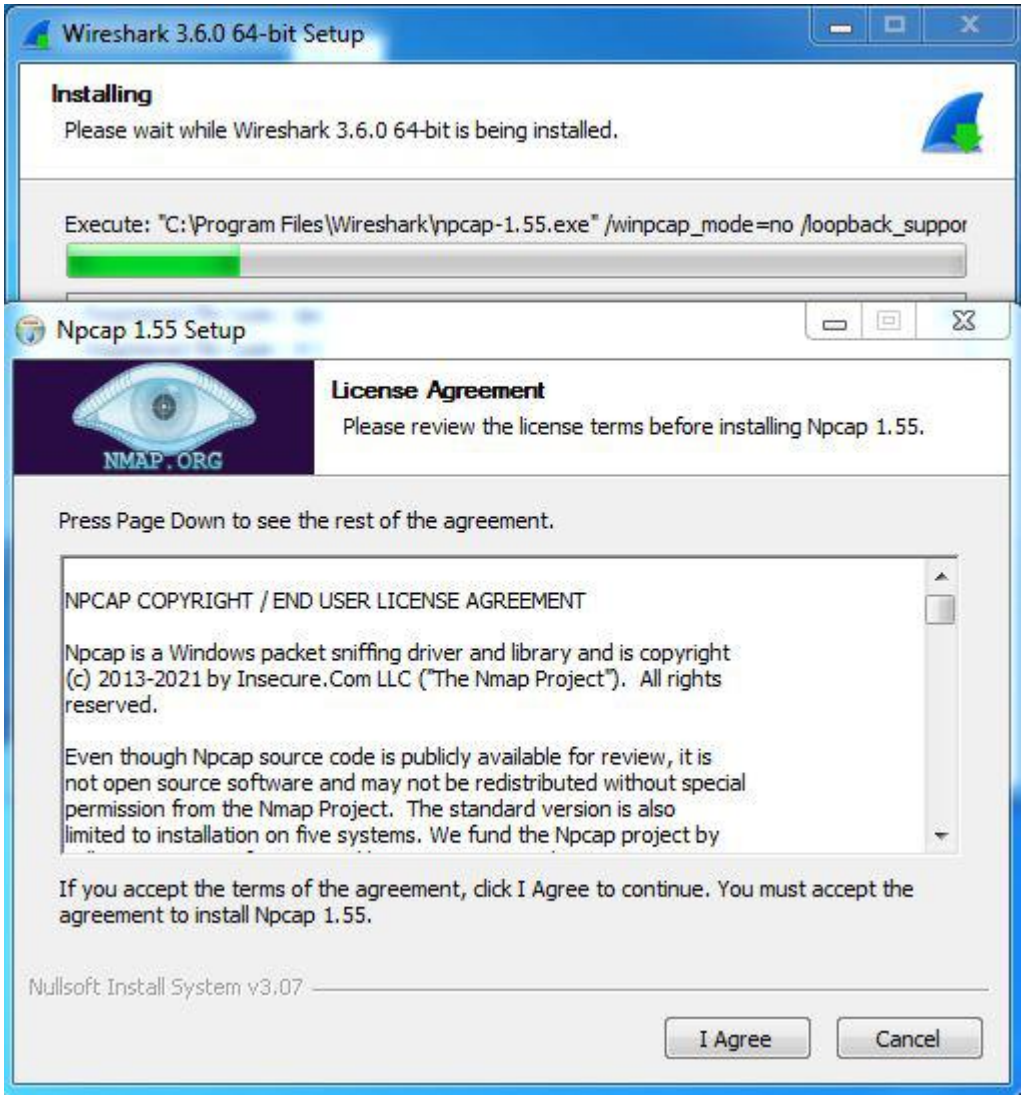
Step 12: Next screen is about USB network capturing so it is one's choice to use it or not, click on Install.



