

~~Abstract~~ ROTATE IP-ADRESS

Rotate IP-Adress in Python with ProtonVPN

With IP rotation you can enhance the level of anonymity. Additionally, it is a widely used practice to automate such tasks as data scraping and web crawling.

Introduction

Objectives

Methodologies

How it's done:

We want to make use of the command-line tool from ProtonVPN, more specific we want to run the following command from the Shell in Python which which connects to a random server through VPN:

```
sudo protonvpn c -r
```

To run this command automatically from a Python program we can use the subprocess module which allows to run terminal commands. The following Python code makes a random connection to a ProtonVPN server.

Use cases:

Example 1: Random connection every hour

The following Python program connects every hour to a random VPN connection.

Example 2: Switch IP in Selenium

This example shows how you can rotate the IP-adress for a bot which is using the selenium package. The selenium package is used to automate web browser interaction from Python. The IP rotating is useful when your write a bot for a contest which you can only participate a certain amount of time with the same IP.

The following pseudo-code can give you an idea:

<https://medium.com/@privacytips/best-vpn-solutions-how-to-rotate-your-ip-for-secure-remote-admin-52318a6cc5c4>

<https://github.com/bradsec/pfsense-vpn-rotator>

Results

Discussions

Conclusion

Summary

Declarations

References

- 1.
- 2.

3.

[^3]: