

Working and Understanding VPN (Without Installation)

Platform: Windows 10/11

Tool Used: Browsec VPN Chrome Extension

Objective:

To understand how a VPN works and how it protects privacy and enables secure communication — without installing any separate software.

Tools Used:

- **Browser:** Google Chrome
 - **Extension:** Browsec VPN – Chrome Extension
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Steps Followed:

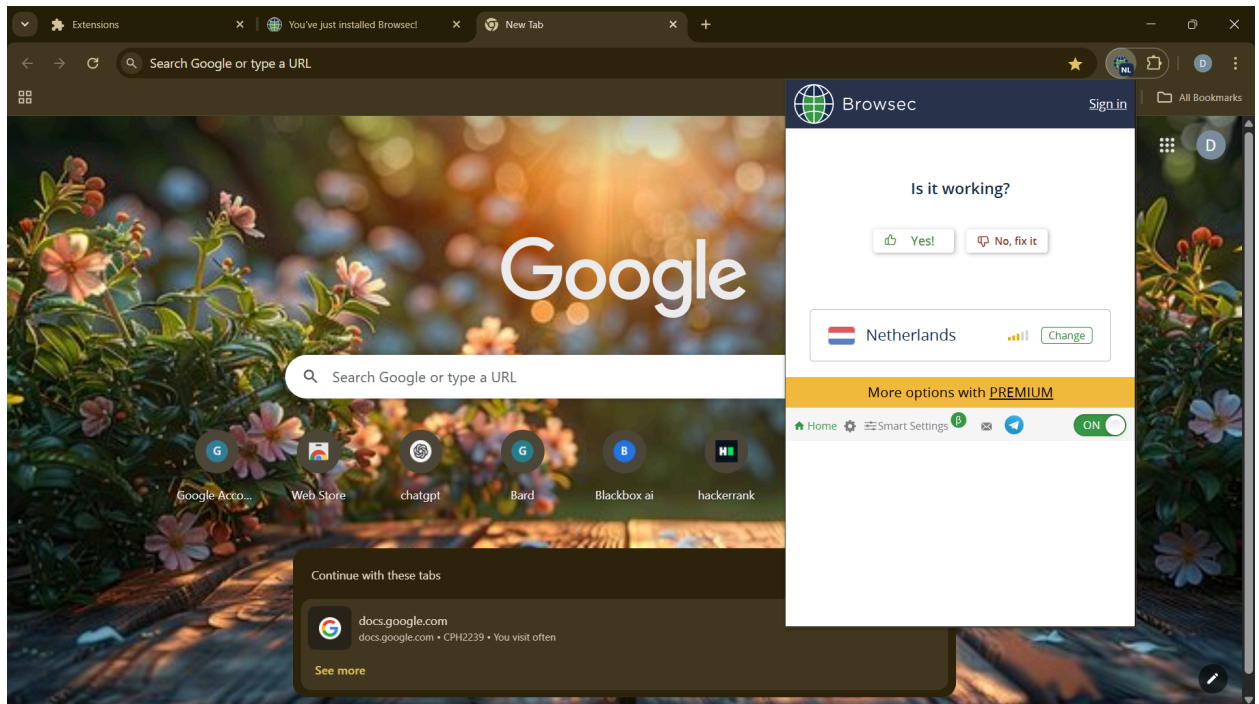
1. **Installed Browsec VPN Extension** via Chrome Web Store (no software installed).
 2. Clicked the **puzzle icon** to locate the extension and **pinned it to the toolbar**.
 3. Opened the Browsec extension → Clicked “**Accept**” on Terms of Service.
 4. Turned **VPN ON** and selected a **free server (Netherlands)**.
 5. Opened <https://whatismyipaddress.com> — Verified **IP address changed**.
 6. Browsed <https://wikipedia.org> — confirmed HTTPS encryption was active.
 7. Disconnected VPN → Refreshed IP check site → Saw **original IP restored**.
 8. Compared browsing speed and location details before & after VPN use.
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Key Observations:

Condition	Result
VPN Activated	IP address changed
Secure Traffic	HTTPS connection used
Software Installed	None
VPN Disconnected	IP returned to original

Screenshot Proofs:

- Screenshot 1: Browsec VPN **enabled**, IP changed



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IP Address Details

IPv4: 51.159.226.162

IPv6: Not Detected

IP LOCATION: Amsterdam, Noord-Holland (NL) [\[Details\]](#)

BROWSER: Chrome 137.0.0.0 [\[User Agent\]](#)

ISP: Scaleway

SCREEN SIZE: 1372px X 772px

PROXY: Not Detected.

JAVASCRIPT: Enabled

PLATFORM: Windows 10


COOKIE: Enabled

[Show more IP details](#)

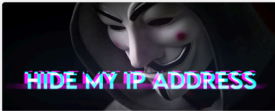
[view map](#)

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Would you like to help us improve ip-to-location data by providing a [geofeed](#) or custom feedback?



IP Address Articles



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[How to hide my IP address?](#)

There are several ways to hide your

- Screenshot 2: Browsec **disabled**, original IP restored

Check your IP address | MyIP.com | IP Address Lookup | Geolocation | ipchicken.com | dnsleaktest.com | www.iplocation.net | iplocation.net

IP Address Details

IPv4: 61.1.180.245

IPv6: Not Detected

IP LOCATION: Satyamangalam, Tamil Nadu (IN) [\[Details\]](#)

BROWSER: Chrome 137.0.0.0 [\[User Agent\]](#)

ISP: Bharat Sanchar Nigam Limited

SCREEN SIZE: 1372px X 772px

PROXY: Not Detected.

JAVASCRIPT: Enabled

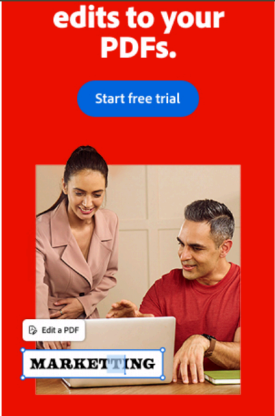
PLATFORM: Windows 10

COOKIE: Enabled

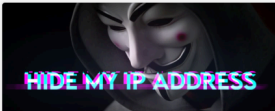
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Summary:

- **VPN (Virtual Private Network)** creates a secure tunnel that encrypts browser traffic and hides user location.
- **Benefits:** Masks IP, encrypts traffic, protects against tracking.
- **Limitations:** Browser extensions only encrypt browser data (not full device).
- **Protocols Used:** HTTPS proxy (Browsec); full VPNs may use OpenVPN, WireGuard.