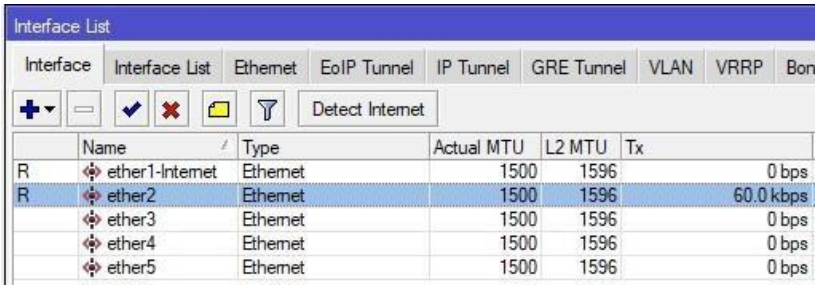
Paket1

A. Konfigurasi Router Jakarta

1. Pemberian nama setiap interface

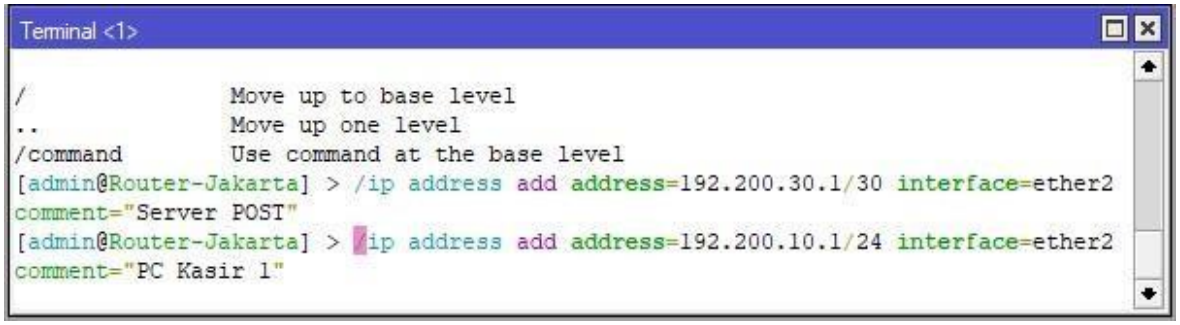


Untuk ether2 terhubung ke VMWARE

2. Addressing

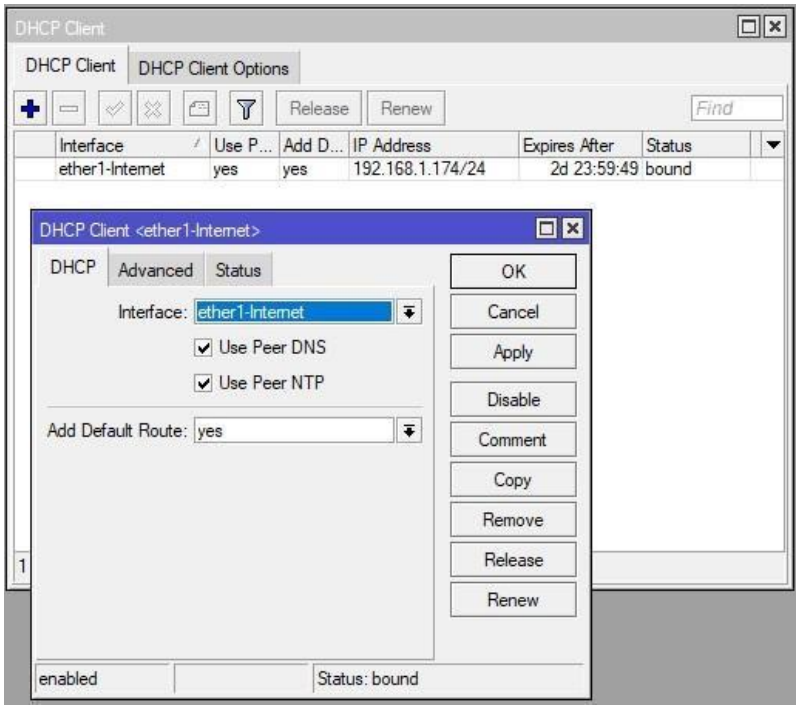
Masukkan perintah sebagai berikut :

IP Address yang terhubung ke PC Kasir 1 dan SERVER POST

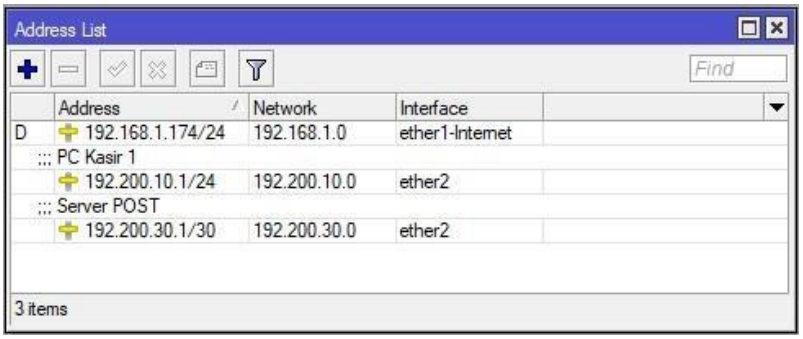


3. DHCP Client

IP -> DHCP Client -> Klik tanda [+]

