

Knowledge Base

Free Internet for Iran with Microsoft Edge

Creating a SOCKS proxy using SSH on Microsoft Windows 10 and 11



Oct 27, 2022 ·  3 min read

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Windows 10 and 11 now come with built in SSH, which is enabled by default or can otherwise be easily installed. This article covers creating a proxy using SSH to open a tunnel to the open internet. Finally we will go over how to configure Microsoft Edge to use that proxy.

Part 0: Reuse existing tunnel

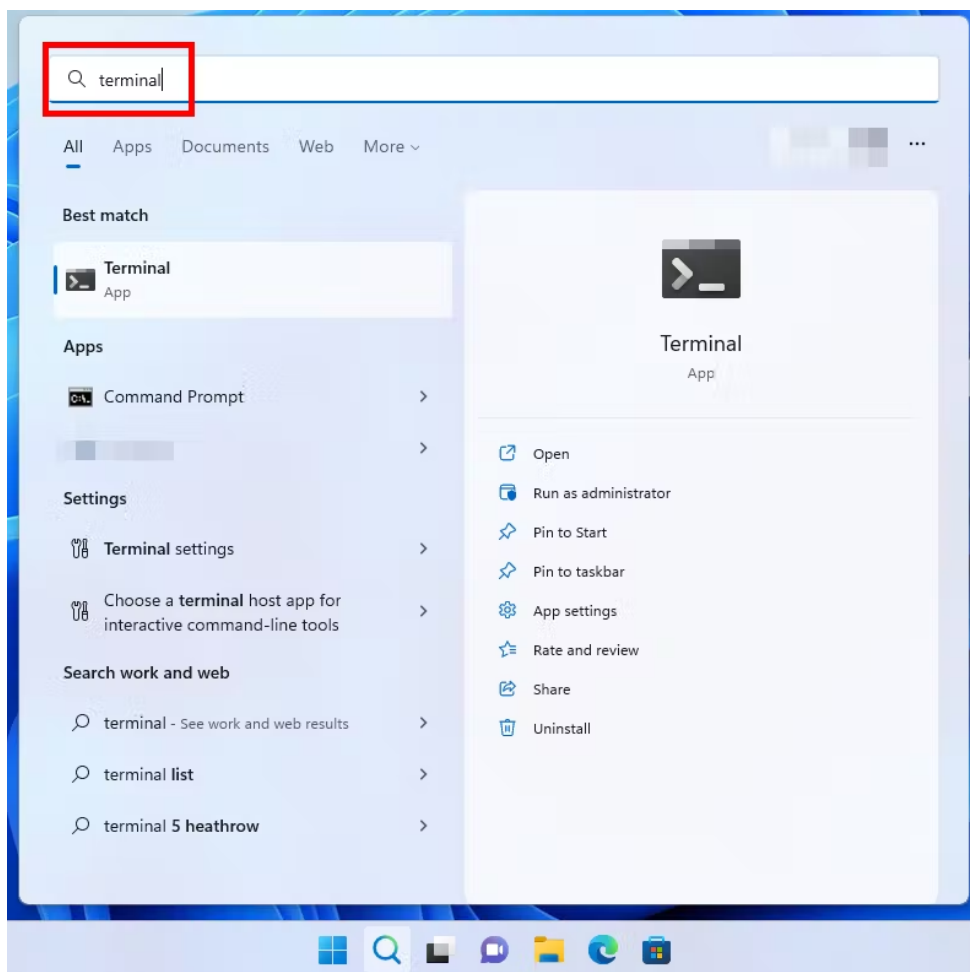
If you've already created a tunnel PuTTY, please go directly to the Part 2 of this article.

Part 1: Creating / Opening the tunnel

Optionally, but very much encouraged is to create a new local account on the computer which will be used to access the internet via the proxy.

Step 1

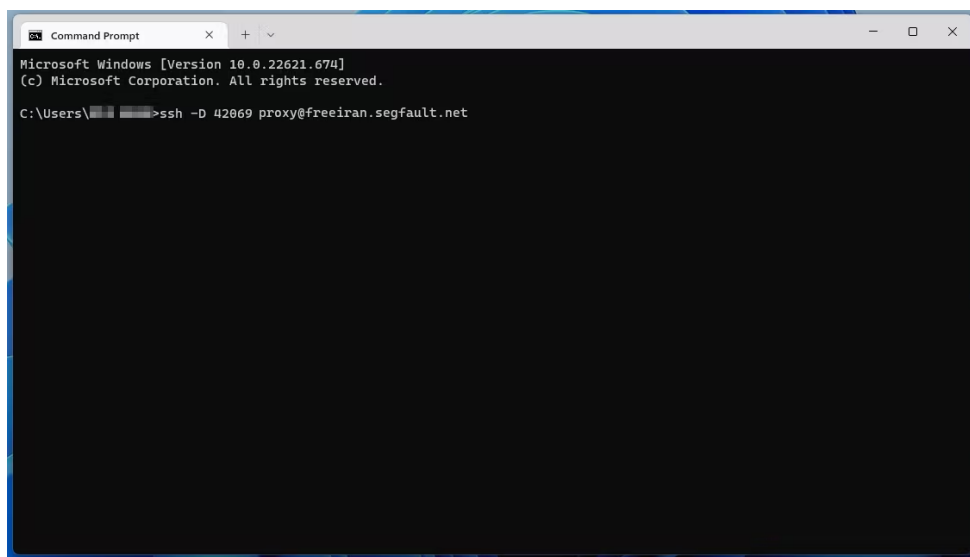
Open `Terminal` which is included in every version of Windows 10 and 11.



