

```
C:\Users\Vansh>netstat -r

=====
Interface List
19...0a 00 27 00 00 13 .....VirtualBox Host-Only Ethernet Adapter
 7...76 12 b3 ee ec 63 .....Microsoft Wi-Fi Direct Virtual Adapter #2
13...f6 12 b3 ee ec 63 .....Microsoft Wi-Fi Direct Virtual Adapter #4
21...74 12 b3 ee ec 63 .....Realtek RTL8822CE 802.11ac PCIe Adapter
16...74 12 b3 ee ec 64 .....Bluetooth Device (Personal Area Network)
1.....Software Loopback Interface 1
=====

IPv4 Route Table
=====
Active Routes:
Network Destination        Netmask          Gateway           Interface         Metric
0.0.0.0                    0.0.0.0          172.16.96.1       172.16.97.92      55
127.0.0.0                  255.0.0.0         On-link           127.0.0.1         331
127.0.0.1                  255.255.255.255   On-link           127.0.0.1         331
127.255.255.255            255.255.255.255   On-link           127.0.0.1         331
172.16.96.0                255.255.224.0     On-link           172.16.97.92      311
172.16.97.92               255.255.255.255   On-link           172.16.97.92      311
172.16.127.255             255.255.255.255   On-link           172.16.97.92      311
192.168.56.0               255.255.255.0     On-link           192.168.56.1      281
192.168.56.1               255.255.255.255   On-link           192.168.56.1      281
192.168.56.255             255.255.255.255   On-link           192.168.56.1      281
224.0.0.0                  240.0.0.0         On-link           127.0.0.1         331
224.0.0.0                  240.0.0.0         On-link           192.168.56.1      281
224.0.0.0                  240.0.0.0         On-link           172.16.97.92      311
255.255.255.255            255.255.255.255   On-link           127.0.0.1         331
255.255.255.255            255.255.255.255   On-link           192.168.56.1      281
255.255.255.255            255.255.255.255   On-link           172.16.97.92      311
=====
Persistent Routes:
None

IPv6 Route Table
=====
Active Routes:
If Metric Network Destination      Gateway
1    331 ::1/128               On-link
1    331 ff00::/8              On-link
=====
Persistent Routes:
None
```

```
C:\Users\Vansh>nslookup google.com
Server:      juit-dhcp-svr.juitw.org
Address:     172.16.73.14

Non-authoritative answer:
Name:        google.com
Addresses:   2404:6800:4002:81b::200e
             142.250.193.78
```

```
C:\Users\Vansh>hostname
vansh
```

```
C:\Users\Vansh>netstat

Active Connections

Proto Local Address          Foreign Address         State
TCP    127.0.0.1:5354          Vansh:49670            ESTABLISHED
TCP    127.0.0.1:5354          Vansh:49673            ESTABLISHED
TCP    127.0.0.1:27015         Vansh:49735            ESTABLISHED
TCP    127.0.0.1:49670         Vansh:5354             ESTABLISHED
TCP    127.0.0.1:49673         Vansh:5354             ESTABLISHED
TCP    127.0.0.1:49674         Vansh:49675            ESTABLISHED
TCP    127.0.0.1:49675         Vansh:49674            ESTABLISHED
TCP    127.0.0.1:49676         Vansh:49677            ESTABLISHED
TCP    127.0.0.1:49677         Vansh:49676            ESTABLISHED
```

```
C:\Users\Vansh>ping google.com

Pinging google.com [142.251.42.46] with 32 bytes of data:
Reply from 142.251.42.46: bytes=32 time=56ms TTL=117
Reply from 142.251.42.46: bytes=32 time=70ms TTL=117
Reply from 142.251.42.46: bytes=32 time=66ms TTL=117
Reply from 142.251.42.46: bytes=32 time=55ms TTL=117

Ping statistics for 142.251.42.46:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 55ms, Maximum = 70ms, Average = 61ms
```

```
C:\Users\Vansh>ping -t 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:
Request timed out.
Reply from 8.8.8.8: bytes=32 time=67ms TTL=116
Reply from 8.8.8.8: bytes=32 time=60ms TTL=116