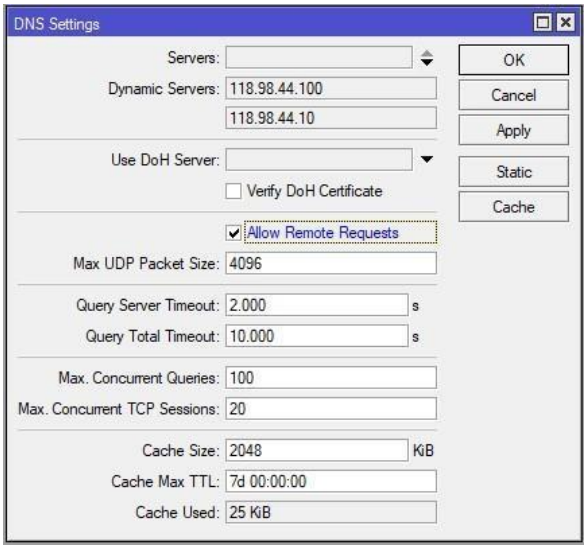


Melihat hasil konfigurasi IP Addess di : Addess List



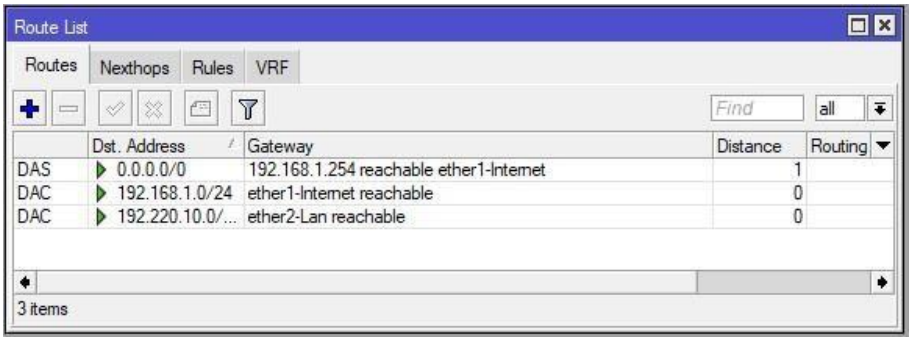
4. Konfigurasi DNS

IP -> DNS



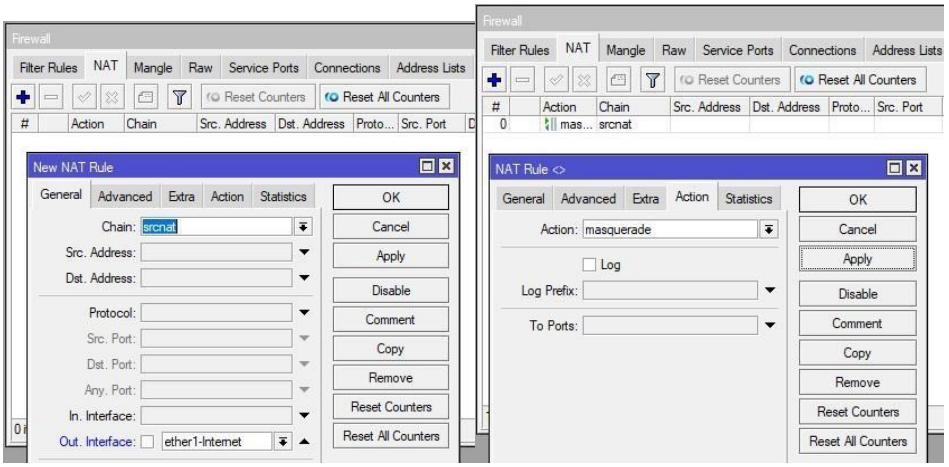
Centang [v] pada *Allow Remote Requests*

5. Konfigurasi Routes (Optional)



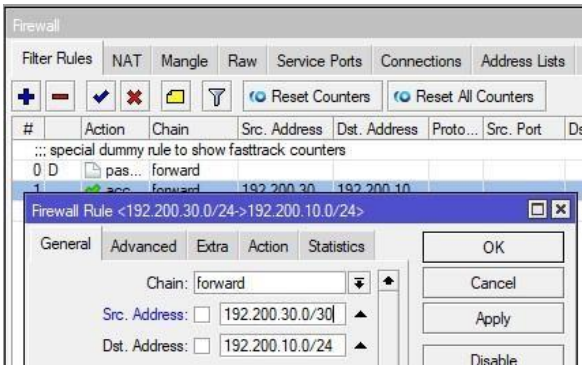
6. Firewall

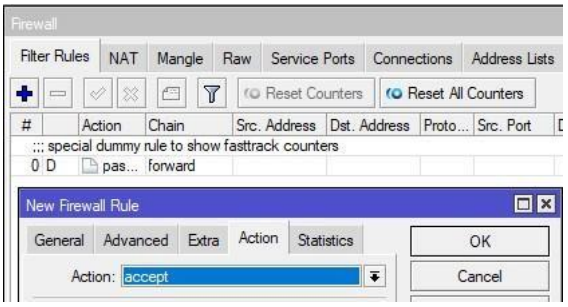
IP -> Firewall -> NAT > Pilih [+]



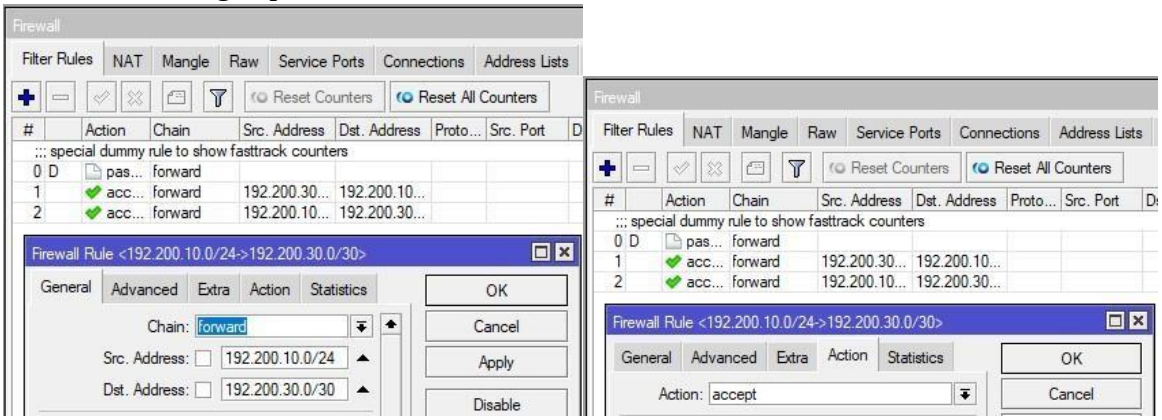
Pilih : Action

Kemudian pilih :Filter Rules -> pilih [+]





