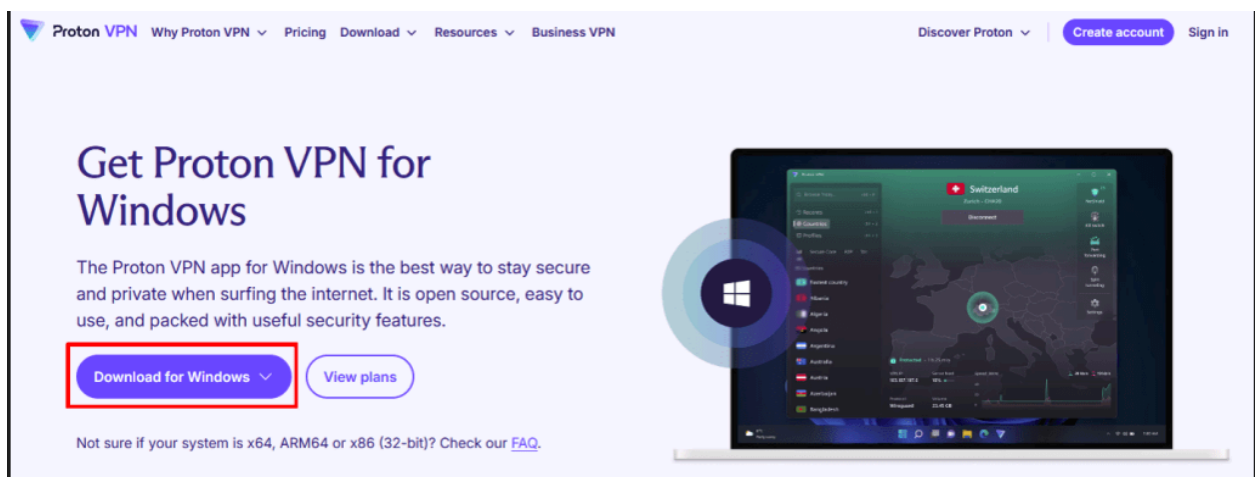


VPN Setup and Privacy Report

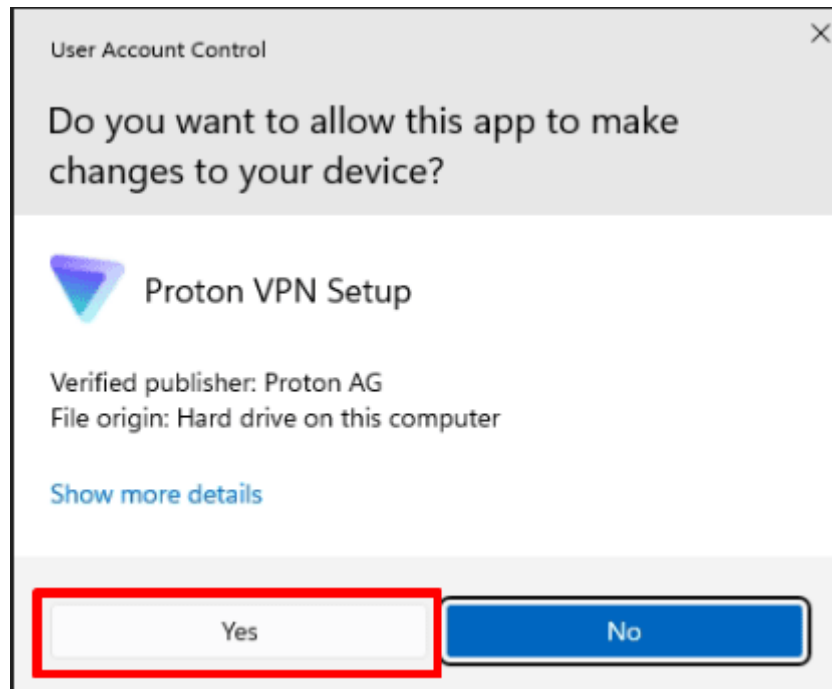
1. Choose a Reputable Free VPN Service

- **VPN Chosen:** ProtonVPN (Free Tier)
- **Why?** ProtonVPN offers unlimited bandwidth on the free tier and strong privacy policies with no logging.



