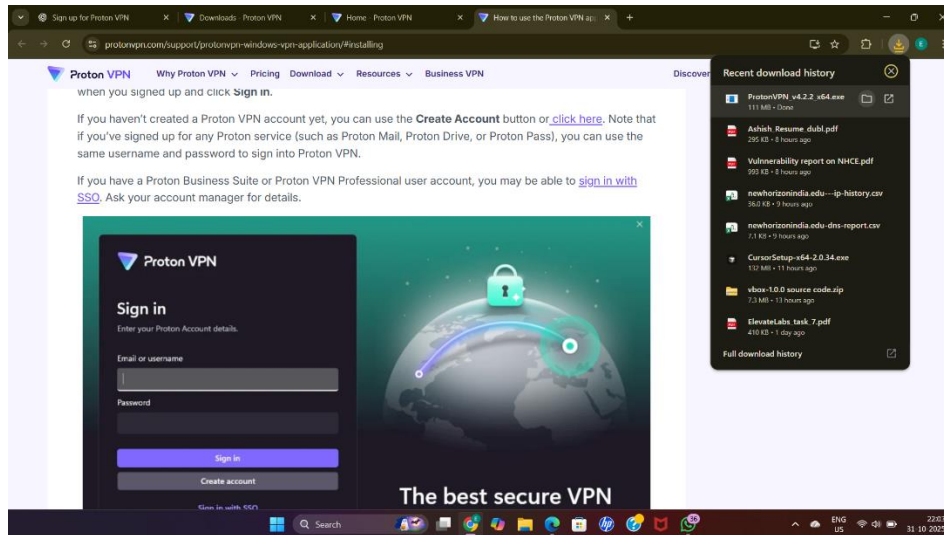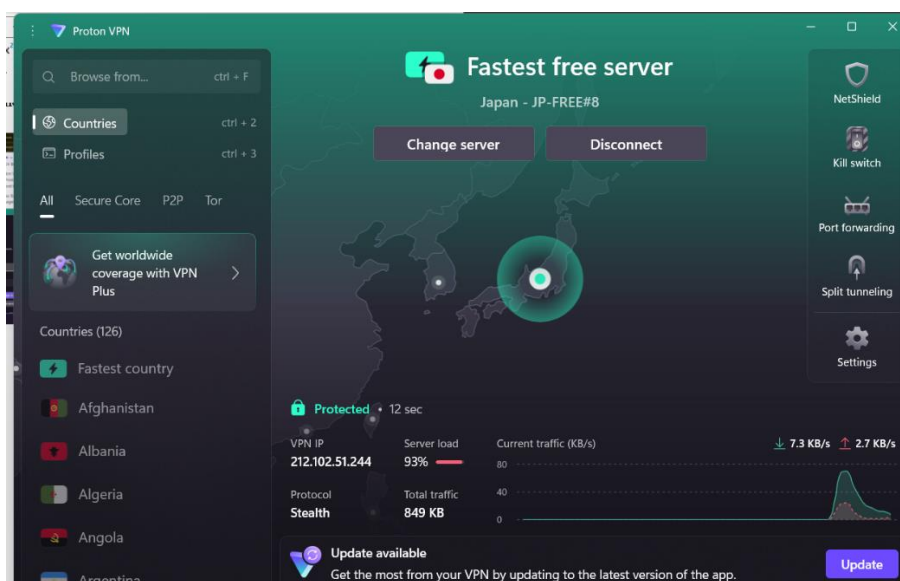# Task 8 : Understanding how VPN works:
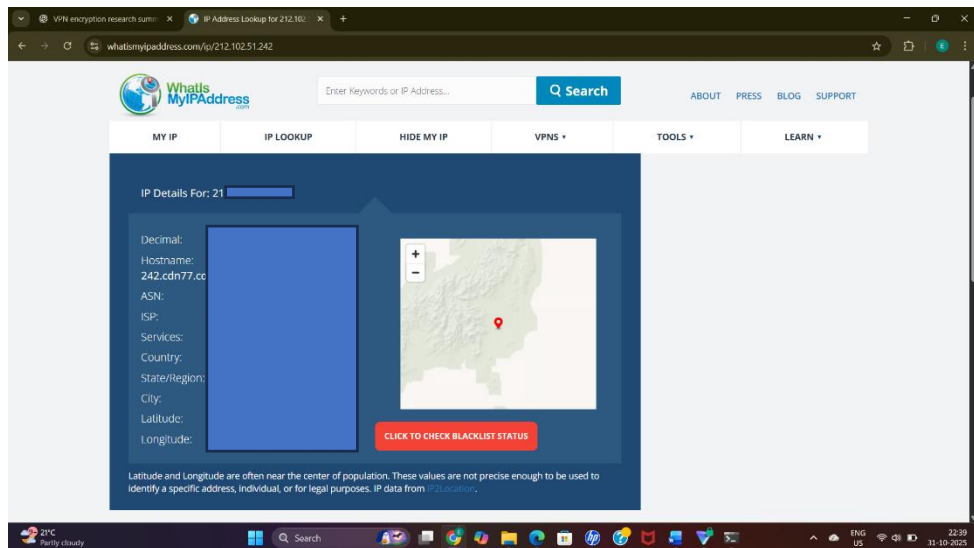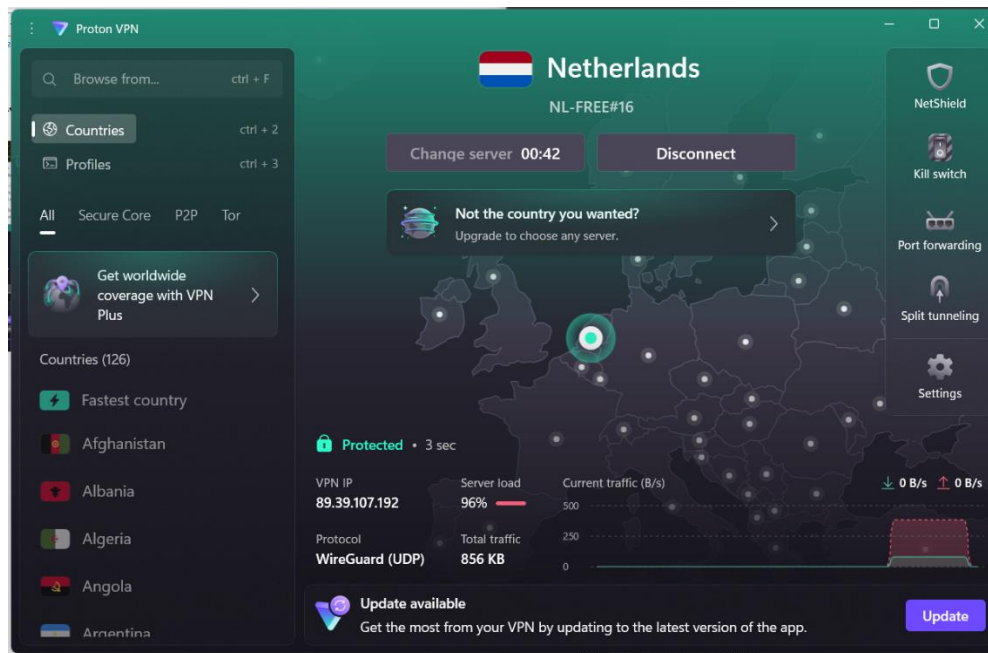
1. Choose a reputable free VPN service and sign up.
   - I choose "proton VPN".
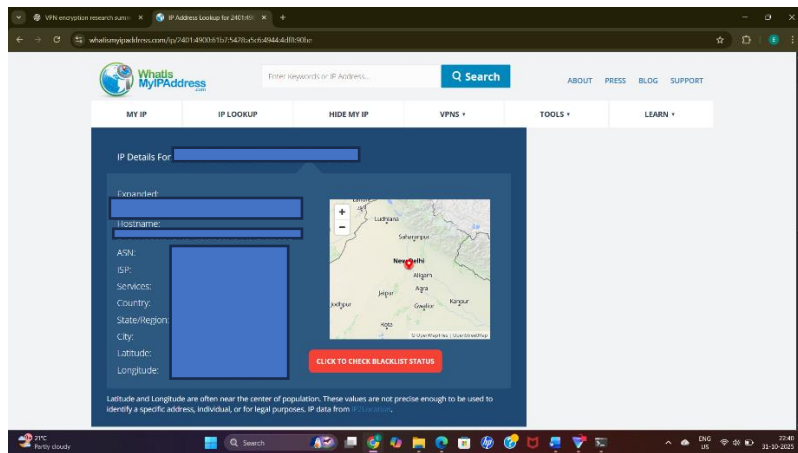2. Download and install the VPN client.

