

1. arp -a

Description:

Output :

```
C:\Users\shrut> arp -a
Interface: 192.168.29.205 --- 0x8

    Internet Address      Physical Address      Type
    192.168.29.1          f0-ed-b8-68-b0-69     dynamic
    192.168.29.255        ff-ff-ff-ff-ff-ff     static
    224.0.0.22             01-00-5e-00-00-16     static
    224.0.0.251           01-00-5e-00-00-fb     static
    224.0.0.252           01-00-5e-00-00-fc     static
    239.255.255.250       01-00-5e-7f-ff-fa     static
    255.255.255.255       ff-ff-ff-ff-ff-ff     static
```

2. hostname

Description:

Output:

```
C:\Users\shrut> hostname
WIN-SHRU
```

3. ipconfig

Description:

Output:

```
C:\Users\shrut> ipconfig
Wireless LAN adapter Wi-Fi:
    Connection-specific DNS Suffix  . :
    IPv6 Address. . . . . : 2405:201:801b:1867:dda6:f9f1:8aa8:a812
    Temporary IPv6 Address. . . . . :2405:201:801b:1867:
dc35:6cb0:601f:4d4f
    Link-local IPv6 Address . . . . . : fe80::57bc:196:bd3a:d0f5%8
    IPv4 Address. . . . . : 192.168.29.205
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : fe80::f2ed:b8ff:fe68:b069%8192.168.29.1
```

4. ipconfig /all

Description:

Output:

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

```
Windows IP Configuration
```

```
Host Name . . . . . : WIN-SHRU
Primary Dns Suffix . . . . . :
Node Type . . . . . : Mixed
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
```

```
Ethernet adapter Ethernet:
```

```
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : Realtek PCIe FE Family Controller
Physical Address. . . . . : 98-E7-43-4A-7C-25
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
```

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

```
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : Microsoft Wi-Fi Direct Virtual Adapter
Physical Address. . . . . : 4E-EB-BD-AD-FA-A3
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
```

```
Wireless LAN adapter Local Area Connection* 2:
```

```
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : Microsoft Wi-Fi Direct Virtual Adapter #2
Physical Address. . . . . : 5E-EB-BD-AD-FA-A3
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
```

```
Wireless LAN adapter Wi-Fi:
```

```
Connection-specific DNS Suffix . :
Description . . . . . : Qualcomm QCA9377 802.11ac Wireless Adapter
Physical Address. . . . . : 4C-EB-BD-AD-FA-A3
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
IPv6 Address. . . . . : 2405:201:801b:1867:dda6:f9f1:8aa8:a812(Preferred)
Temporary IPv6 Address. . . . . : 2405:201:801b:1867:dc35:6cb0:601f:4d4f(Preferred)
Link-local IPv6 Address . . . . . : fe80::57bc:196:bd3a:d0f5%8(Preferred)
IPv4 Address. . . . . : 192.168.29.205(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Lease Obtained. . . . . : 01 March 2025 07:47:27
Lease Expires . . . . . : 02 March 2025 11:51:15
Default Gateway . . . . . : fe80::f2ed:b8ff:fe68:b069%8
                          192.168.29.1
DHCP Server . . . . . : 192.168.29.1
DHCPv6 IAID . . . . . : 105704381
DHCPv6 Client DUID. . . . . : 00-01-00-01-2E-CC-5A-1B-98-E7-43-4A-7C-25
DNS Servers . . . . . : 2405:201:801b:1867::c0a8:1d01
                          192.168.29.1
```

5. ipconfig /renew

Description:

Output:

```
C:\Users\shrut> ipconfig /renew
```

```
Windows IP Configuration
```

```
Ethernet adapter Ethernet Instance 0:
```

```
Connection-specific DNS Suffix . :  
Link-local IPv6 Address . . . . . : fe80::a6b1:43cf:9495:9d85%9  
IPv4 Address. . . . . : 192.168.122.28  
Subnet Mask . . . . . : 255.255.255.0  
Default Gateway . . . . . : 192.168.122.1
```

6. ipconfig /release

Description:

Output:

```
C:\Users\shrut> ipconfig /release
```

```
Windows IP Configuration
```

```
Ethernet adapter Ethernet Instance 0:
```

```
Connection-specific DNS Suffix . :  
Link-local IPv6 Address . . . . . : fe80::a6b1:43cf:9495:9d85%9  
Default Gateway . . . . . :
```

7. ipconfig /flushdns

Description:

Output:

```
C:\Users\shrut> ipconfig /flushdns
```

8. netdiag

Description:

Output:

```
C:\Users\shrut> netdiag
```

9. netstat

Description:

Output:

```
C:\Users\shrut> netstat
```

Active Connections

Proto	Local Address	Foreign Address	State
TCP	192.168.29.205:51323	202:4070	ESTABLISHED
TCP	192.168.29.205:51773	20.50.73.13:https	ESTABLISHED
TCP	192.168.29.205:51788	20.37.198.118:https	ESTABLISHED
TCP	192.168.29.205:51789	52.182.141.63:https	ESTABLISHED
TCP	[2405:201:801b:1867:dc35:6cb0:601f:4d4f]:50714	[2603:1040:a06:6::2]:https	ESTABLISHED
TCP	[2405:201:801b:1867:dc35:6cb0:601f:4d4f]:50734	[2603:1040:a06:6::2]:https	ESTABLISHED
TCP	[2405:201:801b:1867:dc35:6cb0:601f:4d4f]:50830	[2603:1040:a06:6::2]:https	ESTABLISHED
TCP	[2405:201:801b:1867:dc35:6cb0:601f:4d4f]:50838	sc-in-xbc:5228	ESTABLISHED