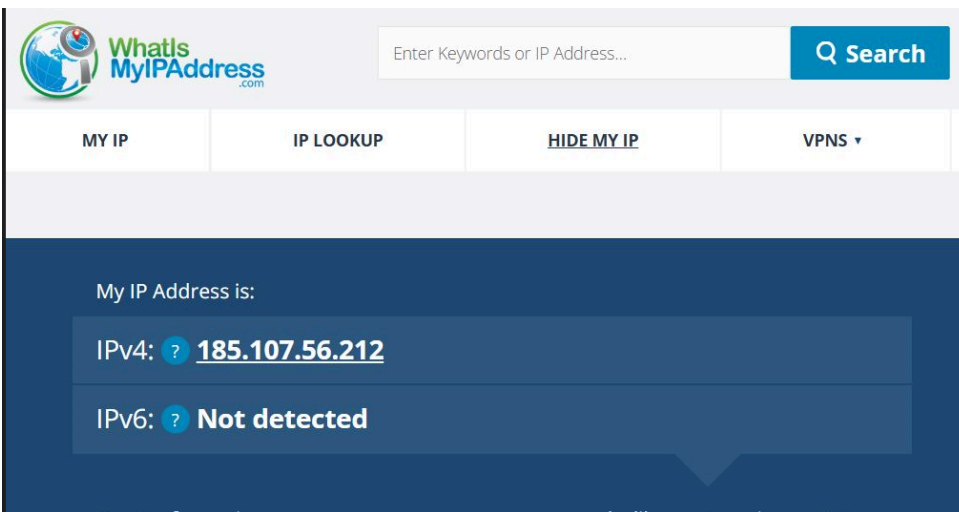
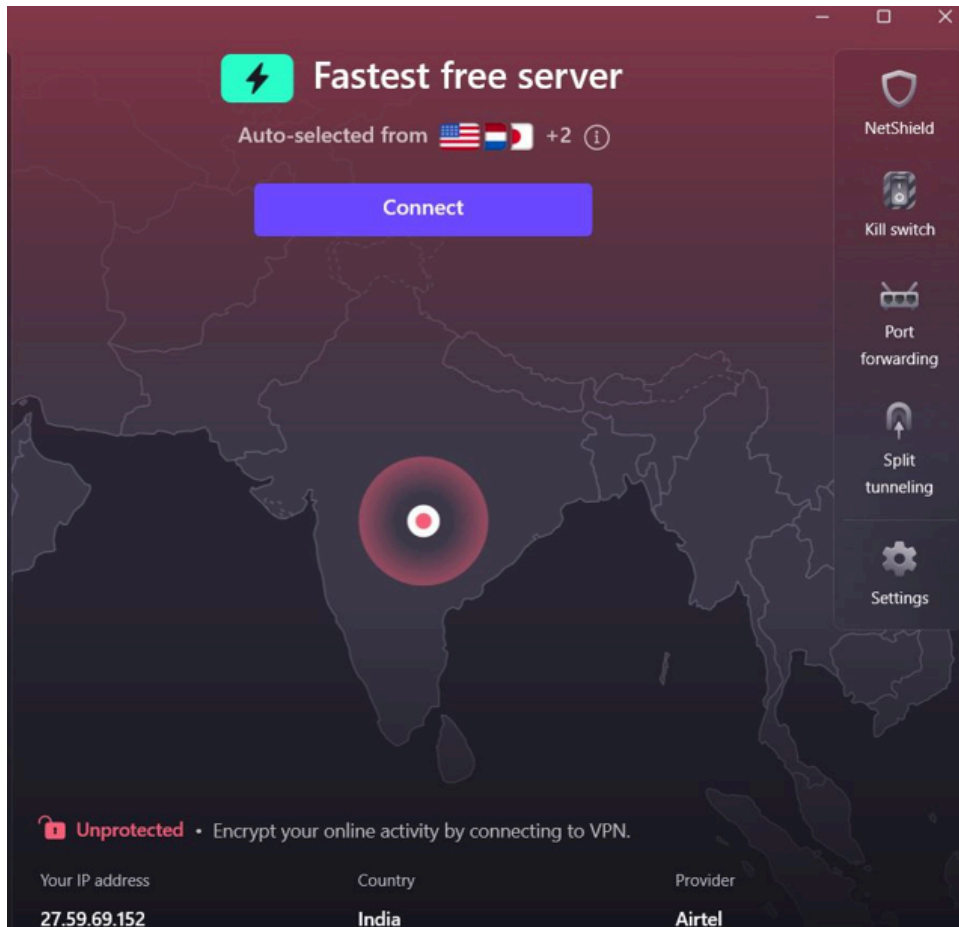
2. Download and Install the VPN Client

