

Assignment - 7

of

Cyber Security Laboratory

(CSE612)

Bachelor of Technology (CSE)

By

Ramoliya Kaushal (22000409)

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Course In-charge: Prof. Ninad Bhavsar



**NAVRACHANA
UNIVERSITY**
a UGC recognized University

Department of Computer Science and Engineering

School Engineering and Technology

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Q1. Use Windows In-built Firewalls and demonstrate how a given URL can be blocked by configuring appropriate rules.

Step 1: Choose the Website to Block

For example, let's block www.facebook.com

Step 2: Find the IP Address of the Website

Firewalls work with IPs, not domains, so we'll need to convert the URL to its IP.

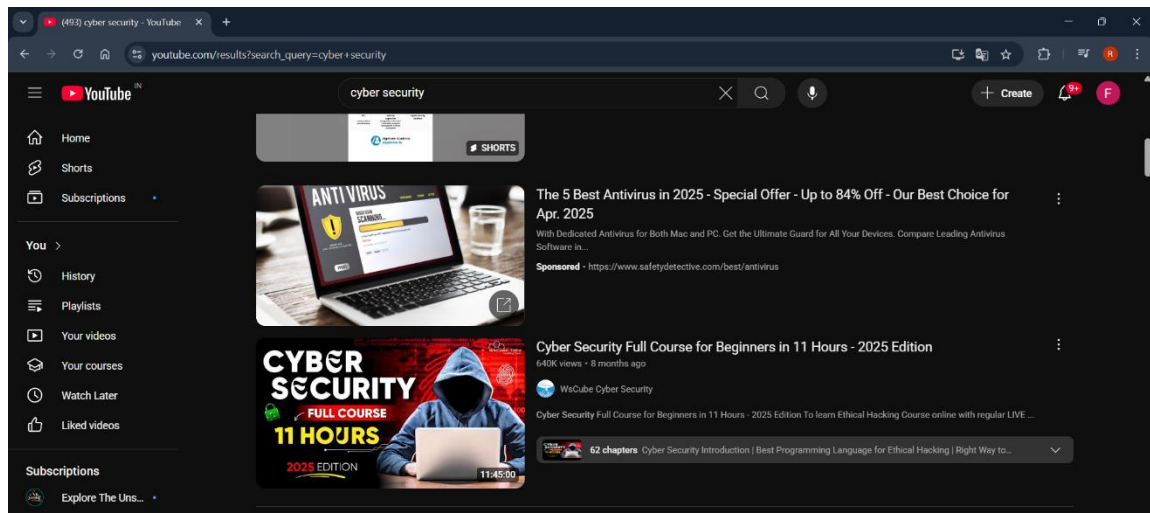
Method:

- Open Command Prompt (CMD).
- Type: `nslookup www.youtube.com`
- Press Enter.

```
C:\Users\kaush>nslookup www.youtube.com
Server:  UnKnown
Address:  2401:4900:50:9::9

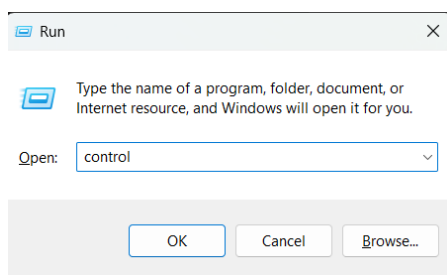
Non-authoritative answer:
Name:     youtube-ui.l.google.com
Addresses: 2404:6800:4009:81c::200e
           2404:6800:4009:81d::200e
           2404:6800:4009:81e::200e
           2404:6800:4009:81f::200e
           142.250.77.46
           142.250.77.78
           142.250.182.206
           142.250.182.238
           142.250.183.14
           142.250.183.206
           142.250.199.142
           142.250.199.174
           142.251.42.110
           172.217.174.238
           216.58.203.14
           216.58.203.46
           142.250.67.174
           142.250.70.46
           142.250.70.78
           142.250.70.110
Aliases:  www.youtube.com

C:\Users\kaush>
```

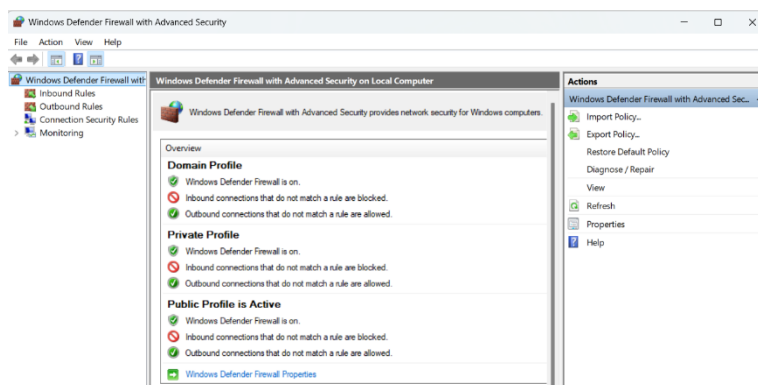


Step 3: Open Windows Defender Firewall

- Press Win + R, type control, and press Enter.