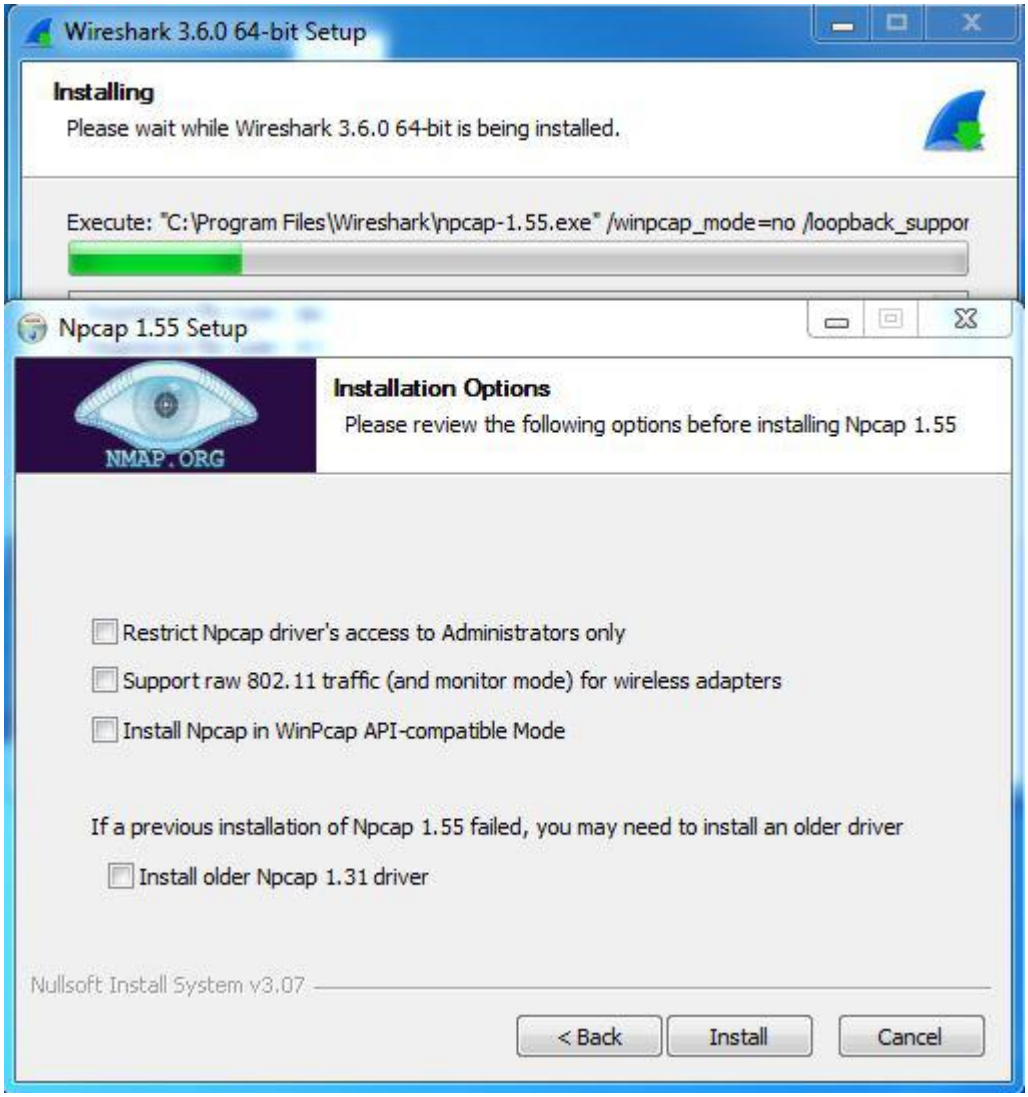
Step 13: After this installation process will start.



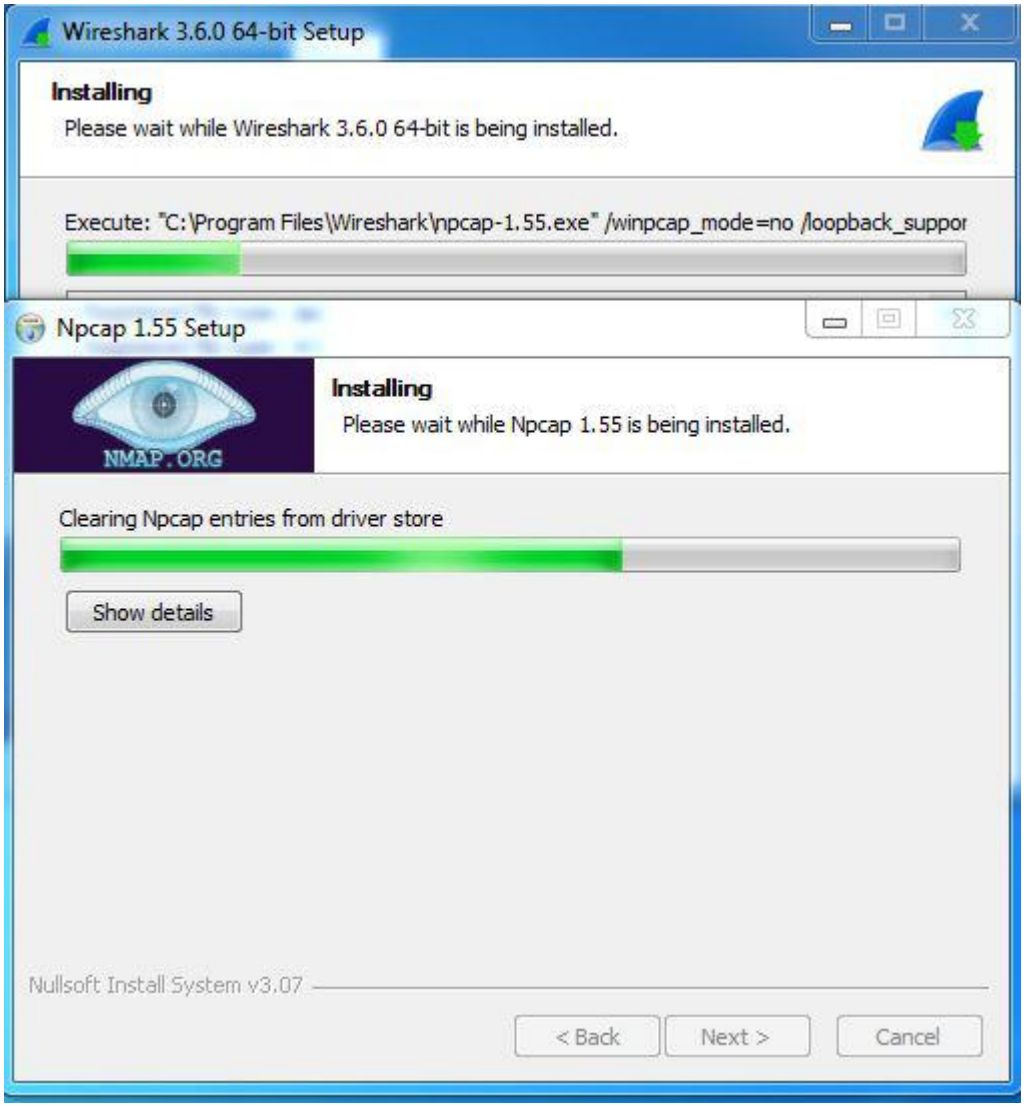
Step 14: This installation will prompt for Npcap installation as already checked so the license agreement of Npcap will appear to click on the *I Agree* button.