3. Connect to a VPN server (choose closest or any location).
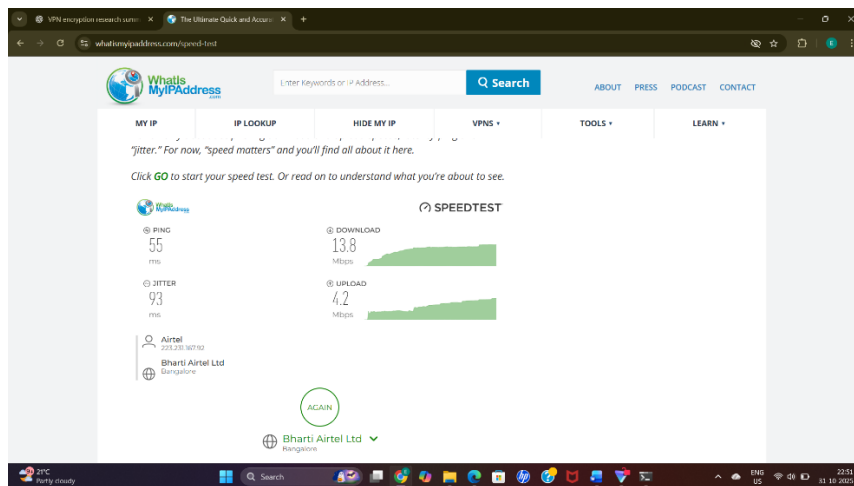   - Selected Japan server.

