

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

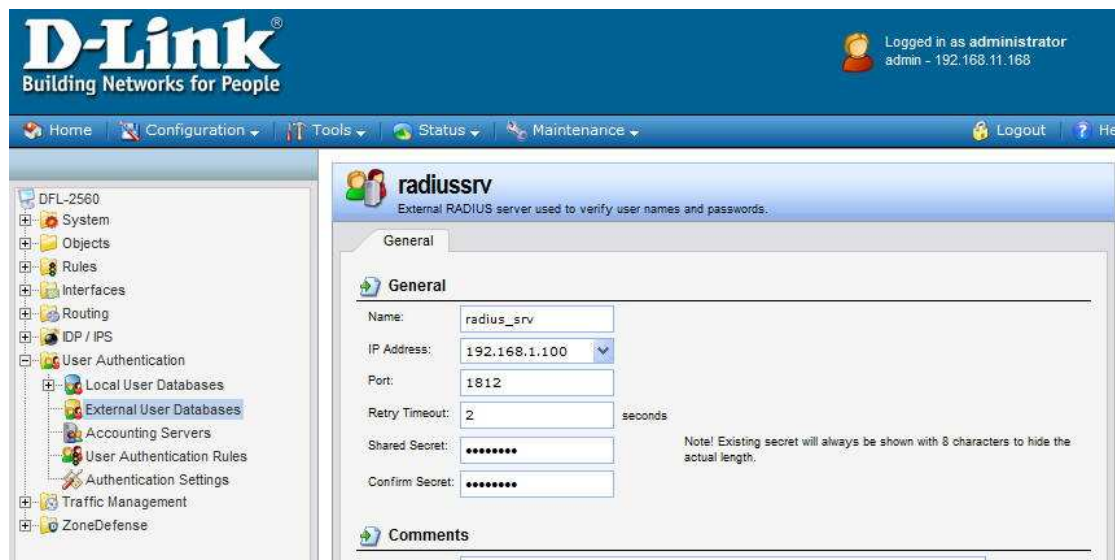
PC2(192.168.1.66)-----/

PC1 is the Radius server; PC2 is the End User

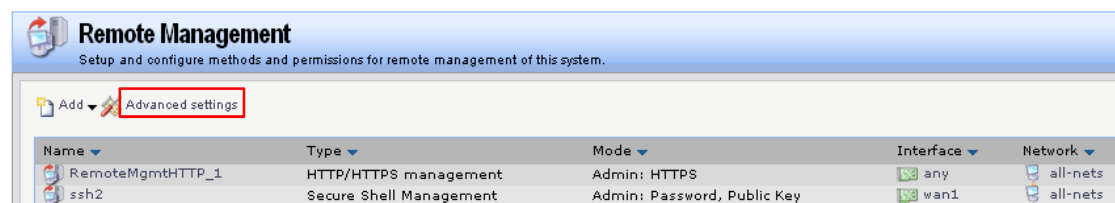
The MAC address of PC2 is 00-21-70-b5-ee-92

