Practical Exercise Overview

- Build and install FreeRADIUS
- Configure and start FreeRADIUS with LDAP database backend
- Test authentication using FreeRADIUS

FreeRadius Installation & Configuration

- Install FreeRadius with the following commands as below.
- apt-get install freeradius freeradius-ldap –y
- vi /etc/freeradius/modules/ldap

```
server = "192.168.85.132"
identity = "cn=admin,dc=afnog,dc=org"
password = qwerty
basedn = "dc=afnog,dc=org"
filter = "(uid=%{%{Stripped-User-Name}:-%{User-Name}})"
```

FreeRadius Installation & Configuration Cont..

vi /etc/freeradius/sites-available/default and uncomment the lines as shown below



FreeRadius Installation & Configuration Cont..

vi /etc/freeradius/users



The above is to set the DEFAULT LDAP-GROUP to the users group containing our "Test User1" Account

FreeRadius Installation & Configuration Cont..

• vi /etc/freeradius/sites-available/inner-tunnel



service freeradius restart

// Restart the FreeRadius Service

Testing FreeRadius authentication against LDAP

• radtest tuser1 test1 127.0.0.1 0 testing123

Where Username = tuser1 Password = test1 Radius Secret = testing123 Also Note that we have a successful authentication as shown in diagram above with radius packet in yellow colors

Securing FreeRadius

vi /etc/freeradius/clients.conf

The default secret below is only for testing, and should
not be used in any real environment.
#
secret = afnog

The Above is to change the Radius Secret from testing123 to afnog

service freeradius restart

//N.B: Restart Radius anytime there are changes done to the config

Securing FreeRadius Continue

Run the test as done earlier for the test account and this time round changing the secret to afnog

You should get an Access-Accept packet which shows Radius password has been changed.