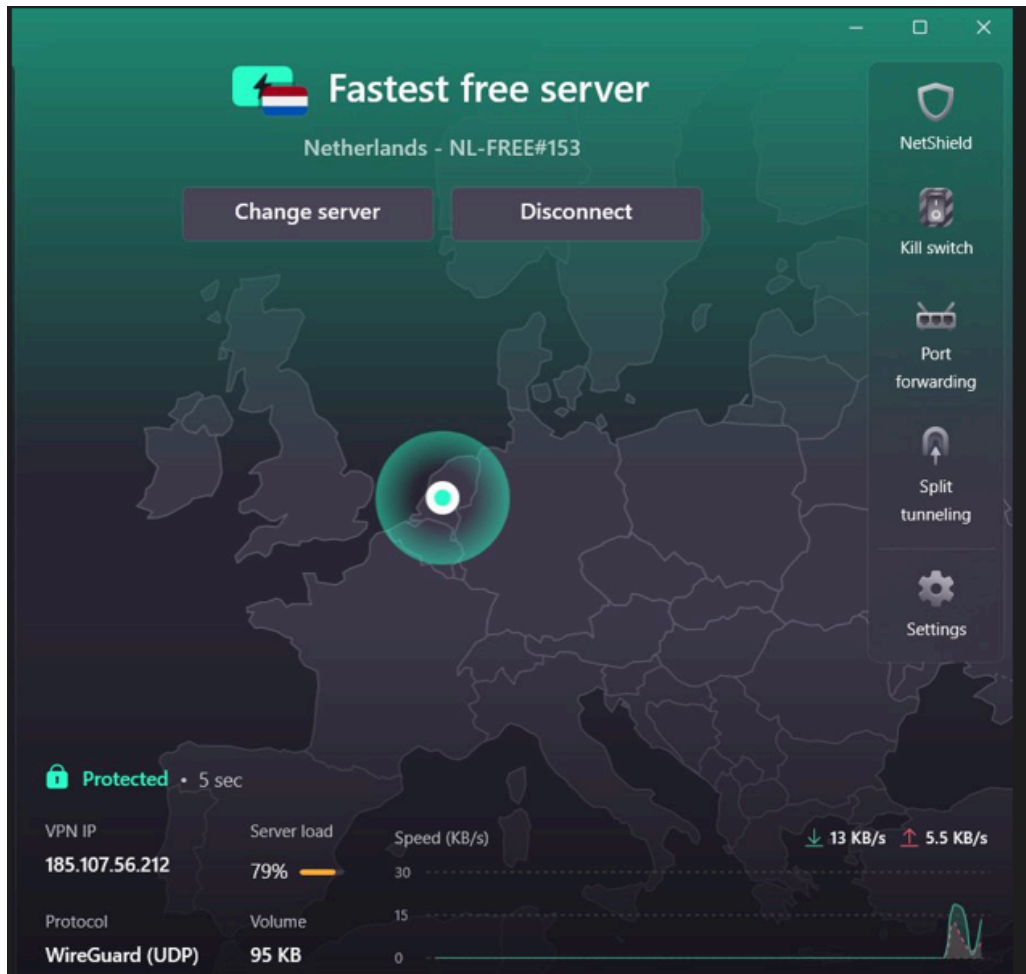
- Go to <https://protonvpn.com>
- Sign up for a free account.
- Download the ProtonVPN client for your operating system (Windows/macOS/Linux).
- Install and launch the client.



3. Connect to a VPN Server

- Log in to the ProtonVPN client.
- Choose a **Free server** (for example, Netherlands or United States – based on proximity).
- Click "Connect".



