

# Setting up the eduroam server

## Steps For Configure Freeradius 3 with LDAP

Install FreeRADIUS V3 and configure Radius authorization via LDAP in CentOS 7.

STEP - 1:- Install FreeRADIUS with the necessary modules:

```
# yum install freeradius freeradius-utils freeradius-ldap freeradius-krb5
```

STEP - 2 :- Let's add LDAP to the list of active modules:

```
# ln -s /etc/raddb/mods-available/ldap /etc/raddb/mods-enabled/
```

STEP - 3:- Describe our network in the `/etc/raddb/clients.conf` file:

```
# client IP {  
    shortname      = Your VPN  
    secret         = testing123  
    nas_type       = other.  
}
```

STEP - 4 :- In the `/etc/raddb/sites-enabled/default` and `/etc/raddb/sites-enabled/inner-tunnel` files, enable LDAP support. To do this, replace:

```
# The ldap module reads passwords from the LDAP database.
```

```
-ldap
```

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### STEP - 5 :- on

```
# The ldap module reads passwords from the LDAP database.
ldap
if ((ok || updated) && User-Password) {
    update {
        control:Auth-Type := ldap
    }
}
```

### STEP- 6 :- as well as this part:...

```
# Auth-Type LDAP {
#     ldap
# }
```

change to:

```
Auth-Type LDAP {
    ldap
}
```

### STEP - 7 :- Enter the connection settings to the LDAP server in the file / etc / raddb / mods-enable / ldap

```
server = "ldap.network.noc"
```

```
base_dn = "dc=network,dc=noc"
```

### STEP - 8 :- ldap\_server\_ip\_registers .

If LDAP is listening on another port, then we also write:

```
port = 389
```

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**STEP - 9 :-** After that, you can run the FreeRADIUS server in debug mode:

```
# radiusd -X
```

**STEP - 10 :-** for more detailed debugging:

```
# radius -XXX
```

**STEP - 11 :-** At us in LDAP the user DN should be got: uid = testuser, ou = People, dc = network, dc = noc with attribute userPassword in PosixAccount.

We make a test request to our FreeRADIUS server from another console:

```
# radtest testuser password localhost 2 testing123
```

**STEP - 12 :-** In case of successful authorization:

```
Sending Access-Request Id 169 from 10.10.10.244:40186 to 10.10.10.244:1812
```

```
  User-Name = 'testuser'
```

```
  User-Password = 'password'
```

```
  NAS-IP-Address = 10.10.10.244
```

```
  NAS-Port = 2
```

```
  Message-Authenticator = 0x00
```

```
Received Access-Accept Id 169 from 10.10.10.244:1812 to 10.10.10.244:40186 length 20
```

**STEP - 13 :-** In case of unsuccessful authorization:

```
Sending Access-Request Id 208 from 10.10.10.244:38401 to 10.10.10.244:1812
```

```
  User-Name = 'testuser'
```

```
  User-Password = 'wrongpassword'
```

```
  NAS-IP-Address = 10.10.10.244
```

```
  NAS-Port = 2
```

```
  Message-Authenticator = 0x00
```

```
Received Access-Reject Id 208 from 10.10.10.244:1812 to 10.10.10.244:38401 length 20
```

**(0) :- Expected Access-Accept got Access-Reject**

**STEP - 14 :-** If everything works, then add the FreeRADIUS service to the autorun:

```
# systemctl enable radius
```

```
# systemctl start radiusd.service
```