If you can not find Terminal search for Powershell or Command Prompt as Windows has several similar tools.

Step 2

To use Terminal you will type a command and then press enter. This command will connect to `freeiran.segfault.net` and create a SOCKS proxy for you to use. The command is `ssh -D 42069 proxy@freeiran.segfault.net`.

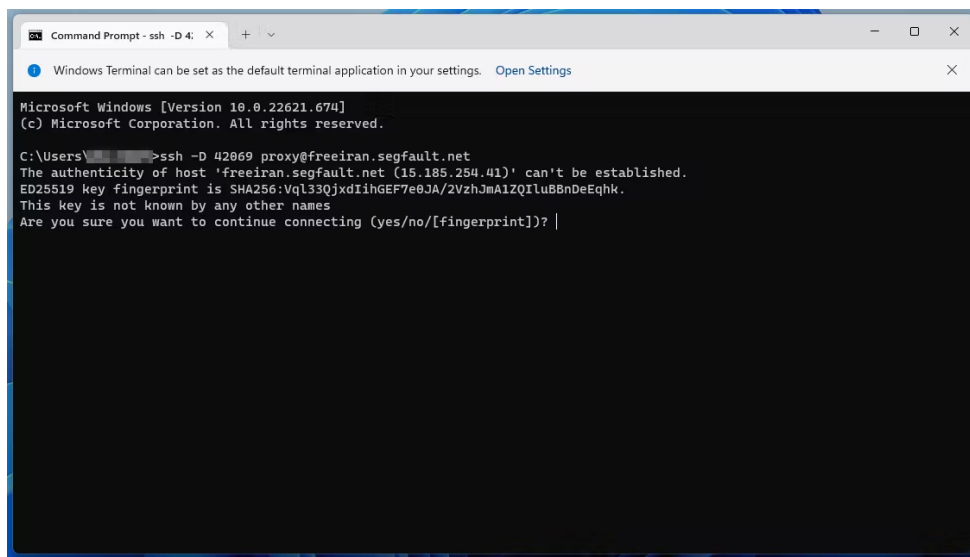


```
Microsoft Windows [Version 10.0.22621.674]
(c) Microsoft Corporation. All rights reserved.

C:\Users\██████>ssh -D 42069 proxy@freeiran.segfault.net
```

After you have typed the command out (take care it is case sensitive), press Enter on your keyboard.

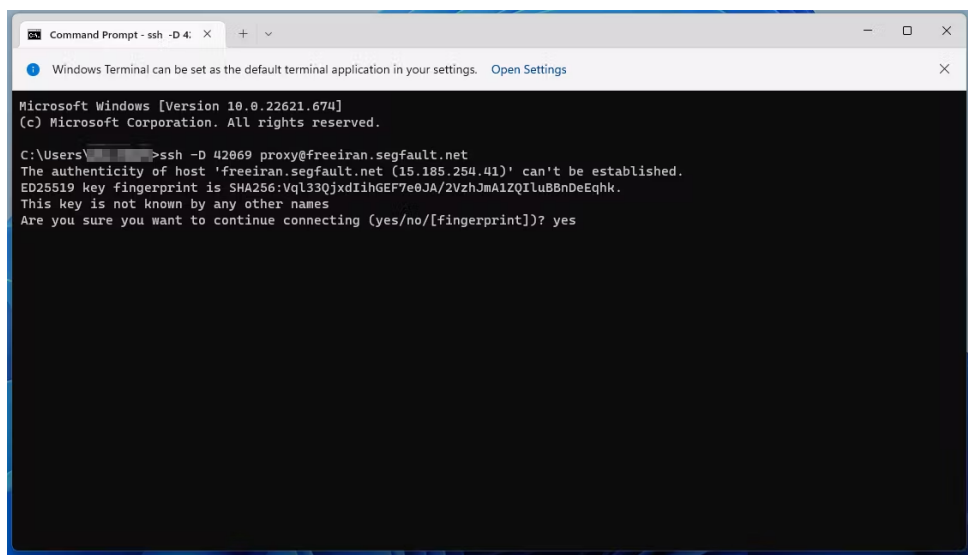
Step 2b



```
Microsoft Windows [Version 10.0.22621.674]
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C:\Users\██████>ssh -D 42069 proxy@freeiran.segfault.net
The authenticity of host 'freeiran.segfault.net (15.185.254.41)' can't be established.
ED25519 key fingerprint is SHA256:Vql33QjxdIihGEF7e0JA/2VzhJmA1ZQiluBBnDeEqhk.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? |
```

If this is the first time you are connecting to `freeiran.segfault.net` you will likely be asked to confirm the fingerprint. If this happens type `yes` and press Enter .