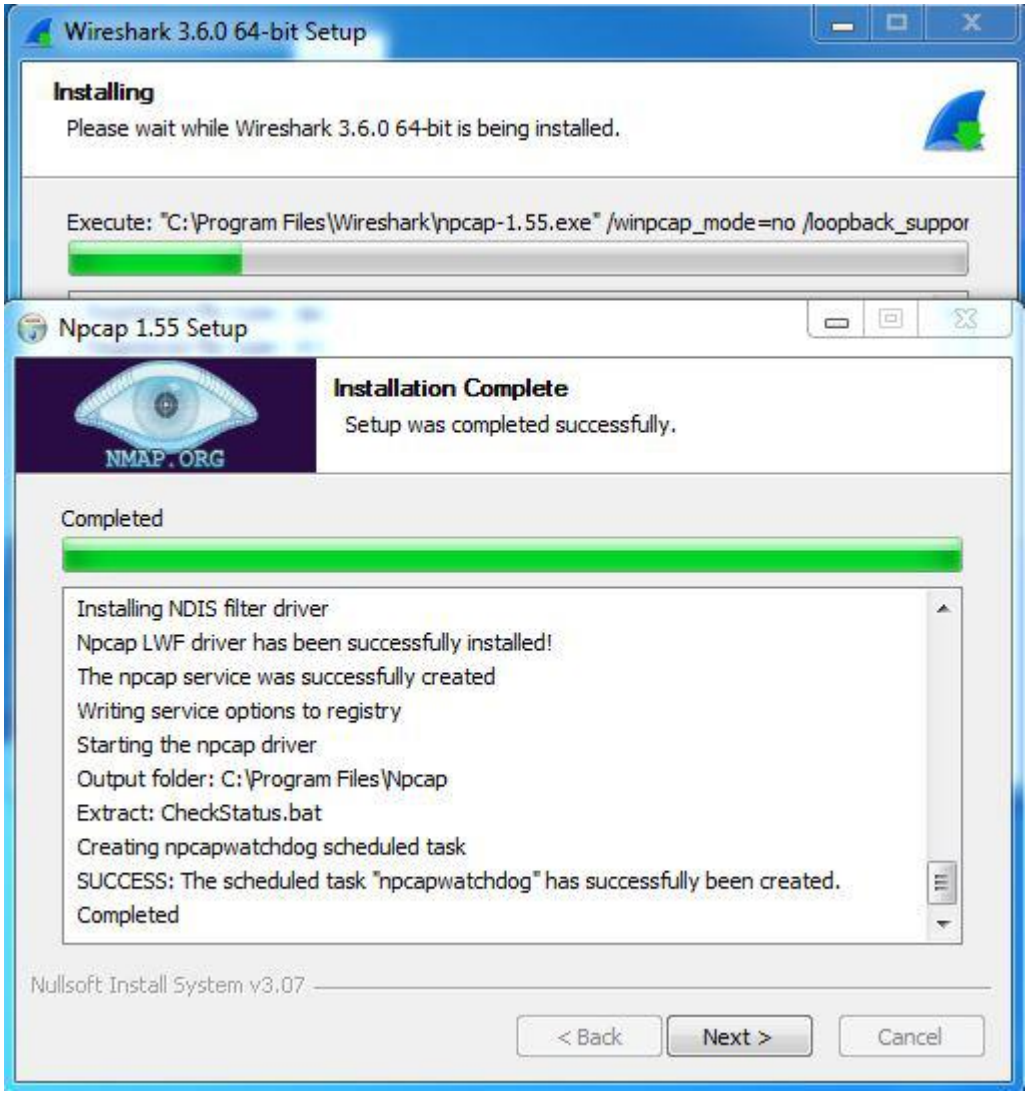
Step 15: Next screen is about different installing options of *npcap*, don't do anything click on Install.



