1. Instalarea Squid

sudo apt update

sudo apt install squid -y

```
robert@robert-VirtualBox:~$ sudo apt install squid -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libdbi-perl libecap3 squid-common squid-langpack
Suggested packages:
  libmldbm-perl libnet-daemon-perl libsql-statement-perl squidclient squid-cgi
  squid-purge resolvconf smbclient winbind
```

2. Verificarea statusului squid

Sudo systemctl status squid

```
robert@robert-VirtualBox:~$ sudo systemctl status squid
● squid.service - Squid Web Proxy Server
     Loaded: loaded (/usr/lib/systemd/system/squid.service; enabled; preset: enable>
     Active: active (running) since Wed 2025-05-21 19:48:59 EEST; 16s ago
       Docs: man:squid(8)
    Process: 8788 ExecStartPre=/usr/sbin/squid --foreground -z (code=exited, status>
   Main PID: 8792 (squid)
      Tasks: 4 (limit: 2271)
     Memory: 17.9M (peak: 18.6M)
        CPU: 152ms
     CGroup: /system.slice/squid.service
             ├─8792 /usr/sbin/squid --foreground -sYC
             ├─8795 "(squid-1)" --kid squid-1 --foreground -sYC
             ├─8796 "(logfile-daemon)" /var/log/squid/access.log
             └─8797 "(pinger)"
```

3. Configurarea de bază a Squid

a) Editarea fisierului:

    sudo nano /etc/squid/squid.conf

b) Configuratii esentiale:

    http_port 3128

    acl localnet src 192.168.0.0/24

    http_access allow localnet

http_access deny all

c) Pornirea serviciului:

sudo systemctl restart squid

4. Verificam daca Squid asculta pe toate interfetele IPv4, port 3128

sudo netstat -tulnp | grep 3128

```
robert@robert-VirtualBox:~$ sudo netstat -tulnp | grep 3128
tcp        0      0 0.0.0.0:3128            0.0.0.0:*               LISTEN      9085
/(squid-1)
```

5. Deschiderea portului in firewall (ufw)

sudo ufw allow 3128/tcp

sudo ufw reload

```
robert@robert-VirtualBox:~$ sudo ufw allow 3128/tcp
Rule added
Rule added (v6)
robert@robert-VirtualBox:~$ sudo ufw reload
Firewall reloaded
robert@robert-VirtualBox:~$ sudo ufw status
Status: active

To                         Action      From
--                         ------      ----
22/tcp                     ALLOW       Anywhere
21                         ALLOW       Anywhere
53                         ALLOW       Anywhere
80                         ALLOW       Anywhere
3128/tcp                   ALLOW       Anywhere
22/tcp (v6)                ALLOW       Anywhere (v6)
21 (v6)                    ALLOW       Anywhere (v6)
53 (v6)                    ALLOW       Anywhere (v6)
80 (v6)                    ALLOW       Anywhere (v6)
3128/tcp (v6)              ALLOW       Anywhere (v6)
```

6. Testare ping si conexiune

Pe client Windows:

ping 192.168.0.10

curl -x http://192.168.0.10:3128 http://example.com

```
C:\Users\Robert>ping 192.168.0.10

Pinging 192.168.0.10 with 32 bytes of data:
Reply from 192.168.0.10: bytes=32 time<1ms TTL=64
Reply from 192.168.0.10: bytes=32 time<1ms TTL=64
Reply from 192.168.0.10: bytes=32 time<1ms TTL=64
Reply from 192.168.0.10: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.0.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

```html
C:\Users\Robert>curl -x http://192.168.0.10:3128 http://example.com
<!doctype html>
<html>
<head>
    <title>Example Domain</title>

    <meta charset="utf-8" />
    <meta http-equiv="Content-type" content="text/html; charset=utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <style type="text/css">
    body {
        background-color: #f0f0f2;
        margin: 0;
        padding: 0;
        font-family: -apple-system, system-ui, BlinkMacSystemFont, "Segoe UI", "Open Sans", "Helvetica Neue", Helvetica,
 Arial, sans-serif;

    }
    div {
        width: 600px;
        margin: 5em auto;
        padding: 2em;
        background-color: #fdfdff;
        border-radius: 0.5em;
        box-shadow: 2px 3px 7px 2px rgba(0,0,0,0.02);
    }
    a:link, a:visited {
```

Pagina HTML de la example.com a fost returnata via proxy