- Go to: System and Security > Windows Defender Firewall
- On the left panel, click: Advanced Settings

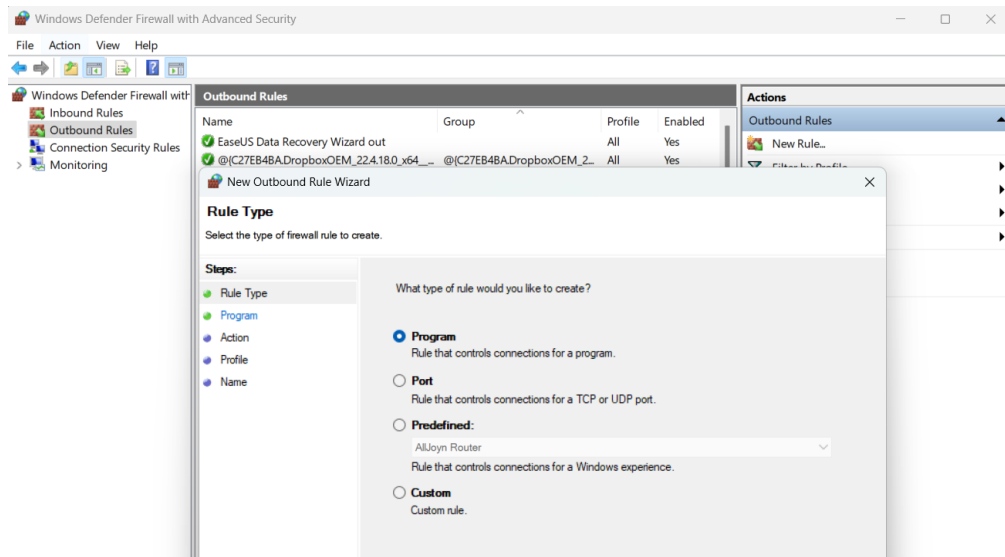


This opens the Windows Defender Firewall with Advanced Security.

Step 4: Create a New Outbound Rule

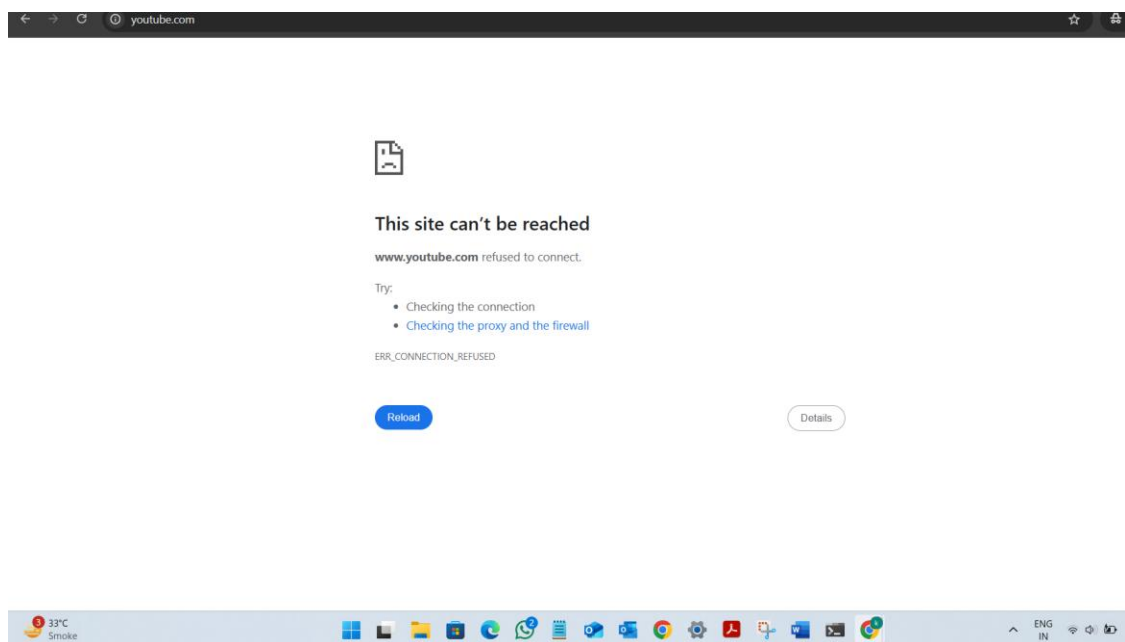
We block “outbound” because you’re stopping your computer from accessing the site.

1. In the left panel, click on Outbound Rules.
2. In the right panel, click New Rule...



Step 5: Test if It's Working

1. Open any browser.
2. Try visiting www.youtube.com.



"This site can't be reached"

Conclusion: - By using Windows' built-in firewall and creating a custom outbound rule, we successfully blocked access to the specified website. This demonstrates how firewall rules can be effectively used to control network traffic and restrict access to unwanted or harmful web resources. The test confirmed that the website was inaccessible after applying the rule, verifying that the firewall configuration worked as intended.