**SQUID1-NTLM -DANSGUARDIAN - SQUID2-CACHE**

Steps to setup two instances of squid, one running the NTLM authentication process and one running the Cache process.

The following packages must have been previously installed

- Squid 2.6.STABLE21
- Dansguardian 2.10.0.2

1. Install Webmin to create the second instance of squid called Squid-Ntlm.

   http://prdownloads.sourceforge.net/webadmin/webmin-1.480-1.noarch.rpm

2. Login into webmin at http://webmin-server-ip-address:10000

3. Go to 'webmin' section, then to 'Webmin Configuration' & then choose 'Webmin Modules', after that click on the 'Clone Module' button

4. Clone the 'squid proxy server' module and call it 'Squid Proxy Server ntlm'

5. Prepare the second instance of squid

   cp /etc/squid/squid.conf /etc/squid-ntlm/squid.conf
   cp /usr/sbin/squid /usr/sbin/squid-ntlm
   mkdir /var/spool/squid-ntlm
   mkdir /var/log/squid-ntlm
   chown squid:squid /var/spool/squid-ntlm
   chown squid:squid /var/log/squid-ntlm

6. Now setup the second instance of squid, to to webmin again, then click on the 'servers' section and once there go to the 'Squid Proxy Server ntlm' module and press the 'Module Config' link and fill in the details.

   Full path to squid config file: /etc/squid-ntlm/squid.conf
   Command to start squid: /etc/init.d/squid-ntlm start
   Command to stop squid: /etc/init.d/squid-ntlm start
   Squid executable: /usr/sbin/squid-ntlm
   Full path to PID file: /var/run/squid-ntlm.pid
   Full path the cache directory: /var/spool/squid-ntlm
   Full path the log directory: /var/log/squid-ntlm

7. Download the DansGuardian webmin module

http://sourceforge.net/projects/dgwebminmodule/files/dgwebmin-stable/0.5.11/dg-0.5.11.wbm/download

8. Install DansGuardian webmin module, go to webmin, select the 'webmin' icon, then go to 'Webmin Configuration' & then choose 'Webmin Modules' and choose 'install Module'

9. Create squid-ntlm directories

   mkdir /etc/squid-ntlm
   mkdir /var/spool/squid-ntlm
   mkdir /var/log/squid-ntlm

10. Back up squid and dansguardian configuration files

11. Replace the /etc/squid/squid.conf file with the one already configured

    cp squid.conf.template1 /etc/squid/squid.conf

12. Copy the squid-ntlm.conf file into /etc/squid

    cp squid.conf.template2 /etc/squid-ntlm/squid.conf

13. In the dansguardian.conf file, substitute the filter and proxy ports indicated below. Make sure changes are done in the conf file that is set in the dansguardian init.d script

    filterport = 9002
    proxyport = 9003

14. Now that the first squid server is set to use ntlm authentication it's time to use winbind to authenticate against Active Directory. Stop both winbind and samba services

    /etc/init.d/smb stop
    /etc/init.d/winbind stop

15. Join the domain

    net ads join -U <Administrator> -S <Domain>

16. Start both winbind and samba services

    /etc/init.d/smb start
    /etc/init.d/winbind start

17. To test it, the command below should display all the groups in your active directory structure.

    /usr/bin/wbinfo -g

18. Set squid to be able to access the winbind information

    chown root:squid /var/cache/samba/winbindd_privileged
    chmod 750 /var/cache/samba/winbindd_privileged

19. To forward the logs to a syslog server.

    echo “local3.* @192.168.10. 6” >> /etc/syslog.conf

20. Create the squid-ntlm log file, and change permissions

    touch /var/log/squid-ntlm/access.log
    chmod 777 /var/log/squid-ntlm/access.log

21. Start all the servers. Make sure Squid and Dansguardian are stopped before doing this.

    /etc/init.d/dansGuardian start
    /usr/sbin/squid -f /etc/squid/squid.conf -z
    /usr/sbin/squid-cache -f /etc/squid/squid-cache.conf -z

22. Download the init.d script from the link below to start|stop squid-ntlm and copy it into /etc/init.d directory

    http://www.opensourcehowto.org/uploads/ntlm.txt

23. Once both the servers are initialized then you can use the init.d scripts to star them

    /etc/init.d/squid-ntlm start/stop/status
    /etc/init.d/squid start/stop/restart/status