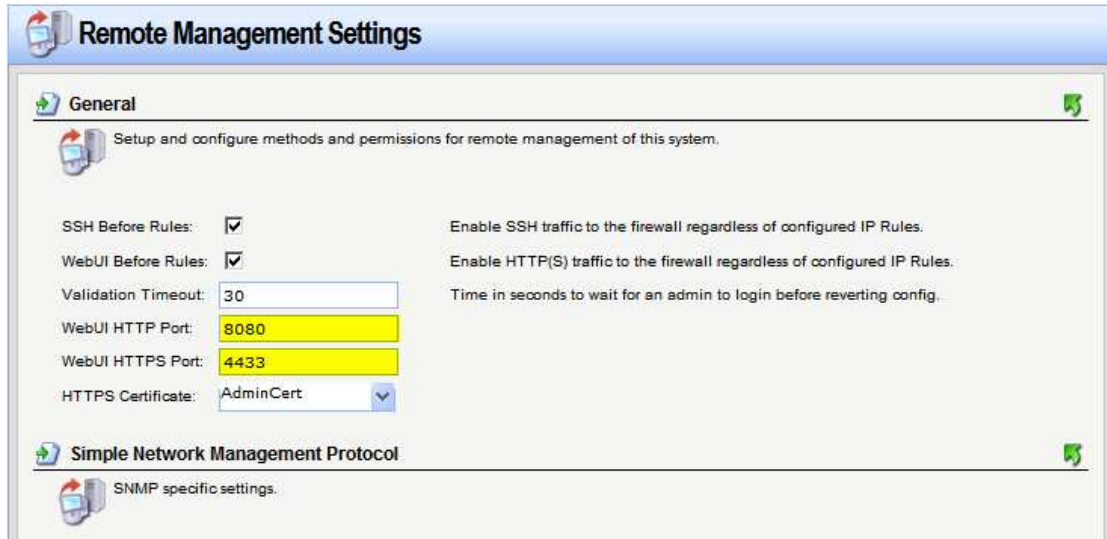
The settings of DFL-2560

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



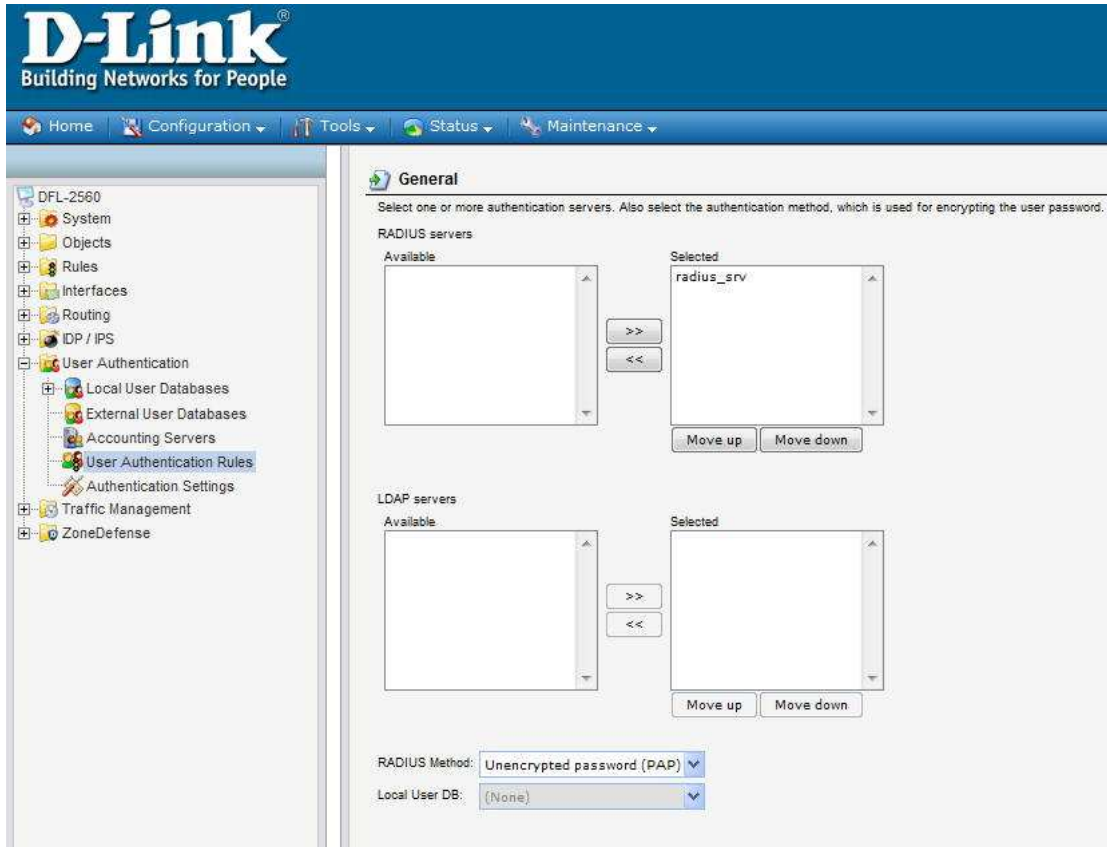
Setup the WebUI before rule and change the http port to 8080