Buatlah rule dengan posisi IP address dibalik



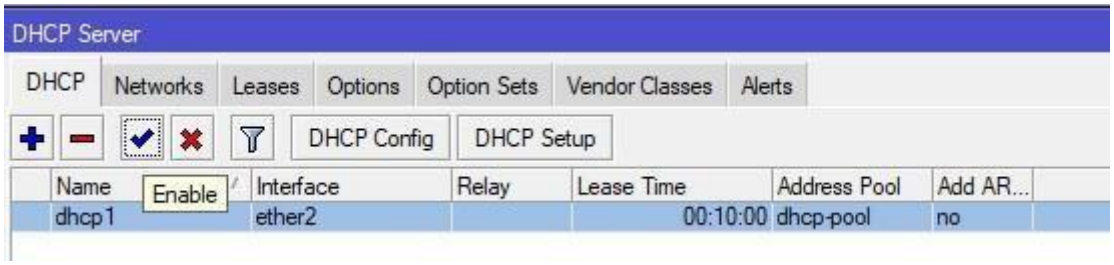
7. DHCP Server

Buka Terminal, masukkan perintah berikut :

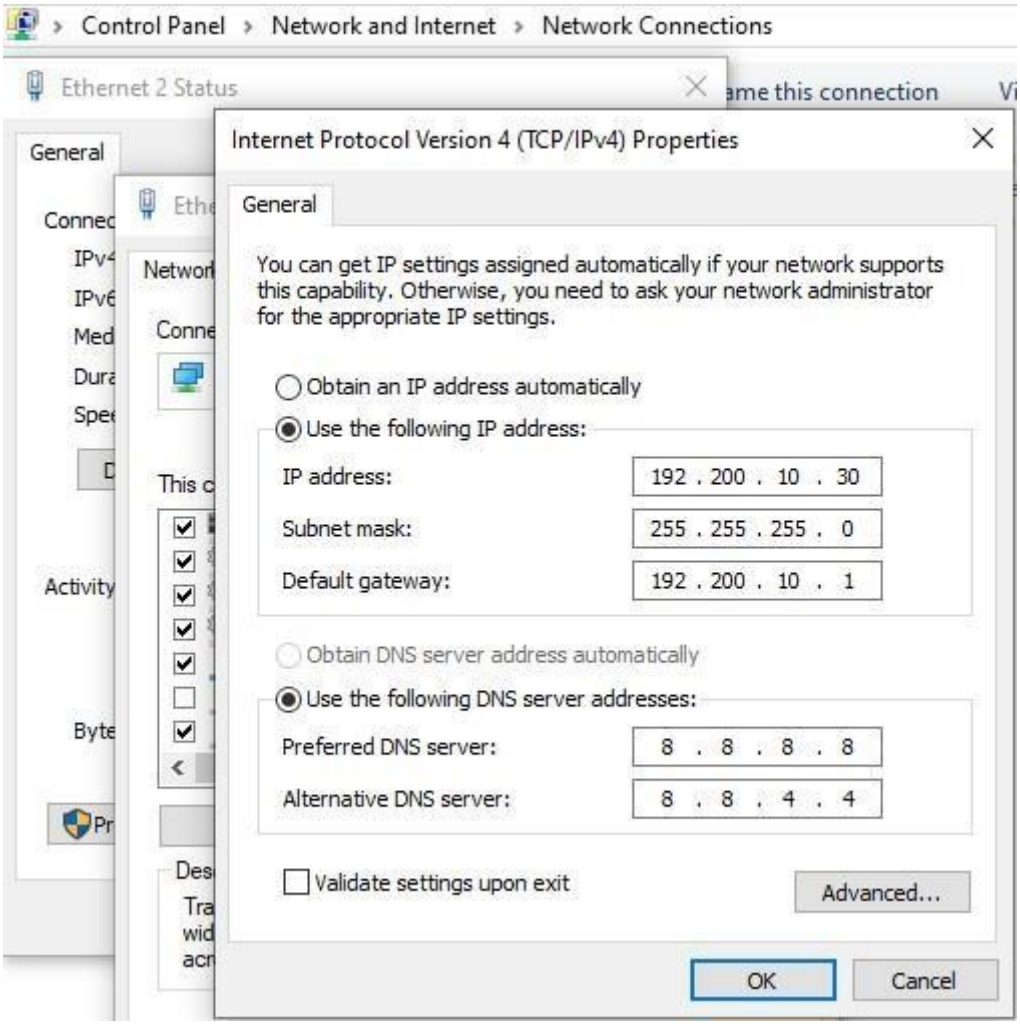
[admin@Router-Jakarta] > /ip pool add name=dhcp-pool ranges=192.200.10.2-192.200.10.254

[admin@Router-Jakarta] > /ip dhcp-server add address-pool=dhcp-pool interface=ether2 lease-time=10m

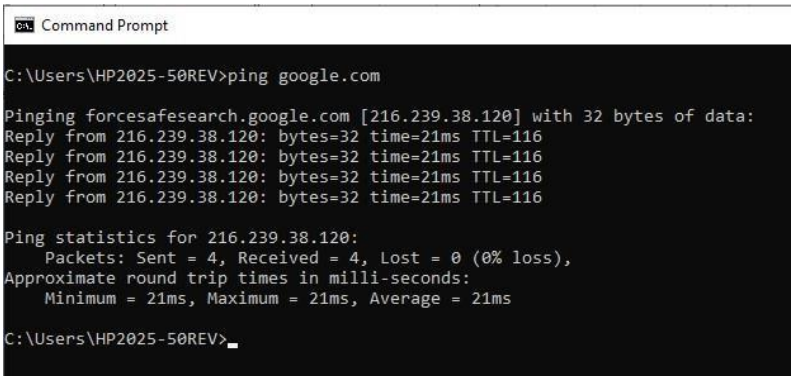
Kemudian aktifkan di IP > DHCP Server > Pilih bagian "✓"



