

Shailesh_task8

Tools used:

ProtonVPN (Free Tier).

1. Choose a reputable free VPN service and sign up.

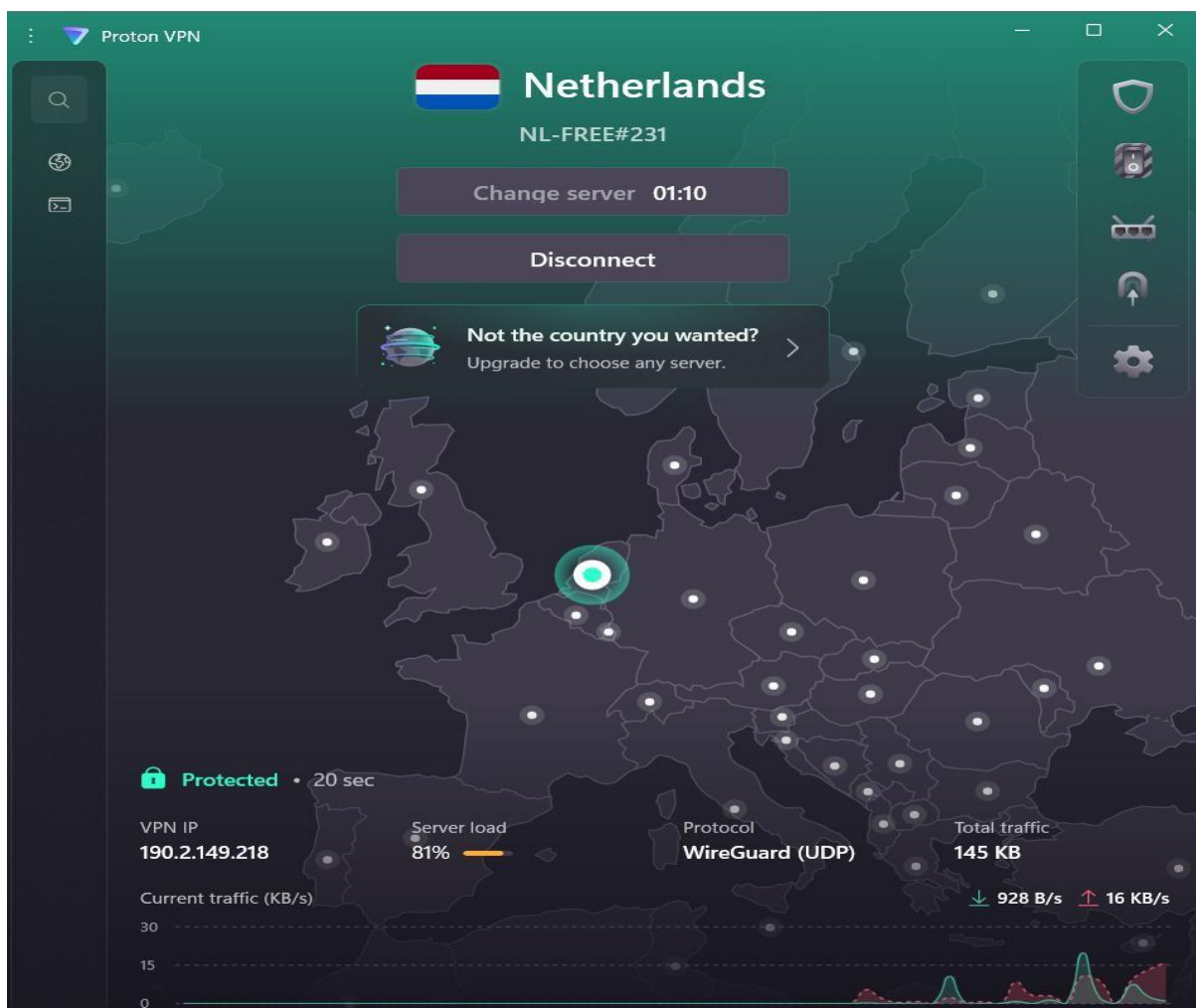
I chose ProtonVPN due to its good reputation for privacy and strong encryption.

2. Download and install the VPN client.

Downloaded the VPN client for windows from <https://protonvpn.com>, and installed the software successfully.

