



Mikrotik User Meeting Colombo, June 5th 2017

L2TP/IPsec Configuration with RouterOS to work with Android

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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







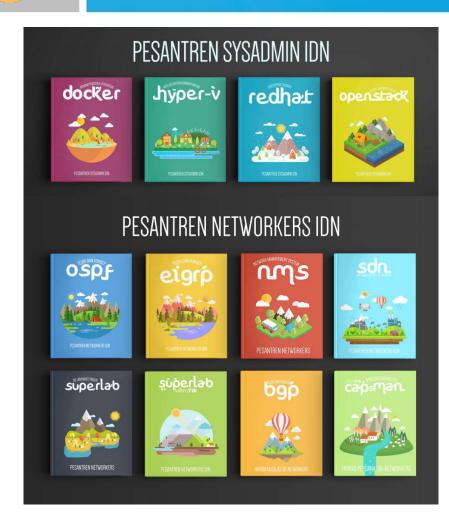
RumahNgoprek







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?



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



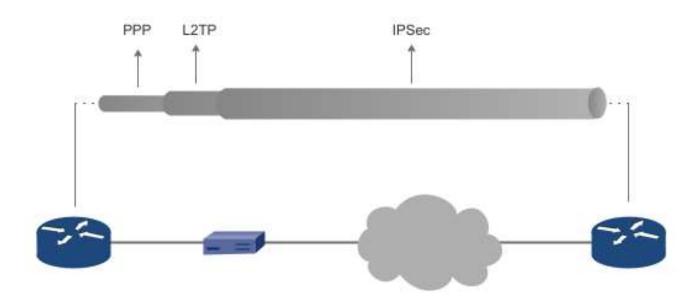
What is L2TP?



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



If L2TP Combine with IPSec

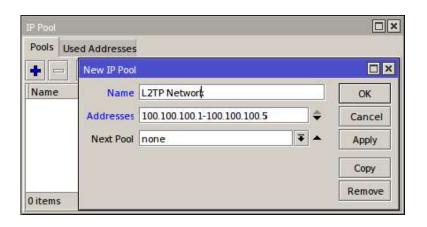


If PPP send from one site to other site, L2TP will encrypt to packet in L2TP Tunnel. And if we combine L2TP with IPsec, IPsec will encrypt L2TP Tunnel.

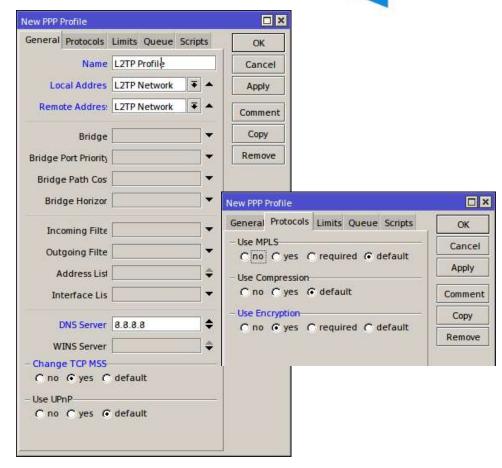
Configure Mikrotik as L2TP Server for Android Client