7. Konfigurasi IP Address Windows (Tempat VMWARE terinstall)

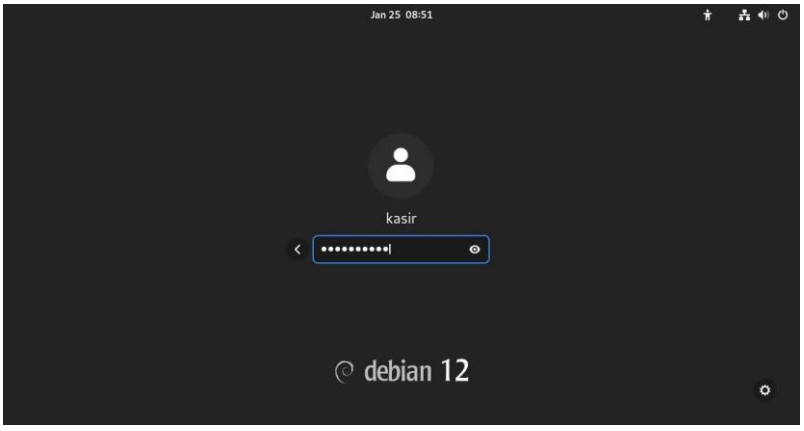


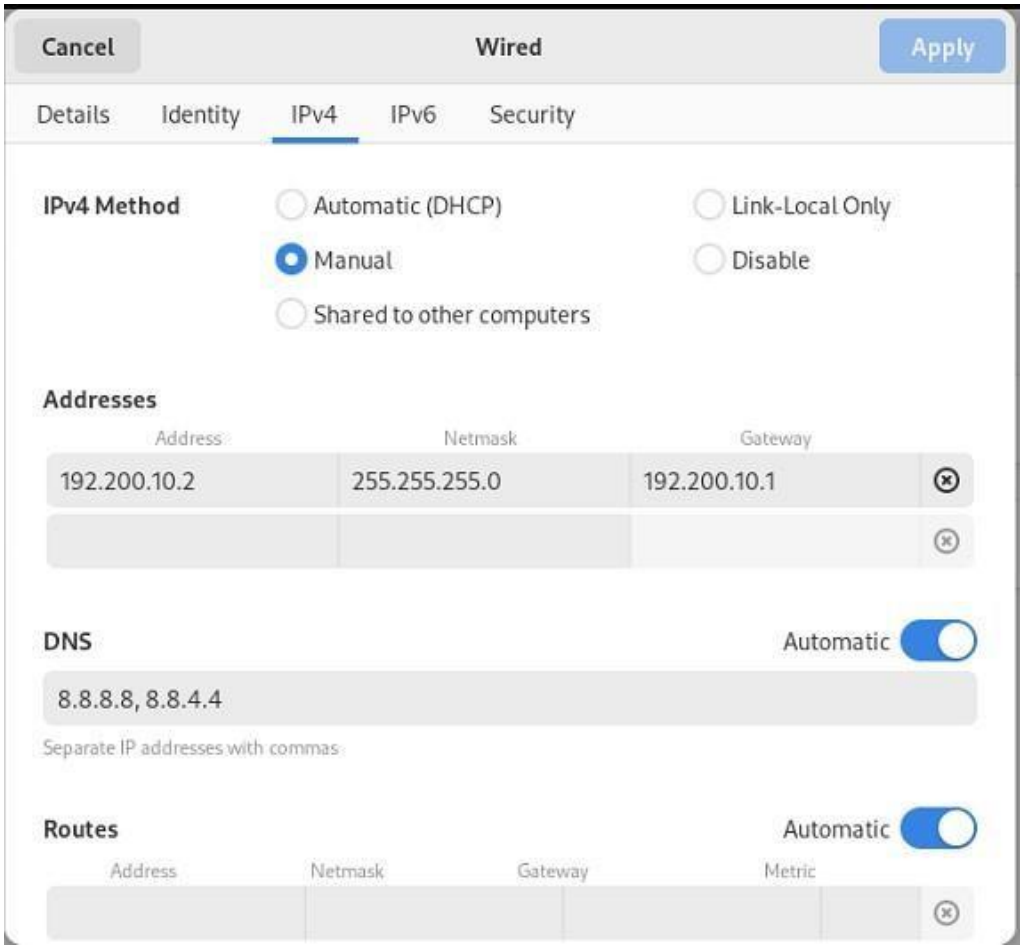
Pengujian koneksi ke jaringan internet/global



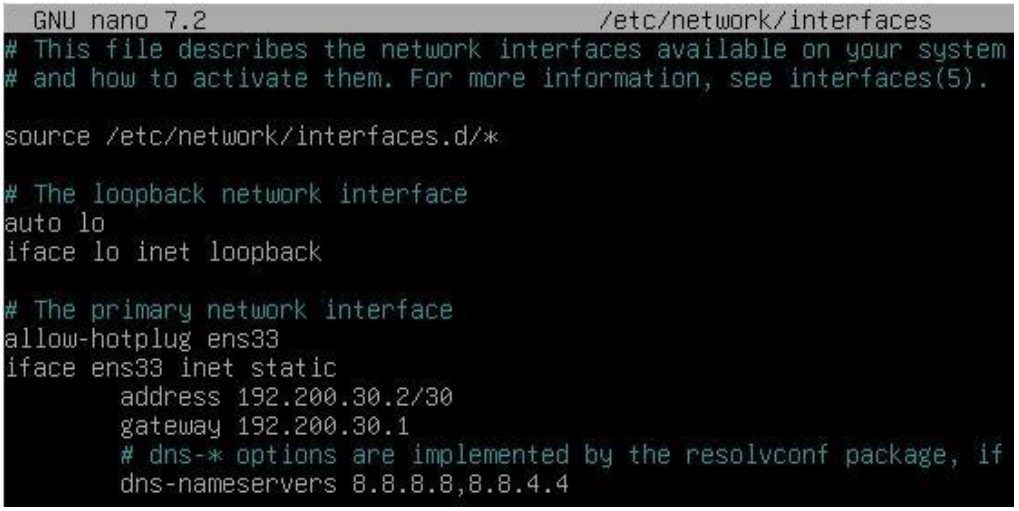
8. Pengujian pada posisi PC-KASIR 1 dan SERVER POST