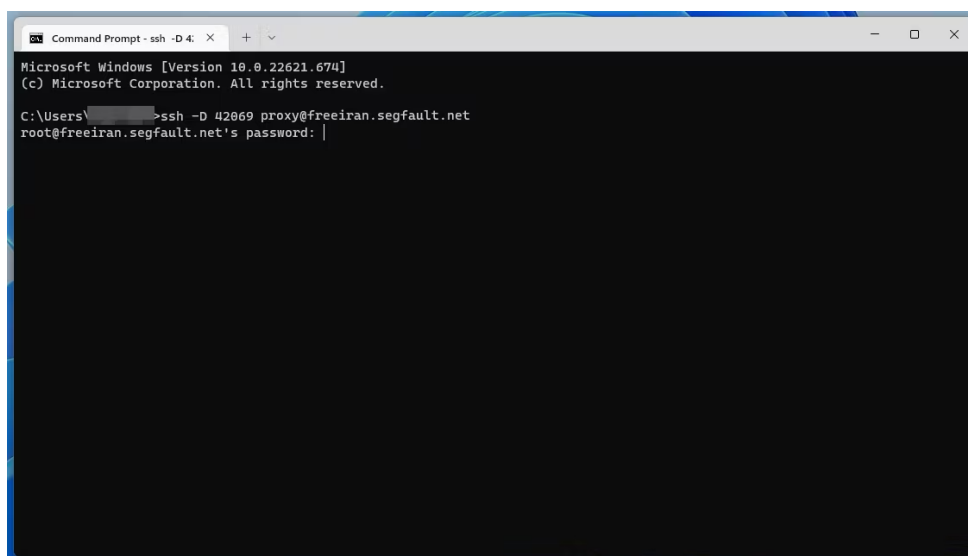
```
Command Prompt - ssh -D 4: X + -
Windows Terminal can be set as the default terminal application in your settings. Open Settings X

Microsoft Windows [Version 10.0.22621.674]
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C:\Users\>ssh -D 42069 proxy@freeiran.segfault.net
The authenticity of host 'freeiran.segfault.net (15.185.254.41)' can't be established.
ED25519 key fingerprint is SHA256:Vql33QjxdIihGEF7e0JA/2VzhJmA1ZQiluBBnDeEqhk.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
```

Step 3

Now you will be asked to enter the password. For freeiran.segfault.net this password is proxy . Type proxy and then press Enter . Be careful as it is case sensitive. You will not be able to see anything changing as you type until you have pressed Enter .



```
Command Prompt - ssh -D 4: X + -
Microsoft Windows [Version 10.0.22621.674]
(c) Microsoft Corporation. All rights reserved.

C:\Users\>ssh -D 42069 proxy@freeiran.segfault.net
root@freeiran.segfault.net's password: |
```

Step 4

You are now connected to the server, you have now successfully created a SOCKS proxy and a tunnel to the open internet.

```
Command Prompt - ssh -D 4: X + v
Windows Terminal can be set as the default terminal application in your settings. Open Settings X

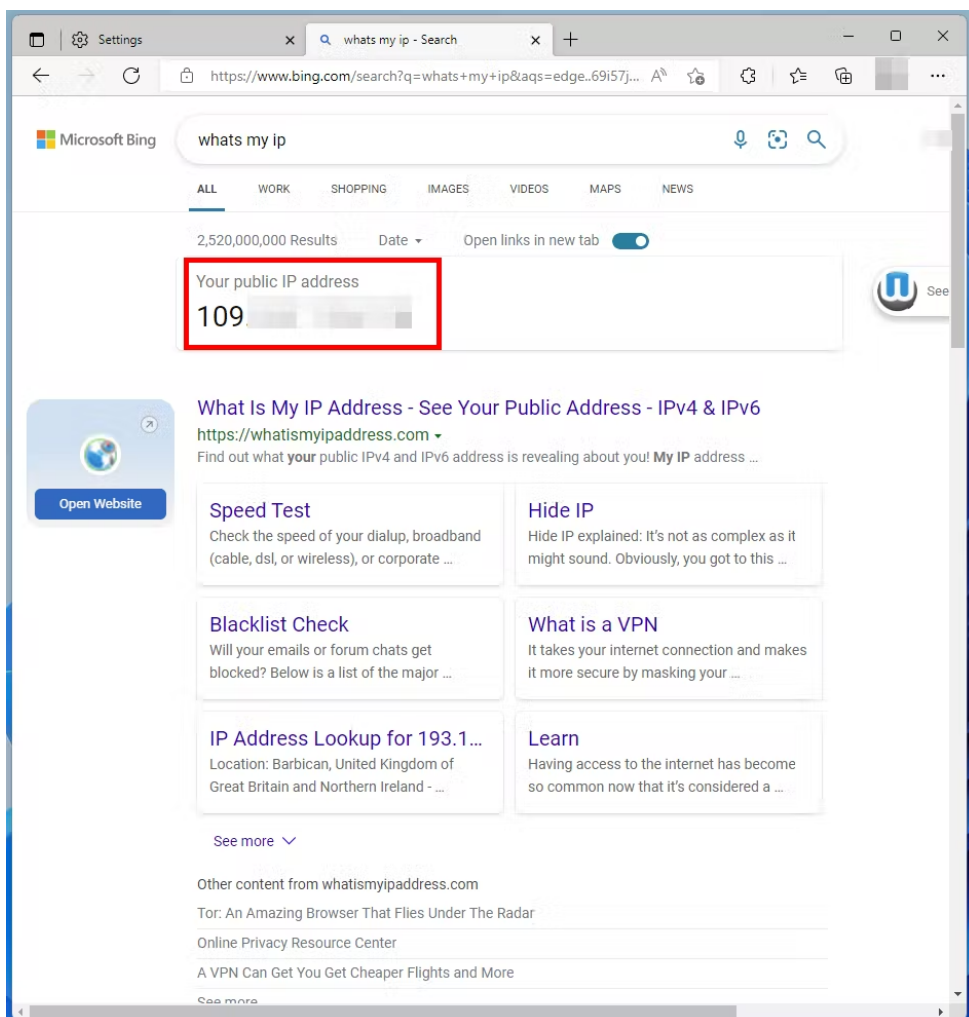
Microsoft Windows [Version 10.0.22621.674]
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C:\Users\>ssh -D 42069 proxy@freeiran.segfault.net
The authenticity of host 'freeiran.segfault.net (15.185.254.41)' can't be established.
ED25519 key fingerprint is SHA256:Vql33QjxdIihGEF7e0JA/2VzhJmAlZQiluBBnDeEqhk.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'freeiran.segfault.net' (ED25519) to the list of known hosts.
proxy@freeiran.segfault.net's password:
Sun Oct 23 10:45:07 UTC 2022
Proxy is connected.
Now configure your browser to use this proxy.
```

