

PARSHVANATH CHARITABLE TRUST'S

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Department of Information Technology

Semester: V Name of Student: visha Academic Year: 2022-23 Student ID: 20104084

Class / Branch: TE IT

Subject: Security Lab (SL)

Name of Instructor: Prof. Apeksha Mohite

EXPERIMENT NO. 2

Aim: To Study use of access control Lists to deploy security policies of Web Acc

Verifying state of squid daemon and socket status after installation :

```
Institute: | Squid | Sudo apt-get install squid | Sudo | Sassword for apsit: | Reading package lists... Done | Squid |
```



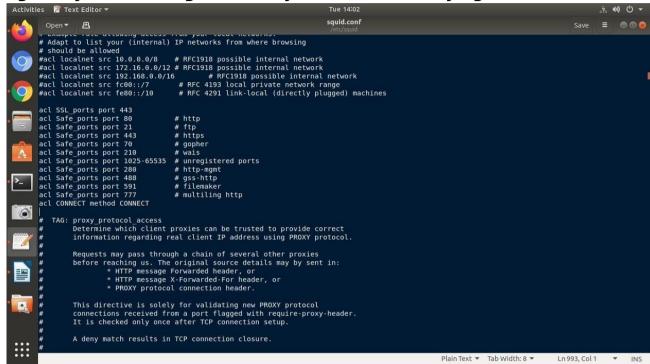


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Squid Configuration file with required ACL directives and actions:
Log Analysis of Configured Proxy Server and verifying ACL directives working:



root@apsit-HP-245-G4-Notebook-PC:~# tail -f /var/log/squid/access.log

15/Apr/2017:15:51+4830 155 192.168.3.1740P_MISS/2008625GET ftp://192.168.25k2/5/n
HIER_DIRECT/192.168.25.25 text/html

Changed Proxy Name

```
5577 # Use system group memberships of the cache effective user account
5579 #
       TAG: httpd suppress version string
                                           on|off
            Suppress Squid version string info in HTTP headers and HTML error pages.
5580 #
5581 #Default:
5582 # httpd_suppress_version_string off
5583
5584 # TAG: visible hostname
5585 visible hostname labproxyserver
5586 #
            If you want to present a special hostname in error messages, etc,
5587 #
            define this. Otherwise, the return value of gethostname()
5588 #
            will be used. If you have multiple caches in a cluster and
            get errors about IP-forwarding you must set them to have individual
5589 #
      names with this setting.
```



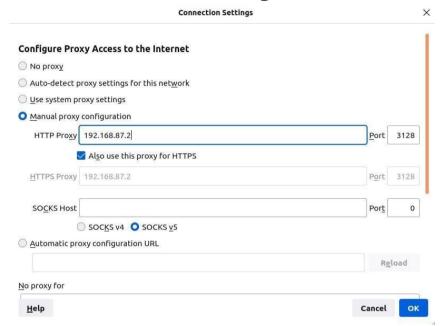
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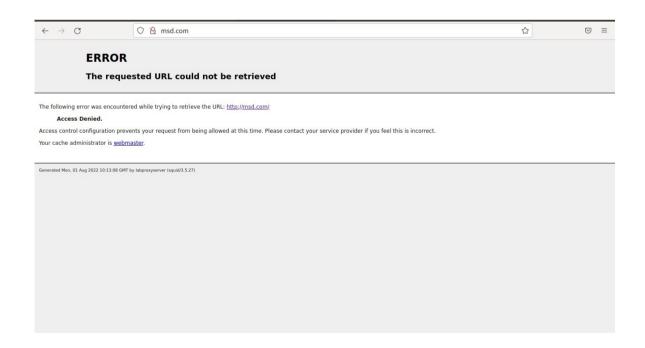


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FireFox Preference Changes



firefox user Error





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Creating a Proxy By making Changes in Conf. files:

```
9/9 #acl localnet src fe80::/10  # RFC 4291 link-
980 #acl resclient src 192.168.87.4
981 #acl forbidden dstdomain .facebook.com .espn.com
982 #http_access deny forbidden
983 #http_access allow localnet !resclient
984 acl SSL_ports port 443
985 acl Safe ports port 400
                                                                                  # RFC 4291 link-local (directly plugged) machine
 985 acl Safe ports port 80
  986 acl Safe ports port 21
                                                                                # ftp
  987 acl Safe ports port 443
                                                                               # https
  988 acl Safe ports port 70
                                                                               # gopher
  989 acl Safe ports port 210
  990 acl Safe ports port 1025-65535 # unregistered ports
 991 acl Safe ports port 280 # http-mgmt
  992 acl Safe ports port 488
                                                                              # gss-http
992 acl Safe_ports port 488  # gss-http
993 acl Safe_ports port 591  # filemaker
994 acl Safe_ports port 777  # multiling http
995 acl CONNECT method CONNECT
996 auth_param basic program /usr/lib/squid3/basic_ncsa_auth /etc/squid/passwd
997 auth_param basic credentialsttl 30 minutes
998 auth_param basic casesensitive on
999 auth_param basic realm Subhashish proxy-caching web server for APSIT
1000 acl ncsa proxy_auth REQUIRED
1001 http access allow ncsa
```

Conclusion: Thus we have successfully studied use of access cont to deploy security policies of Web Access by configuring