

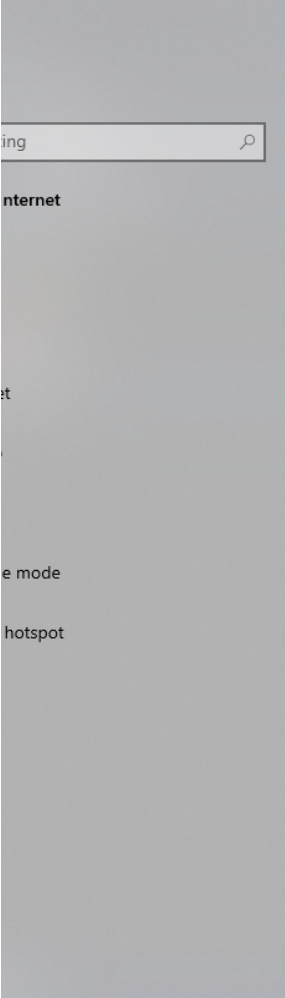
CN Assignment 2

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Configuring Proxy settings:



The image shows a screenshot of the Windows Settings application, specifically the 'Proxy' settings page. On the left, a portion of the 'Network & Internet' settings sidebar is visible, showing options like 'Internet', 'Ethernet', 'Wi-Fi', 'VPN', 'Mobile hotspot', and 'Proxy'. The main content area is titled 'Proxy' and has a toggle switch set to 'On'. Below this, there is a section for 'Use setup script' with a toggle switch set to 'Off' and a 'Script address' text box. A 'Save' button is located below the script address box. The next section is 'Manual proxy setup', which includes a description: 'Use a proxy server for Ethernet or Wi-Fi connections. These settings don't apply to VPN connections.' Below this is a toggle switch for 'Use a proxy server' set to 'On'. There are two input fields: 'Address' with the value 'http://localhost' and 'Port' with the value '12345'. Below these fields is a text box for 'Use the proxy server except for addresses that start with the following entries. Use semicolons (;) to separate entries.' and a checkbox labeled 'Don't use the proxy server for local (intranet) addresses' which is currently unchecked. A final 'Save' button is at the bottom.

Proxy

Use setup script

Off

Script address

Save

Manual proxy setup

Use a proxy server for Ethernet or Wi-Fi connections. These settings don't apply to VPN connections.

