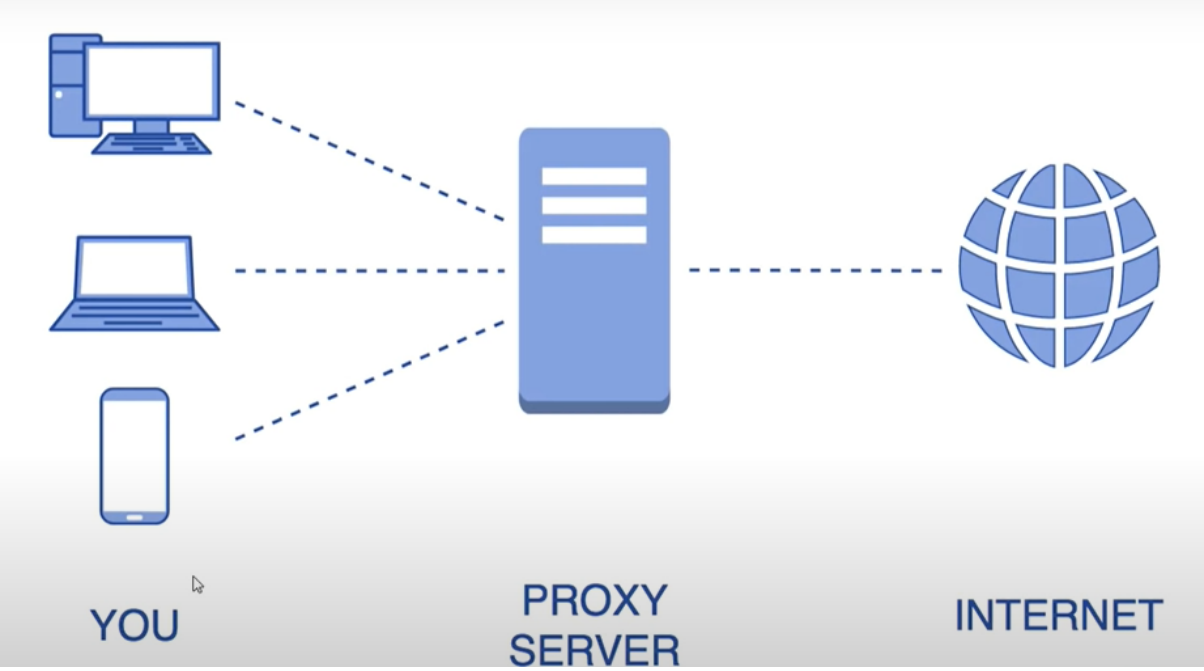
How to Install & Configure Squid Proxy Server

Definition: - SQUID proxy server is used to filter web traffic and reducing the unwanted/unauthorized website access and we can also limit the bandwidth.

Diagram: -



<u>Installation Steps: -</u>

Step 1: - Install squid

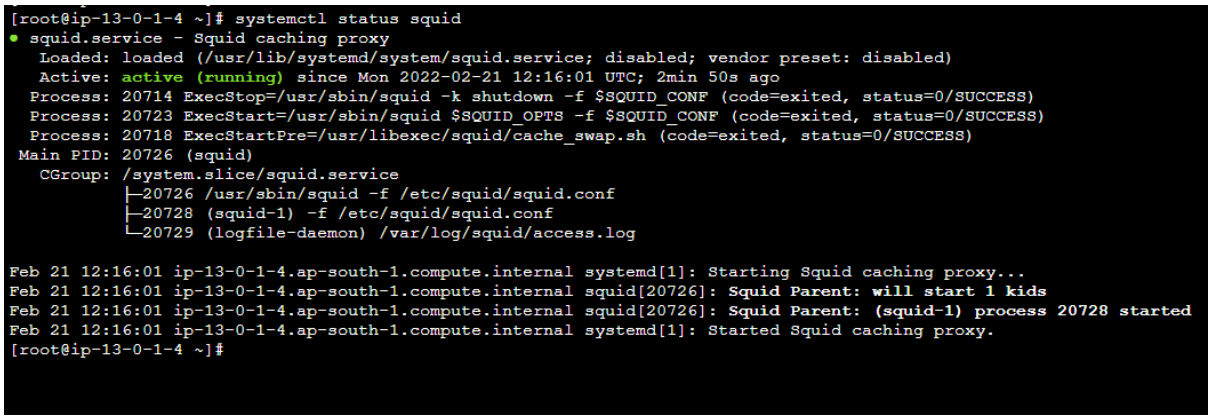
- **yum install squid**

Step 2: - Start and enable squid server.

- **systemctl enable squid && systemctl start squid**
  OR
- **systemctl enable-now squid**

Step 3: - Check the status of squid server.

- **systemctl status squid**



<u>Blocking Websites:</u> -

➢ Blocking a specific URL

Step 1: - Create a file named with **blocked_sites.**

Step 2: - Add the websites to be blocked in the file. For example,

- **vi /etc/squid/blocked_sites**

  .facebook.com

  .twitter.com

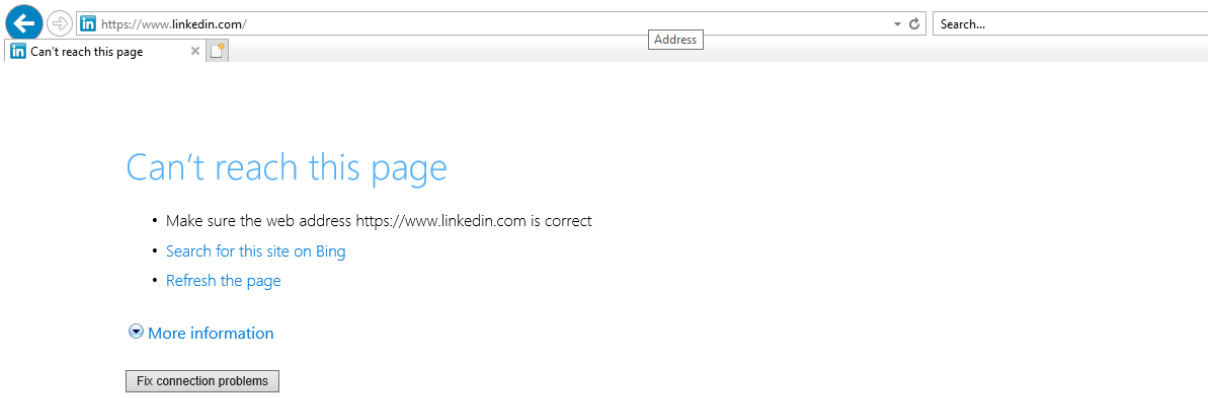
  .instagram.com

  .youtube.com

  .linkedin.com

```
[root@ip-13-0-1-4 ~]# cat /etc/squid/blocked_sites
.youtube.com
.facebook.com
.linkedin.com
.instagram.com
.twitter.com
[root@ip-13-0-1-4 ~]#
```

