The Version of Ubuntu in this KM is Ubuntu-11.04-desktop-i386

The DFL FW is v2.40.00.10

[Test Topology]

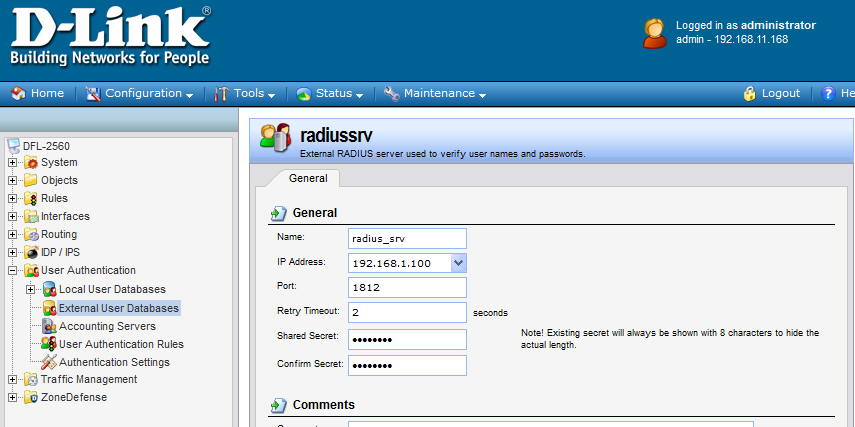
PC1(192.168.1.100)------(L1:192.168.1.1/24)DFL-2560(W1:PPPoE)------Internet

PC2(192.168.1.66)-------/

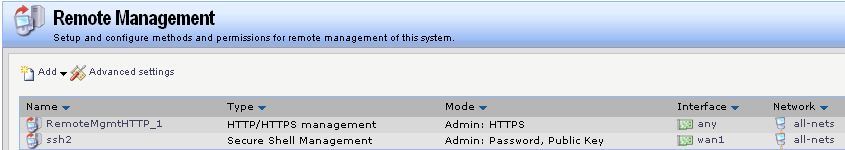
PC1 is the Radius server; PC2 is the End User  
The MAC address of PC2 is 00-21-70-b5-ee-92

The settings of DFL-2560

Setup DFL-Firewall RADIUS Server, the shared secret is “dlink”

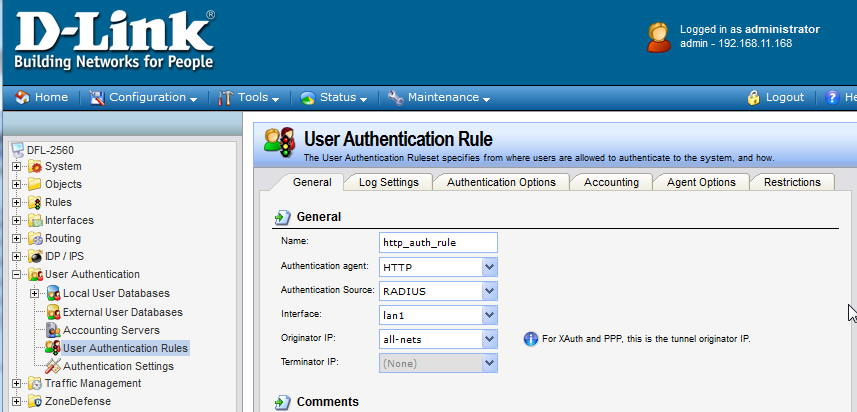


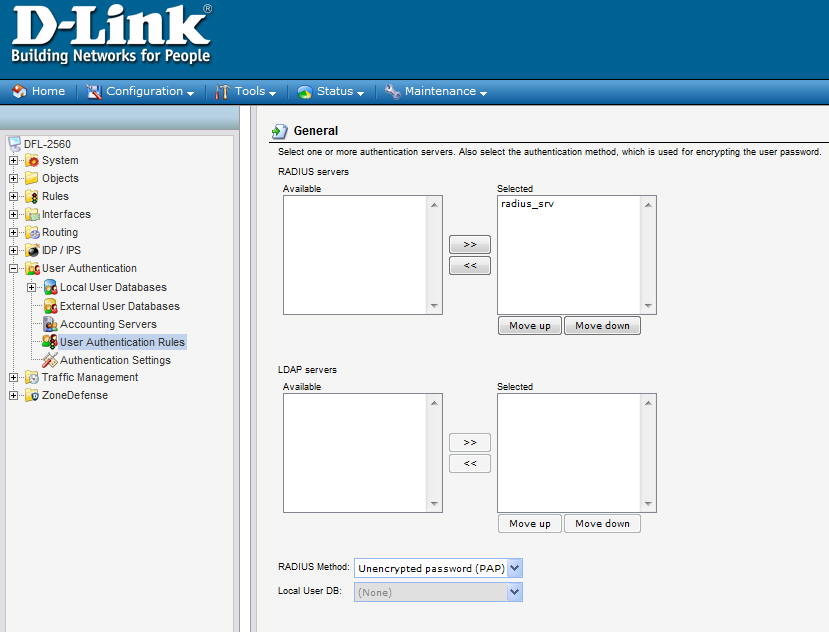
Setup the WebUI before rule and change the http port to 8080