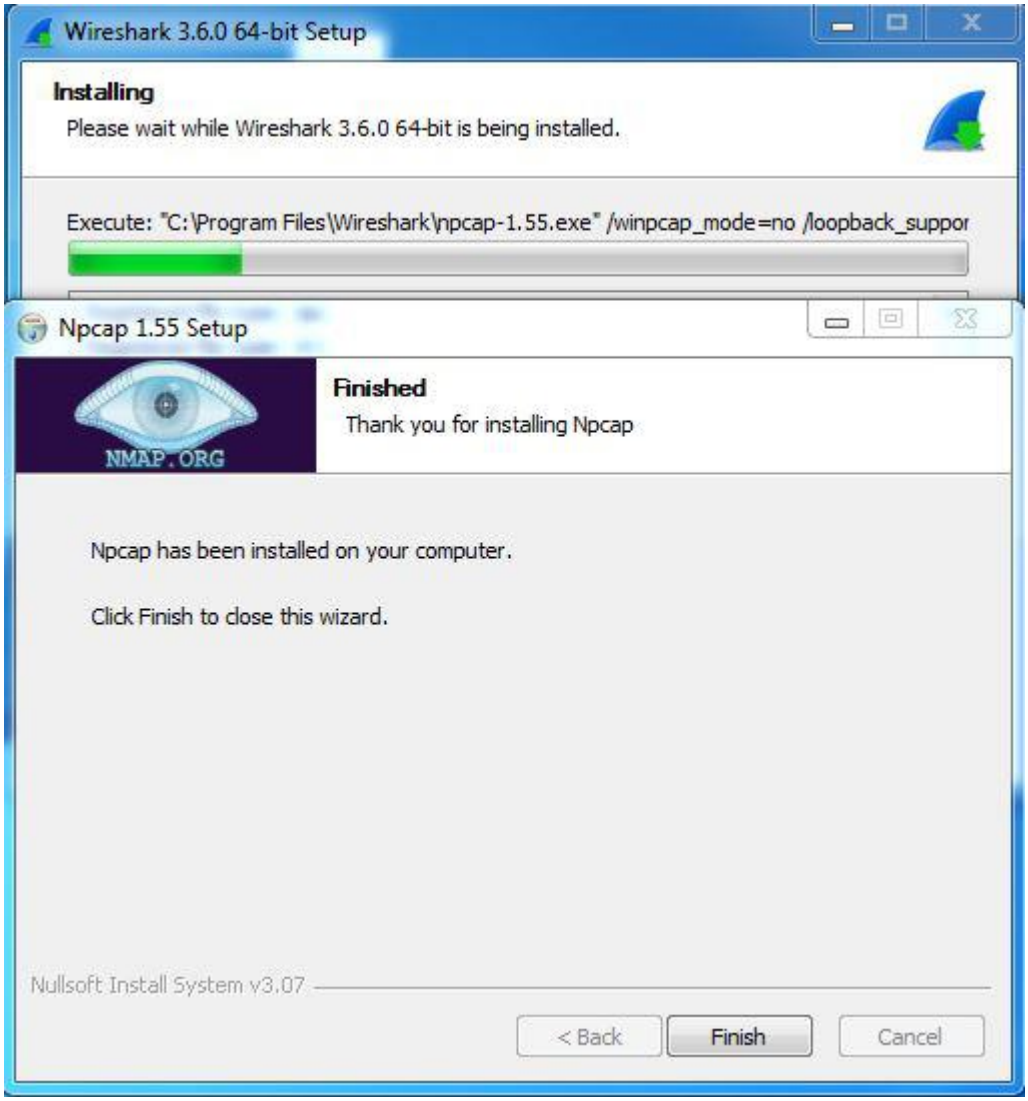
Step 16: After this installation process will start which will take only a minute.



