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Class / Branch: TE IT-C

Subject: SL Lab

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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
```

```
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
0 upgraded, 4 newly installed, 0 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.con
f.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
```

Connection Settings   ✕

○ Use system proxy settings

🔵 Manual proxy configuration

HTTP Proxy | 192.168.86.19 | Port | 3128 |

☑ Also use this proxy for HTTPS

HTTPS Proxy | 192.168.86.19 | Port | 3128 |

SOCKS Host | | Port | 0 |

○ SOCKS v4   🔵 SOCKS v5

○ Automatic proxy configuration URL

| | Reload

No proxy for

| localhost, 127.0.0.1 |

Example: .mozilla.org, .net.nz, 192.168.1.0/24

Connections to localhost, 127.0.0.1/8, and ::1 are never proxied.

☐ Do not prompt for authentication if password is saved

☑ Proxy DNS when using SOCKS v5

☐ Enable DNS over HTTPS

Use Provider   Cloudflare (Default)   ⌄

Cancel   **OK**

google.com

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

Authentication Required - Mozilla Firefox

The proxy moz-proxy://192.168.86.19:3128 is requesting a username and password. The site says: "Squid Basic Authentication"

Username | suyash
Password | ••••••••

Cancel   Sign in

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https://elearn.apsit.edu.in/moodle/

PCT's A. P. Shah Institute of Technology

Log in

Latest announcements | Exam Notifications | Office Notifications | Scholarship Section

```
  GNU nano 2.9.3                                forbidden_domains                                Modified
.facebook.com
.youtube.com
```

Conclusion:

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