

L2TP/IPSec on CentOS 6.3 Server

```
wget http://dl.fedoraproject.org/pub/epel/6/i386/epel-release-6-7.noarch.rpm
rpm -Uvh http://dl.fedoraproject.org/pub/epel/6/x86_64/epel-release-6-8.noarch.rpm
yum check-update
yum install ppp xl2tpd
rpm -ivH http://repo.nikoforge.org/redhat/el6/nikoforge-release-latest
yum check-update
yum -y install ipsec-tools
cd /etc/racoon/
vi init.sh
<-- start of file -->
#!/bin/sh
# set security policies
echo -e "flush;\n\
        spdflush;\n\
        spdadd 0.0.0.0/0[0] 0.0.0.0/0[1701] udp -P in ipsec esp/transport//require;\n\
        spdadd 0.0.0.0/0[1701] 0.0.0.0/0[0] udp -P out ipsec esp/transport//require;\n\
        | setkey -c
# enable IP forwarding
echo 1 > /proc/sys/net/ipv4/ip_forward
<-- EOF -->

chmod 750 /etc/racoon/init.sh
echo "/etc/racoon/init.sh" >> /etc/rc.d/rc.local

cd /etc/racoon/

vi racoon.conf
<-- start of file -->

path include "/etc/racoon";
path pre_shared_key "/etc/racoon/psk.txt";
path certificate "/etc/racoon/certs";
path script "/etc/racoon/scripts";

padding {
    maximum_length 20;    # maximum padding length.
    randomize off;       # enable randomize length.
    strict_check off;    # enable strict check.
    exclusive_tail off;  # extract last one octet.
}
remote anonymous
{
    exchange_mode aggressive,main;
    passive on;
    proposal_check obey;
    support_proxy on;
    nat_traversal on;
```

```
ike_frag    on;
dpd_delay   20;
    generate_policy off;
    verify_cert off;
proposal
{
    encryption_algorithm aes;
    hash_algorithm      sha1;
    authentication_method pre_shared_key;
    dh_group            modp1024;
}
proposal
{
    encryption_algorithm 3des;
    hash_algorithm      sha1;
    authentication_method pre_shared_key;
    dh_group            modp1024;
}
proposal
{
    encryption_algorithm 3des;
    hash_algorithm      md5;
    authentication_method pre_shared_key;
    dh_group            modp1024;
}
}
sainfo anonymous
{
    lifetime time 1 hour;
    encryption_algorithm aes,3des;
    authentication_algorithm hmac_sha1,hmac_md5;
    compression_algorithm deflate;
    pfs_group            modp1024;
}
<-- EOF -->
```

```
vi psk.txt
<-- start of file -->
*      MYPRESHAREKEY
<-- EOF -->
```

```
cd /etc/xl2tpd
vi xl2tpd.conf
<-- start of file -->
[global]
force userspace = yes
[lns default]
local ip = 10.203.123.200
ip range = 10.203.123.201-10.203.123.210
```

www.boornee.net

```
refuse pap = yes
refuse chap = yes
refuse authentication = yes
require authentication = no
ppp debug = yes
pppoptfile = /etc/ppp/options.xl2tpd
<-- EOF -->
```

```
cd /etc/ppp/
```

```
vi options.xl2tpd
<-- start of file -->
# not support BSD compression.
nobsdcomp
passive
lock
```

```
# Allow all usernames to connect.
name *
proxyarp
ipcp-accept-local
ipcp-accept-remote
lcp-echo-failure 10
lcp-echo-interval 5
nodeflate
```

```
# Do not authenticate incoming connections. This is handled by IPsec.
noauth
refuse-chap
refuse-mschap
refuse-mschap-v2
```

```
# Set the DNS servers the PPP clients will use.
ms-dns 8.8.8.8
ms-dns 8.8.4.4
```

```
mtu 1400
mru 1400
<-- EOF -->
```

```
vi chap-secrets
<-- start of file -->
# Secrets for authentication using CHAP
# client      server secret      IP addresses
vpncadmin    *      MYPASSWORD  *
```

```
chkconfig xl2tpd on
chkconfig racoon on
/etc/init.d/racoon start
/etc/init.d/xl2tpd start
```

www.boonmee.net