CONFIGS

squid-fakeauth.conf

http_port **8002**
cache_store_log none #cache disabled
auth_param ntlm program /usr/lib/squid/fakeauth_auth
auth_param basic program /usr/lib/squid/fakeauth_auth
cache_peer *10.253.25.186* parent **9002** 0 no-query login=*:nopassword #forwarding
access_log syslog:local0.info squid #send to syslog server

dansguardian.conf

filterip = *10.253.25.186*
filterport = **9002**
proxyip = *10.253.25.186*
proxyport = **9003**

squid.conf

http_port **9003**
cache_peer *10.253.10.194* parent **8002** 0 no-query login=*:nopassword  #forwarding

INIT SCRIPT

```
prog="Squid Fig Dans"

start () {

if [ ! -e "/var/run/squid.pid" ]       # Check if file exists.
then
printf "Squid starting\n";
service squid start
fi

if [ -e "/var/run/squid.pid" ]       # Check if file exists.
then
printf "Squid already started\n";
rundansguardian
else
printf "Squid failed\n";
printf "Stopping services\n";
stop

fi

}

rundansguardian () {

if [ ! -e "/var/run/dansguardian.pid" ]       # Check if file exists.
then
printf "Dansguardian starting\n";
#dansguardian -c /etc/dansguardian/dansguardian.conf
service dansguardian start
fi
```

```
if [ -e "/var/run/dansguardian.pid" ]       # Check if file exists.
then
printf "Dansguardian already started\n";
runsquid-ntlm

else
  count=1;

  while(($count < "7"))
  do
          sleep 1
          if [ -e "/var/run/dansguardian.pid" ]
          then
          printf "Dansguardian is already started\n";

          runsquid-ntlm

          exit 1
          fi
          printf "."
          count=$[$count+1]
  done

printf "\nDansguardian failed\n";
printf "Stopping services\n";
stop

fi


}

runsquid-ntlm () {

if [ ! -e "/var/run/squid-ntlm.pid" ]       # Check if file exists.
then
printf "Fake-Auth Squid starting\n";
/usr/sbin/squid-ntlm -f /etc/squid-ntlm/squid.conf
fi

if [ -e "/var/run/squid-ntlm.pid" ]       # Check if file exists.
then
printf "\nFake-Auth Squid is already started\n";

else
```

```
 count=1

 while(($count < "7"))
 do
        sleep 1
        if [ -e "/var/run/squid-ntlm.pid" ]
        then
        printf "Fake-Auth Squid is already started\n";

        exit 1
        fi
        printf "."
        count=$[$count+1]
 done

printf "\nFake-Auth squid failed\n";

fi

}

stop () {

if [ ! -e "/var/run/squid.pid" ]       # Check if file exists.
then
printf "Squid isn't running???\n";
fi

if [ -e "/var/run/squid.pid" ]       # Check if file exists.
then
service squid stop
printf "Squid is stopping\n";
fi

if [ ! -e "/var/run/dansguardian.pid" ]       # Check if file exists.
then
printf "Dansguardian  isn't running???\n";
fi

if [ -e "/var/run/dansguardian.pid" ]       # Check if file exists.
then
/etc/init.d/dansguardian stop
#dansguardian -q
rm -rf /var/run/dansguardian.pid
printf "Dansguardian  is stopping\n";
fi
```

```
if [ ! -e "/var/run/squid-ntlm.pid" ]       # Check if file exists.
then
printf "Squid isn't running???\n";
fi

if [ -e "/var/run/squid-ntlm.pid" ]       # Check if file exists.
then
killall -9 squid-ntlm
rm -rf /var/run/squid-ntlm.pid
printf "Fake-Auth Squid is stopping\n";
fi

}

status() {

if [ ! -e "/var/run/squid-ntlm.pid" ]       # Check if file exists.
then
printf "Fake-Auth Squid stopped\n";
fi

if [ -e "/var/run/squid-ntlm.pid" ]       # Check if file exists.
then
printf "Fake-Auth Squid is running...\n";
fi

if [ ! -e "/var/run/dansguardian.pid" ]       # Check if file exists.
then
printf "Dansguardian stopped\n";
fi

if [ -e "/var/run/dansguardian.pid" ]       # Check if file exists.
then
printf "Dansguardian is running...\n";
fi

if [ ! -e "/var/run/squid.pid" ]       # Check if file exists.
then
printf "Squid stopped\n";
fi

if [ -e "/var/run/squid.pid" ]       # Check if file exists.
then
printf "Squid is running...\n";
fi
```

```
}

restart () {
stop
start
}

case $1 in
        start)
                start
        ;;
        stop)
                stop
        ;;
        restart)
                restart
        ;;
        status)
                status $DAEMON
        ;;
        *)

        echo $"Usage: $prog {start|stop|status}"
        exit 1
esac

exit $RETVAL
```