Reply from 8.8.8.8: bytes=32 time=89ms TTL=116
Reply from 8.8.8.8: bytes=32 time=52ms TTL=116
Reply from 8.8.8.8: bytes=32 time=55ms TTL=116
Reply from 8.8.8.8: bytes=32 time=81ms TTL=116

Ping statistics for 8.8.8.8:
    Packets: Sent = 7, Received = 6, Lost = 1 (14% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 52ms, Maximum = 89ms, Average = 67ms
Control-C
^C
```

```
C:\Users\Vansh>ipconfig /?

USAGE:
    ipconfig [/allcompartments] [/? | /all |
        /renew [adapter] | /release [adapter] |
        /renew6 [adapter] | /release6 [adapter] |
        /flushdns | /displaydns | /registerdns |
        /showclassid adapter |
        /setclassid adapter [classid] |
        /showclassid6 adapter |
        /setclassid6 adapter [classid] ]

where
    adapter            Connection name
                        (wildcard characters * and ? allowed, see examples)

Options:
    /?                Display this help message
    /all              Display full configuration information.
    /release          Release the IPv4 address for the specified adapter.
    /release6         Release the IPv6 address for the specified adapter.
    /renew            Renew the IPv4 address for the specified adapter.
    /renew6           Renew the IPv6 address for the specified adapter.
    /flushdns         Purges the DNS Resolver cache.
    /registerdns       Refreshes all DHCP leases and re-registers DNS names
    /displaydns       Refreshes the contents of the DNS Resolver Cache.
    /showclassid      Displays all the dhcp class IDs allowed for adapter.
    /setclassid       Modifies the dhcp class id.
    /showclassid6     Displays all the IPv6 DHCP class IDs allowed for adapter.
    /setclassid6      Modifies the IPv6 DHCP class id.

The default is to display only the IP address, subnet mask and
default gateway for each adapter bound to TCP/IP.

For Release and Renew, if no adapter name is specified, then the IP address
leases for all adapters bound to TCP/IP will be released or renewed.

For Setclassid and Setclassid6, if no ClassId is specified, then the ClassId is removed.

Examples:
    > ipconfig                ... Show information
    > ipconfig /all           ... Show detailed information
    > ipconfig /renew         ... renew all adapters
    > ipconfig /renew EL*     ... renew any connection that has its
                                name starting with EL
    > ipconfig /release *Con* ... release all matching connections,
                                eg. "Wired Ethernet Connection 1" or
                                "Wired Ethernet Connection 2"

    > ipconfig /allcompartments ... Show information about all
                                compartments
    > ipconfig /allcompartments /all ... Show detailed information about all
                                compartments
```

```
C:\Users\Vansh>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : 
    IPv4 Address. . . . . : 192.168.56.1
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 

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  . : juitw.org
    IPv4 Address. . . . . : 172.16.97.92
    Subnet Mask . . . . . : 255.255.224.0
    Default Gateway . . . . . : 172.16.96.1

Ethernet adapter Bluetooth Network Connection:

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

```
C:\Users\Vansh>tracert -h 1 172.16.73.6

Tracing route to nameserver2.juitw.org [172.16.73.6]
over a maximum of 30 hops:
  0  35 ms  15 ms  42 ms  172.16.96.1
  1  3 ms   3 ms  3 ms  nameserver2.juitw.org [172.16.73.6]
Trace complete.
```

```
C:\Users\Vansh>tracert -h 1 172.16.73.6

Tracing route to nameserver2.juitw.org [172.16.73.6]
over a maximum of 1 hops:
  0  2 ms   59 ms  2 ms  172.16.96.1
Trace complete.
```