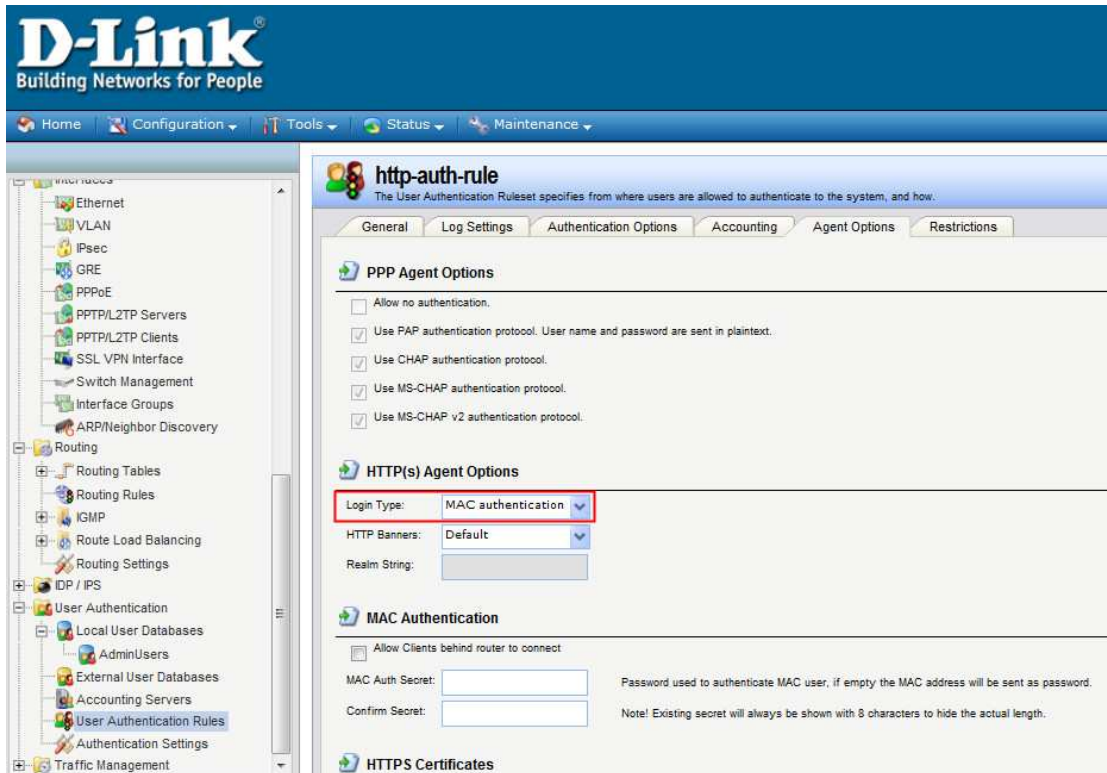


Setup DFL Firewall User Authentication Rule





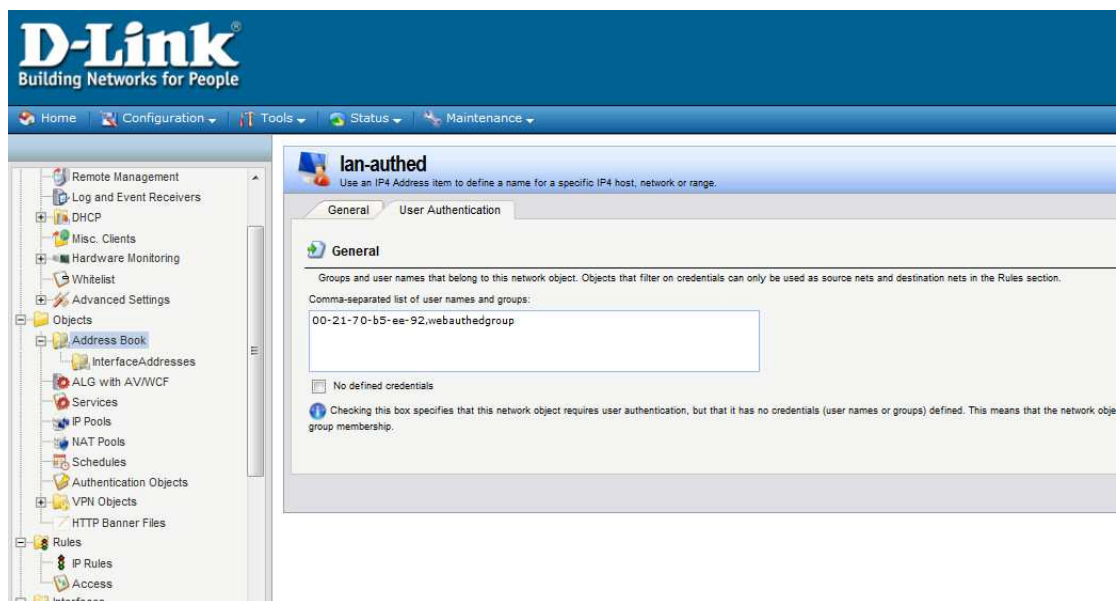
Select "MAC authentication" as the Login Type



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

IP Rule
An IP rule specifies what action to perform on network traffic that matches the specified filter criteria.