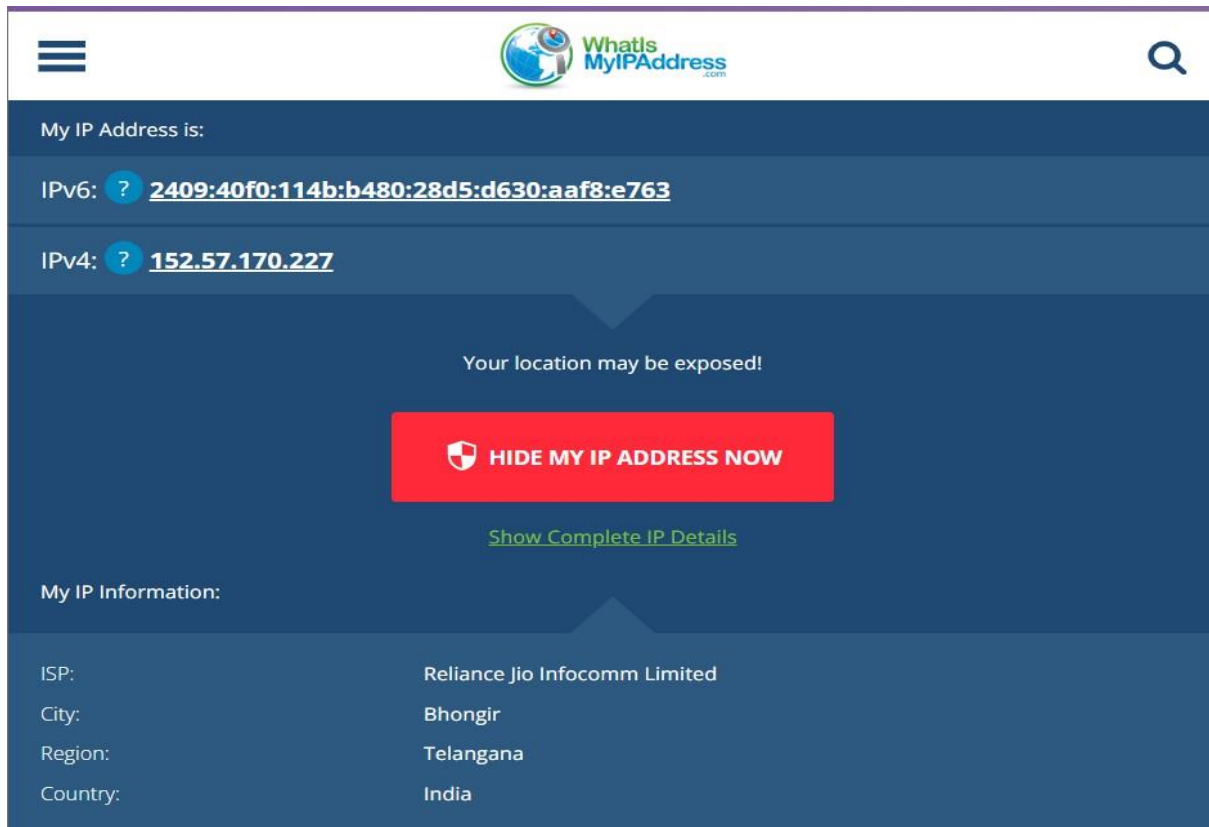
3. Connect to a VPN server (choose closest or any location).

- Launched the VPN client.
- Logged into ProtonVPN account.
- Connected to the Fastest server (Netherlands).



4. Verify your IP address has changed (use whatismyipaddress.com).

- Visited whatismyipaddress.com before and after connecting to the VPN.
- We can see the change in Ip address and geolocation to different country.



The screenshot shows the homepage of whatismyipaddress.com. The header includes a menu icon, the site logo, and a search icon. The main content area displays the user's IP address information. A message states "Your location may be exposed!" with a red button labeled "HIDE MY IP ADDRESS NOW" and a link to "Show Complete IP Details". Below this, the "My IP Information" section lists the ISP as Reliance Jio Infocomm Limited, City as Bhongir, Region as Telangana, and Country as India.

My IP Address is:

IPv6: ? **2409:40f0:114b:b480:28d5:d630:aaf8:e763**

IPv4: ? **152.57.170.227**

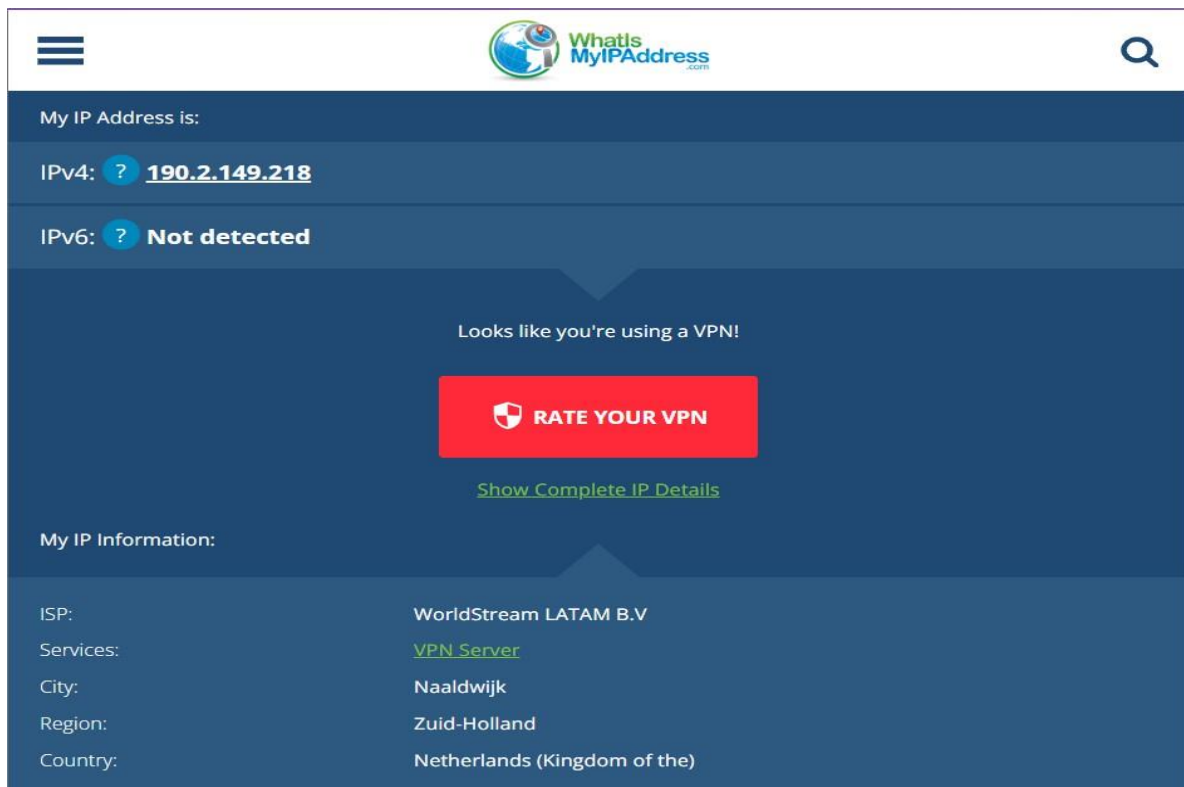
Your location may be exposed!

HIDE MY IP ADDRESS NOW

[Show Complete IP Details](#)

My IP Information:

ISP:	Reliance Jio Infocomm Limited
City:	Bhongir
Region:	Telangana
Country:	India



The screenshot shows the homepage of whatismyipaddress.com after connecting to a VPN. The header is identical to the previous screenshot. The main content area displays the user's IP address information. A message states "Looks like you're using a VPN!" with a red button labeled "RATE YOUR VPN" and a link to "Show Complete IP Details". Below this, the "My IP Information" section lists the ISP as WorldStream LATAM B.V, Services as VPN Server, City as Naaldwijk, Region as Zuid-Holland, and Country as Netherlands (Kingdom of the).

My IP Address is:

IPv4: ? **190.2.149.218**

IPv6: ? **Not detected**

Looks like you're using a VPN!

RATE YOUR VPN

[Show Complete IP Details](#)

My IP Information:

ISP:	WorldStream LATAM B.V
Services:	VPN Server
City:	Naaldwijk
Region:	Zuid-Holland
Country:	Netherlands (Kingdom of the)

5. Browse a website to confirm traffic is encrypted.

- Browsed the websites like Google and YouTube.
- The traffic remained smooth and encrypted using HTTPS.

6. Disconnect VPN and compare browsing speed and IP.

- Disconnected the VPN, and revisited the same sites.
- Browsing speed slightly increased, but the IP address and location returned to normal.

7. Research VPN encryption and privacy features.

- The ProtonVPN uses AES-256 encryption, OpenVPN and IKEv2/IPSec protocols.
- It follows strict no-logs policy.
- It has DNS leak protection included.

8. Write a summary on VPN benefits and limitations.

Benefits:

- Hides the real IP address and location.
- Secures traffic on public Wi-Fi.
- Prevents ISP tracking.
- Helps bypass geo-restrictions.

Limitations:

- Free VPNs may have speed or server limitations.
- Some websites block VPN traffic.
- VPN does not make you 100% anonymous, it may need some combined tools like Tor).

Outcome:

Successfully connected to a free VPN (ProtonVPN), verified IP address change, and confirmed encrypted browsing traffic. Gained hands-on experience with VPN setup and understood how VPNs enhance online privacy and security.