Part 2: Making Microsoft Edge use the tunnel

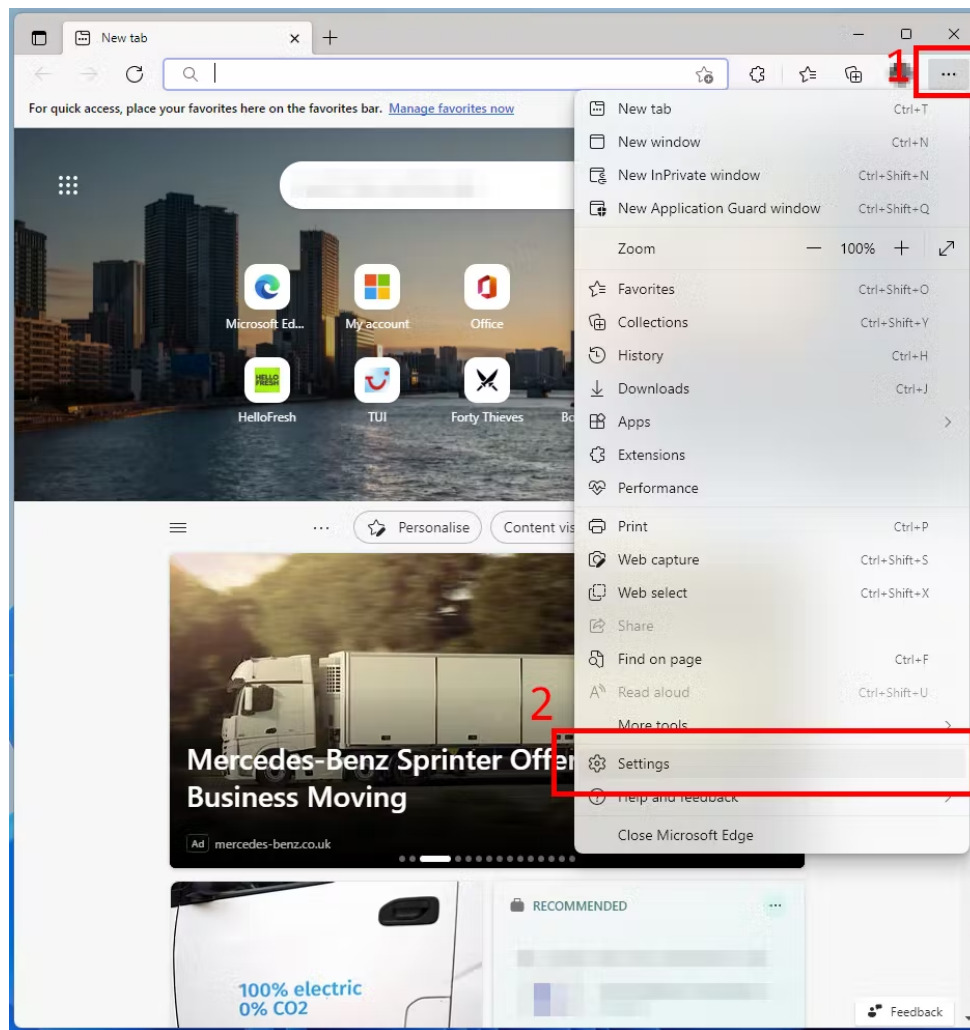
Step 1

Open Edge and check your IP address.