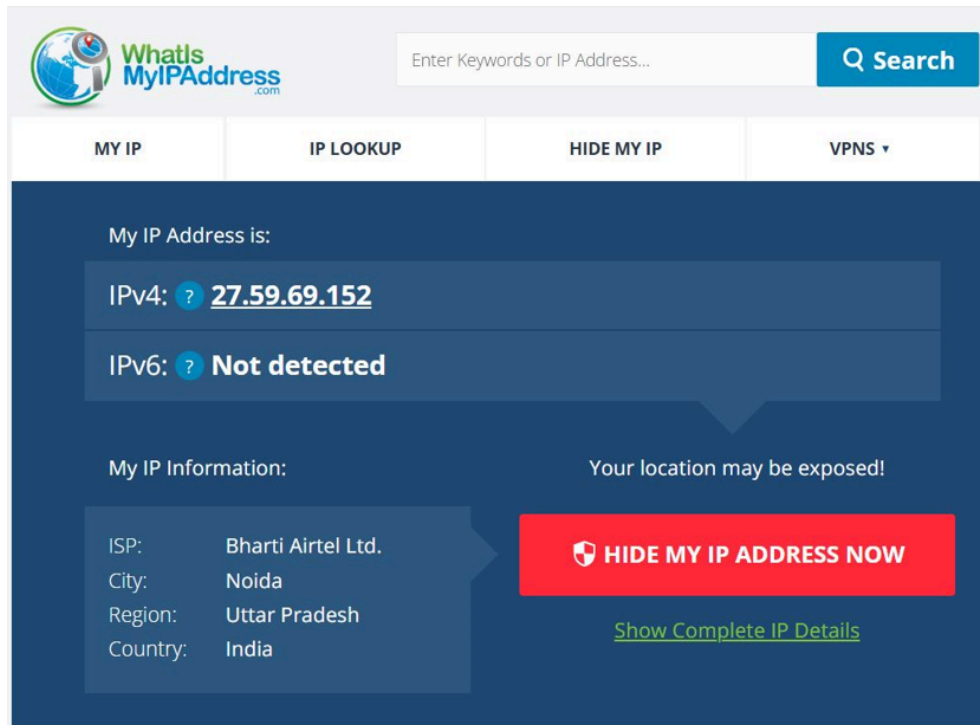


4. Verify Your IP Address Has Changed

- While connected to the VPN, go to <https://whatismyipaddress.com>
 - Note the **new IP address and location** (it should match the VPN server).
 - Take a **screenshot of the changed IP address** (this is one of your deliverables).
-

5. Browse a Website to Confirm Traffic is Encrypted

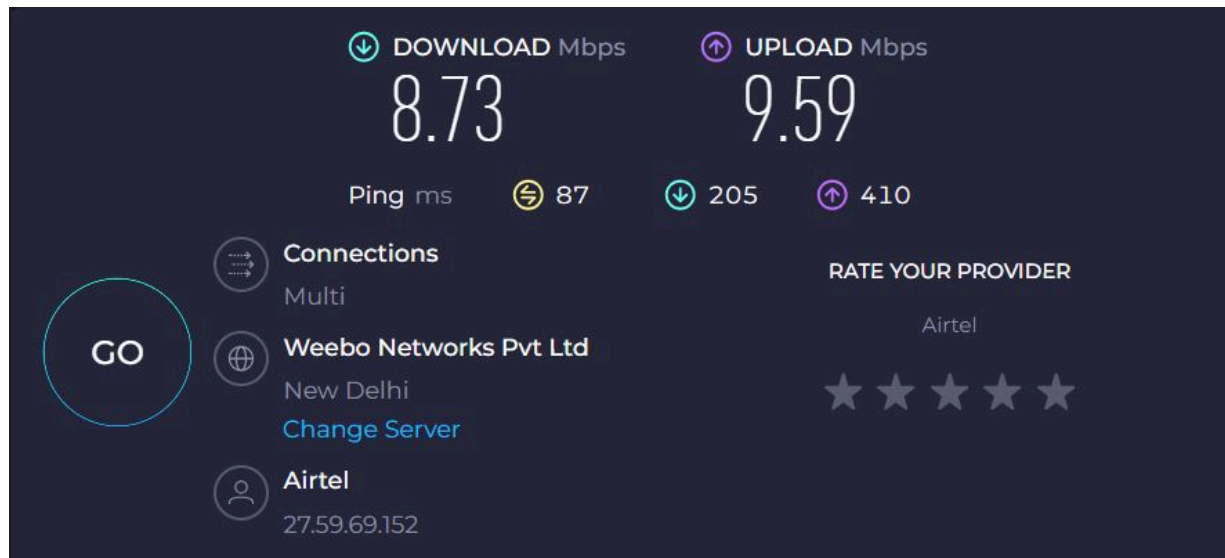
- Visit a secure website such as <https://bbc.com> or any HTTPS site.
- Observe the padlock icon in the address bar – it confirms encryption.
- You can use tools like <https://www.dnsleaktest.com> to verify DNS requests are routed through the VPN as well.