Konfigurasi IP address di PC Kasir 1 (Debian 11 GUI)



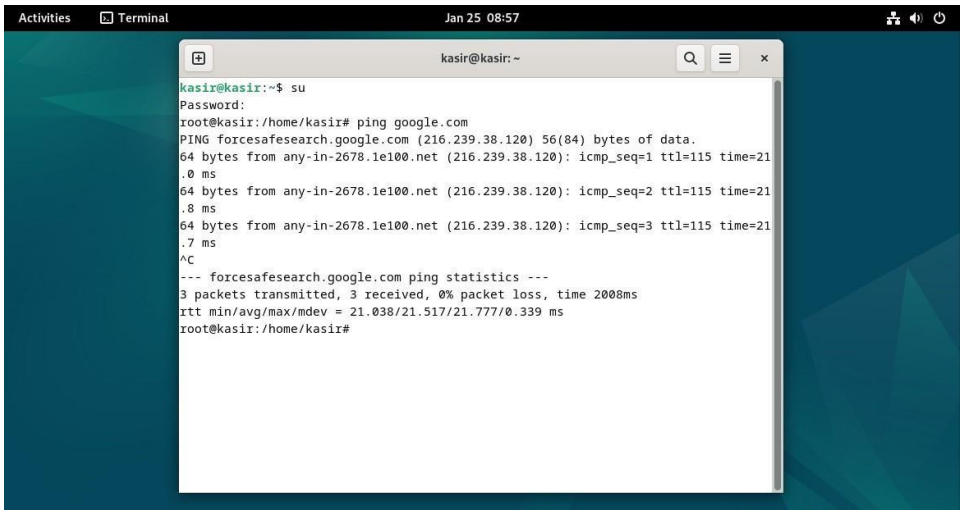


Konfigurasi IP address di SERVER POST



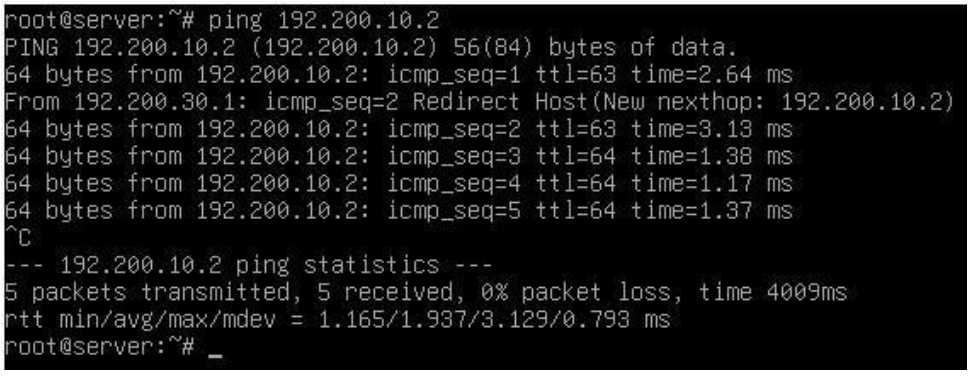
Pengujian koneksi ke jaringan internet/global

- Dari PC-Kasir 1



- Dari SERVER POST ke jaringan internet/global

- Dari SERVER POST ke PC Kasir 1



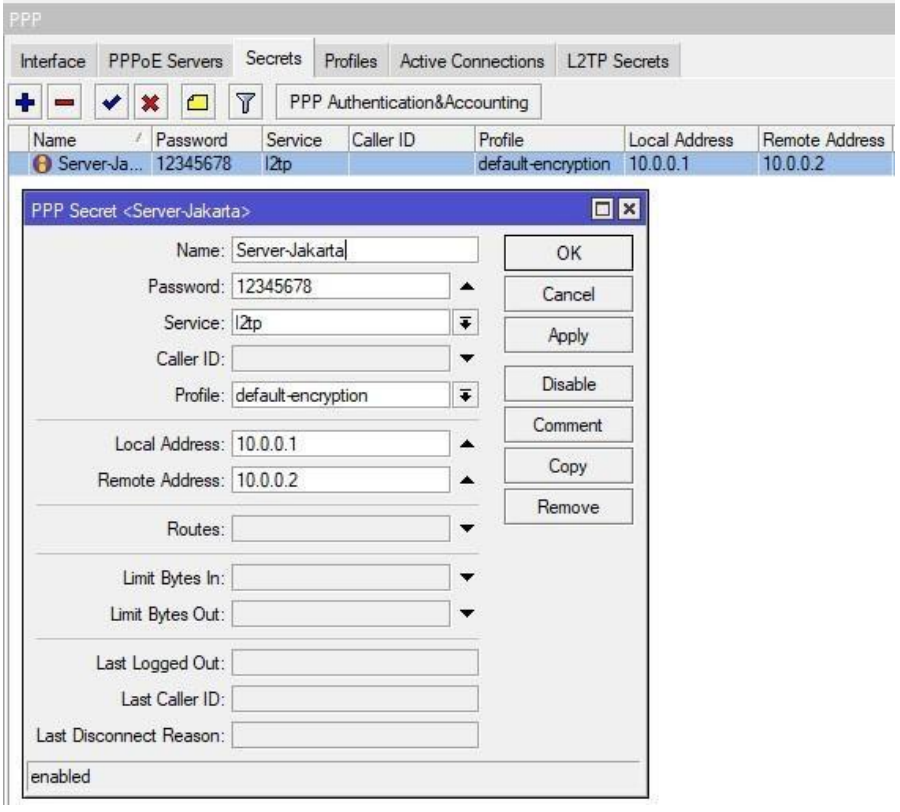
9. Konfigurasi VPN/L2TP Konfigurasi

Profiles

Pilih : PPP->Profiles->[+]