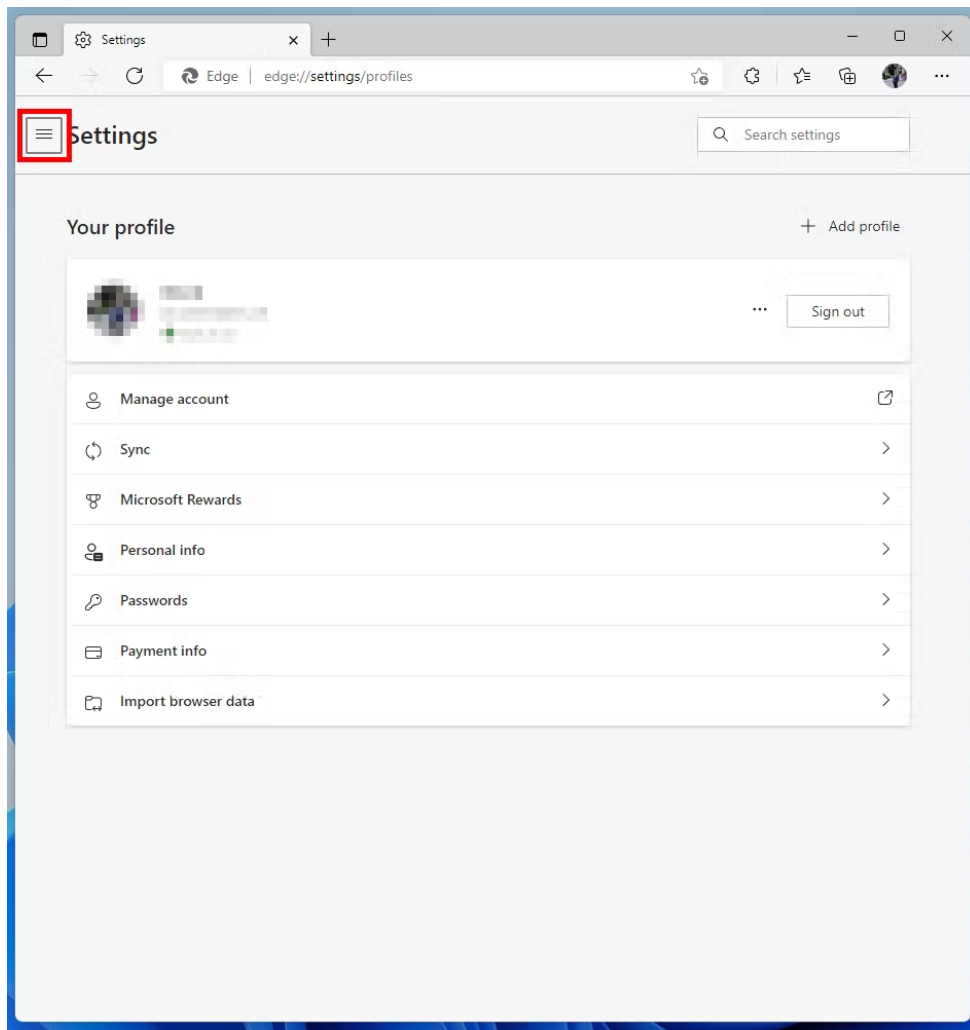
Step 2

Open the Settings page on Edge



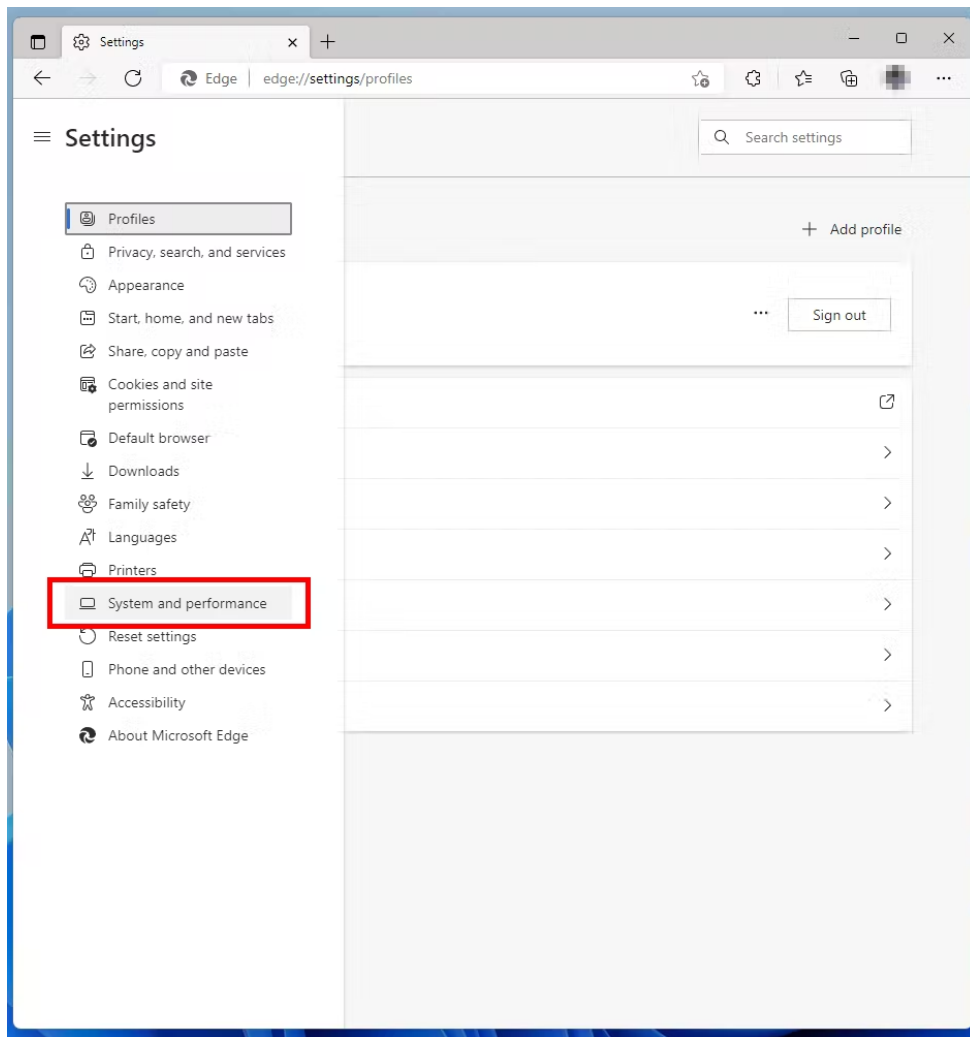
Step 3

This will show you the general profile settings page, click the top left corner to look at more settings