L2TP Configuration



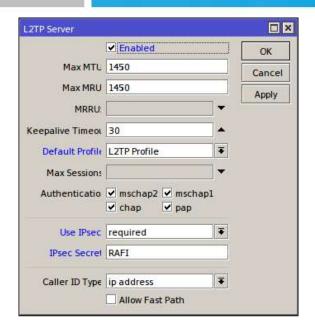
Make IP Pool for L2TP Network



Make a new PPP Profile



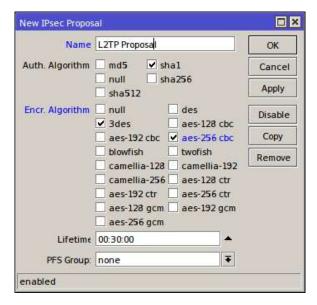
L2TP Configuration



Enable L2TP Server



Make a new PPP Secret for L2TP

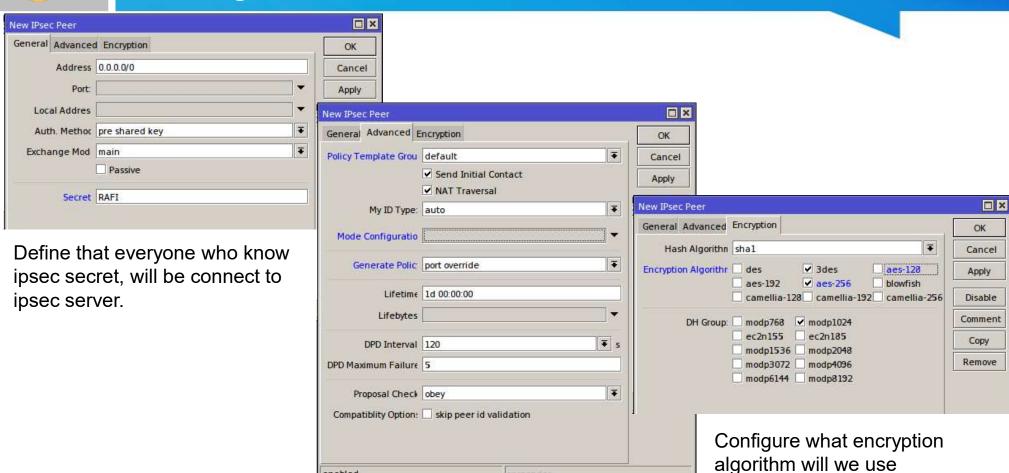


Make a new IPsec Proposal for L2TP



Configure IPsec Peer

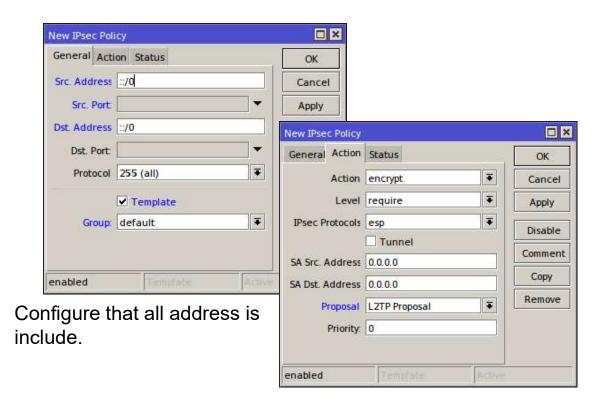
enabled



Configure Policy Template



Configure IPsec Policy

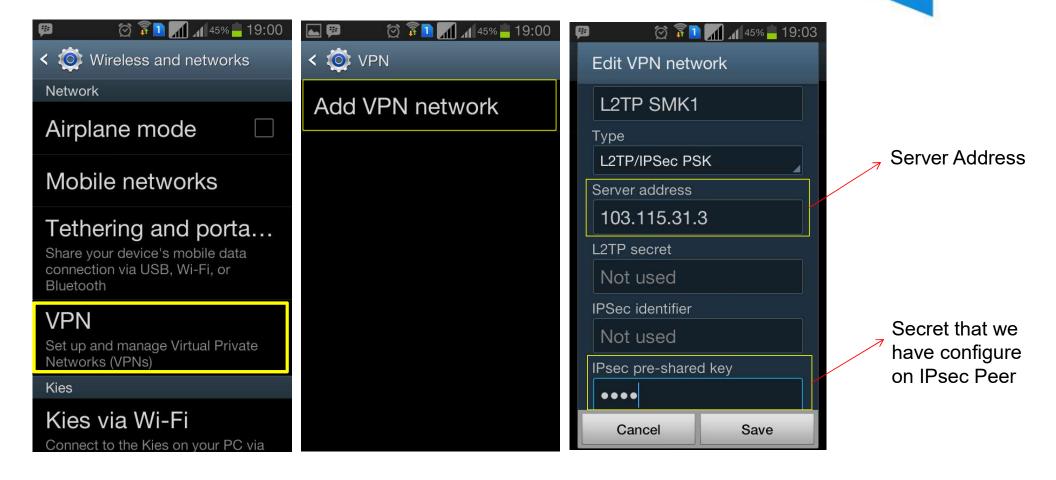


Define what IPsec protocol will we use

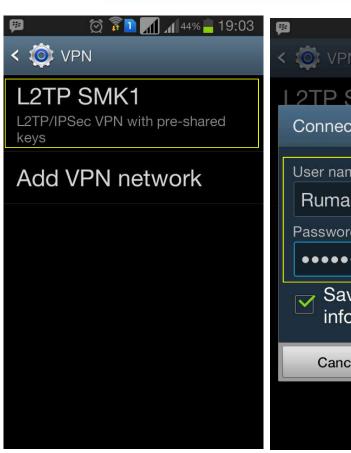
Configure Android Phone