General Log Settings NAT SAT Multiplex SAT SLB SAT SLB Monitors

General

Name: no_auth_sat

Action: SAT

Service: all_services

Schedule: (None)

Address Filter

Specify source interface and source network, together with destination interface and destination network. All parameters have a default value.

Source: Interface: lan1 Network: lan1_net

Destination: Hinet_PPPE

IP Rule
An IP rule specifies what action to perform on network traffic that matches the specified filter criteria.

General Log Settings NAT SAT Multiplex SAT SLB SAT SLB Monitors

General

Translate the

Source IP

Destination IP

to:

New IP Address: lan1_ip

New Port:

All-to-One Mapping: rewrite all destination IPs to a single IP

This value may only be applied on TCP/UDP services with port set to either 0 or 0-65535

IP Rule
An IP rule specifies what action to perform on network traffic that matches the specified filter criteria.

General Log Settings NAT SAT Multiplex SAT SLB SAT SLB Monitors

General

Name: no_auth_allow

Action: Allow

Service: all_services

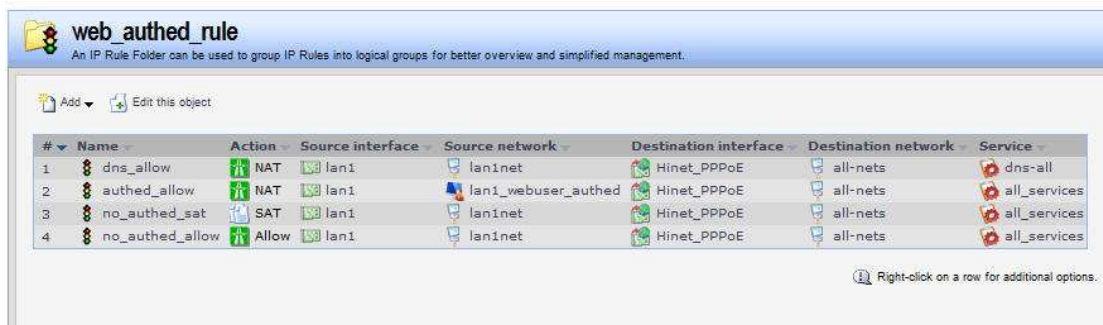
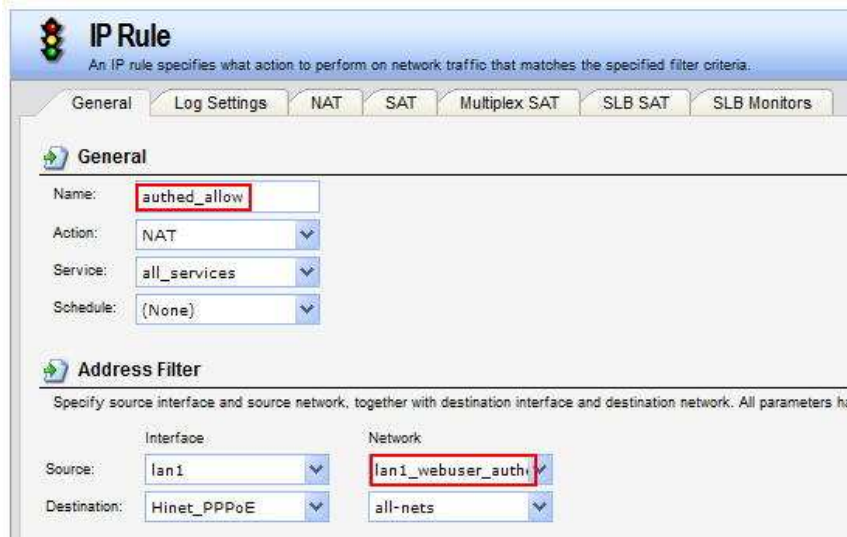
Schedule: (None)

Address Filter

Specify source interface and source network, together with destination interface and destination network. All parameters have a default value.

Source: Interface: lan1 Network: lan1_net

Destination: Hinet_PPPE



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