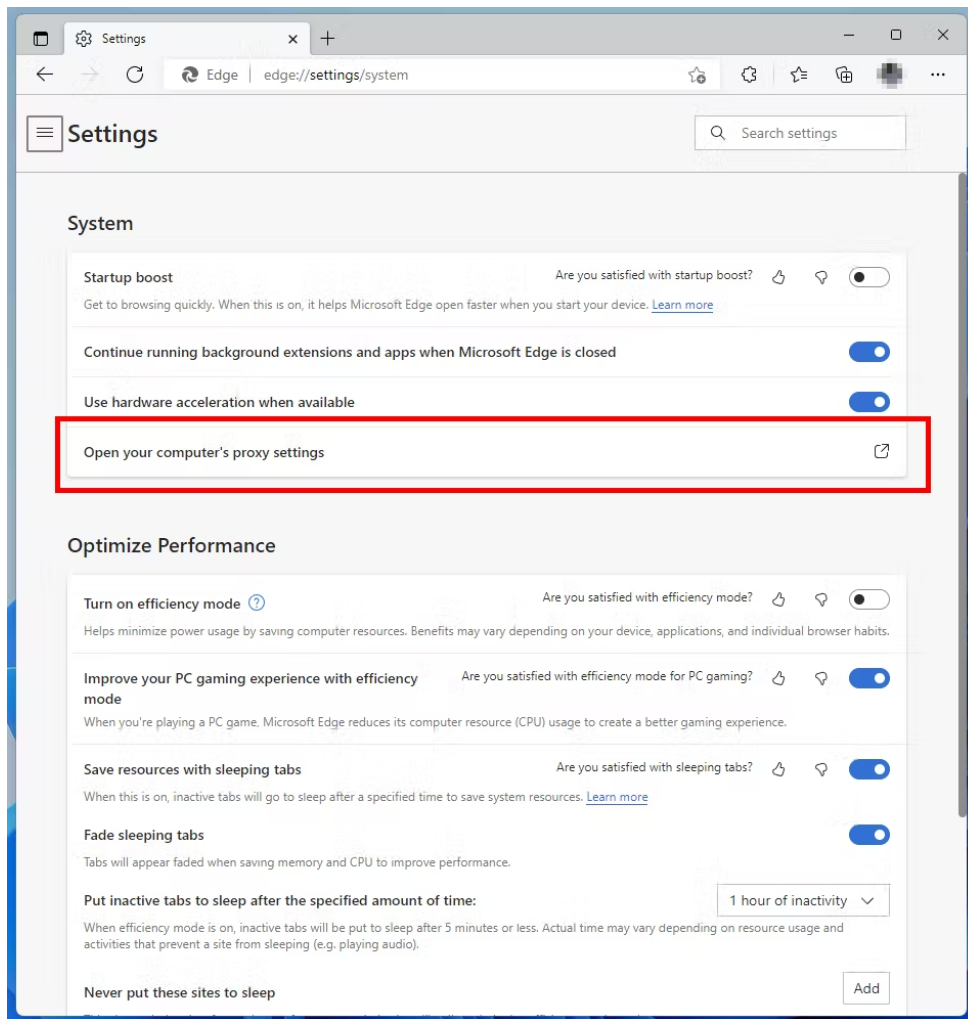
Step 4

Now open the System and performance section by clicking it



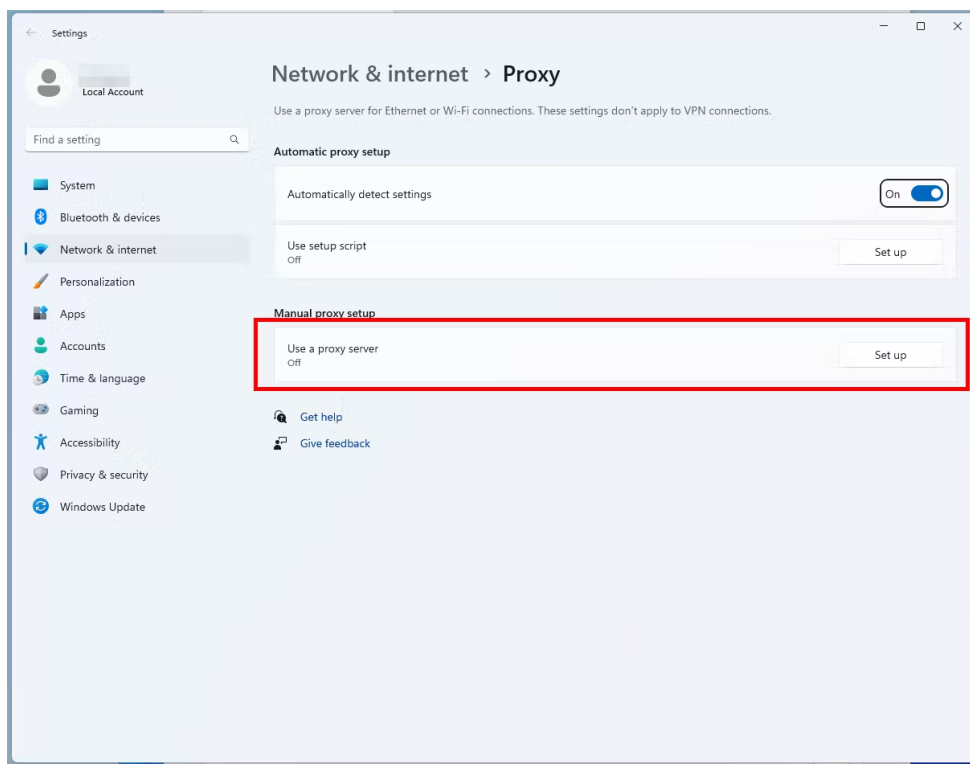
Step 5

