

# 1-Find your mac address.

**Answer :-** write in CMD this command getmac or ipconfig /all

```
C:\Users\DREAMSsss>getmac
```

```
Physical Address    Transport Name
=====
C8-D3-FF-72-35-1F  Disconnected
7C-B0-C2-97-C6-E7  \Device\Tcpip_{F54A58B8-70D4-4706-A545-9F9BED1AF15C}
7C-B0-C2-97-C6-E8  Media disconnected

C:\Users\DREAMSsss>
```

```
C:\Users\DREAMSsss>ipconfig /all
```

## Windows IP Configuration

```
Host Name . . . . . : DESKTOP-VLV4CKH
Primary Dns Suffix . . . . . :
Node Type . . . . . : Mixed
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
DNS Suffix Search List. . . . . : home
```

## Ethernet adapter Ethernet:

```
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : Broadcom NetXtreme Gigabit Ethernet Plus
Physical Address. . . . . : C8-D3-FF-72-35-1F
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
```

## Wireless LAN adapter Local Area Connection\* 8:

```
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : Microsoft Wi-Fi Direct Virtual Adapter
Physical Address. . . . . : 7C-B0-C2-97-C6-E8
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
```


## Wireless LAN adapter Local Area Connection\* 10:


```
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : Microsoft Wi-Fi Direct Virtual Adapter #2
Physical Address. . . . . : 7E-B0-C2-97-C6-E7
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
```


## 2- Find your real IP addresses.


Answer :- <https://whatismyipaddress.com/>

### What Is My IP Address?

My Public IPv4: [104.28.245.5](#) 

My Public IPv6: [2a09:bac5:30cd:1eb::31:188](#) 

My IP Location: Cairo, C EG 

My ISP: CloudFlare Inc. 

Or write in CMD this command --->

nslookup myip.opendns.com resolver1.opendns.com

```
C:\Users\DREAMSsss>nslookup myip.opendns.com resolver1.opendns.com
Server:  dns.sse.cisco.com
Address:  2620:119:35::35

Name:     myip.opendns.com
Address:  2a09:bac5:30cd:1eb::31:188

C:\Users\DREAMSsss>
```

### 3- Find your private IP addresses.

write in CMD this command      ipconfig

```
C:\Users\DREAMSsss>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

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

Wireless LAN adapter Local Area Connection* 8:

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

Wireless LAN adapter Local Area Connection* 10:

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

Wireless LAN adapter Wi-Fi:

    Connection-specific DNS Suffix  . : home
    IPv6 Address. . . . . : 2606:4700:110:8cd0:d9da:490f:9160:3e45
    IPv6 Address. . . . . : fd8c:15c7:ebb6:3e00:c555:7964:2573:1d4d
    IPv6 Address. . . . . : fd01:db8:1111::2
    IPv6 Address. . . . . : fd01:db8:1111::3
    Temporary IPv6 Address. . . . . : fd8c:15c7:ebb6:3e00:60ad:d1ca:4504:f4ec
    Link-local IPv6 Address . . . . . : fe80::6149:5e19:b065:5e05%18
    IPv4 Address. . . . . : 192.168.1.6
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 2606:4700:d0::a29f:c009
                                192.168.1.1

Ethernet adapter Bluetooth Network Connection:

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

C:\Users\DREAMSsss>
```

## 4- Change private IP address by using CMD.

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19045.4894]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\system32>netsh interface ipv4 set address name="Wi-Fi" static 192.168.1.15 255.255.255.0 192.168.1.1

C:\Windows\system32>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

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

Wireless LAN adapter Local Area Connection* 8:

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

Wireless LAN adapter Local Area Connection* 10:

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

Wireless LAN adapter Wi-Fi:

    Connection-specific DNS Suffix  . :
    IPv6 Address. . . . . : fd8c:15c7:ebb6:3e00:c555:7964:2573:1d4d
    Temporary IPv6 Address. . . . . : fd8c:15c7:ebb6:3e00:2014:d5b4:56b:915
    Link-local IPv6 Address . . . . . : fe80::6149:5e19:b065:5e05%18
    IPv4 Address. . . . . : 192.168.1.15
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.1.1

Ethernet adapter Bluetooth Network Connection:

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

C:\Windows\system32>
```

## 5- Find current session and ports on your device.

