

Task- 8: Report – Working and Understanding VPN

=> Objective:

To understand how a VPN works by testing a browser-based VPN and verifying IP address changes.

=> Tool Used:

Windscribe VPN – Firefox Browser Extension

=> Steps Taken:

1. Opened Firefox browser.
2. Installed the Windscribe extension from Mozilla Add-ons.
3. Created a free Windscribe account and logged in.
4. Selected a free VPN server (e.g., United States) and clicked the power button to connect.
5. Visited <https://whatismyipaddress.com> — IP address was successfully changed.
6. Verified that only Firefox traffic was protected by checking Chrome separately (IP unchanged).
7. Disconnected VPN and confirmed that IP returned to normal.

=> VPN Behavior Observed:

- VPN worked correctly in Firefox (browser-level protection).
- IP remained unchanged in Chrome (as expected since extension only protects Firefox).
- VPN successfully encrypted browsing within Firefox.

=> What I Learned:

- Browser VPN extensions protect only that browser.
- System-wide VPNs require installing full desktop apps.
- VPNs help mask IP, bypass restrictions, and increase privacy.
- Free VPNs have limited servers and bandwidth.

=> Conclusion:

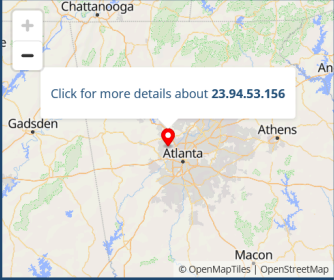
Successfully tested VPN using Firefox without installing desktop software. The IP was masked in Firefox, confirming that Windscribe VPN extension works as expected for browser-level encryption.

=> Screenshot:

Before VPN :

MY IP	IP LOOKUP	HIDE MY IP	VPNS ▾
My IP Address is:			
IPv6: ? 2409:8058:1001:1001:1001:1001:1001:1001			
IPv4: ? 1. 94			
My IP Information:		Your location may be exposed!	
ISP: Vodafone Idea Ltd City: Chennai Region: Tamil Nadu Country: India		<div>HIDE MY IP ADDRESS NOW</div> Show Complete IP Details	

After VPN :

MY IP	IP LOOKUP	HIDE MY IP	VPNS ▾	TOOLS ▾	LEARN ▾
My IP Address is:					
IPv4: ? 23.94.53.156					
IPv6: ? Not detected					
My IP Information:		Looks like you're using a VPN!			
ISP: Windscribe Limited Services: VPN Server City: Marietta Region: Georgia		<div>RATE YOUR VPN</div> Show Complete IP Details		Location not accurate? Update My IP Location	