Now click the open your computer's proxy settings button.



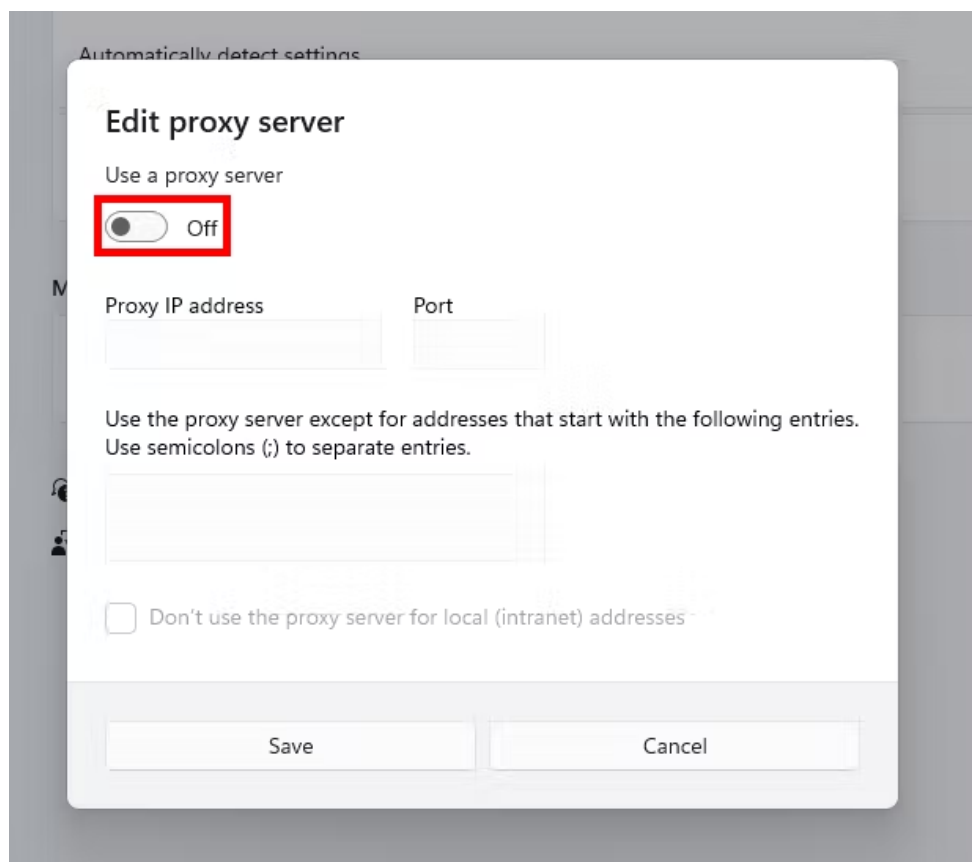
Step 6

We'll configure a manual proxy, click **Use a proxy server** to open the settings.



