

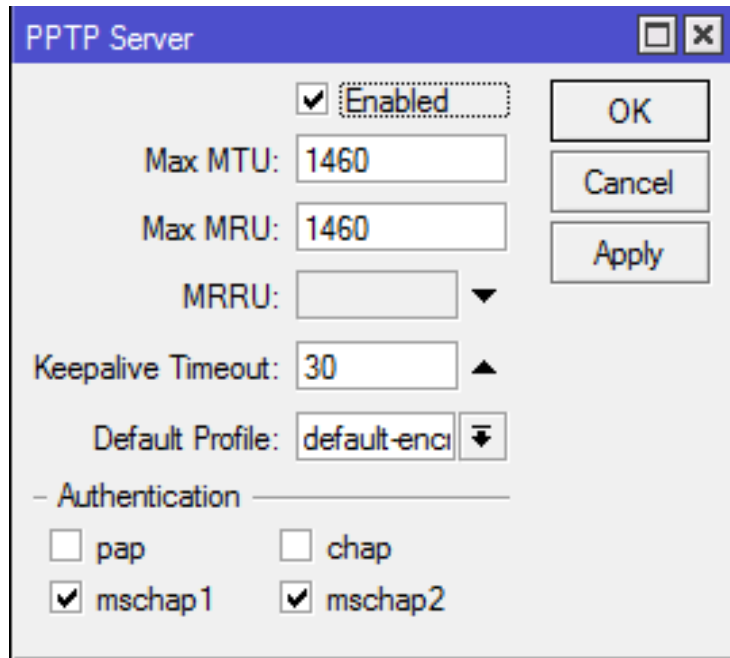
# LAMPIRAN



## KONFIGURASI VPN

### 1. VPN PPTP

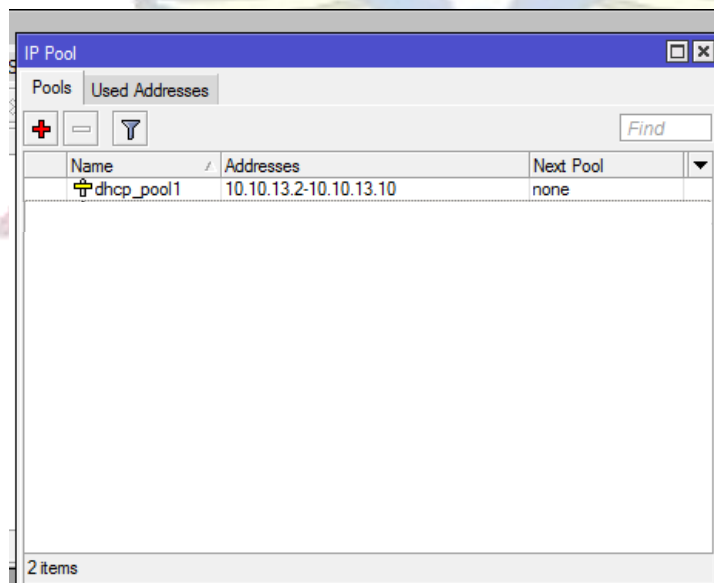
- *Enable PPTP Server*



The screenshot shows the 'PPTP Server' configuration dialog box. The 'Enabled' checkbox is checked. The 'Max MTU' and 'Max MRU' fields are both set to 1460. The 'MRRU' field is empty. The 'Keepalive Timeout' is set to 30. The 'Default Profile' is set to 'default-enc'. Under the 'Authentication' section, the 'mschap1' and 'mschap2' checkboxes are checked, while 'pap' and 'chap' are unchecked.

Field	Value
Enabled	<input checked="" type="checkbox"/>
Max MTU	1460
Max MRU	1460
MRRU	
Keepalive Timeout	30
Default Profile	default-enc
Authentication	
pap	<input type="checkbox"/>
chap	<input type="checkbox"/>
mschap1	<input checked="" type="checkbox"/>
mschap2	<input checked="" type="checkbox"/>

- *IP Pool*



The screenshot shows the 'IP Pool' configuration dialog box. The 'Pools' tab is selected. A table lists the IP pools. The first entry is 'dhcp\_pool1' with the address range '10.10.13.2-10.10.13.10' and 'none' as the next pool.

