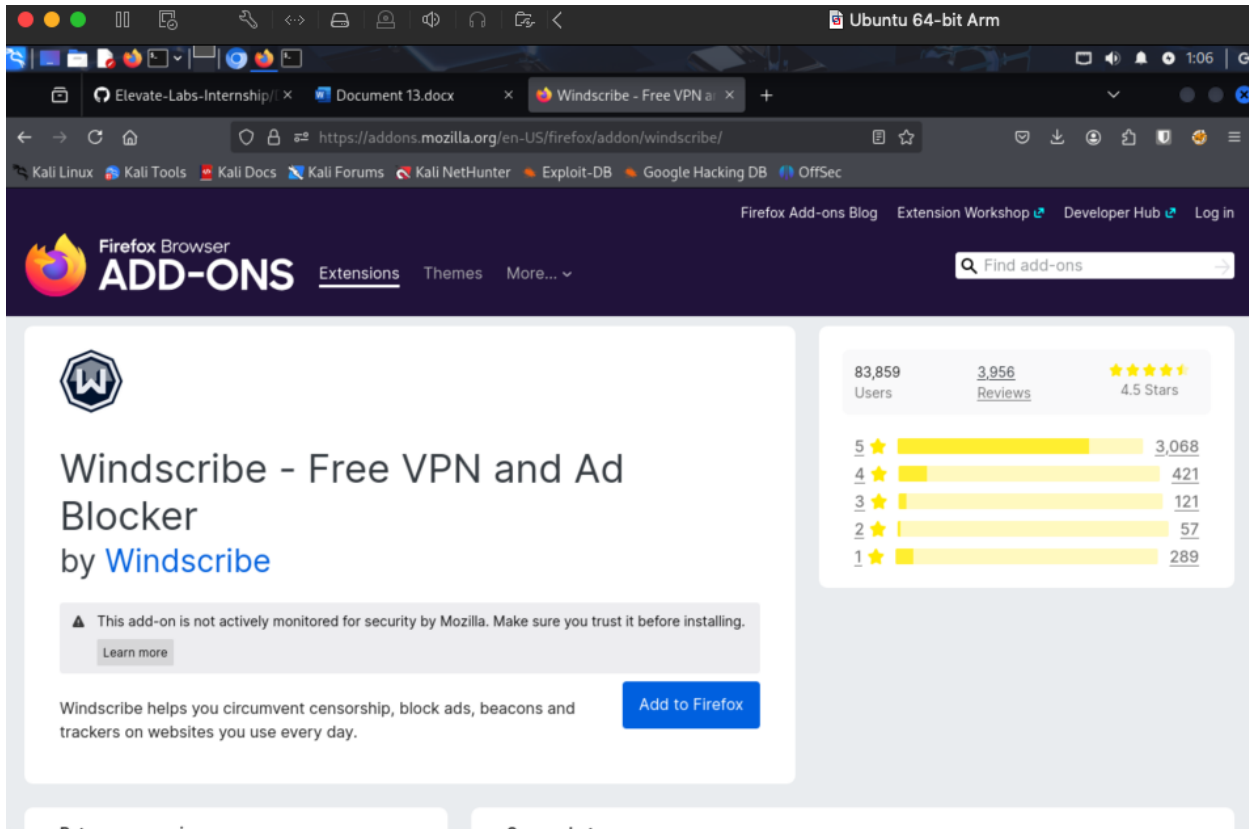Task8

In this task we are going to understand how a VPN works and what its benefits are but first lets install a free VPN service, I will use windscribe for demonstration purposes, but you can any other as well like Proton VPN which is really famous:fig1

Since Windscribe supports a browser extension lets install that by clicking add to firefox and while it is downloading let's check our IP first: fig2
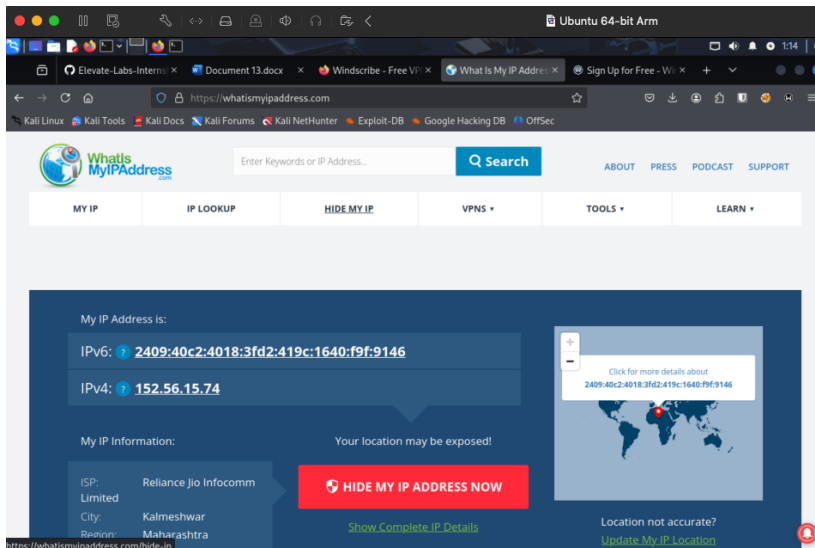
fig2