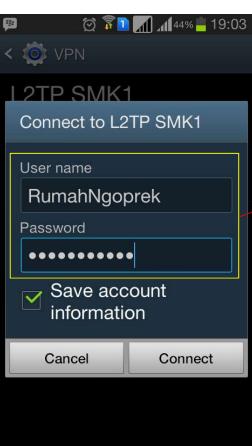


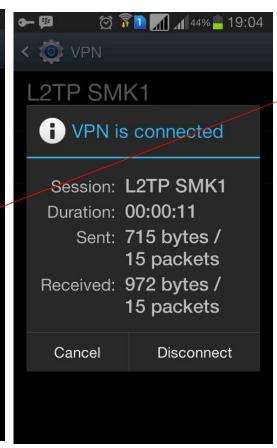
Configuration on Android Phone







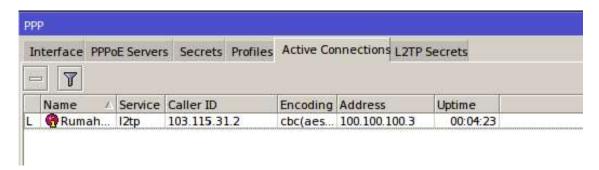




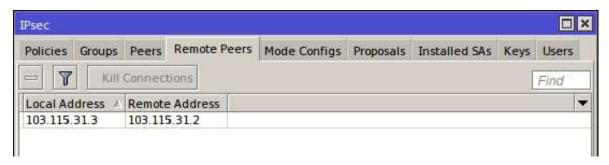
User and password that we have configure in PPP Secret



Verification



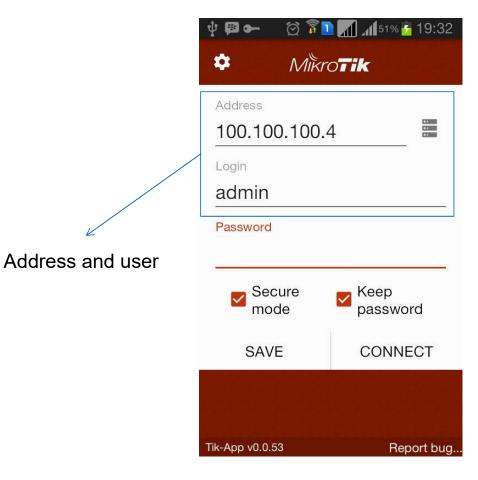
There is active connections in PPP

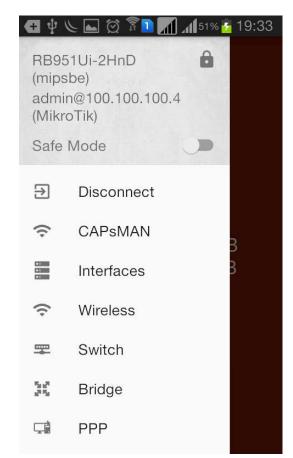


IPSec remote peers active

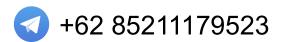


Verification





Discuss about Network?



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www.ngonfigterus.id

Terima Kasih Thank You ස්තූති