Name	Addresses	Next Pool
dhcp_pool1	10.10.13.2-10.10.13.10	none

- PPP Profiles

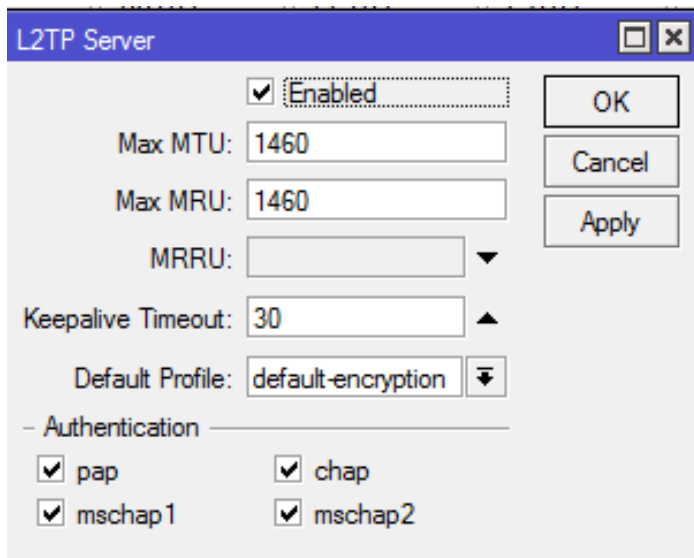
The screenshot shows the 'PPP Profile <profileptp>' configuration window. It has three tabs: 'General', 'Protocols', and 'Limits', with 'General' selected. The 'Name' field is 'profileptp'. 'Local Address' is '10.10.13.1' and 'Remote Address' is 'dhcp\_pool1'. There are fields for 'Bridge', 'Incoming Filter', 'Outgoing Filter', and 'Address List'. 'DNS Server' is set to '8.8.8.8' and '8.8.4.4'. 'WINS Server' is empty. A 'Change TCP MSS' section has radio buttons for 'default' (selected), 'no', and 'yes'. On the right, there are buttons for 'OK', 'Cancel', 'Apply', 'Comment', 'Copy', and 'Remove'.

- PPP Secrets

The screenshot shows the 'PPP Secret <userptp>' configuration window. The 'Name' field is 'userptp'. The 'Password' field is masked with '\*\*\*\*'. 'Service' is 'pptp' and 'Profile' is 'profileptp'. There are fields for 'Caller ID', 'Local Address', 'Remote Address', 'Routes', 'Limit Bytes In', and 'Limit Bytes Out'. At the bottom, the status is 'enabled'. On the right, there are buttons for 'OK', 'Cancel', 'Apply', 'Disable', 'Comment', 'Copy', and 'Remove'.

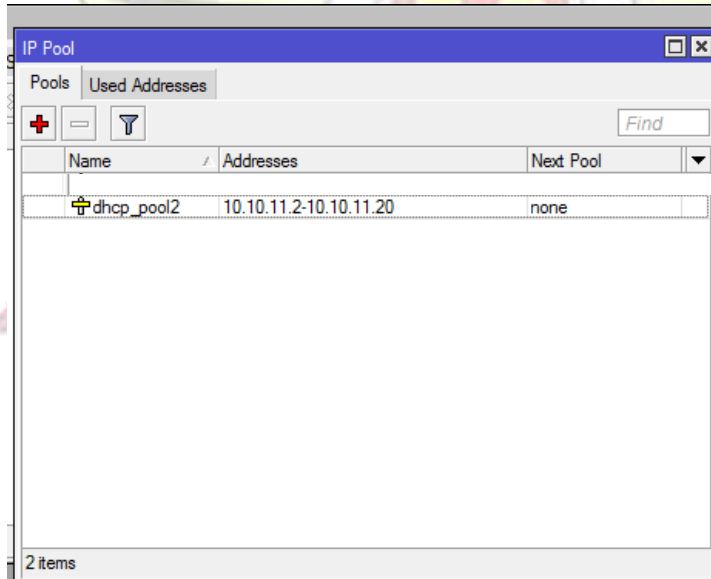
## 2. VPN L2TP

- *Enable L2TP Server*



The screenshot shows the 'L2TP Server' configuration window. The 'Enabled' checkbox is checked. The 'Max MTU' and 'Max MRU' fields are both set to 1460. The 'MRRU' field is empty. The 'Keepalive Timeout' is set to 30. The 'Default Profile' is set to 'default-encryption'. Under the 'Authentication' section, four checkboxes are checked: 'pap', 'chap', 'mschap1', and 'mschap2'. The 'OK', 'Cancel', and 'Apply' buttons are visible on the right side.

- *IP Pool*



The screenshot shows the 'IP Pool' configuration window. The 'Pools' tab is selected. The window contains a table with the following data:

Name	Addresses	Next Pool
dhcp_pool2	10.10.11.2-10.10.11.20	none

The status bar at the bottom indicates '2 items'.

