Praktikum Squid Proxy

Alat dan bahan:

- Squid
- Mysql

Langkah Percobaan:

1. Update repository apt pada terminal



2. Install squid dengan sudo apt-get install squid

```
adiguna7@adiguna-Suryo sudo apt-get install squid
```

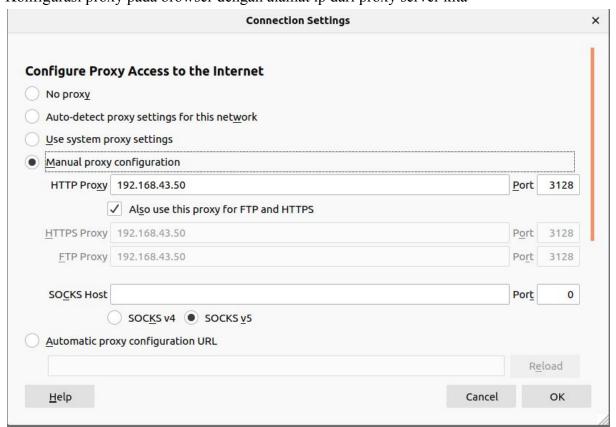
3. Untuk mengkonfigurasi squid, buka file /etc/squid/squid.conf, lalu ubah http_access menjadi deny all

```
# And finally deny all other access to this proxy http_access deny all
```

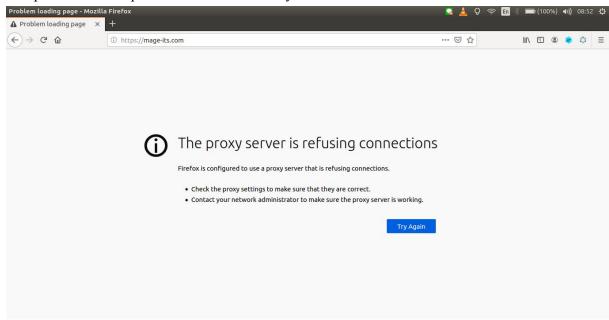
4. Restart squid

```
adiguna7@adiguna-Suryo /opt/firefox sudo /etc/init.d/squid reload
[sudo] password for adiguna7:
```

5. Konfigurasi proxy pada browser dengan alamat ip dari proxy server kita



6. Cek pada browser apabila browser men-deny semua akses berarti benar



- 7. Cara untuk mencekal situs-situs tertentu
 - Buat file BlockLink.txt



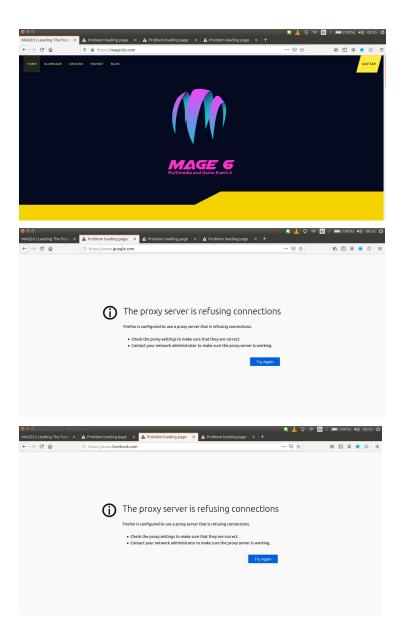
• Edit konfigurasi squid.conf

```
# And finally deny all other access to this proxy http_access allow acl UrlBlocked url_regex "/etc/squid/BlockLink.txt" http_access deny UrlBlocked
```

Restart squid dan akses browser

```
adiguna7@adiguna-Suryo /opt/firefox sudo /etc/init.d/squid reload
[sudo] password for adiguna7:
```

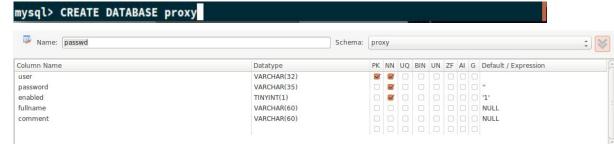
• Restart browser dan cek, apakah list web sudah terblock