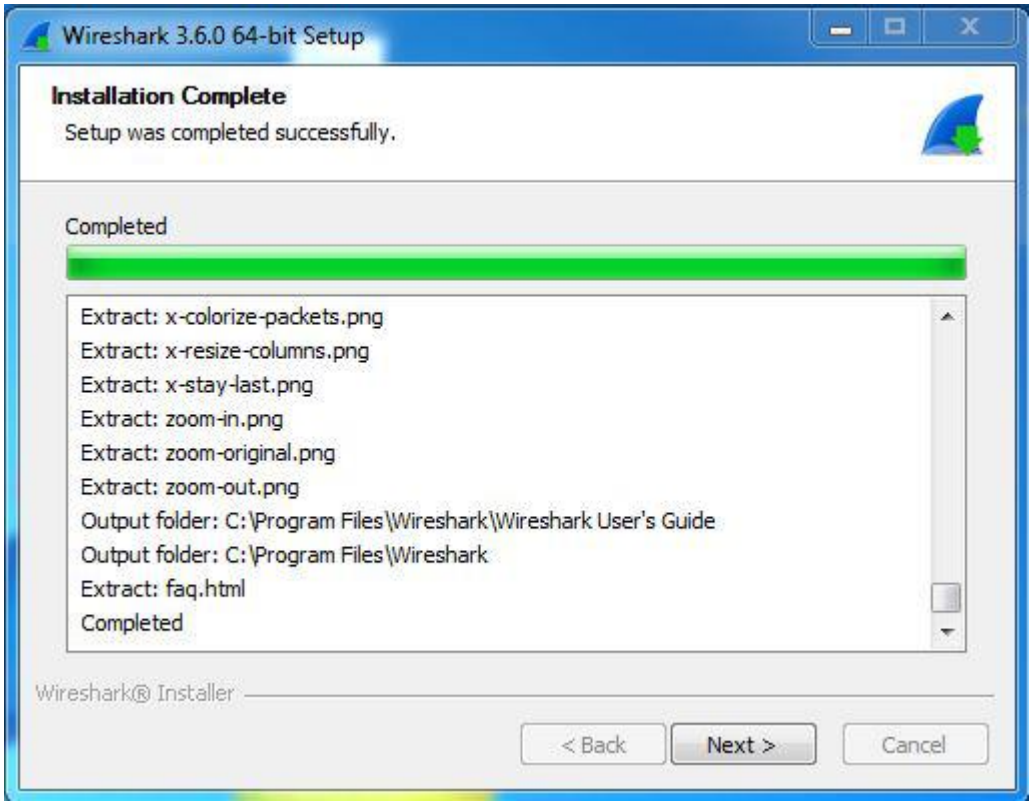
Step 17: After this installation process will complete click on the Next button.



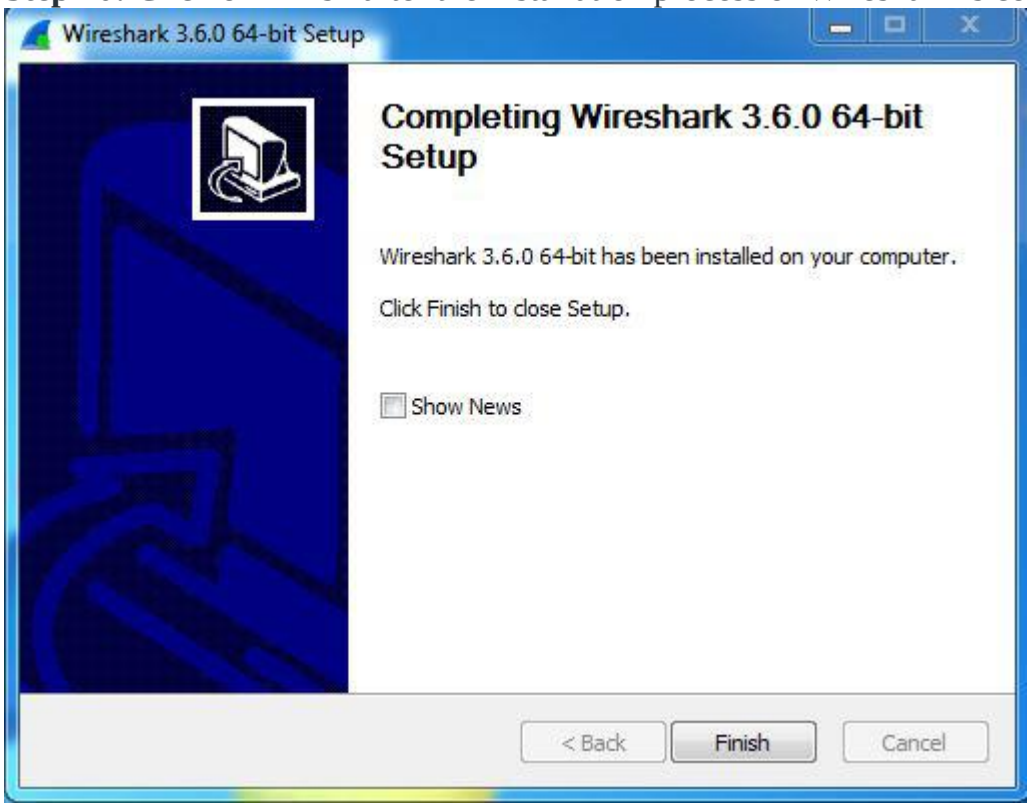
Step 18: Click on Finish after the installation process is complete.



Step 19: After this installation process of Wireshark will complete click on the Next button.



Step 20: Click on Finish after the installation process of Wireshark is complete.

