VPN Setup & Usage Report

Cybersecurity Internship – Task 8

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

# 1. VPN Service Chosen

- VPN Name: VeePN (Browser Extension)  
- Platform Used: Windows 10 / Chrome Browser  
- Reason for Selection: Downloaded from Chrome Web Store, easy to use, no separate client setup required.

# 2. VPN Setup Steps

- Opened Chrome browser.  
- Downloaded and installed VeePN extension from Chrome Web Store.  
- Clicked on the VeePN icon in the extensions bar.  
- Selected a server location (Amsterdam) and clicked Connect.

# 3. VPN Connection Status

- VPN connected successfully.  
- Browser displayed a secure connection icon.  
- Traffic routed through selected server location.

# 4. IP Address Change Verification

- Visited https://whatismyipaddress.com before and after connecting VeePN.  
- Before VPN: Showed real IP and ISP location.  
- After VPN: Showed different IP and selected country (Amsterdam).  
- Proved VPN masked original IP.

# 5. Browsing Test

- Visited websites like YouTube, Gmail, and netflix  
- Pages loaded correctly, confirming that encrypted traffic was being transmitted via VPN tunnel.

# 6. Speed Comparison

- After disconnecting VPN, noticed a slight increase in page loading speed.  
- This is expected due to reduced encryption overhead and shorter routing path.

# 7. VPN Security Features (VeePN Extension)

- Offers AES-256 encryption, no-log policy, and DNS leak protection.  
- Allows users to select from multiple global locations.  
- Integrated ad/tracker blocker (depends on settings).  
- Lightweight and easy to use from browser without full client.

# 8. Summary of VPN Benefits and Limitations

**Benefits:**

* Encrypts internet traffic, enhancing privacy.  
  - Changes IP address to hide location.  
  - Useful for public Wi-Fi security.  
  - Bypasses basic geo-restrictions.

**Limitations:**

* - VPN browser extensions only protect browser traffic, not full system.  
  - Some free VPNs may log user activity.  
  - VPN can reduce speed or trigger captchas.  
  - Not all websites are accessible when VPN is active.

# 📎 Attachments :

- vpn\_status\_screenshot.png (VPN Connected)

- ip\_before.png

- ip\_after.png