```
C:\Windows\system32>Netstat -n
```

```
Active Connections
```

Proto	Local Address	Foreign Address	State
TCP	127.0.0.1:56561	127.0.0.1:4843	SYN_SENT
TCP	192.168.1.15:56460	84.17.42.168:443	ESTABLISHED
TCP	192.168.1.15:56536	20.189.173.18:443	TIME_WAIT
TCP	192.168.1.15:56554	20.13.204.76:443	TIME_WAIT
TCP	192.168.1.15:56555	20.13.204.76:443	TIME_WAIT
TCP	[2606:4700:110:8cd0:d9da:490f:9160:3e45]:56413	[2603:1020:805:3::401]:443	ESTABLISHED
TCP	[2606:4700:110:8cd0:d9da:490f:9160:3e45]:56414	[2603:1020:805:3::401]:443	ESTABLISHED
TCP	[2606:4700:110:8cd0:d9da:490f:9160:3e45]:56416	[2a00:1450:400c:c0c::bc]:443	ESTABLISHED
TCP	[2606:4700:110:8cd0:d9da:490f:9160:3e45]:56417	[2a00:1450:4006:80e::200e]:443	ESTABLISHED
TCP	[2606:4700:110:8cd0:d9da:490f:9160:3e45]:56418	[2a03:2880:f26d:c2:face:b00c:0:167]:443	ESTABLISHED
TCP	[2606:4700:110:8cd0:d9da:490f:9160:3e45]:56419	[2a00:1450:4006:801::2003]:443	ESTABLISHED
TCP	[2606:4700:110:8cd0:d9da:490f:9160:3e45]:56449	[2603:1026:2404:1::38]:443	TIME_WAIT
TCP	[2606:4700:110:8cd0:d9da:490f:9160:3e45]:56450	[2603:1026:2400:1::3]:443	ESTABLISHED
TCP	[2606:4700:110:8cd0:d9da:490f:9160:3e45]:56477	[2a00:1450:4006:80e::2003]:443	ESTABLISHED
TCP	[2606:4700:110:8cd0:d9da:490f:9160:3e45]:56503	[2a03:2880:f242:1c2:face:b00c:0:167]:443	TIME_WAIT
TCP	[2606:4700:110:8cd0:d9da:490f:9160:3e45]:56504	[2a00:1450:4006:802::200e]:443	ESTABLISHED
TCP	[2606:4700:110:8cd0:d9da:490f:9160:3e45]:56505	[2a00:1450:4006:813::200e]:443	ESTABLISHED
TCP	[2606:4700:110:8cd0:d9da:490f:9160:3e45]:56516	[2606:4700:4400::6812:202f]:443	ESTABLISHED
TCP	[2606:4700:110:8cd0:d9da:490f:9160:3e45]:56523	[2606:4700:4400::6812:202f]:443	ESTABLISHED
TCP	[2606:4700:110:8cd0:d9da:490f:9160:3e45]:56537	[2600:1f18:24e6:b900:2d16:a724:7ca3:5c63]:443	ESTABLISHED
TCP	[2606:4700:110:8cd0:d9da:490f:9160:3e45]:56538	[2600:1f18:24e6:b900:2d16:a724:7ca3:5c63]:443	ESTABLISHED
TCP	[2606:4700:110:8cd0:d9da:490f:9160:3e45]:56553	[2a00:1450:4006:810::2004]:443	CLOSE_WAIT

```
C:\Windows\system32>
```

## 6-Find The IP of the domain Yahoo.com.

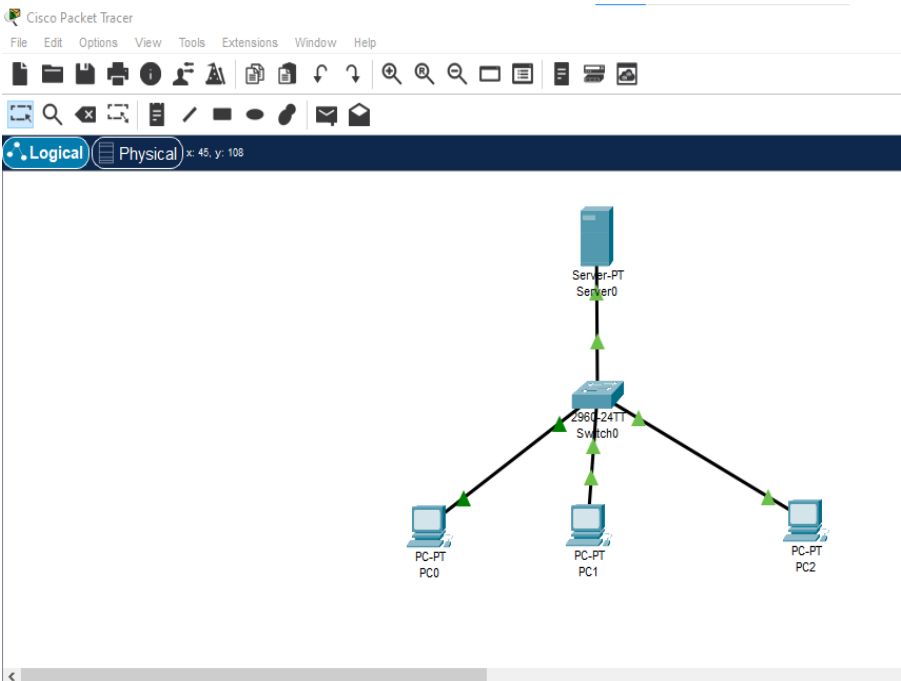
```
C:\Windows\system32>nslookup yahoo.com
Server:  warp-svc
Address:  fd01:db8:1111::2
```

```
Non-authoritative answer:
```

```
Name:    yahoo.com
Addresses: 2001:4998:24:120d::1:0
           2001:4998:24:120d::1:1
           2001:4998:44:3507::8001
           2001:4998:124:1507::f000
           2001:4998:44:3507::8000
           2001:4998:124:1507::f001
           74.6.231.20
           74.6.143.25
           98.137.11.164
           98.137.11.163
           74.6.143.26
           74.6.231.21
```

```
C:\Windows\system32>
```

# Packet Tracer Topology:



```
PC0
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.31

Pinging 192.168.1.31 with 32 bytes of data:

Reply from 192.168.1.31: bytes=32 time<1ms TTL=128
Reply from 192.168.1.31: bytes=32 time<1ms TTL=128
Reply from 192.168.1.31: bytes=32 time<1ms TTL=128
Reply from 192.168.1.31: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.31:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping 192.168.1.32

Pinging 192.168.1.32 with 32 bytes of data:

Reply from 192.168.1.32: bytes=32 time<1ms TTL=128
Reply from 192.168.1.32: bytes=32 time<1ms TTL=128
Reply from 192.168.1.32: bytes=32 time<1ms TTL=128
Reply from 192.168.1.32: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.32:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```