Use a proxy server

On

Address

http://localhost

Port

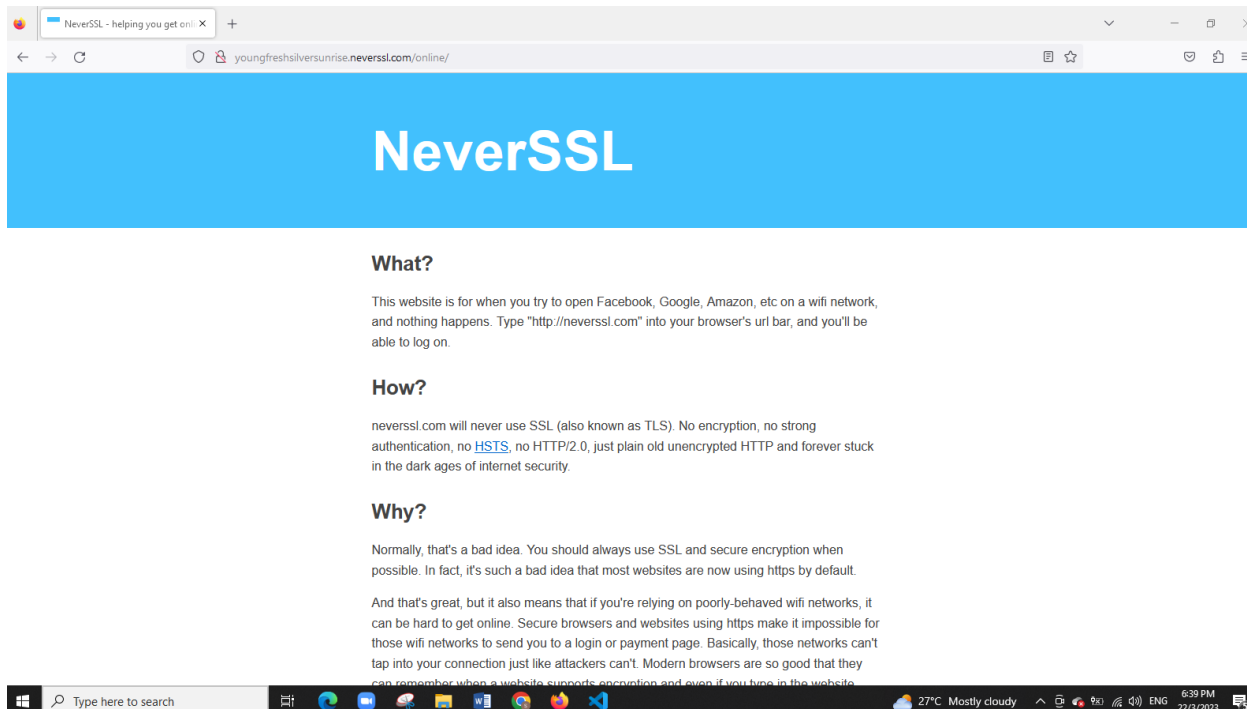
12345

Use the proxy server except for addresses that start with the following entries. Use semicolons (;) to separate entries.

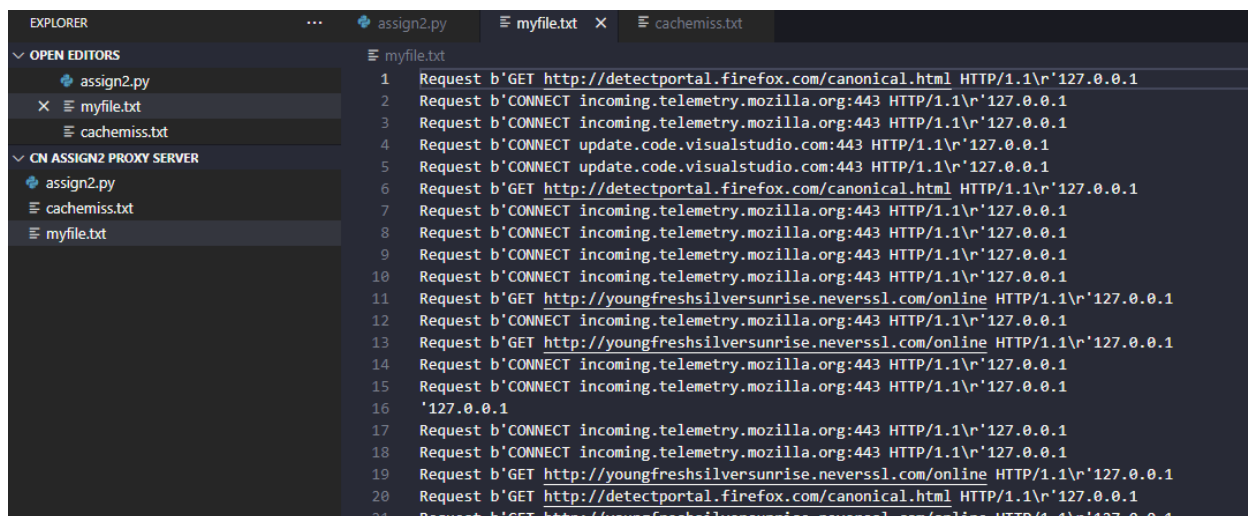
Don't use the proxy server for local (intranet) addresses

