Mikrotik User Meeting
Colombo, June 5th 2017

L2TP/IPsec Configuration with RouterOS to work with Android

Rafi Naufal
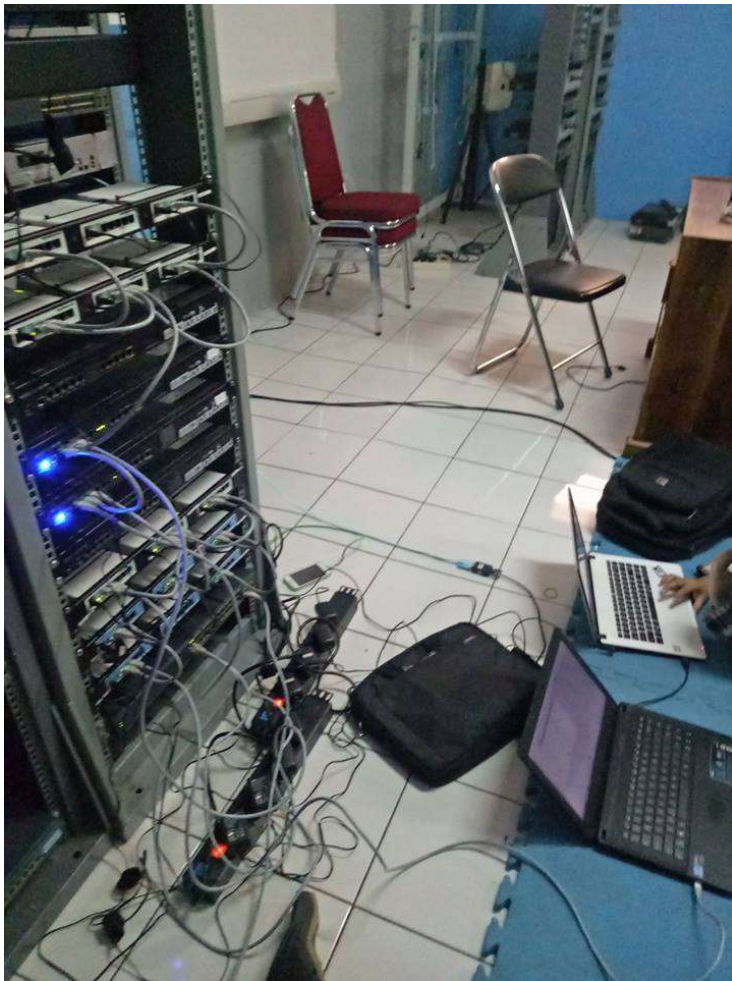
State Vocational High School 1

Indonesia

About Me

- Rafi Naufal
- State Vocational High School 1
- Pesantren Networkers
- MTCNA, MTCRE, MTCINE
- Mikrotik Certified Consultant
- Network Trainer at INTRA Training Centre

