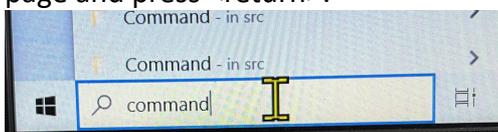


Networking crib sheet

Finding your IP address and Gateway (Router address)

On windows 10 or 11

1. Click on the Wi-Fi symbol
2. Click on properties on the network you are connected to
3. Scroll down to IPv4 address
4. To find the routers address, type command into the run box at the bottom of the page and press <return>.



A simple command page will come up, type in ipconfig<return>

```
Command Prompt
Microsoft Windows [Version 10.0.19045.5737]
(c) Microsoft Corporation. All rights reserved.
C:\Users\giles>ipconfig
Windows IP Configuration

Ethernet adapter Ethernet:

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

Wireless LAN adapter Local Area Connection* 1:

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

Wireless LAN adapter Wifi:

    Connection-specific DNS Suffix  . : Home
    IPv6 Address. . . . . : 2a02:c7c:736b:4600:462a:10ba:ca2a:4006
    IPv6 Address. . . . . : fdff:135e:ddc1:0:ab9e:6599:2759:6c4e
    Temporary IPv6 Address. . . . . : 2a02:c7c:736b:4600:c127:4892:4615:c4a6
    Temporary IPv6 Address. . . . . : fdff:135e:ddc1:0:c127:4892:4615:c4a6
    Link-local IPv6 Address . . . . . : fe80::1aa6:1266:a98f:7442%13
    IPv4 Address. . . . . : 192.168.100.152
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : fe80::c660:26ff:fe2f:9af1%13
    192.168.100.1

Ethernet adapter Bluetooth Network Connection:

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

C:\Users\giles>
```

On Apple Mac

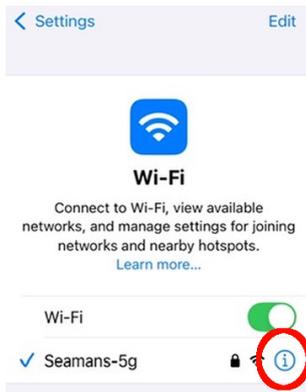
Go to System settings>Network> click on the right arrow on the net you are connected to>select details and scroll down

On Android

1. On the Home screen, tap the **Menu** button and go to **Settings**.
2. Tap **Wireless Controls**.
3. Tap **WiFi settings** and tap on the network you are currently connected to.
4. A dialog will pop up with network status, speed, signal strength, security type and IP address.

On iPhone

1. Go to Settings>Wifi
2. Click on the information icon and scroll down to see the addresses



Speed tests

1. Point your browser at <https://www.speedtest.net/>
2. Accept the cookies and hit the GO button

Note that your Wi-Fi may be the slowest thing if, for example, you are connected by fibre.

Find your public IP address

1. Point your browser at <https://whatismyipaddress.com/>

Advanced techniques from the command prompt

Ping

To check if you can reach a remote computer type ping xxx where xxx is the name of the site e.g ping www.yahoo.com.

If you just want to check connectivity, try ping 4.2.2.1

If you can ping an address but not the name, then there is a Domain Name Service problem, so contact your service provider (BT, EE, Sky etc)

Nslookup

To find the IP address of a web site, type nslookup sitename e.g. nslookup amazon.com. This tests the Domain Name Service.

Note in this example amazon.com has 3 IP addresses

```
[gilesGB@Intel-MacBook-Pro-2 ~ % nslookup amazon.com
Server:      192.168.100.1
Address:     192.168.100.1#53

Non-authoritative answer:
Name:   amazon.com
Address: 205.251.242.103
Name:   amazon.com
Address: 52.94.236.248
Name:   amazon.com
Address: 54.239.28.85
```

Acknowledgements

These notes are based on this web site

https://www.expressvpn.com/support/troubleshooting/find-default-gateway/?srsltid=AfmBOorHQTCQeUVutq0HoRK7ZiuO49bWQOOQjY_fr2PjKw4dfM-3mKPT