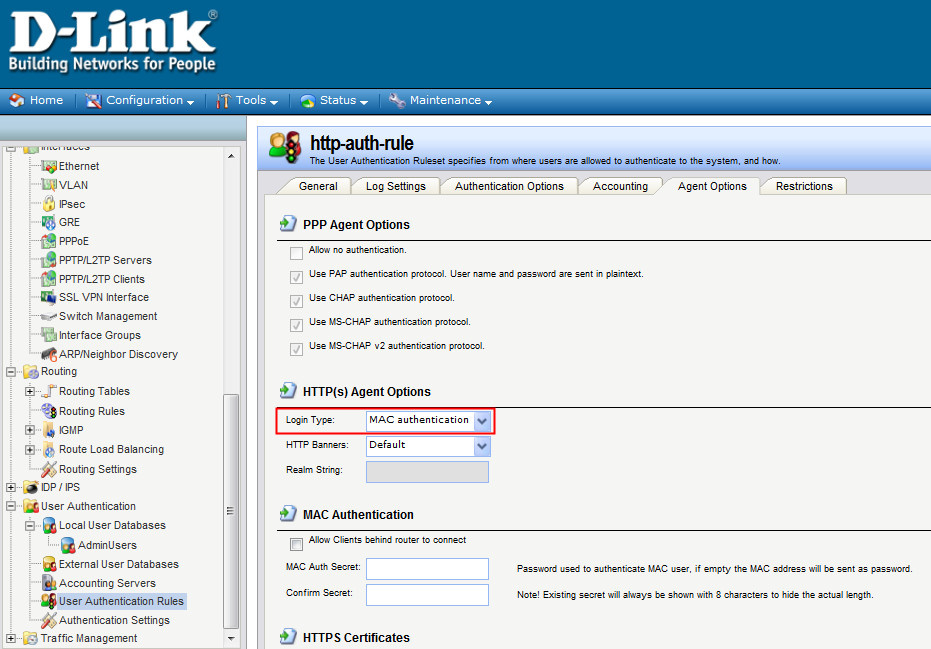


Setup DFL Firewall User Authentication Rule

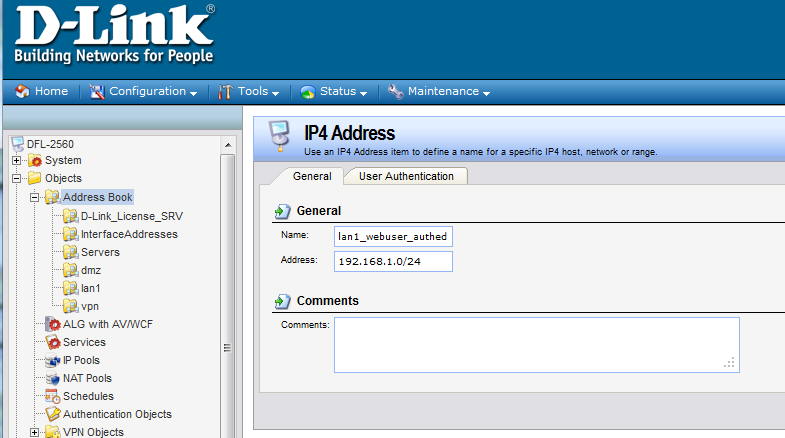




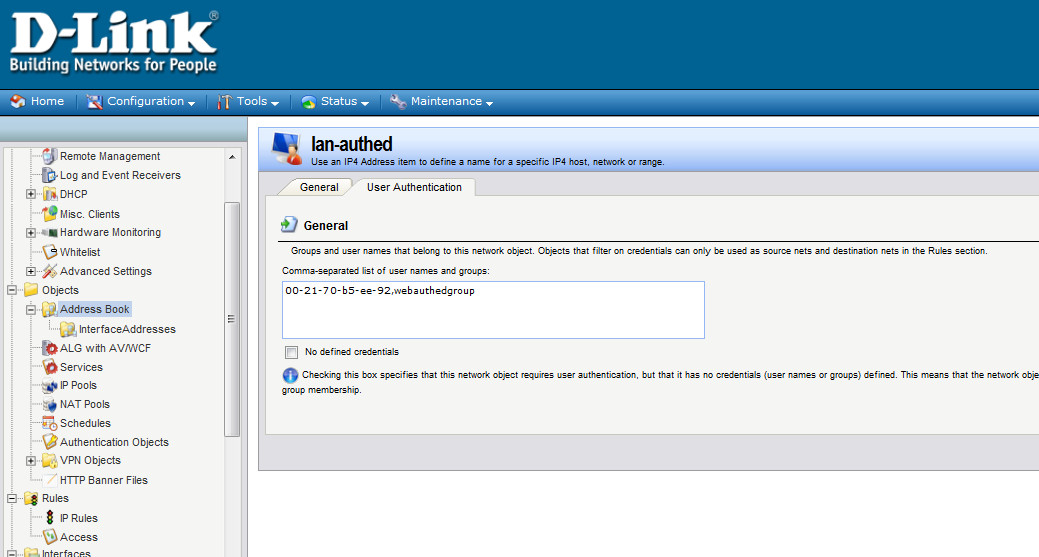
Select “MAC authentication” as the Login Type



