

Department of Information Technology

(NBA Accredited)

Academic Year: 2025-26

Semester: V

Class / Branch: TE IT-C

Subject: SL Lab

Name of Instructor: Prof. Vishal Badgujar

Name of Student: Suyash Y Mane

Student ID: 24204008

Date of Performance: 01/10/2025 Date of Submission: 01/10/2025

Experiment No. 2

Aim: To study access control list by configuring SQUID proxy server.

Screen Shots:

```
apsit@apsit-HP-280-Pro-G6-Microtower-PC:~$ sudo apt-get update
[sudo] password for apsit:
Hit:1 https://dl.google.com/linux/chrome/deb stable InRelease
Hit:2 http://in.archive.ubuntu.com/ubuntu bionic InRelease
Hit:3 http://security.ubuntu.com/ubuntu bionic-security InRelease
Hit:4 http://in.archive.ubuntu.com/ubuntu bionic-updates InRelease
Hit:5 http://in.archive.ubuntu.com/ubuntu bionic-backports InRelease
Ign:6 https://pkg.jenkins.io/debian-stable binary/ InRelease
Hit:7 https://pkg.jenkins.io/debian-stable binary/ Release
Hit:9 http://ppa.launchpad.net/swi-prolog/stable/ubuntu bionic InRelease
Hit:10 http://archive.ubuntu.com/ubuntu bionic-backports InRelease
Hit:11 https://download.docker.com/linux/ubuntu bionic InRelease
Reading package lists... Done
```

PARSHVANATH CHARITABLE TRUST'S



A. P. SHAH INSTITUTE OF TECHNOLOGY

Department of Information Technology

(NBA Accredited)

```
apsit@apsit-HP-280-Pro-G6-Microtower-PC:~$ sudo apt-get install squid
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  gir1.2-goa-1.0 gir1.2-snapd-1 linux-hwe-5.4-headers-5.4.0-126
  linux-hwe-5.4-headers-5.4.0-128 linux-hwe-5.4-headers-5.4.0-136
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
 libecap3 squid-common squid-langpack
Suggested packages:
 squidclient squid-cgi squid-purge resolvconf winbindd
The following NEW packages will be installed:
 libecap3 squid squid-common squid-langpack
O upgraded, 4 newly installed, O to remove and 6 not upgraded.
Need to get 2,553 kB of archives.
After this operation, 10.4 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://in.archive.ubuntu.com/ubuntu bionic/main amd64 libecap3 amd64 1.0.1
-3.2 [16.6 kB]
```

```
apsit@apsit-HP-280-Pro-G6-Microtower-PC:~$ cd /etc/squid apsit@apsit-HP-280-Pro-G6-Microtower-PC:/etc/squid$ ls errorpage.css squid.conf
```

```
apsit@apsit-HP-280-Pro-G6-Microtower-PC:/etc/squid$ sudo cp squid.conf squid.conf.suyash
apsit@apsit-HP-280-Pro-G6-Microtower-PC:/etc/squid$ ls
errorpage.css squid.conf squid.conf.suyash
```

apsit@apsit-HP-280-Pro-G6-Microtower-PC:/etc/squid\$ sudo gedit squid.conf

```
apsit@apsit-HP-280-Pro-G6-Microtower-PC:/etc/squid$ sudo htpasswd -c /etc/squid/
.htpasswd suyash
New password:
Re-type new password:
Adding password for user suyash
```



PARSHVANATH CHARITABLE TRUST'S

A. P. SHAH INSTITUTE OF TECHNOLOGY

Department of Information Technology

(NBA Accredited)

	Connection Settings		×
○ <u>U</u> se system <mark>p</mark>	raxy settings		
 Manual proxy 			
			2422
HTTP <mark>Pro<u>x</u>y</mark>	192.168.86.19	<u>P</u> ort	3128
	✓ Al <u>s</u> o use this <mark>proxy</mark> for HTTPS		
HTTPS Proxy	192.168.86.19	P <u>o</u> rt	3128
SO <u>C</u> KS Host		Port	0
(○ SOC <u>K</u> S v4 ○ SOCKS <u>v</u> 5		
<u>Automatic pr</u>	<mark>oxy</mark> configuration URL		
		R	<u>e</u> load
No <mark>proxy</mark> for			
localhost, 127.	0.0.1		
Example: .mozill	a.org, .net.nz, 192.168.1.0/24		
Connections to l	ocalhost, 127.0.0.1/8, and ::1 are never proxied.		
Do not prom	pt for authent <u>i</u> cation if password is saved		
Proxy DNS w	hen using SOCKS v5		
☐ Ena <u>b</u> le DNS o	over HTTPS		
Use <u>P</u> rovider	Cloudflare (Default)		~
		Cancel	ок



A. P. SHAH INSTITUTE OF TECHNOLOGY

Department of Information Technology

(NBA Accredited)

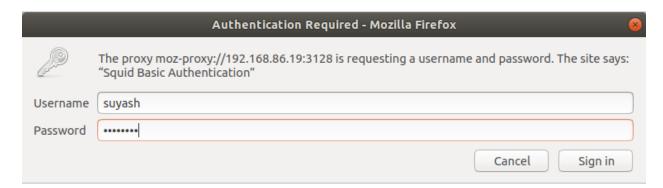


The proxy server is refusing connections

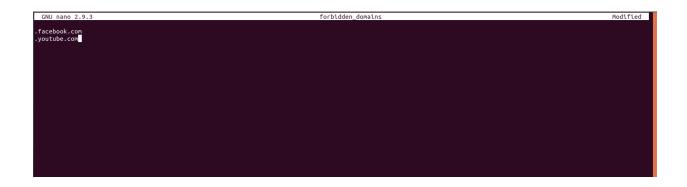
Firefox is configured to use a proxy server that is refusing connections.

- Check the proxy settings to make sure that they are correct.
- Contact your network administrator to make sure the proxy server is working.

Try Again







Conclusion:

In this experiment, we learnt and understood to implement access control list by configuring SQUID proxy server.