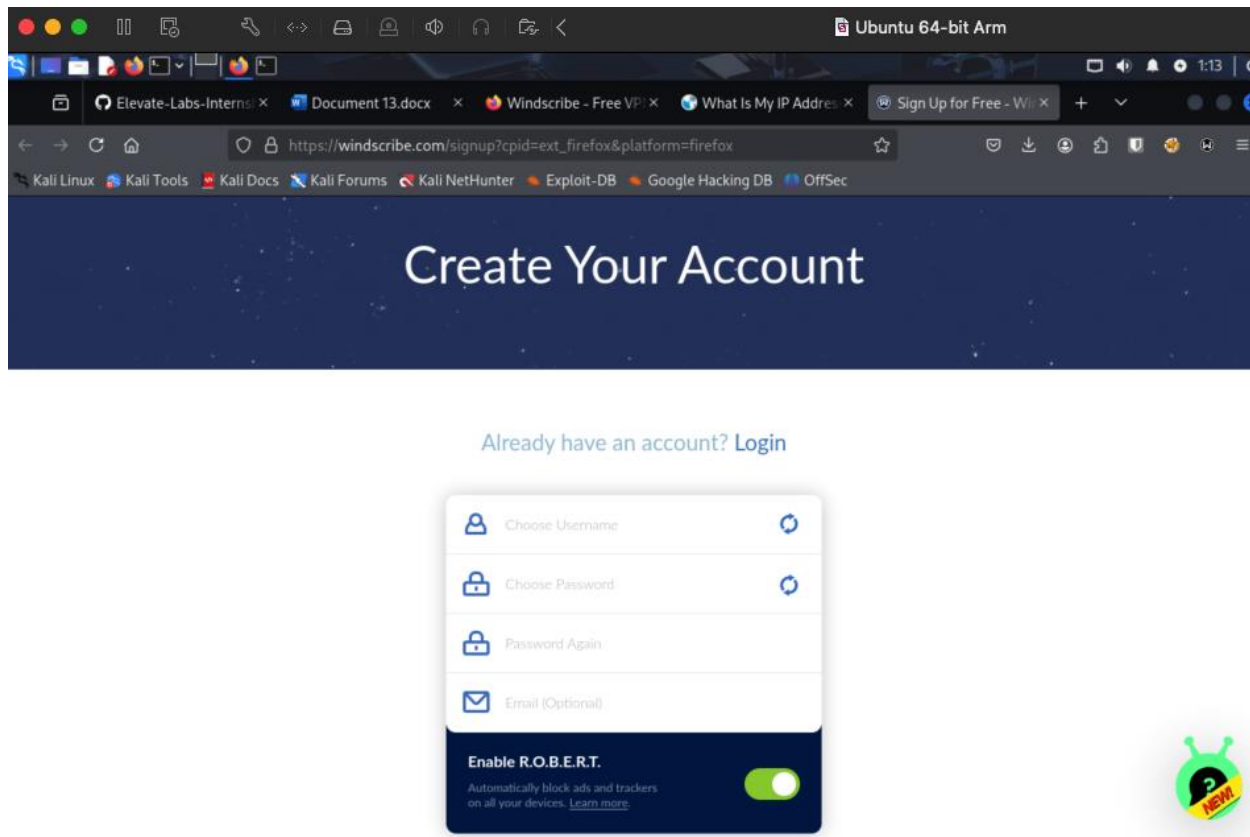Now lets sign up to access the free tier it's really simple just follow the steps: fig3