About State Vocational High School

Networking Class

RumahNgoprek

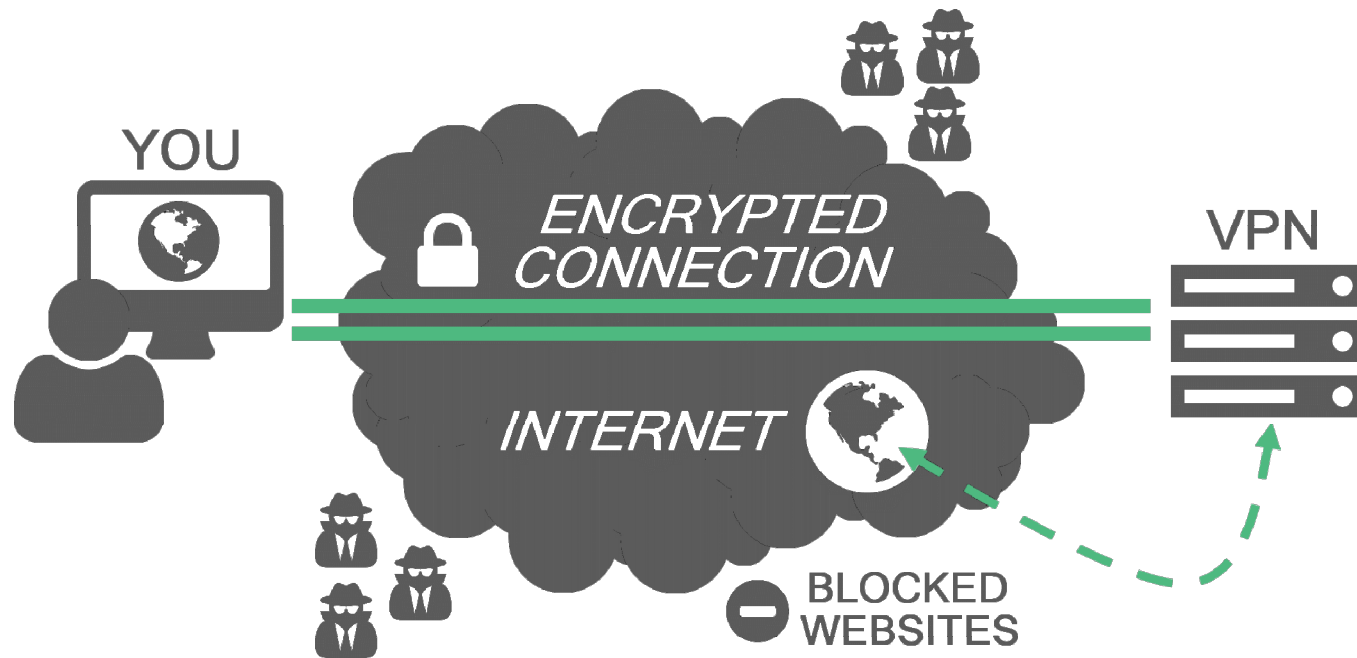# About Pesantren Networkers

What is Virtual Private Networking

What is VPN

Virtual Private Network is a network technology that allow you to make a secure private network in public network.

How VPN Work?

YOU

ENCRYPTED CONNECTION

INTERNET

VPN

BLOCKED WEBSITES

VPN will make their private network using Tunnel to communicate over Internet.

Advantage if we use VPN

- Your ISP didn't know what you get up to on the internet
- You appear to access the internet from the IP address of the VPN server
- Safe to use Public Wi-Fi Hotspot

Disadvantage if we use VPN

- Your internet will slow down

L2TP
Layer 2 Tunneling Protocol

What is L2TP?

Method that you can use to make a tunnel for your VPN

PPP   L2TP   IPSec
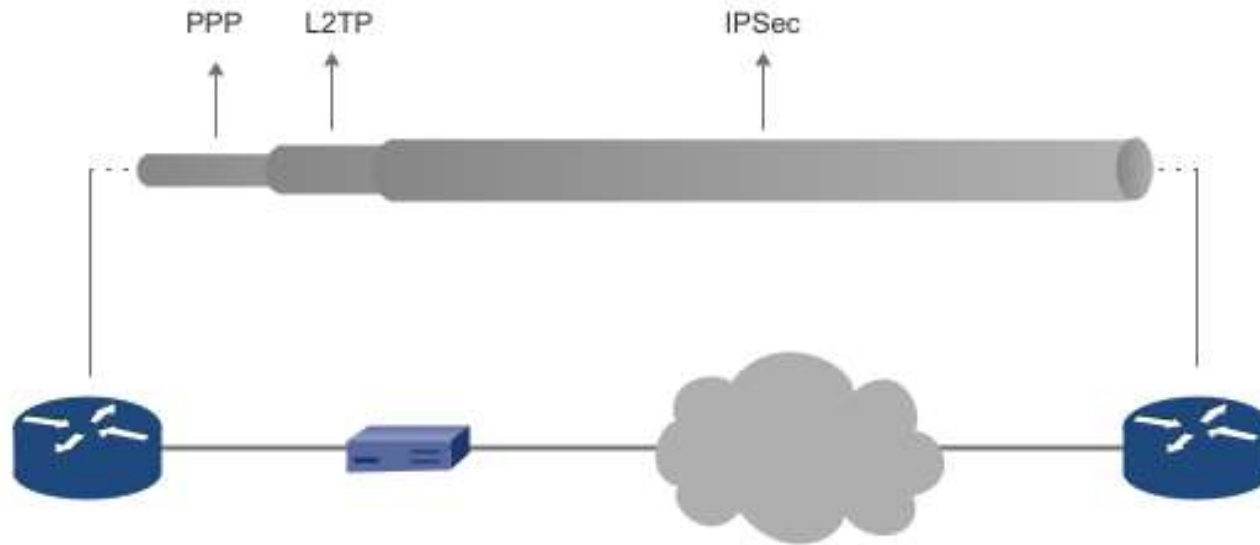
If PPP send from one site to other site, L2TP will encrypt to packet in L2TP Tunnel. And if we combine L2TP with IPsec, IPsec will encrypt L2TP Tunnel.

