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## 1.ipconfig

```
C:\Windows\System32>ipconfig

Windows IP Configuration

Ethernet adapter vEthernet (WSL (Hyper-V firewall)):
```

Connection-specific DNS Suffix	:	
Link-local IPv6 Address . . . . .	:	fe80::8c68:d3b4:b060:6a53%33
IPv4 Address. . . . .	:	172.21.80.1
Subnet Mask . . . . .	:	255.255.240.0
Default Gateway . . . . .	:	

```
Ethernet adapter Ethernet:
```

Connection-specific DNS Suffix	:	VESITSTUDENT
Link-local IPv6 Address . . . . .	:	fe80::7a9b:89b4:987a:7650%18
IPv4 Address. . . . .	:	192.168.43.111
Subnet Mask . . . . .	:	255.255.240.0
Default Gateway . . . . .	:	192.168.32.1

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

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

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

## 2.ipconfig /all

```
Autoconfiguration Enabled . . . . : Yes

C:\Windows\System32>ipconfig /all

Windows IP Configuration

Host Name . . . . . : LAPTOP-L4QVQDMG
Primary Dns Suffix . . . . . :
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
DNS Suffix Search List. . . . . : VESITSTUDENT

Ethernet adapter vEthernet (WSL (Hyper-V firewall)):
```

Connection-specific DNS Suffix	:	
Description . . . . .	:	Hyper-V Virtual Ethernet Adapter
Physical Address. . . . .	:	00-15-5D-CC-3B-C3
DHCP Enabled. . . . .	:	No
Autoconfiguration Enabled . . . .	:	Yes
Link-local IPv6 Address . . . . .	:	fe80::8c68:d3b4:b060:6a53%33(Preferred)
IPv4 Address. . . . .	:	172.21.80.1(Preferred)
Subnet Mask . . . . .	:	255.255.240.0
Default Gateway . . . . .	:	
DHCPv6 IAID . . . . .	:	553653597
DHCPv6 Client DUID. . . . .	:	00-01-00-01-2D-8A-B4-B0-40-C2-BA-F2-64-75
NetBIOS over Tcpip. . . . .	:	Enabled

```
Ethernet adapter Ethernet:
```

### 3.PING

```
C:\Windows\System32>ping www.google.com

Pinging www.google.com [142.250.182.228] with 32 bytes of data:
Reply from 142.250.182.228: bytes=32 time=1ms TTL=117
Reply from 142.250.182.228: bytes=32 time=1ms TTL=117
Reply from 142.250.182.228: bytes=32 time=1ms TTL=117
Reply from 142.250.182.228: bytes=32 time=2ms TTL=117

Ping statistics for 142.250.182.228:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 2ms, Average = 1ms

C:\Windows\System32>
```

### 4.tracert

```
C:\Windows\System32>tracert google.com

Tracing route to google.com [142.250.199.174]
over a maximum of 30 hops:

  0  <1 ms    <1 ms    <1 ms    192.168.32.1
  1  <1 ms    <1 ms    <1 ms    103.197.221.161
  2  1 ms     1 ms     1 ms     103.197.223.17
  3  <1 ms    <1 ms    <1 ms    183.87.161.249.server.jp.rdigital.in [183.87.161.249]
  4  1 ms     <1 ms    <1 ms    72.14.209.97
  5  2 ms     1 ms     1 ms     192.178.111.151
  6  1 ms     1 ms     1 ms     108.170.234.157
  7  1 ms     1 ms     1 ms     bom07s37-in-f14.1e100.net [142.250.199.174]

Trace complete.

C:\Windows\System32>
```

### 5.nslookup

```
C:\Windows\System32>nslookup yahoo.com
Server:      UnKnown
Address:     192.168.32.1

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

C:\Windows\System32>
```

## 6.dig

```
Mon 20:20
student@ubuntu: ~

File Edit View Search Terminal Help

student@ubuntu:~$ dig google.com

;<<>> DiG 9.11.3-1ubuntu1.3-Ubuntu <<>> google.com
; global options: +cmd
; Got answer:
; ->HEADER<- opcode: QUERY, status: NOERROR, id: 31945
; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

; OPT PSEUDOSECTION:
; EDNS: version: 0, flags::; udp: 65494
; QUESTION SECTION:
; google.com.                                IN      A

; ANSWER SECTION:
; google.com.                                5        IN      A      142.251.42.78

; Query time: 1 msec
; SERVER: 127.0.0.53#53(127.0.0.53)
; WHEN: Mon Sep 30 20:20:22 PDT 2024
; MSG SIZE rcvd: 55

student@ubuntu:~$ S
```

## 7.whois

```
sushant@DESKTOP-TUH3NL7:~$ whois
Usage: whois [OPTION]... OBJECT...

-h HOST, --host HOST      connect to server HOST
-p PORT, --port PORT      connect to PORT
-I                          query whois.iana.org and follow its referral
-H                          hide legal disclaimers
--verbose                  explain what is being done
--no-recursion              disable recursion from registry to registrar servers
--help                     display this help and exit
--version                  output version information and exit

These flags are supported by whois.ripe.net and some RIPE-like servers:
-l                          find the one level less specific match
-L                          find all levels less specific matches
-m                          find all one level more specific matches
-M                          find all levels of more specific matches
-c                          find the smallest match containing a mnt-irt attribut
e
-x                          exact match
-b                          return brief IP address ranges with abuse contact
-B                          turn off object filtering (show email addresses)
-G                          turn off grouping of associated objects
-d                          return DNS reverse delegation objects too
-i ATTR[,ATTR]...          do an inverse look-up for specified ATTRibutes
-T TYPE[,TYPE]...          only look for objects of TYPE
-K                          only primary keys are returned
-r                          turn off recursive look-ups for contact information
-R                          force to show local copy of the domain object even
if it contains referral
-a                          also search all the mirrored databases
-s SOURCE[,SOURCE]...      search the database mirrored from SOURCE
-g SOURCE:FIRST-LAST       find updates from SOURCE from serial FIRST to LAST
-t TYPE                     request template for object of TYPE
-v TYPE                     request verbose template for object of TYPE
-q [version|sources|types] query specified server info
sushant@DESKTOP-TUH3NL7:~$ |
```