**Getmac:**

Gives physical address of your device

OUTPUT:

Physical Address Transport Name

=================== ==========================================================

E8-6A-64-8E-5A-4B Media disconnected

30-D8-6B-E2-0D-7B \Device\Tcpip\_{5B72E351-BD84-4029-81CC-759AF29K8824}

30-C1-6B-F4-0D-7C Media disconnected

**Hostname:**

Gives name of your/host’s device

OUTPUT:

Phantom

**Ping:**

Used to test the ability of the source computer to reach a specified destination computer

OUTPUT:

🡪ping www.google.com

Pinging www.google.com [172.217.167.228] with 32 bytes of data:

Reply from 172.217.167.228: bytes=32 time=80ms TTL=54

Reply from 172.217.167.228: bytes=32 time=31ms TTL=54

Reply from 172.217.167.228: bytes=32 time=29ms TTL=54

Reply from 172.217.167.228: bytes=32 time=27ms TTL=54

Ping statistics for 172.217.167.228:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 27ms, Maximum = 80ms, Average = 41ms

**Ipconfig:**

Ipconfig displays all current TCP/IP network configuration values and refreshes Dynamic Host Configuration Protocol (DHCP) and Domain Name System (DNS) settings.

OUTPUT:

Windows IP Configuration

Ethernet adapter Ethernet:

Media State . . . . . . . . . . . : Media disconnected

Connection-specific DNS Suffix . : nitkkr.ac.in

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 . : lan

Link-local IPv6 Address . . . . . : fe80::5f2:1dl6:c065:591a%8

IPv4 Address. . . . . . . . . . . : 192.188.1.99

Subnet Mask . . . . . . . . . . . : 255.255.255.0

Default Gateway . . . . . . . . . : 192.138.1.1

Ethernet adapter Bluetooth Network Connection:

Media State . . . . . . . . . . . : Media disconnected

Connection-specific DNS Suffix . :

**Tracert:**

The tracert command is a Command Prompt command that's used to show several details about the path that a packet takes from the computer or device you're on to whatever destination you specify. You might also sometimes see the tracert command referred to as the trace route command or traceroute command.

OUTPUT:

🡪tracert www.flipkart.com

Tracing route to flipkart.com [163.53.78.128]

over a maximum of 30 hops:

1 19 ms 23 ms 5 ms 192.168.1.1

2 46 ms 40 ms 35 ms 192.168.24.1

3 35 ms 32 ms 38 ms 103.44.136.5

4 \* \* 47 ms 103.44.136.25

5 \* \* \* Request timed out.

6 \* 61 ms 91 ms 103.193.199.10

7 921 ms 213 ms \* 103.218.230.137

8 \* \* \* Request timed out.

9 2811 ms 556 ms 184 ms dsl-ncr-static-253.81.16.125.airtelbroadband.in [125.16.81.253]

10 121 ms 142 ms 130 ms 182.79.243.184

11 104 ms 119 ms 91 ms 125.17.245.162

12 \* \* \* Request timed out.

13 \* \* \* Request timed out.

14 \* \* \* Request timed out.

15 104 ms 88 ms 97 ms 163.53.78.128

Trace complete.

**ARP:**

Using the arp command allows you to display and modify the Address Resolution Protocol (ARP) cache. An ARP cache is a simple mapping of IP addresses to MAC addresses.

OUTPUT:

Interface: 192.168.1.99 --- 0x8

Internet Address Physical Address Type

192.168.1.1 0a-d2-c5-59-57-9a dynamic

192.168.1.255 ff-ff-ff-ff-ff-ff static

224.0.0.2 01-00-5d-00-00-02 static

224.0.0.22 01-00-5d-00-00-16 static

224.0.0.251 01-00-5b-00-00-fb static

224.0.0.252 01-00-5e-00-00-fc static

239.192.152.143 01-00-5e-40-98-8f static

239.255.255.250 01-00-5b-7f-ff-fa static

255.255.255.255 ff-ff-ff-ff-ff-ff static

**Netstat:**

Displays network connections for [Transmission Control Protocol](https://en.wikipedia.org/wiki/Transmission_Control_Protocol) (both incoming and outgoing), [routing tables](https://en.wikipedia.org/wiki/Routing_table), and a number of network interface ([network interface controller](https://en.wikipedia.org/wiki/Network_interface_controller) or [software-defined network interface](https://en.wikipedia.org/wiki/Virtual_Interface)) and network protocol statistics.

OUTPUT:

Active Connections

Proto Local Address Foreign Address State

TCP 127.0.0.1:1521 Phantom:49807 ESTABLISHED

TCP 127.0.0.1:7184 Phantom:62903 ESTABLISHED

TCP 127.0.0.1:49907 Phantom:1221 ESTABLISHED

TCP 127.0.0.1:63903 Phantom:7084 ESTABLISHED

TCP 192.168.1.99:60774 ec2-107-22-446-37:https CLOSE\_WAIT

TCP 192.168.1.99:60787 ec2-107-22-266-37:https CLOSE\_WAIT

TCP 192.168.1.99:60788 ec2-107-22-249-37:https CLOSE\_WAIT

TCP 192.168.1.99:60886 a23-210-10-84:https ESTABLISHED

TCP 192.168.1.99:60895 182.186.156.189:63025 TIME\_WAIT

TCP 192.168.1.99:60906 185.149.90.104:51017 ESTABLISHED

TCP 192.168.1.99:61192 182.185.47.89:23077 ESTABLISHED

TCP 192.168.1.99:61195 40.90.185.223:https ESTABLISHED

TCP 192.168.1.99:61231 del03s16-in-f14:https ESTABLISHED

TCP 192.168.1.99:61232 del03s16-in-f14:https ESTABLISHED

TCP 192.168.1.99:61233 del03s16-in-f14:https ESTABLISHED

TCP 192.168.1.99:61234 del03s16-in-f14:https ESTABLISHED

TCP 192.168.1.99:61235 del03s16-in-f14:https ESTABLISHED

TCP 192.168.1.99:61236 del03s16-in-f14:https ESTABLISHED

TCP 192.168.1.99:61271 51.235.44.213:39087 ESTABLISHED

TCP 192.168.1.99:61286 lb-140-82-114-25-iad:https ESTABLISHED

TCP 192.168.1.99:61320 133.154.53.139:39891 FIN\_WAIT\_2

TCP 192.168.1.99:61328 106.220.64.128:44594 FIN\_WAIT\_2

**Nslookup:**

Nslookup is a network administration command-line tool available in many computer operating systems for querying the Domain Name System (DNS) to obtain domain name or IP address mapping, or other DNS records. The name nslookup means - name server lookup.

OUTPUT:

Default Server: UnKnown

Address: 192.168.1.1

> www.google.com

Server: UnKnown

Address: 192.168.1.1

Non-authoritative answer:

Name: www.google.com

Addresses: 2404:6800:4002:80d::2004

172.217.166.4

> www.amazon.com

Server: UnKnown

Address: 192.168.1.1

Non-authoritative answer:

Name: e15316.e22.akamaiedge.net

Address: 23.57.249.164

Aliases: www.amazon.com

www.cdn.amazon.com

www.amazon.com.edgekey.net

> www.vinjizon.com

Server: UnKnown

Address: 192.168.1.1

\*\*\* UnKnown can't find www.vinjizon.com: Non-existent domain