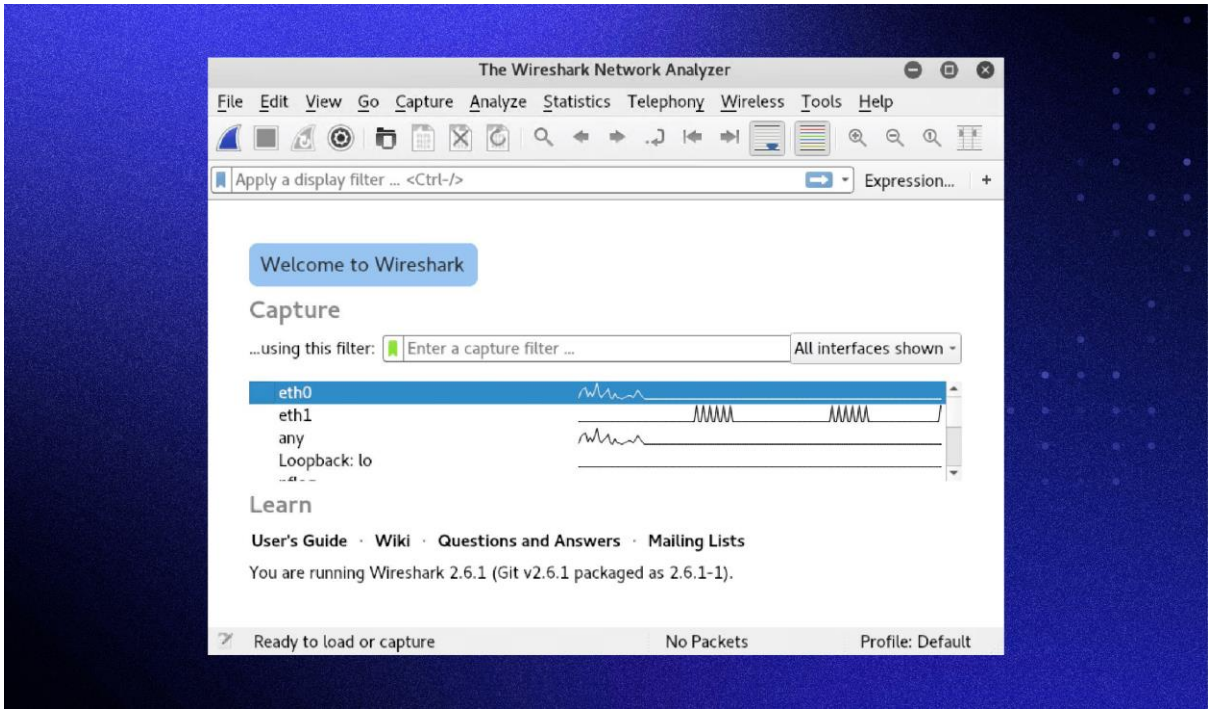


Wireshark is successfully installed on the system and an icon is created on the desktop as shown below:

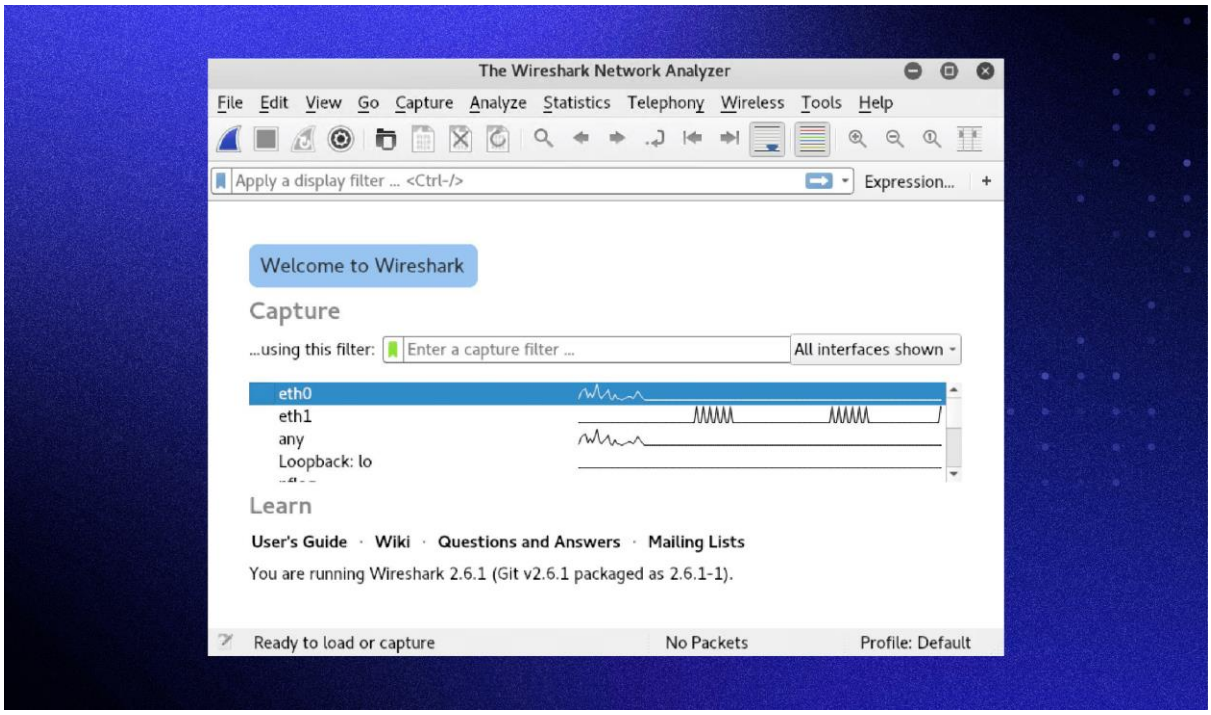
Now run the software and see the interface.