Configure Mikrotik as L2TP Server for Android Client

L2TP Configuration

PC-29
NETWORKERS
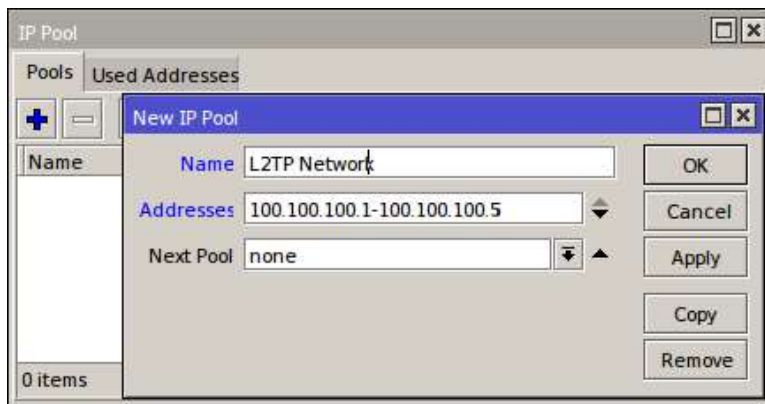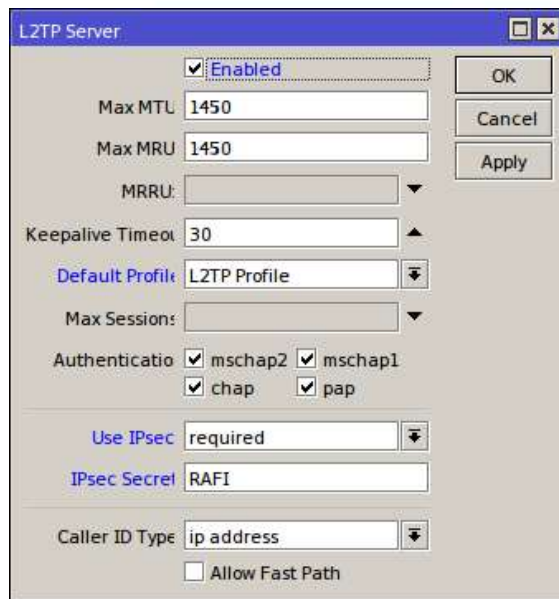
Make IP Pool for L2TP Network
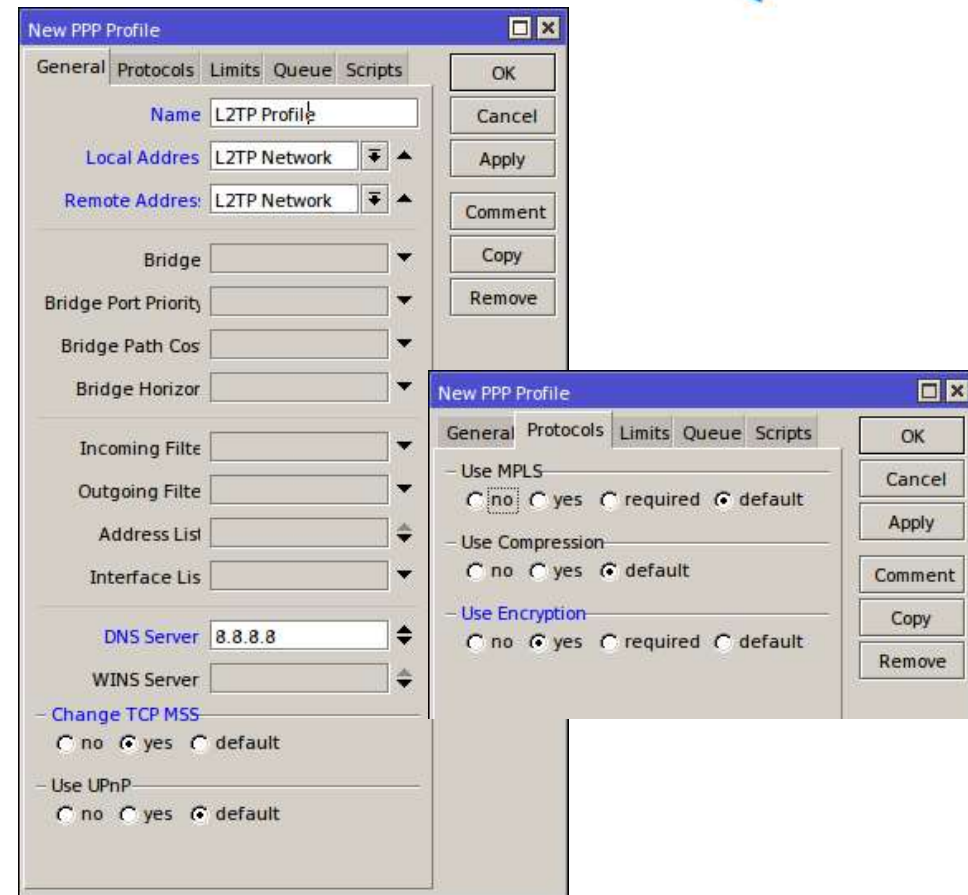
Make a new PPP Profile