Save

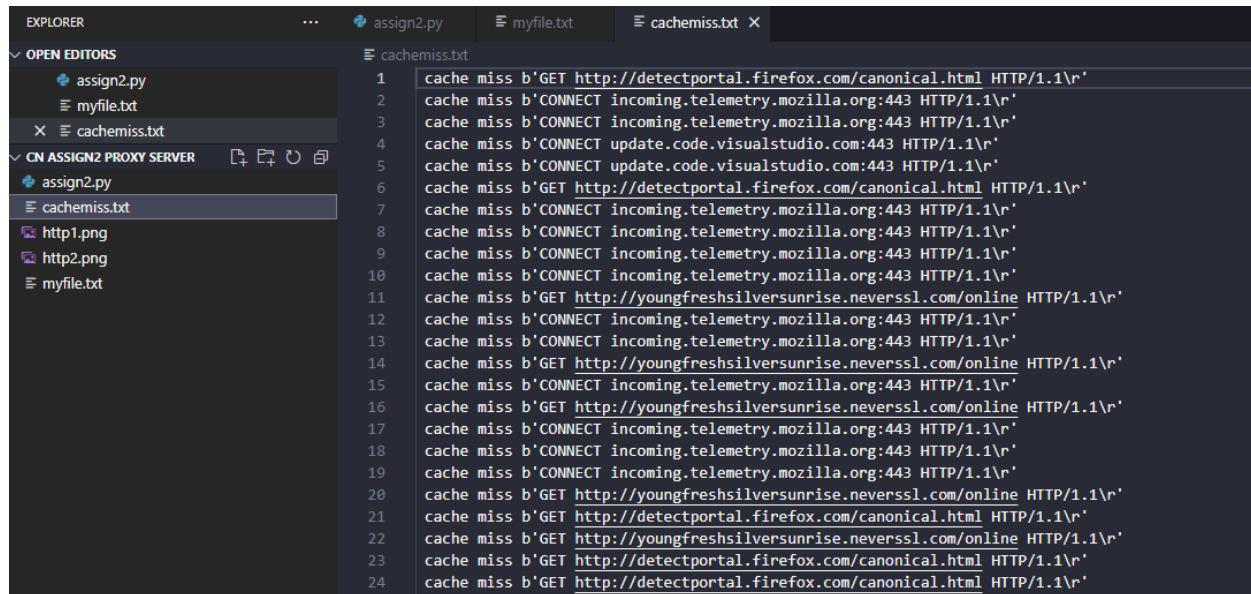
Http communications:



Requests added to file

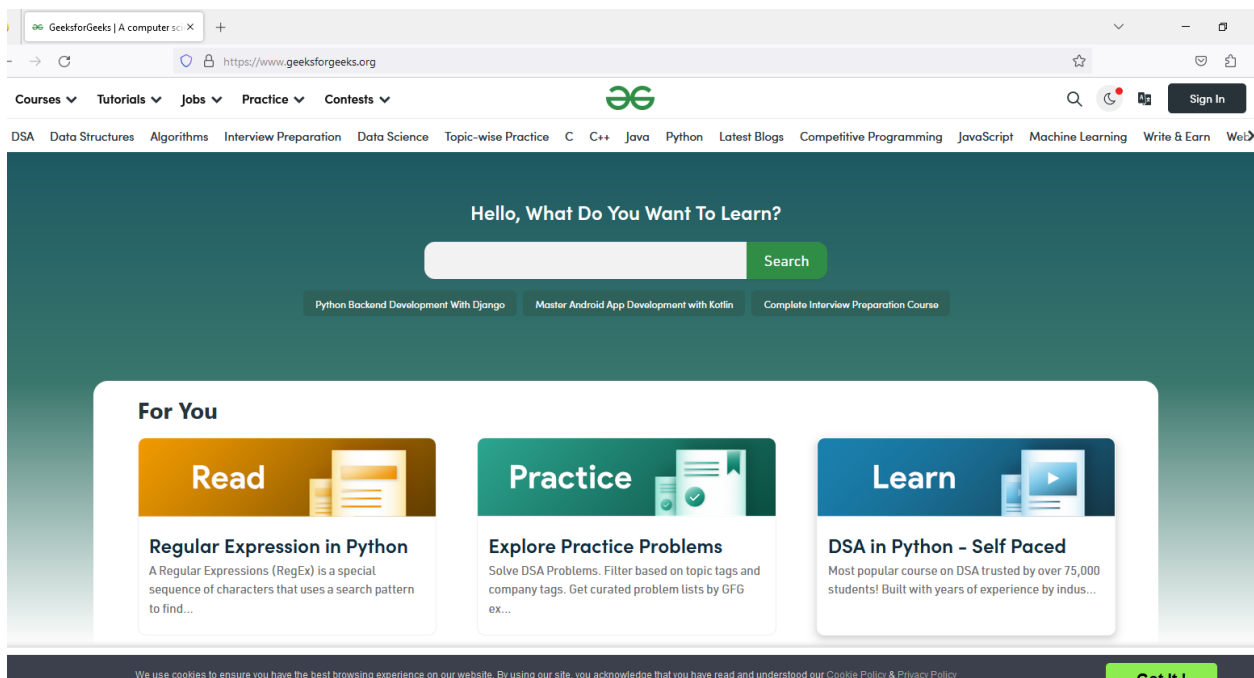


Cache missed first time added to cachemiss file:



```
1 cache miss b'GET http://detectportal.firefox.com/canonical.html HTTP/1.1\r'
2 cache miss b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'
3 cache miss b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'
4 cache miss b'CONNECT update.code.visualstudio.com:443 HTTP/1.1\r'
5 cache miss b'CONNECT update.code.visualstudio.com:443 HTTP/1.1\r'
6 cache miss b'GET http://detectportal.firefox.com/canonical.html HTTP/1.1\r'
7 cache miss b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'
8 cache miss b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'
9 cache miss b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'
10 cache miss b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'
11 cache miss b'GET http://youngfreshsilversunrise.neverssl.com/online HTTP/1.1\r'
12 cache miss b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'
13 cache miss b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'
14 cache miss b'GET http://youngfreshsilversunrise.neverssl.com/online HTTP/1.1\r'
15 cache miss b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'
16 cache miss b'GET http://youngfreshsilversunrise.neverssl.com/online HTTP/1.1\r'
17 cache miss b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'
18 cache miss b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'
19 cache miss b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'
20 cache miss b'GET http://youngfreshsilversunrise.neverssl.com/online HTTP/1.1\r'
21 cache miss b'GET http://detectportal.firefox.com/canonical.html HTTP/1.1\r'
22 cache miss b'GET http://youngfreshsilversunrise.neverssl.com/online HTTP/1.1\r'
23 cache miss b'GET http://detectportal.firefox.com/canonical.html HTTP/1.1\r'
24 cache miss b'GET http://detectportal.firefox.com/canonical.html HTTP/1.1\r'
```

Https communication:



```

Request b'CONNECT content-signature-2.cdn.mozilla.net:443 HTTP/1.1\r'127.0.0.1
Request b'CONNECT content-signature-2.cdn.mozilla.net:443 HTTP/1.1\r'127.0.0.1
Request b'CONNECT content-signature-2.cdn.mozilla.net:443 HTTP/1.1\r'127.0.0.1
Request b'CONNECT content-signature-2.cdn.mozilla.net:443 HTTP/1.1\r'127.0.0.1
Request b'CONNECT content-signature-2.cdn.mozilla.net:443 HTTP/1.1\r'127.0.0.1
Request b'CONNECT content-signature-2.cdn.mozilla.net:443 HTTP/1.1\r'127.0.0.1
Request b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'127.0.0.1
Request b'CONNECT www.geeksforgeeks.org:443 HTTP/1.1\r'127.0.0.1
Request b'CONNECT content-signature-2.cdn.mozilla.net:443 HTTP/1.1\r'127.0.0.1
Request b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'127.0.0.1
Request b'CONNECT www.geeksforgeeks.org:443 HTTP/1.1\r'127.0.0.1
Request b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'127.0.0.1
0.1
Request b'CONNECT www.geeksforgeeks.org:443 HTTP/1.1\r'127.0.0.1
Request b'CONNECT content-signature-2.cdn.mozilla.net:443 HTTP/1.1\r'127.0.0.1
Request b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'127.0.0.1
Request b'CONNECT www.geeksforgeeks.org:443 HTTP/1.1\r'127.0.0.1
Request b'CONNECT content-signature-2.cdn.mozilla.net:443 HTTP/1.1\r'127.0.0.1
Request b'CONNECT www.geeksforgeeks.org:443 HTTP/1.1\r'127.0.0.1
Request b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'127.0.0.1
Request b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'127.0.0.1