10. nslookup

Description:

Output:

```
C:\Users\shrut> nslookup www.google.com
```

```
Server:  reliance.reliance
```

```
Address:  2405:201:801b:1867::c0a8:1d01
```

```
Non-authoritative answer:
```

```
Name:      www.google.com
```

```
Addresses:  2404:6800:4002:81e::2004
```

```
            142.250.192.132
```

11. ping

Description:

Output:

```
C:\Users\shrut> ping www.google.com
```

```
Pinging www.google.com [2404:6800:4009:82b::2004] with 32 bytes of data:
```

```
Reply from 2404:6800:4009:82b::2004: time=46ms
```

```
Reply from 2404:6800:4009:82b::2004: time=46ms
```

```
Reply from 2404:6800:4009:82b::2004: time=47ms
```

```
Reply from 2404:6800:4009:82b::2004: time=47ms
```

```
Ping statistics for 2404:6800:4009:82b::2004:
```

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

```
Approximate round trip times in milli-seconds:
```

```
    Minimum = 46ms, Maximum = 47ms, Average = 46ms
```

12. route

Description:

Output:

```
C:\Users\shrut> route print
```

Interface List

```
15...98 e7 43 4a 7c 25 .....Realtek PCIe FE Family Controller
12...4e eb bd ad fa a3 .....Microsoft Wi-Fi Direct Virtual Adapter
 3...5e eb bd ad fa a3 .....Microsoft Wi-Fi Direct Virtual Adapter #2
 8...4c eb bd ad fa a3 .....Qualcomm QCA9377 802.11ac Wireless Adapter
1.....Software Loopback Interface 1
```

IPv4 Route Table

Active Routes:

Network	Destination	Netmask	Gateway	Interface	Metric
	0.0.0.0	0.0.0.0	192.168.29.1	192.168.29.205	35
	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
192.168.29.0	255.255.255.0		On-link	192.168.29.205	291
192.168.29.205	255.255.255.255		On-link	192.168.29.205	291
192.168.29.255	255.255.255.255		On-link	192.168.29.205	291
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	192.168.29.205	291
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	192.168.29.205	291

IPv6 Route Table

Active Routes:

If	Metric	Network	Destination	Gateway
8	51	::/0		fe80::f2ed:b8ff:fe68:b069
1	331	::1/128		On-link
8	51	2405:201:801b:1867::/64		On-link
8	291	2405:201:801b:1867:dc35:6cb0:601f:4d4f/128		On-link
8	291	2405:201:801b:1867:dda6:f9f1:8aa8:a812/128		On-link
8	291	fe80::/64		On-link
8	291	fe80::57bc:196:bd3a:d0f5/128		On-link
1	331	ff00::/8		On-link
8	291	ff00::/8		On-link

Persistent Routes:

None

13. tracert

Description:

Output:

```
C:\Users\shrut> tracert www.google.com
```

```
Tracing route to www.google.com [2404:6800:4009:811::2004]
over a maximum of 30 hops:
```

1	2 ms	2 ms	2 ms	2405:201:801b:1867:f2ed:b8ff:fe68:b069
2	*	*	*	Request timed out.
3	8 ms	7 ms	7 ms	2405:200:801:500::71
4	*	*	*	Request timed out.
5	4 ms	6 ms	5 ms	2405:200:816:3168:61::4
6	*	*	*	Request timed out.
7	7 ms	5 ms	6 ms	2405:200:801:500::caa
8	*	*	*	Request timed out.
9	89 ms	7 ms	7 ms	2405:200:100::1:0:59e
10	*	*	*	Request timed out.
11	*	*	*	Request timed out.
12	29 ms	*	30 ms	2404:6800:80a3::1
13	29 ms	28 ms	30 ms	2001:4860:0:1::168c
14	31 ms	31 ms	28 ms	2001:4860:0:1::78c0
15	28 ms	31 ms	37 ms	2001:4860::9:4001:67bd
16	63 ms	49 ms	56 ms	2001:4860::9:4001:7734

14. pathping

Description:

Output:

```
C:\Users\shrut> pathping www.google.com
```

```
Tracing route to www.google.com [2404:6800:4009:811::2004]
over a maximum of 30 hops:
```

```
0  WIN-SHRU [2405:201:801b:1867:dc35:6cb0:601f:4d4f]
1  2405:201:801b:1867:f2ed:b8ff:fe68:b069
2  * * *
```

```
Computing statistics for 25 seconds...
```

Hop	RTT	Source to Here Lost/Sent = Pct	This Node/Link Lost/Sent = Pct	Address
0				WIN-SHRU [2405:201:801b:1867:dc35:6cb0:601f:4d4f]
1	3ms	0/ 100 = 0%	0/ 100 = 0%	2405:201:801b:1867:f2ed:b8ff:fe68:b069

```
Trace complete. |
```