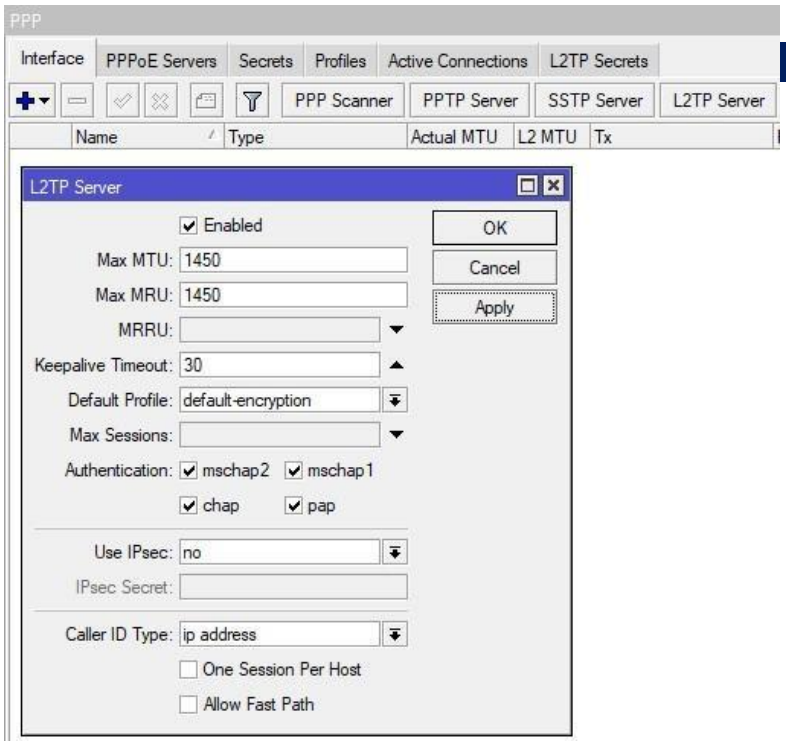
Konfigurasi Secret

Pilih : PPP->Secrets->[+]