Output: -



Allowing Websites: -

- **ALLOW only specific URL**

Step 1: - Open a file named with **allowed_sites.**

Step 2: - Add the websites to be allowed in the file. For example,

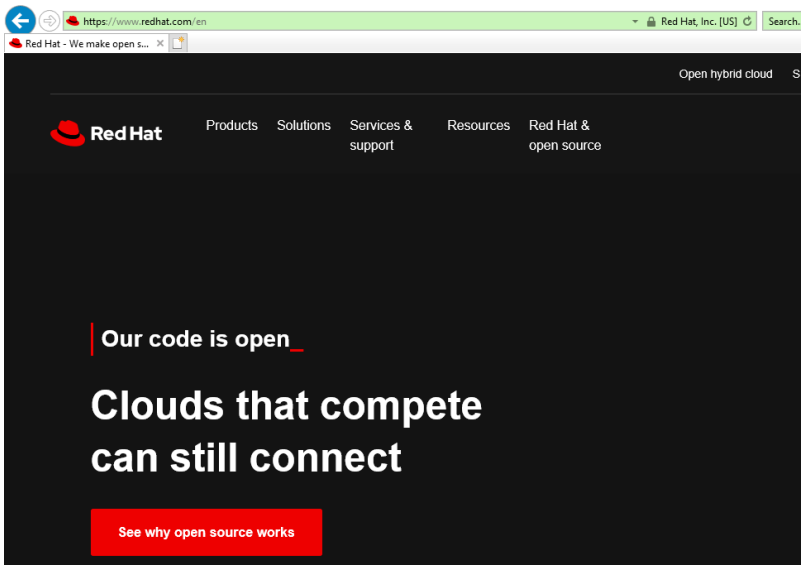
- **vi /etc/squid/allowed_sites**

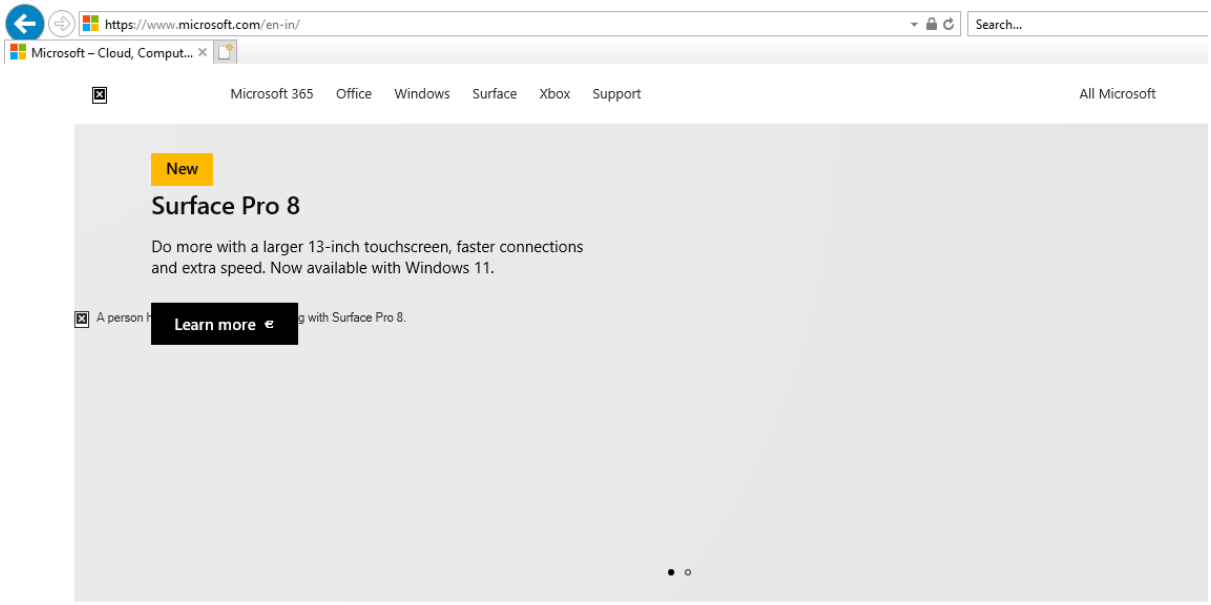
.microsoft.com

.redhat.com

```
[root@ip-13-0-1-4 squid]#
[root@ip-13-0-1-4 squid]# cat allowed_sites
.microsoft.com
.redhat.com
[root@ip-13-0-1-4 squid]#
[root@ip-13-0-1-4 squid]#
[root@ip-13-0-1-4 squid]#
```

Output: -





Block only http requests: -

- **Block HTTP requests.**

Step 1: - Open the file named squid.conf and add the below path

acl allow_url dstdomain "/etc/squid/allowed_sites"

http_access allow allow_url

Step 2 : - To block only http requests.

change the http_access allow to deny

http_access allow all > http_access deny all

```
acl allow_url dstdomain "/etc/squid/allowed_sites"

http_access allow allow_url

# Example rule allowing access from your local networks.
# Adapt localnet in the ACL section to list your (internal) IP networks
# from where browsing should be allowed
#http_access allow localnet
#http_access allow localhost

# And finally deny all other access to this proxy
http_access deny all

# Squid normally listens to port 3128
http_port 3128
```

Output: -