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 was103.169.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.

WhatIsMyIP.com ≡

What Is My IP?

My IPv4: 103.169█████ 📋

My IPv6: Not Detected ⓘ

MY IP LOCATION INFORMATION

City: Bengaluru 📋

State/Region: Karnataka 📋

Postal Code:█████ 📋

Country: India 📋

ISP: Futurenet Telecom Private Limited 📋

ASN:█████ 📋

Time Zone: UTC +05:30 📋

WhatIsMyIP.com ≡

What Is My IP?

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 📋