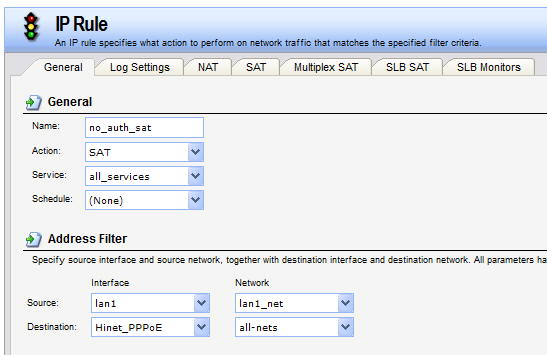
Add an IPv4 address object for authenticated users

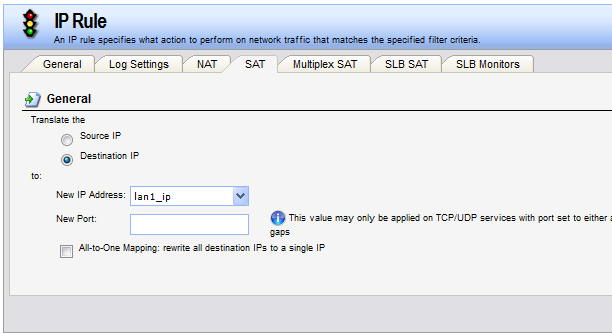


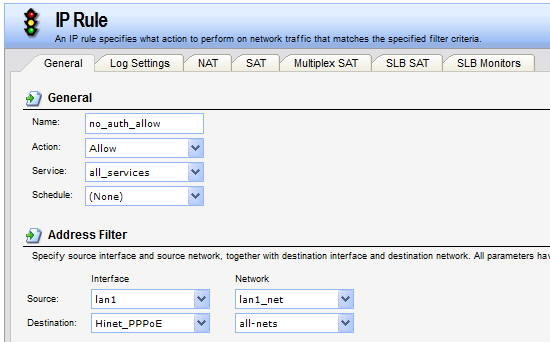
The authed user is “00-21-70-b5-ee-92”, or the authed group is “webauthedgroup”.

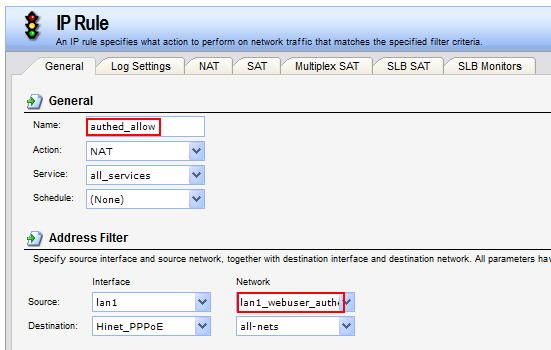


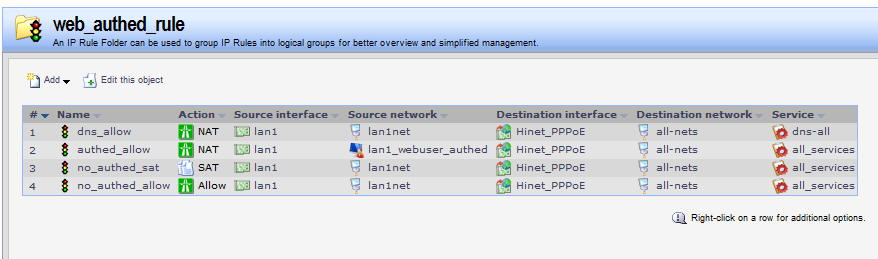
Setup the required IP Rules











The settings of the Radius Server

**Install the freeradius**

#apt-get install freeradius

**Setup the information of radius client(DFL-2560)**

#vi /etc/freeradius/clients.conf

client 192.168.1.1 {

secret = dlink

shortname = private-network-test

**Setup the group information**

#vi /usr/share/freeradius/dictionary.dlink

##########################

VENDOR D-Link 5089

ATTRIBUTE D-Link-User-Group 1 string D-Link

##########################

#vi /usr/share/freeradius/dictionary

$INCLUDE dictionary.dlink

**Setup the user account and password**

/etc/freeradius/users

00-21-70-b5-ee-92 Cleartext-Password := " 00-21-70-b5-ee-92"

D-Link-User-Group = "webauthedgroup"

Note : the user name and password is PC2’s MAC address.

#/etc/init.d/freeradius stop

#/etc/init.d/freeradius start

#/etc/init.d/freeradius restart

or

#freeradius -X -i [ip address] -p 1812

End of this document