L2TP Configuration
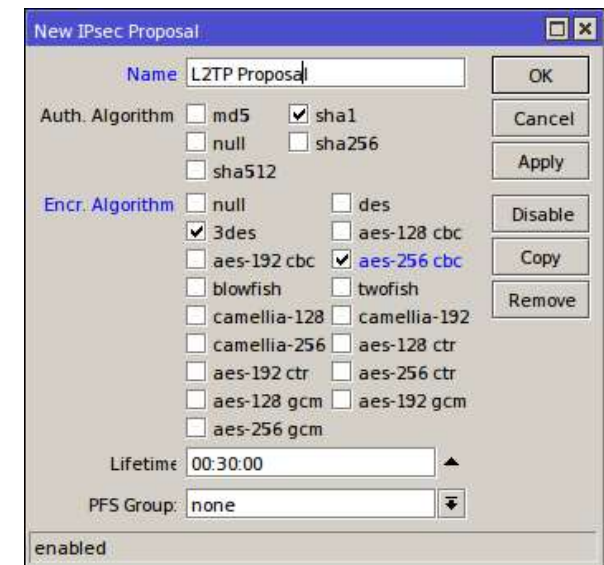
Enable L2TP Server

Make a new PPP Secret for
L2TP
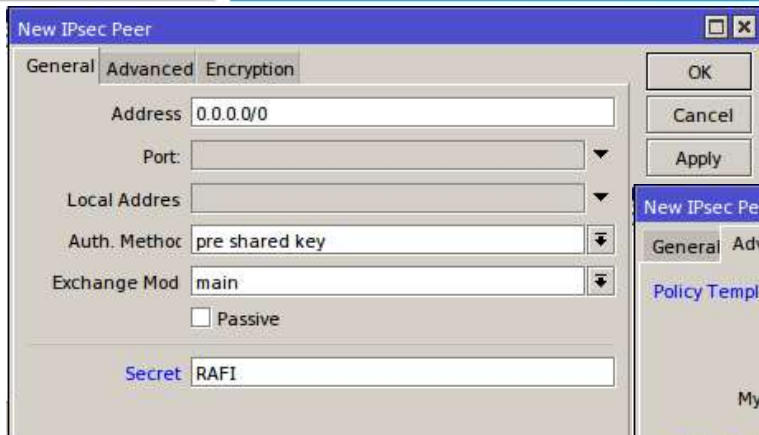
Make a new IPsec Proposal for
L2TP