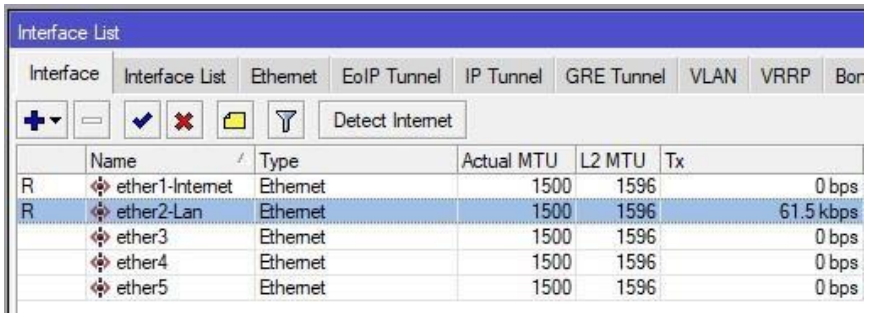
Konfigurasi VPN/L2TP SERVER

Pilih : PPP->Interface->L2TP Server



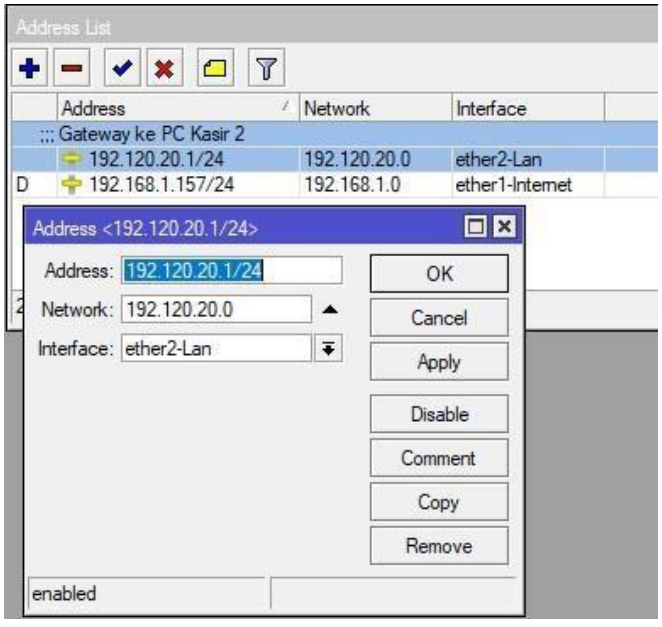
Konfigurasi Router Surabaya

1. Pemberian nama setiap interface



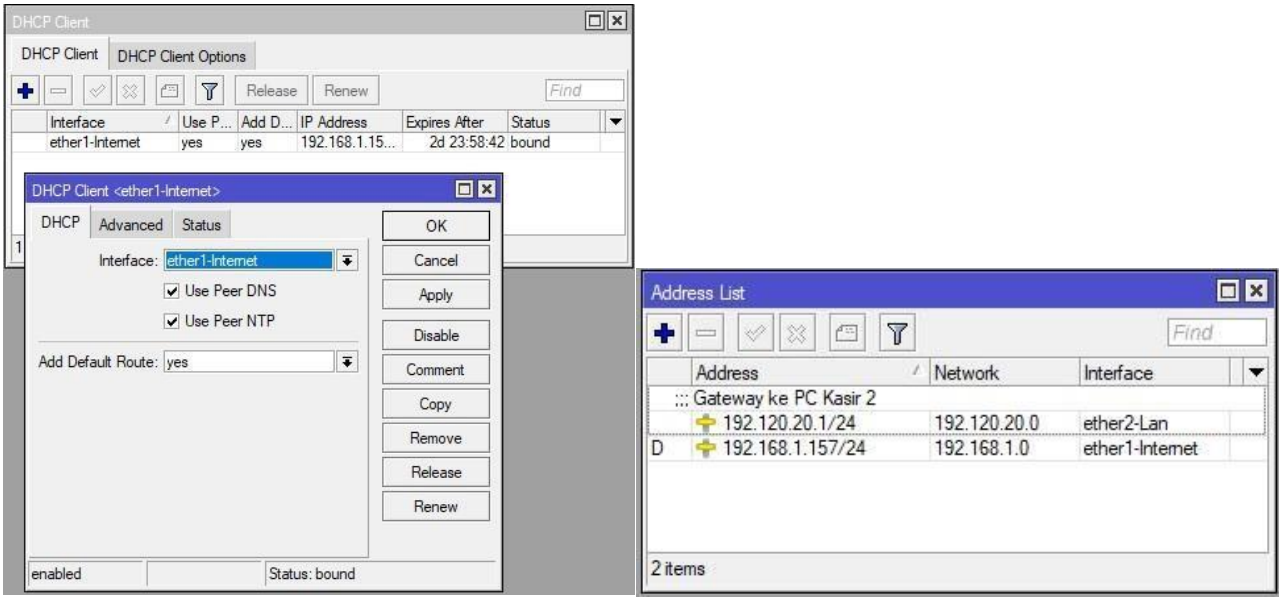
2. Addressing

Masukkan perintah sebagai berikut :



3. DHCP Client

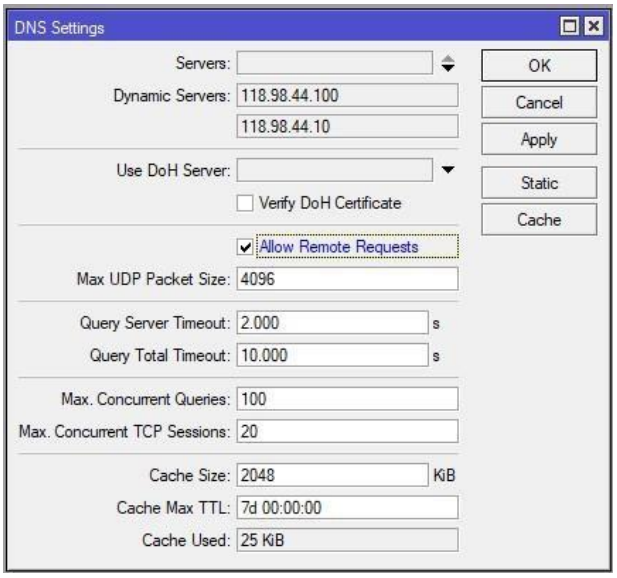
IP -> DHCP Client -> Klik tanda [+]



Addess List

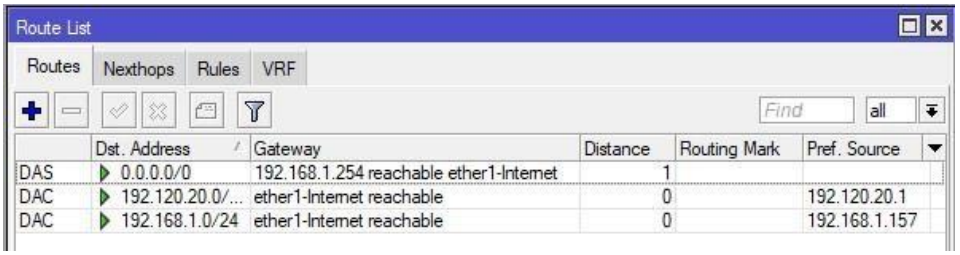
4. Konfigurasi DNS

IP -> DNS



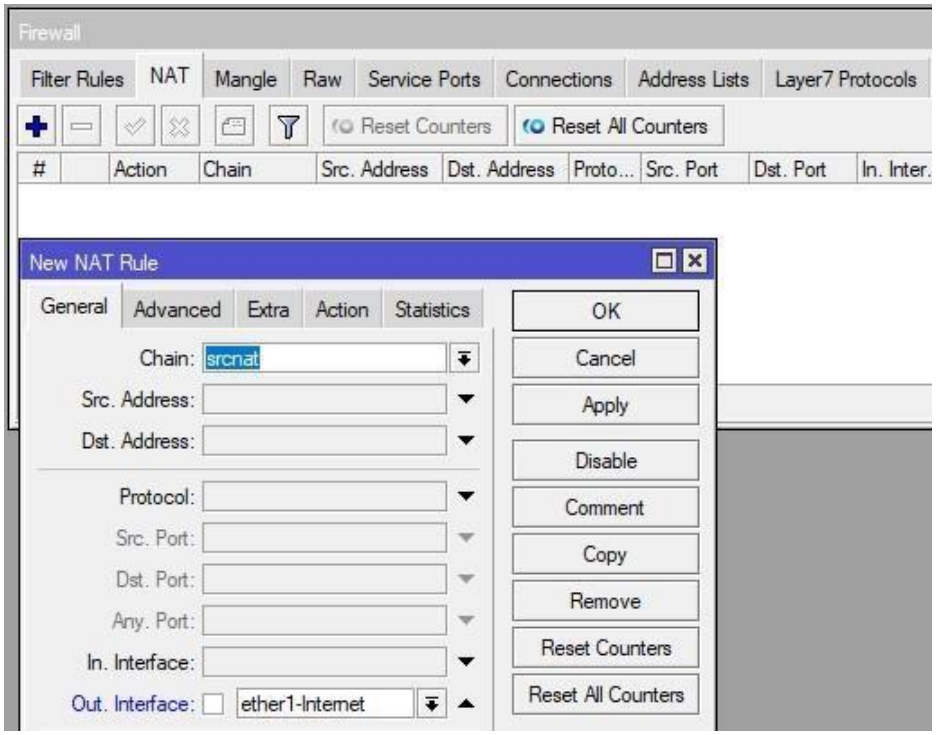
Centang [v] pada *Allow Remote Requests*