- 8. Otorisasi user untuk mengakses internet
 - Install mysql-server

adiguna7@adiguna-Suryo /opt/firefox sudo apt install mysql-server

• Buat database bernama proxy dan buat tabel bernama passwd didalamnya



Masukkan data user ke dalam tabel passwd

#	user	password	enabled	fullname	comment
1	test	test	1	test	test
*	HULL	NULL	NULL	HULL	NULL

• Setting kembali pada konfigurasi squid.conf

```
##
auth_param basic program /usr/lib/squid/basic_db_auth
auth_param basic children 5
auth_param basic realm Web-Proxy
auth_param basic credentialsttl 1 minute
auth_param basic casesensitive off
acl db-auth proxy_auth REQUIRED
http_access allow db-auth
http_access allow localhost

# And finally deny all other access to this proxy
http_access allow
acl UrlBlocked url_regex "/etc/squid/BlockLink.txt"
http_access deny UrlBlocked
```

• Setting pada file /usr/lib/squid/basic db auth sesuai dengan Database

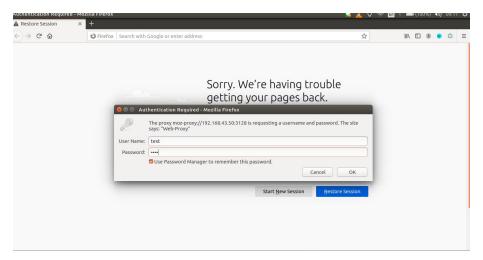
```
use DBI;
use Digest::MD5 qw(md5 md5_hex md5_base64);

my $dsn = "DBI:mysql:database=proxy";
my $db_user = "root";
my $db_passwd = "123";
my $db_passwd = "123";
my $db_table = "passwd";
my $db_usercol = "user";
my $db_passwdcol = "password";
my $db_cond = "enabled = 1";
my $plaintext = 1;
my $md5 = 0;
my $persist = 0;
my $joomla = 0;
my $debug = 0;
my $debug = 0;
my $hashsalt = undef;
```

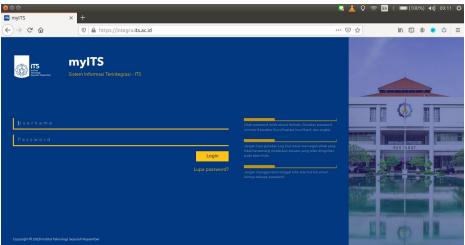
Restart kembali squid

```
adiguna7@adiguna-Suryo /opt/firefox sudo /etc/init.d/squid reload
[sudo] password for adiguna7:
```

Restart browser



jika berhasil maka akan tampil sebagai berikut, masukkan user dan password dalam database untuk otorisasi. Setelah otorisasi, maka baru bisa mengakses web yang dibutuhkan.



9. Top 5 website

• Install web server pada terminal (nginx)

```
adiguna7@adiguna-Suryo /opt/firefox sudo apt install nginx
```

 Install dependency yang dibutuhkan sudo apt install php-pear php-fpm php-dev php-zip phpcurl php-xmlrpc php-gd php-mysql php-mbstring php-xml libapache2-mod-php

```
adiguna7@adiguna-Suryo /opt/firefox sudo apt install php-pear php-fpm php-d
ev php-zip phpcurl php-xmlrpc php-gd php-mysql php-mbstring php-xml
libapache2-mod-php
```

Buat file index.php dalam /var/www/html/proxy/

```
die ("gagal");
               $row = mysqli num rows($result);
```

```
url='$myrealword'";
<body>
$a=1;
while($data = mysqli_fetch_array($result)){
echo "".$data['url']." => ".$data['jml']."";
if($a>5) break;
```

• Setting vhost pada nginx

```
server {
    listen 1515;
    listen [::]:1515;
    root /var/www/html/proxy;
    index index.php index.html index.htm;
    server_name 127.0.0.1;
    location / {
        if (!-e $request_filename){
        rewrite ^(.*)$ /index.php?url=$1 last;
    }
    location \sim \.php$ {}
        try_files $uri /index.php =404;
        fastcgi_split_path_info ^(.+\.php)(/.+)$;
        fastcgi_pass unix:/var/run/php/php7.2-fpm.sock;
fastcgi_index index.php;
        fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
        include fastcgi_params;
    }
}
```

Buka browser pada port tersebut



These are the top 5 website mostly visited

```
www.google.com => 19
www.mage-its.com => 3
www.youtube.com => 3
```