Fig3

Now after creating the account just log in using the account and turn on the vpn: fig4

fig4

Now let's check our IP again using the website" whatismyipaddress.com " fig5
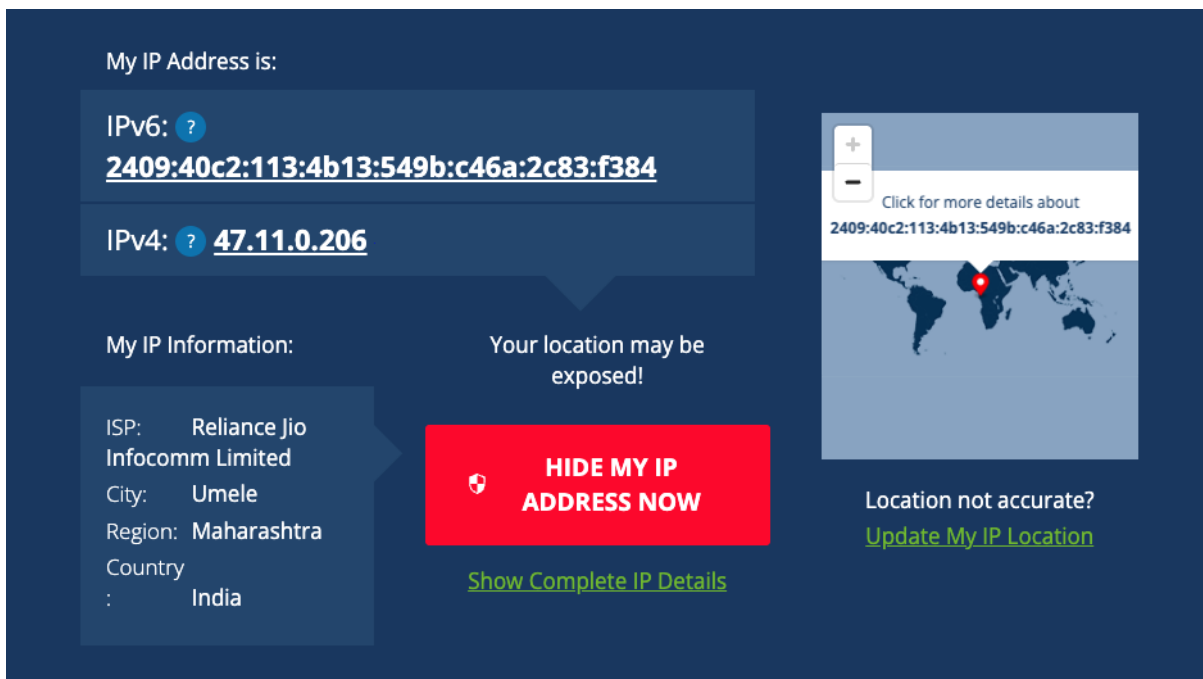

