Task 8: VPN Configuration and IP Address Verification Report

Objective

The main goal of this task was to understand how a Virtual Private Network (VPN) works by connecting to a VPN server using ProtonVPN and observing the changes in the public IP address. This helps to demonstrate how VPNs protect user privacy and hide real IP locations.

Step 1: Checking the Original IP Address

Tool Used: WhatIsMyIPAddress.com
Observed IP Address: 103.42.196.64
ISP: Kottayam Cable Channel Distributors Pvt Ltd
Location: Tirur, Kerala, India

This shows the real IP address and location provided by the local Internet Service Provider (ISP).

Step 2: Connecting to a VPN

VPN Service Used: ProtonVPN
VPN Type: Fastest Free Server (Auto-selected)
Status Before Connection: Unprotected
Action Taken: Clicked on Connect in the ProtonVPN interface.
Purpose: To encrypt the network traffic and hide the real IP address.

The ProtonVPN dashboard displays the world map and the user's current location before connecting.

Step 3: Verifying the IP Address After Connecting to VPN

Tool Used Again: WhatIsMyIPAddress.com
New IP Address: 149.88.27.129
ISP: DataCamp Limited (VPN Server)
Location: Zurich, Switzerland

This confirms that the VPN successfully masked the real IP and assigned a virtual IP from a different country.

Step 4: Analysis

After connecting to ProtonVPN:
- The IP address changed from 103.42.196.64 (India) to 149.88.27.129 (Switzerland).
- The location information on the IP lookup site no longer showed the real region.
- The new ISP is listed as a VPN provider, which indicates a secure, tunneled connection.

This demonstrates how VPNs hide the user's original IP address and encrypt internet traffic, ensuring anonymity and privacy.

Step 5: Conclusion

Using ProtonVPN successfully hid the real IP address and replaced it with a virtual one from another country. This shows that VPNs are an effective tool for maintaining privacy and security online, especially when browsing public networks or accessing geo-restricted content.

Attachments

1. Screenshot 1 – Original IP address before VPN connection.
2. Screenshot 2 – New IP address after VPN connection.
3. Screenshot 3 – ProtonVPN interface before connecting.