**Practical 8**

**Aim: - Configuration of Proxy Server**

**UBUNTU:**

**Step 1: Install Squid Package on Ubuntu**

sudo apt-get update

sudo apt-get install squid

**Step 2: Configuring Squid Proxy Server**

* sudo nano /etc/squid/squid.conf
* Navigate to find the http\_port option. Typically, this is set to listen on Port 3218.

You may also set the proxy mode to transparent if you’d like to prevent Squid from modifying your requests and responses. Change it as follows: **http\_port 1234 transparent**

* Navigate to the **http\_access deny all** option. This is currently configured to block all HTTP traffic. This means no web traffic is allowed. Change this to the following: **http\_access allow all**
* Navigate to the **visible\_hostname** option. Add any name you’d like to this entry. This is how the server will appear to anyone trying to connect. Save the changes and exit.
* sudo systemctl restart squid

**Step 3: Configure Proxy Authentication**

sudo apt-get install apache2-utils

sudo touch /etc/squid/passwd

sudo chown proxy: etc/squid/passwd

**Step 4: Add a new user and password**

1] sudo htpasswd /etc/squid/passwd newuser

The system will prompt you to enter and confirm a password for newuser

2] Edit the /etc/squid/squid.conf file, and add the following command lines:

auth\_param basic program /usr/lib64/squid/basic\_ncsa\_auth /etc/squid/passwd

auth\_param basic children 5

auth\_param basic realm Squid Basic Authentication

auth\_param basic credentialsttl 2 hours acl

auth\_users proxy\_auth REQUIRED

http\_access allow auth\_user

* **Block Websites on Squid Proxy**

1. Create and edit a new text file **/etc/squid/blocked.acl** by entering:

**sudo nano /etc/squid/blocked.acl**

2. In this file, add the websites to be blocked, starting with a dot:

**.facebook.com**

**.twitter.com**

Note: The dot specifies to block all subsites of the main site.

3. Open the **/etc/squid/squid.conf** file again:

**sudo nano /etc/squid/squid.conf**

4. Add the following lines just above your ACL list:

acl blocked\_websites dstdomain “/etc/squid/blocked.acl”

http\_access deny blocked\_websites

* **Commands When Working with the Squid Service:**

To check the status of your Squid software, enter:

**sudo systemctl status squid**

This will tell you whether the service is running or not.

To start the service enter:

**sudo systemctl start squid**

Then set the Squid service to launch when the system starts by entering:

**sudo systemctl enable squid**

You can re-run the status command now to verify the service is up and running.

To stop the service, use the command:

**sudo systemctl stop squid**

To prevent Squid from launching at startup, enter:

**sudo systemctl disable squid**