Congratulations!! At this point, you have successfully installed Wireshark on your windows system.

Perform wireshark

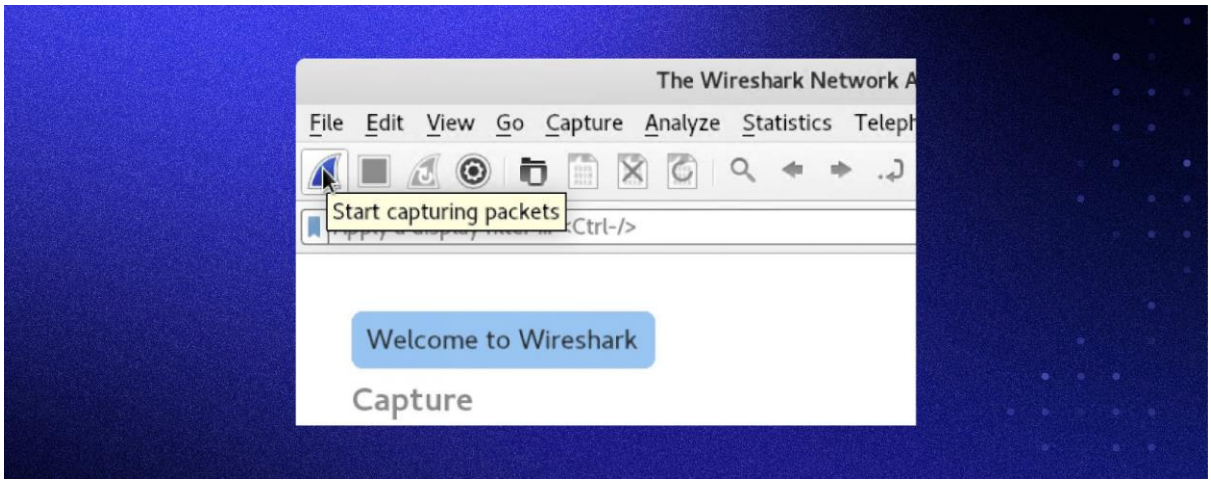


When you open Wireshark, you see a screen showing you a list of all the network connections you can monitor. You also have a capture filter field to only capture the network traffic you want to see.

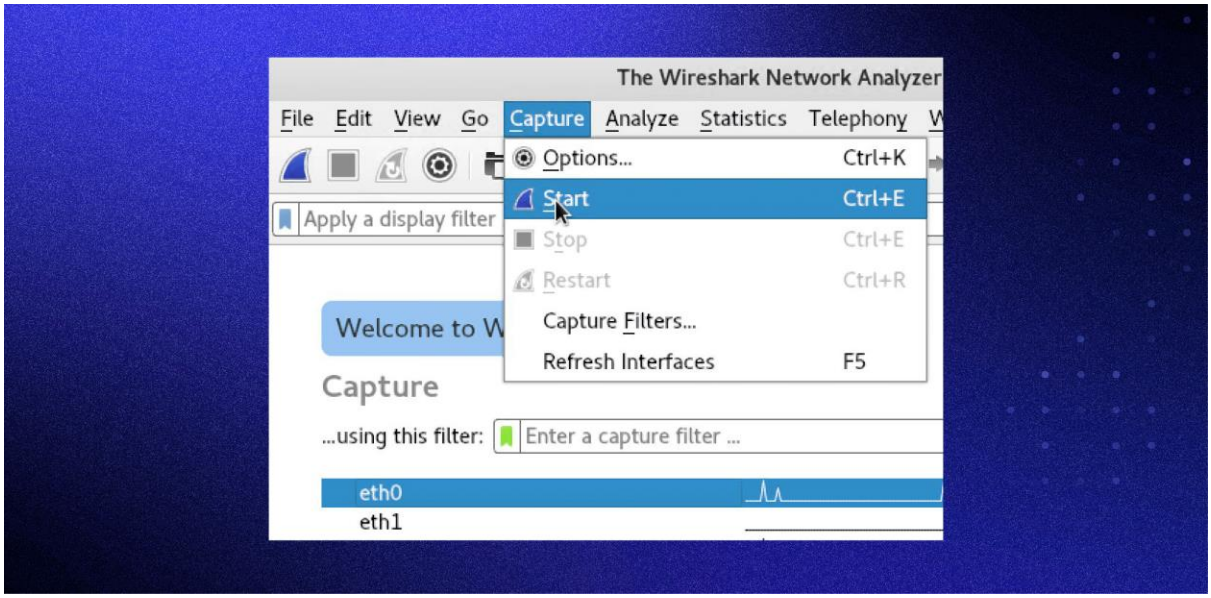


You can select one or more of the network interfaces using shift+left-click. Once select the network interface, you can start the capture, and there are several ways to do that.