- PPP Profiles

The screenshot shows the 'PPP Profile <profile2tp>' dialog box with the 'General' tab selected. The 'Name' field is 'profile2tp'. 'Local Address' is '10.10.11.1' and 'Remote Address' is 'dhcp\_pool2'. The 'Bridge' field is empty. 'Incoming Filter', 'Outgoing Filter', and 'Address List' are also empty. 'DNS Server' is set to '8.8.8.8' and '8.8.4.4'. 'WINS Server' is empty. The 'Change TCP MSS' section has 'default' selected. On the right, there are buttons for 'OK', 'Cancel', 'Apply', 'Comment', 'Copy', and 'Remove'.

- PPP Secrets

The screenshot shows the 'PPP Secret <user12tp>' dialog box. The 'Name' field is 'user12tp' and the 'Password' field is masked with '\*\*\*\*'. 'Service' is 'l2tp' and 'Profile' is 'profile2tp'. 'Local Address', 'Remote Address', 'Routes', 'Limit Bytes In', and 'Limit Bytes Out' are all empty. At the bottom, the status is 'enabled'. On the right, there are buttons for 'OK', 'Cancel', 'Apply', 'Disable', 'Comment', 'Copy', and 'Remove'.

### KARTU KONSULTASI

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Judul : Analisis Perbandingan Performa *Point To Point Tunneling Protocol* dan *Layer 2 Tunneling Protocol* Pada Jaringan VPN Menggunakan Mikrotik  
Dosen Pembimbing : Dian Novianto, M.Kom

No	Tanggal	Uraian	Paraf Pembimbing
1	21 Maret 2019	Konsultasi Judul	
2	28 Maret 2019	Konsultasi Bab I & Bab II	
3	08 April 2019	Revisi Bab I & Bab II	
4	23 April 2019	Konsultasi Bab III	
5	25 April 2019	Revisi Bab III	
6	24 Juni 2019	Konsultasi Bab IV & V	
7	25 Juni 2019	Revisi Bab IV & Bab V	
8	27 Juni 2019	Asistensi Finishing Laporan.	

Pangkalpinang, 27-6-2019

Mengetahui,

Pembimbing Skripsi



DIAN NOVIANTO, M.Kom

NIDN. 0209119001


**LEMBAR REVISI SIDANG PENDADARAN SKRIPSI**  
**S-/SAL/KA/17/VII/19**

Pada hari ini, Senin Tanggal **01-07-19** telah dilaksanakan Ujian Sidang Pendadaran Skripsi, sebagai berikut :


Judul : "Analisis Perbandingan Performa Point to Point Tunneling Protocol dan Layer 2 Tunneling Protocol pada Jaringan VPN Menggunakan Mikrotik"

Nama : **Alfian Teguh Prasetyo**  
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Dosen Pembimbing : **Dian Novianto, S.Kom., M.Kom.**


Ketua Penguji **Bambang Adiwino, M.Kom.**

CATATAN	Paraf Revisi
	

Anggota Penguji **Yurindra, M.T.**

CATATAN	Paraf Revisi
<u>Uraat Berkas</u>	

Moderator **Dian Novianto, S.Kom., M.Kom.**

CATATAN	Paraf Revisi
ikuti saran penguji	

**PENTING:**

Revisi paling lambat diselesaikan dalam kurun waktu 1 minggu dari tanggal sidang, yaitu tanggal 08 Juli 2019. Selanjutnya lembar revisi ini dikumpulkan ke Kaprodi masing-masing.



**STMIK ATMA LUHUR PANGKALPINANG**  
**Jln. Jend.Sudirman – Selindung Lama Pangkalpinang**  
**Propinsi Kepulauan Bangka Belitung**

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**BIODATA PENULIS SKRIPSI**



Pendadaran/lulus Tanggal : 01 Juli 2019

Wisuda Tanggal : Agustus 2019

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Alamat Orang Tua : Dusun II Merawang



Judul Skripsi : Analisis Perbandingan Performa *Point To Point Tunneling Protocol* dan *Layer 2 Tunneling Protocol* Pada Jaringan VPN Menggunakan Mikrotik

Dosen Pembimbing : Dian Novianto, M.Kom

Pangkalpinang, 01 Juli 2019

Penulis

A handwritten signature in black ink, consisting of a large, stylized initial 'A' followed by the name 'Alfian Teguh Prasetyo' written in a cursive script.

(Alfian Teguh Prasetyo)