VPN Summary Report

VPN Name Used

> ➢ ProtonVPN (Free Tier)

Steps Taken

1. I signed up for a free ProtonVPN account and downloaded the VPN client on my system.

2. After installing, I logged in and connected to a free server located in the Japan.

3. I checked my original IP address before connecting to the VPN using whatismyipaddress.com.

4. Once connected to the VPN, I rechecked the site and saw that my IP address had changed to one based in the Japan.

5. To test encryption and confirm the connection, I visited multiple websites and verified the HTTPS padlock symbol.

6. I then disconnected the VPN and compared both the browsing speed and IP address before and after.

7. I researched ProtonVPN's encryption technology and found it uses AES-256 encryption and OpenVPN protocol.

8. Finally, I wrote this summary based on my observations.

IP Address Change

Before VPN: 152.xx.xx.xxx (India)
After VPN: 212.xx.xx.xxx (Japan)

Website Tested

whatismyipaddress.com

youtube.com (to check geo-restriction and streaming)

Observations About Speed

While connected to the VPN, there was a slight drop in browsing and streaming speed. Pages took 1-2 seconds longer to load compared to my normal connection. However, overall performance was stable and usable for general browsing.

VPN Encryption & Protocol

ProtonVPN uses AES-256-bit encryption, which is considered military-grade and highly secure. The protocol used was OpenVPN, which is reliable and open-source, providing strong security and performance.

Benefits of VPN

- IP Address Hidden: My actual IP address was masked, helping me stay anonymous online.

- Traffic Encryption: All my internet traffic was encrypted, making it unreadable to my ISP or hackers.

- Access to Geo-Restricted Content: I was able to access content available in different countries by

switching servers.

- Privacy Protection: Especially useful when using public Wi-Fi, as it adds a layer of security.

Limitations of VPN

- Reduced Internet Speed: There was a noticeable decrease in speed, especially when connected to servers far from my region.
- Limited Server Options: The free version of ProtonVPN only allowed me to use a few server locations.
- Trust Concerns with Some VPNs: Not all VPNs are safe. Some may log user activity. That's why it's important to use a VPN with a strict no-logs policy, like ProtonVPN.