Click the first button on the toolbar, titled “Start capturing packets.”

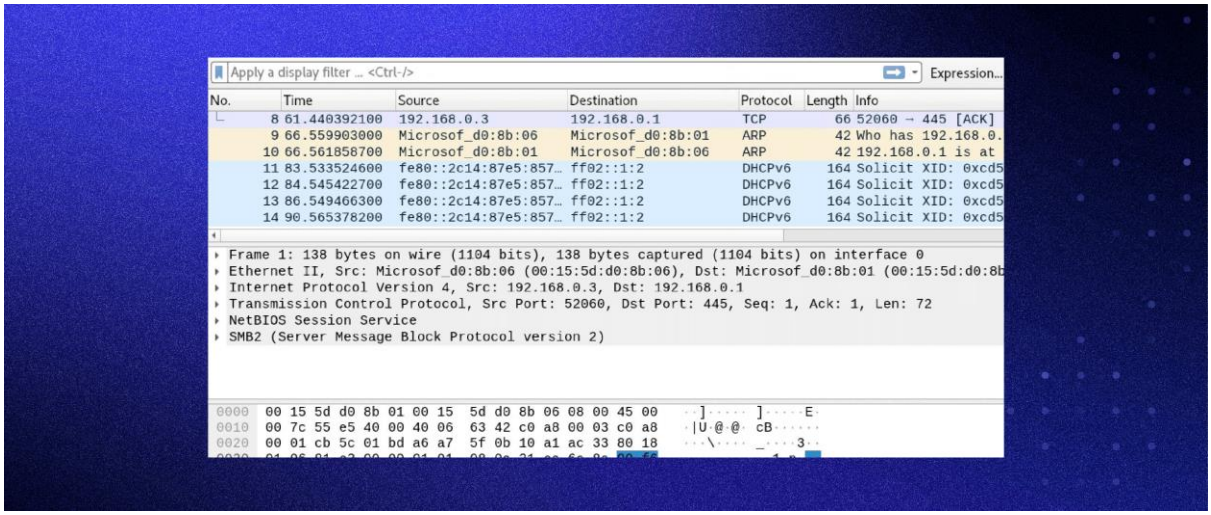


You can select the menu item Capture -> Start.



Or you could use the keystroke Control+E.

During the capture, Wireshark will show you the packets captured in real-time.



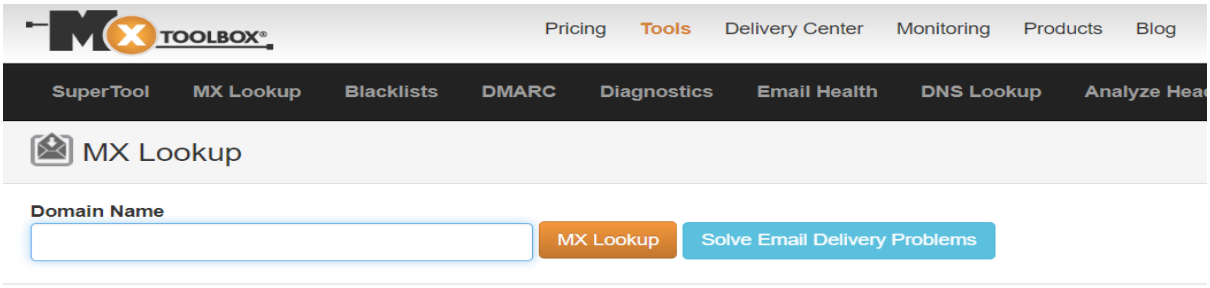
Once you have captured all the packets needed, use the same buttons or menu options to stop the capture as you did to begin.

Q 5:- tools for finding details of any network or server/website(ip loopup website)?

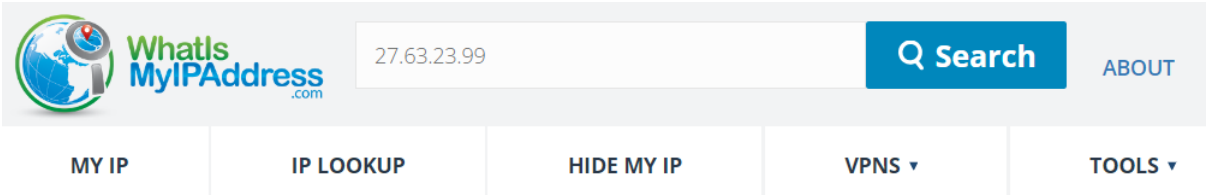
1. **IPinfo.io**: IPinfo.io offers comprehensive details about IP addresses, including geolocation data, ASN information, and company details associated with the IP.

2. **IP2Location**: IP2Location provides geolocation data such as country, region, city, latitude, longitude, ZIP code, timezone, ISP, domain name, and connection type based on an IP address.

3. **MXToolbox**: MXToolbox provides network diagnostic tools such as DNS lookup, blacklist check, SMTP diagnostics, and more.



4. **WhatIsMyIPAddress.com**: This website offers IP lookup, geolocation information, and other network tools.



---------- THANK **YOU**----------