- After changing to japan's server my IP is "212.102.51.244".
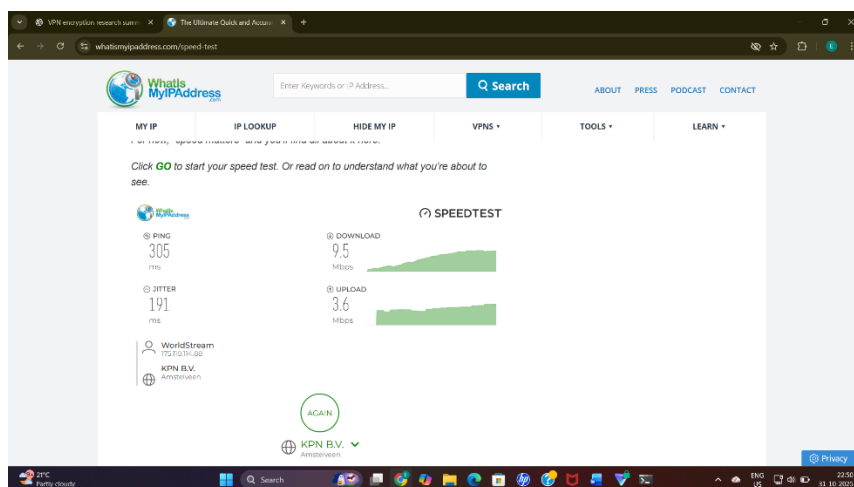- Again I changed the server to Netherlands. Now my IP is "89.39.107.192".

- After disconnecting the VPN

- Speed test before VPN

- After connecting to VPN

4. Research VPN encryption and privacy features.

- VPN encryption means that your data is scrambled so third-parties (hackers on WiFi, network operators) cannot read it.
- It creates a tunnel between your device and the VPN server so that your traffic travels via that server.
- There are also some protocols in VPN:
- IPsec, IKEv2, WireGuard.

5. Write a summary on VPN benefits and limitations.
   Benefits:
- Privacy Protection.
- IP Masking.
- Secure Public Wi-Fi Use.
- Bypass Geo-Restrictions.

   Limitations:

- Reduced Speed.
- Service Restrictions.
- Possible Leaks.