# Task 8: Identify and Remove Suspicious Browser Extensions

**Objective**

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

**Tools Used**

Free VPN client: ProtonVPN (Free Tier) / Windscribe (Free)

**Steps to Set Up VPN**

1. Select a VPN Service

Chose ProtonVPN (Free Tier) and created a user account.

2. Download & Install VPN Client

Downloaded the ProtonVPN app and installed it on the system.

3. Connect to a VPN Server

Connected to a VPN server in a nearby location for better speed and latency.

4. Verify IP Address Change

Before VPN: Checked IP address using whatismyipaddress.com.

After VPN: Verified that the IP address and location changed.

5. Browse a Website to Confirm Encryption

Opened multiple websites (e.g., google.com) to confirm secure connection (HTTPS active).

6. Disconnect VPN & Compare

Disconnected from the VPN and observed changes in IP and browsing speed.

7. Research VPN Encryption & Privacy

VPN uses encryption protocols (e.g., OpenVPN, WireGuard) to secure traffic.

Hides your actual IP and prevents ISP tracking.

8. Summary: VPN Benefits & Limitations

Benefits:

- Protects privacy.

- Secures communication on public Wi-Fi.

- Allows bypassing geo-restrictions.

Limitations:

- Free VPNs may have data caps and limited server options.

- May reduce browsing speed.

**VPN Connection Status Screenshot**