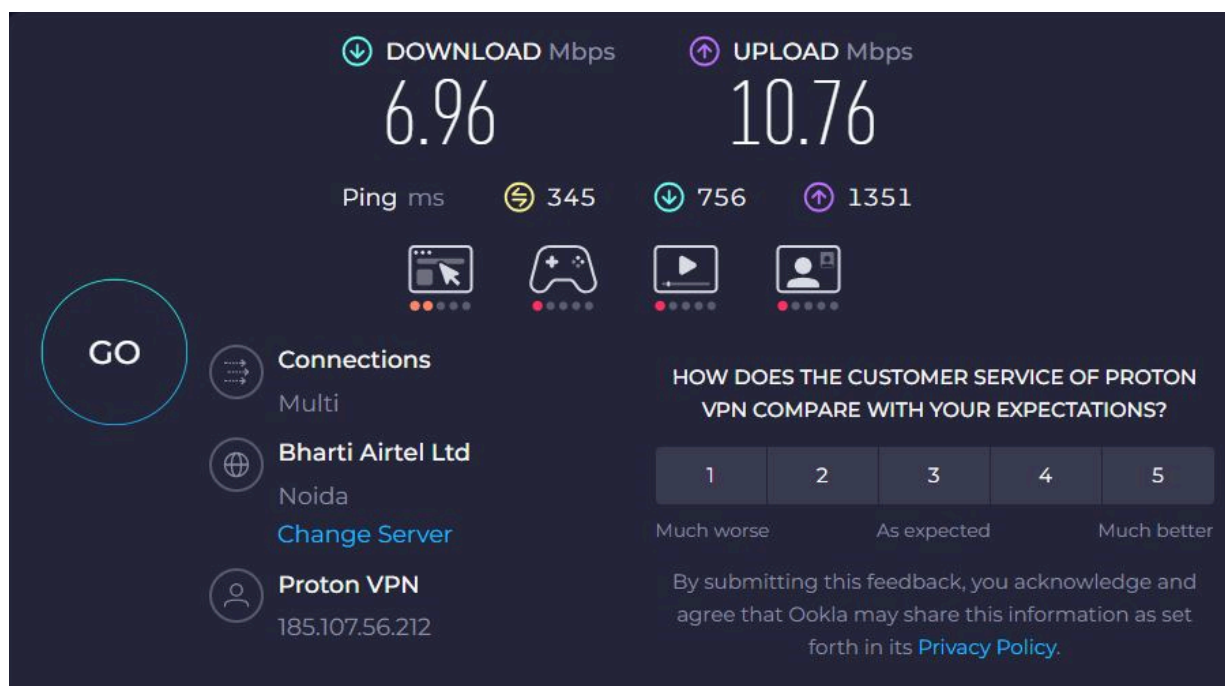
6. Disconnect VPN and Compare Browsing Speed and IP

- Disconnect from the VPN.
- Revisit <https://whatismyipaddress.com> and compare the IP.
- Optionally, run a speed test before and after (use <https://speedtest.net>) to compare performance.

Before connecting to VPN



After connecting to VPN



7. Research: VPN Encryption and Privacy Features

Encryption:

- ProtonVPN uses **AES-256 encryption**, the industry standard.
- Uses secure protocols like **OpenVPN and WireGuard**.

Privacy Features:

- **No-logs policy**: Does not store logs of user activity.
- **DNS leak protection**: Prevents DNS requests from being exposed.
- **Kill switch**: Prevents internet access if VPN drops.
- **Secure Core (ProtonVPN only)**: Routes traffic through multiple servers for added privacy (available only on paid tiers).

Submitted by :- Shivang Shukla