Configure IPsec Peer
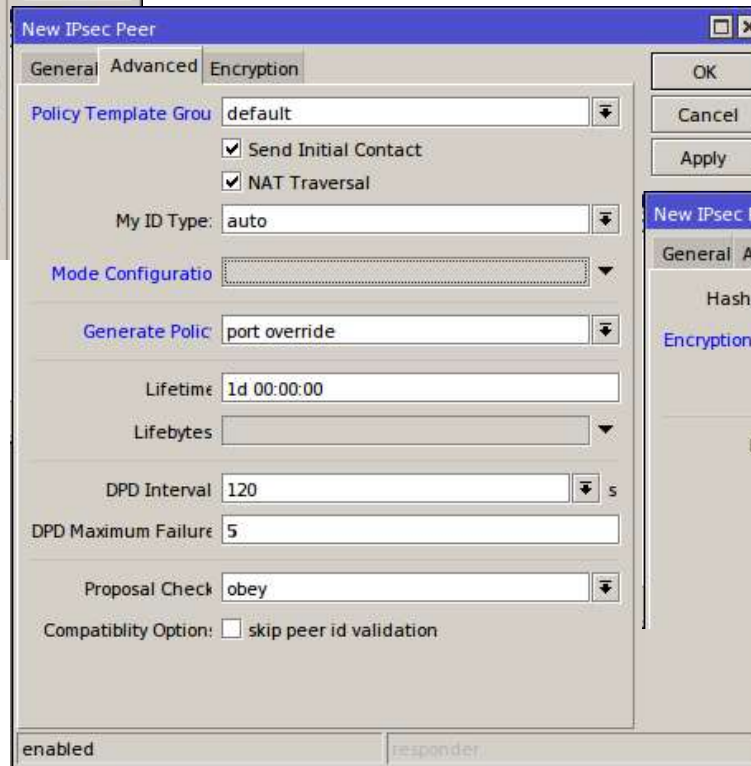
Define that everyone who know ipsec secret, will be connect to ipsec server.
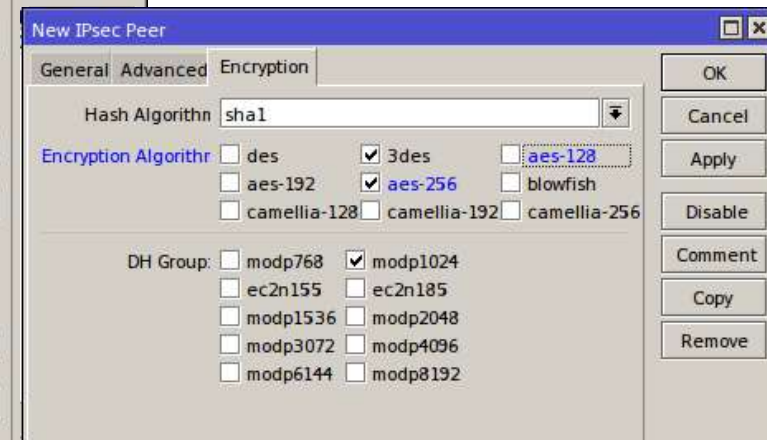
Configure what encryption algorithm will we use
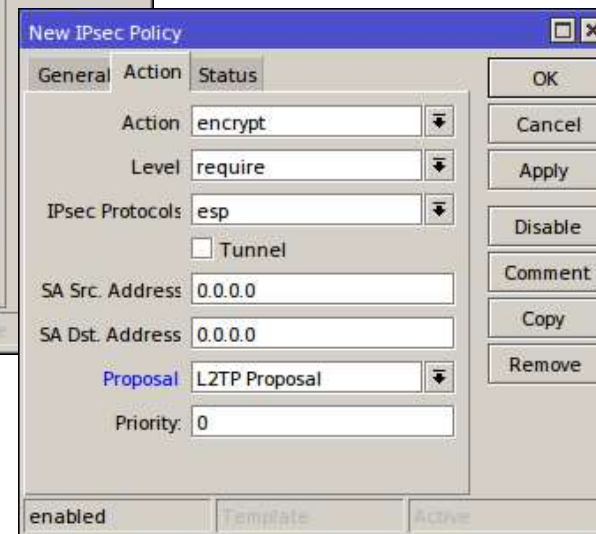
Configure Policy Template

Configure that all address is include.