Fig5

Now let's compare speeds with VPN on adn VPN off
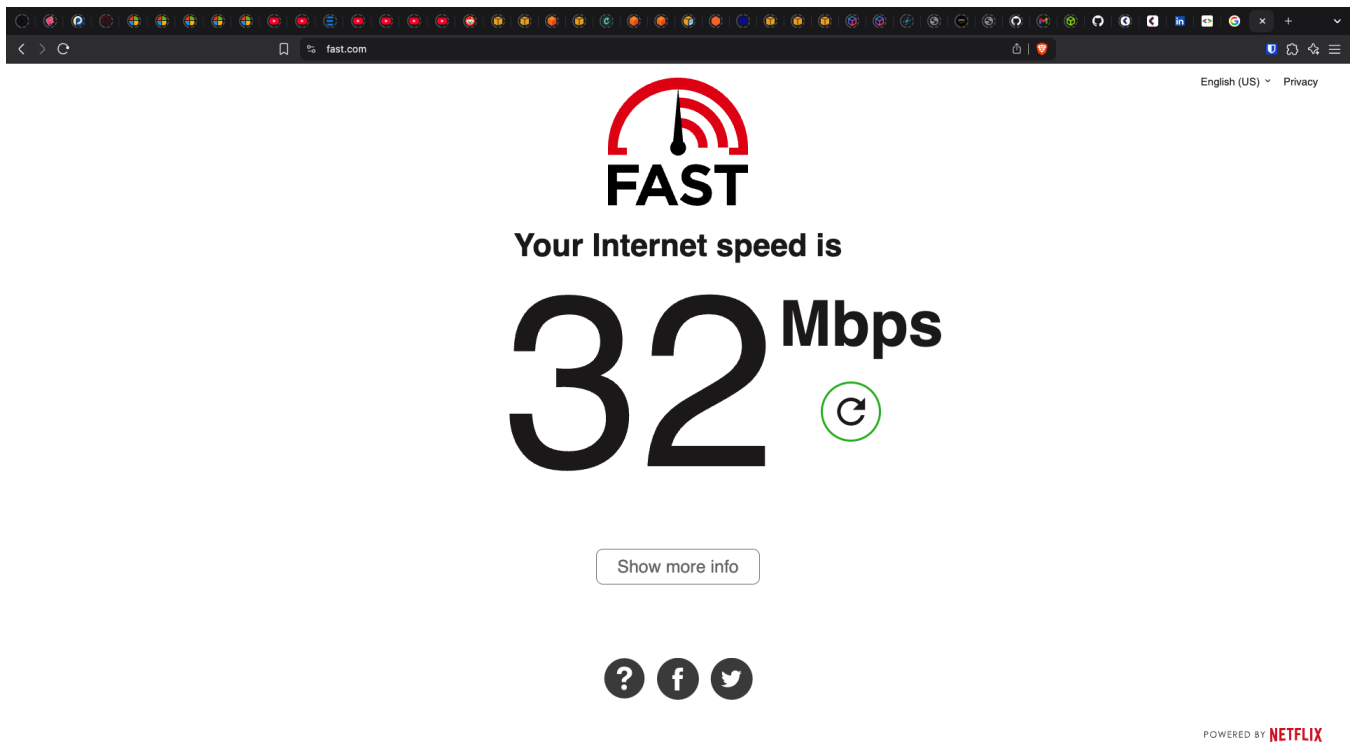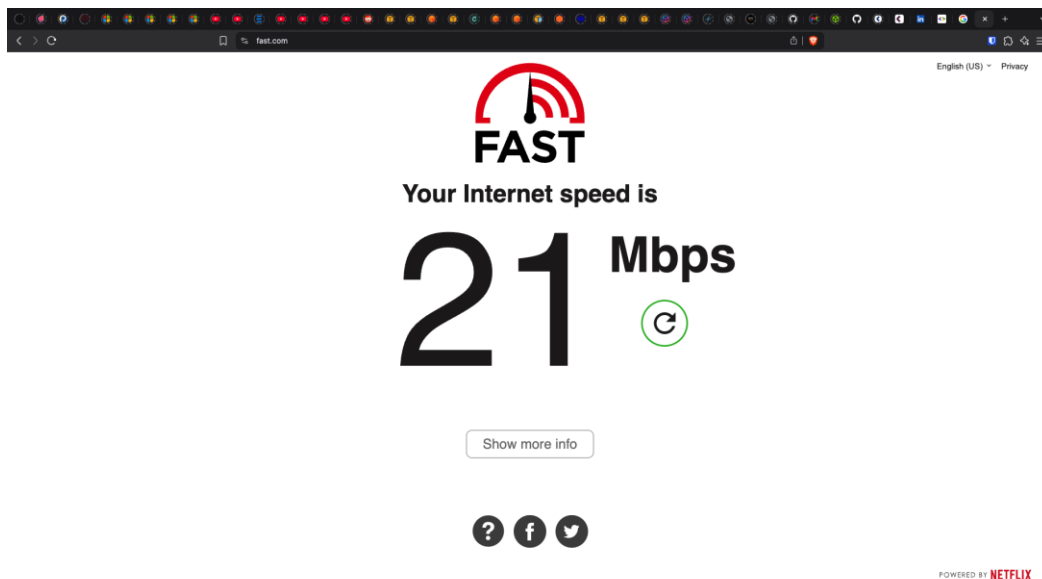
- VPN OFF: fig6

Fig6

- And VPN ON: fig7

Fig7

VPNs main benefits are:

- IP Masking : which means it hides your real IP
- Data Encryption: encrypts your data in a secure format

- Anonymity: keeps your identity and location hidden
- Bypass location specific bloacks: you can access location exclusive contest

VPNs main limitation:

- Slower speeds
- No total anonymity: your activity is still visible to your ISP
- Blocked by some sites: some sites block VPN users
- Too much reliant on Service provider

All in all VPN is a great security tool that can help us cybersecurity enthusiast, it is one of the best tools ever made as it helps us be is a place we are not physically present at but still get all the befits of it.

But VPN is quite expensive and does not have many great free options as the provider has to maintain physical servers in order to be able to host a service like this.