

Working with VPNs:

Objective:

- Understand the role of VPNs in protecting privacy and secure communication.

Environment & Prerequisites:

- Free VPN client (ProtonVPN free tier)

Observations:

- **1.VPN Service Chosen**

- **ProtonVPN (Free Tier)**

- **2. Installation**

- Signed up at protonvpn.com
- Downloaded and installed the ProtonVPN client for Ubuntu.

- **3. Connection**

- Connected to a VPN server located in Japan .
- The connection was successful and stable.

- **4. IP Address Verification**

- Before VPN: IP address was 103.169.xxx.xxx
- After VPN: IP address changed to 138.199.21.212(VPN-assigned IP)

- Verified using whatismyipaddress.com

• 5. Traffic Encryption Check

- Browsed websites like <https://example.com> and confirmed HTTPS encryption.
- No DNS leaks detected.

• 6. Speed Comparison

- **With VPN:** Slightly slower browsing speed due to encryption overhead.
- **Without VPN:** Faster, but less secure.


Benefits

- Masks IP address and location.
- Encrypts internet traffic for secure browsing.
- Protects against ISP tracking and surveillance.
- Useful on public Wi-Fi networks.

Limitations

- May reduce internet speed.
- Free VPNs may have limited server options and bandwidth.
- Cannot guarantee complete anonymity.
- Some websites may block VPN traffic.

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 WhatIsMyIP.com ⌵

What Is My IP?

My IPv4: [103.169.10.10](#) ⓘ

My IPv6: Not Detected ⓘ

MY IP LOCATION INFORMATION

City: [Bengaluru](#) ⓘ

State/Region: [Karnataka](#) ⓘ

Postal Code: [560001](#) ⓘ

Country: [India](#) ⓘ

ISP: [Futurenet Telecom Private Limited](#) ⓘ

ASN: [AS10026](#) ⓘ

Time Zone: [UTC +05:30](#) ⓘ

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My IPv4: [138.199.21.212](#) ⓘ

My IPv6: Not Detected ⓘ

MY IP LOCATION INFORMATION

City: [Tokyo](#) ⓘ

State/Region: [Tokyo](#) ⓘ

Postal Code: [100-0000](#) ⓘ

Country: [Japan](#) ⓘ

ISP: [DataCamp Limited](#) ⓘ

ASN: [212238](#) ⓘ

Time Zone: [UTC +09:00](#) ⓘ

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