Define what IPsec protocol will we use

Configure Android Phone

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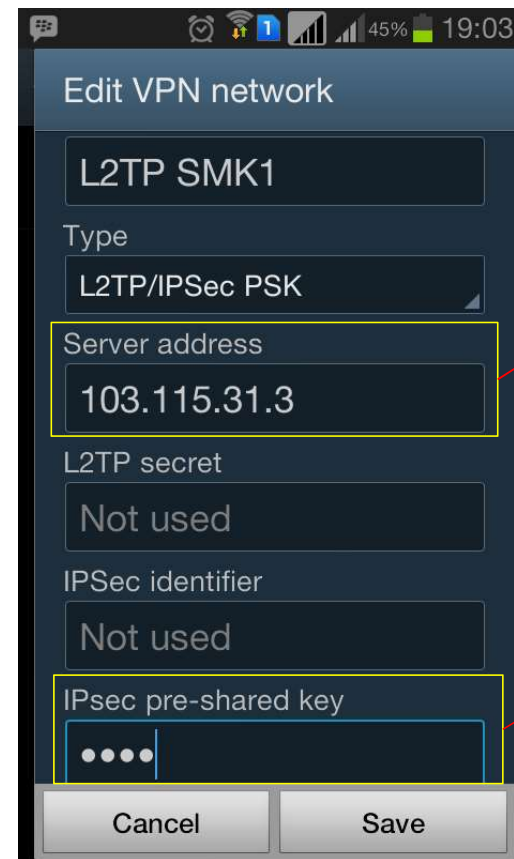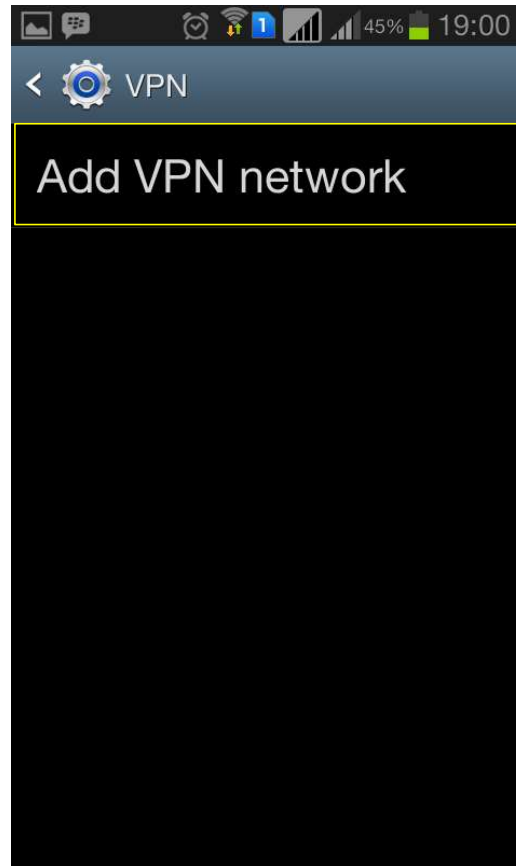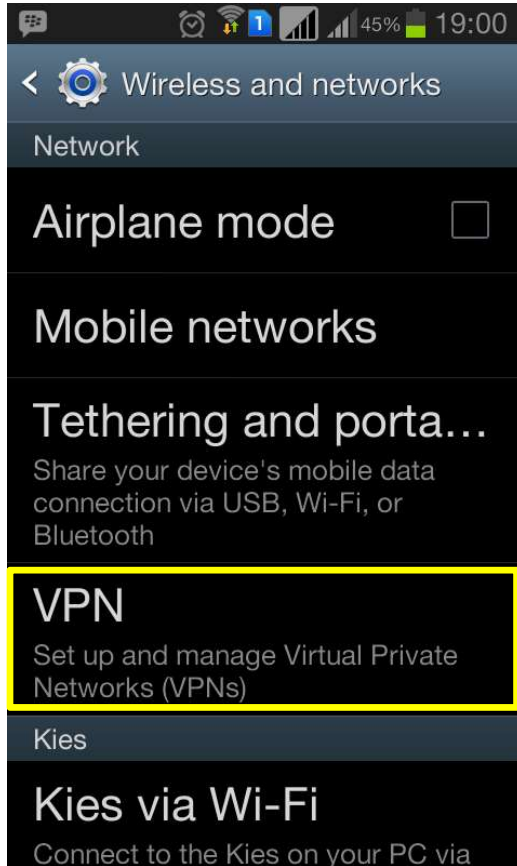
Server Address