Step 7

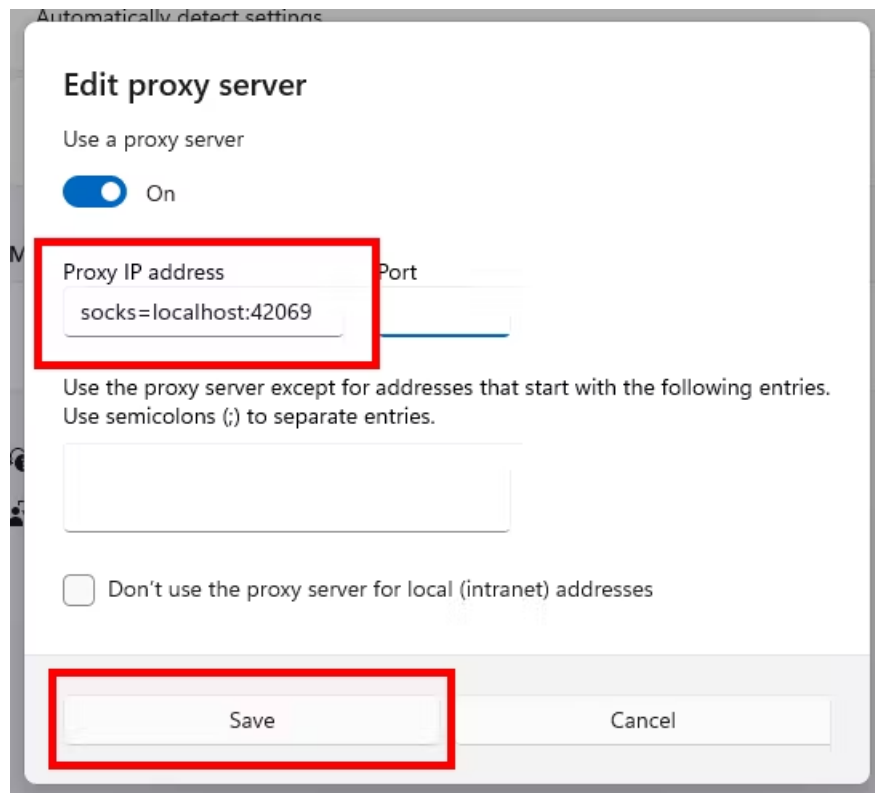
You will need to turn on the toggle to allow you to edit the settings.



Step 8

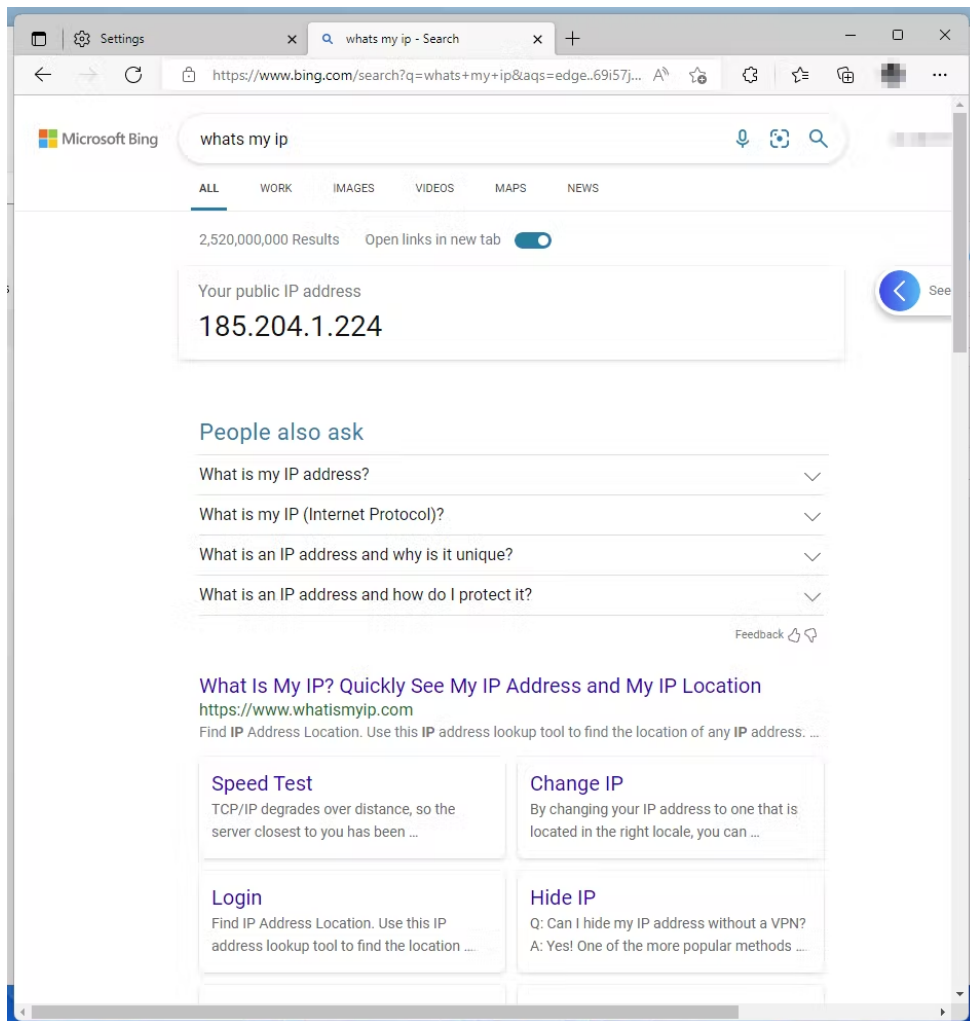
Set the proxy address to `socks=localhost:42069` and save the settings.

Or `socks=localhost:2280` if you've used PuTTY for creating the tunnel.



Step 9

Check it all worked and your IP has changed in Edge



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