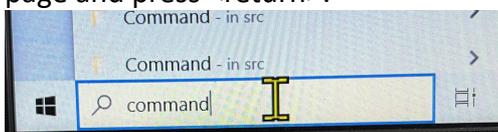# Networking crib sheet

## 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>

**On Apple Mac**

Go to Ststem 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
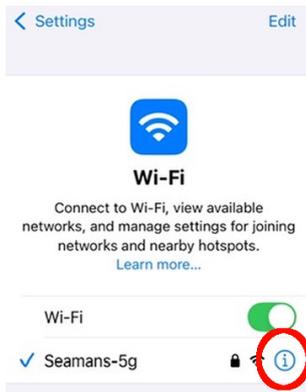


## Speed tests

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](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](https://www.expressvpn.com/support/troubleshooting/find-default-gateway/?srsltid=AfmBOorHQTCQeUVutq0HoRK7ZiuO49bWQOOQjY_fR2PjKw4dfM-3mKPT)