Secret that we have configure on IPsec Peer

User and password that we have configure in PPP Secret

Verification

PPP

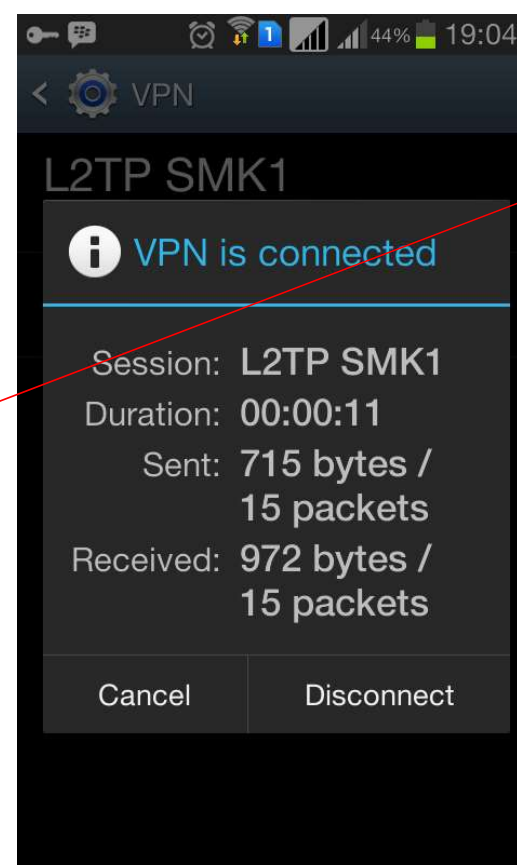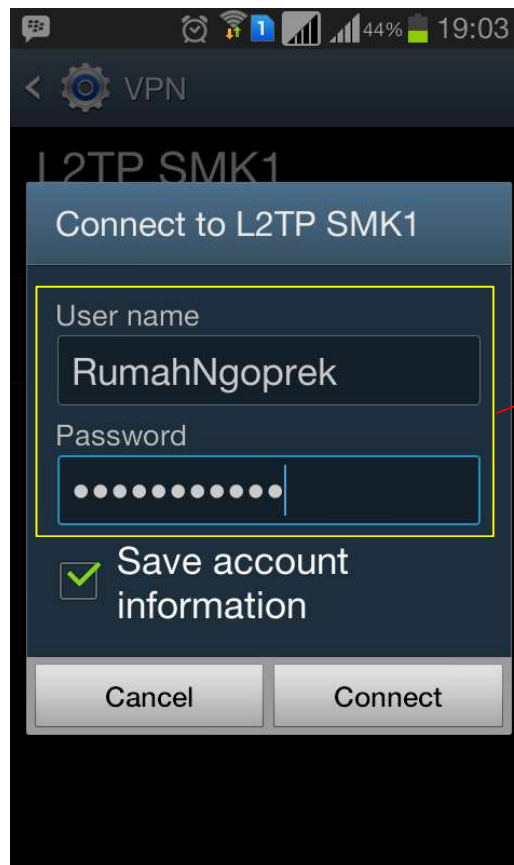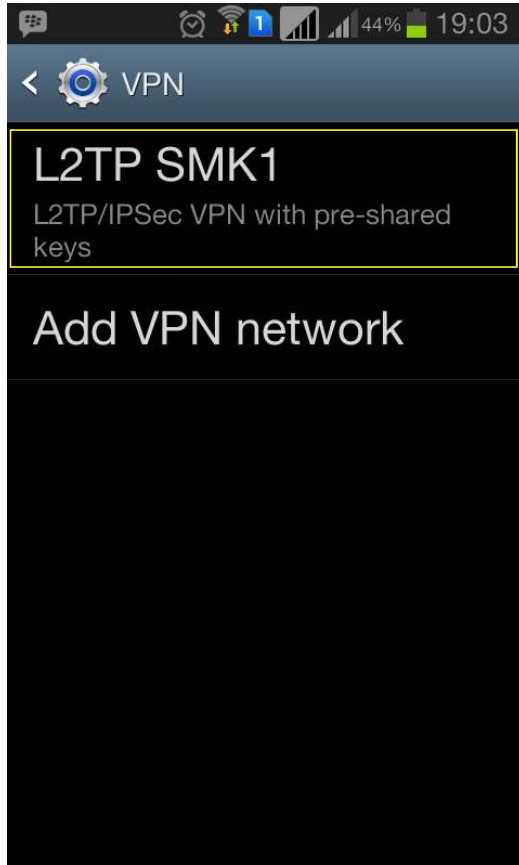|	Name	△	Service	Caller ID	Encoding	Address	Uptime
L	Rumah...		l2tp	103.115.31.2	cbc(aes...	100.100.100.3	00:04:23

Interface PPPoE Servers Secrets Profiles Active Connections L2TP Secrets

There is active connections in PPP

IPsec

Policies Groups Peers Remote Peers Mode Configs Proposals Installed SAs Keys Users

Kill Connections   Find

Local Address △	Remote Address
103.115.31.3	103.115.31.2

IPSec remote peers active

Address and user

Discuss about Network?

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Terima Kasih
Thank You
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