```

```

cache miss b'CONNECT content-signature-2.cdn.mozilla.net:443 HTTP/1.1\r'
cache miss b'CONNECT content-signature-2.cdn.mozilla.net:443 HTTP/1.1\r'
cache miss b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'
cache miss b'CONNECT www.geeksforgeeks.org:443 HTTP/1.1\r'
cache miss b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'
\r'
cache miss b'CONNECT content-signature-2.cdn.mozilla.net:443 HTTP/1.1\r'
cache miss b'CONNECT www.geeksforgeeks.org:443 HTTP/1.1\r'
/1.1\r'
\r'
cache miss b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'
\r'
cache miss b'CONNECT content-signature-2.cdn.mozilla.net:443 HTTP/1.1 cache miss b'CONNECT www.geeksforgeeks.org:443 HTTP/1.1\r'
cache miss b'CONNECT www.geeksforgeeks.org:443 HTTP/1.1\r'
/1.1\r'

```

Blocked content:

Now adding neverssl.com to blocked list:

```

2 import _thread as thread
3
4
5 MAX_DATA_RECV = 999999999
6 BLOCKED = [b'www.neverssl.com', b'neverssl.com']
7 #BLOCKED = []
8
9 def main():
10
11     if (len(sys.argv)<2):
12         print ("No port given")

```



The connection was reset

The connection to the server was reset while the page was loading.

- The site could be temporarily unavailable or too busy. Try again in a few moments.
- If you are unable to load any pages, check your computer's network connection.
- If your computer or network is protected by a firewall or proxy, make sure that Firefox is permitted to access the web.

Try Again

Shows Blacklisted status for the request

```
Request b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'127.0.0.1
Request b'CONNECT assets.msn.com:443 HTTP/1.1\r'127.0.0.1
Request b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'127.0.0.1
Blacklisted b'GET http://silverlushbrightmelody.neverssl.com/online HTTP/1.1\r'127.0.0.1
Blacklisted b'GET http://silverlushbrightmelody.neverssl.com/online HTTP/1.1\r'127.0.0.1
Blacklisted b'GET http://silverlushbrightmelody.neverssl.com/online HTTP/1.1\r'127.0.0.1
Blacklisted b'GET http://silverlushbrightmelody.neverssl.com/online HTTP/1.1\r'127.0.0.1
Blacklisted b'GET http://silverlushbrightmelody.neverssl.com/online HTTP/1.1\r'127.0.0.1
Blacklisted b'GET http://silverlushbrightmelody.neverssl.com/online HTTP/1.1\r'127.0.0.1
Blacklisted b'GET http://silverlushbrightmelody.neverssl.com/online HTTP/1.1\r'127.0.0.1
Blacklisted b'GET http://silverlushbrightmelody.neverssl.com/online HTTP/1.1\r'127.0.0.1
Blacklisted b'GET http://silverlushbrightmelody.neverssl.com/online HTTP/1.1\r'127.0.0.1
Request b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'127.0.0.1
Request b'CONNECT incoming.telemetry.mozilla.org:443 HTTP/1.1\r'127.0.0.1
```