5. Konfigurasi Routes (Optional)

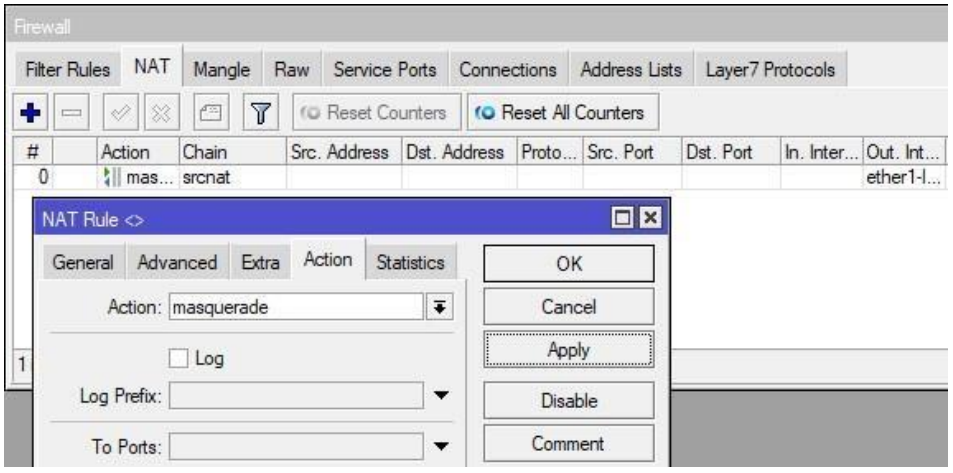


6. Firewall

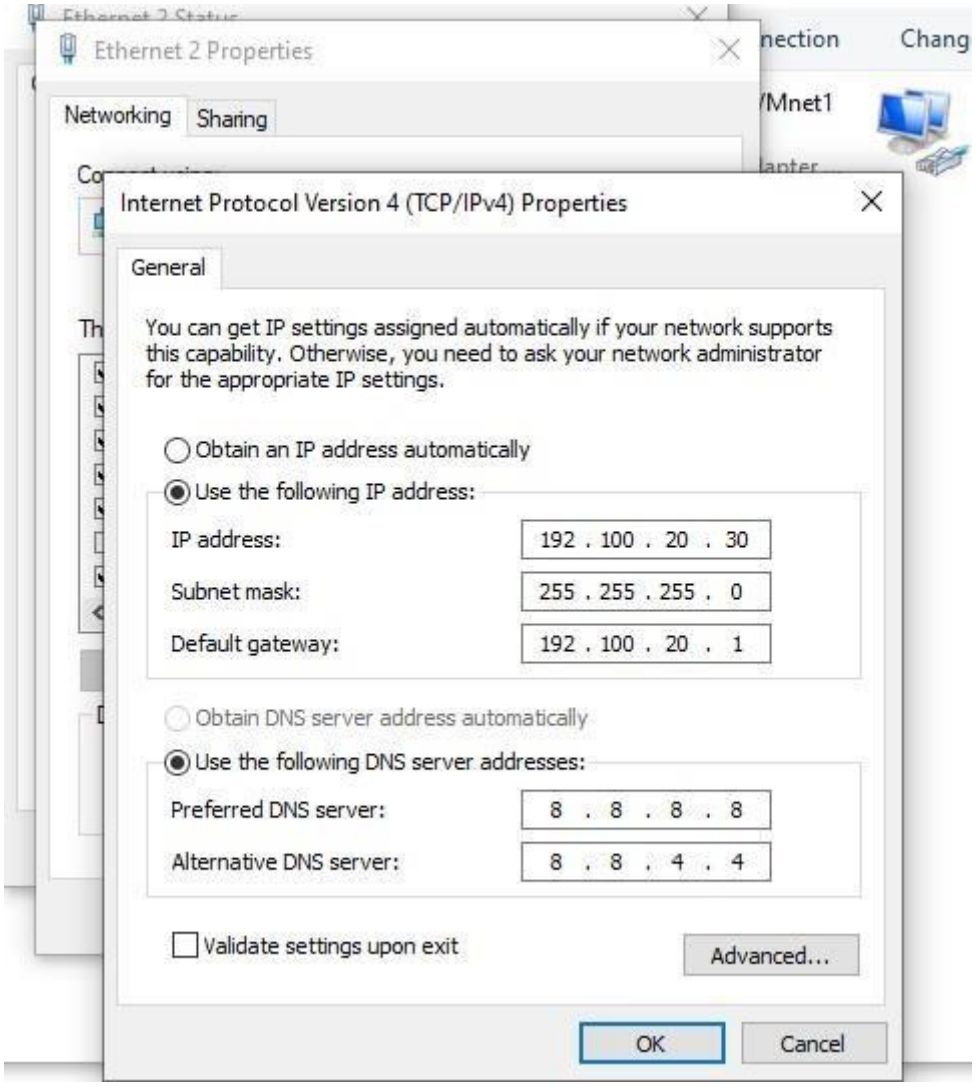
IP -> Firewall -> NAT > Pilih [+]



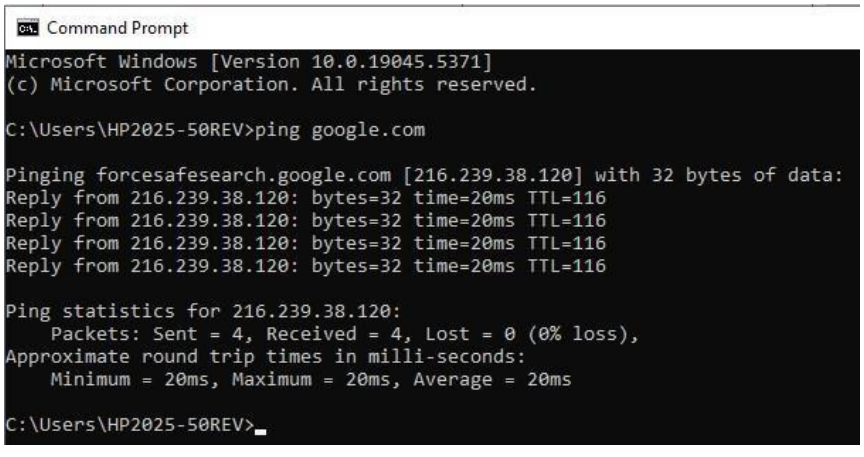
Pilih : Action



7. Konfigurasi IP Address PC Kasir 2



Pengujian koneksi ke jaringan internet/global

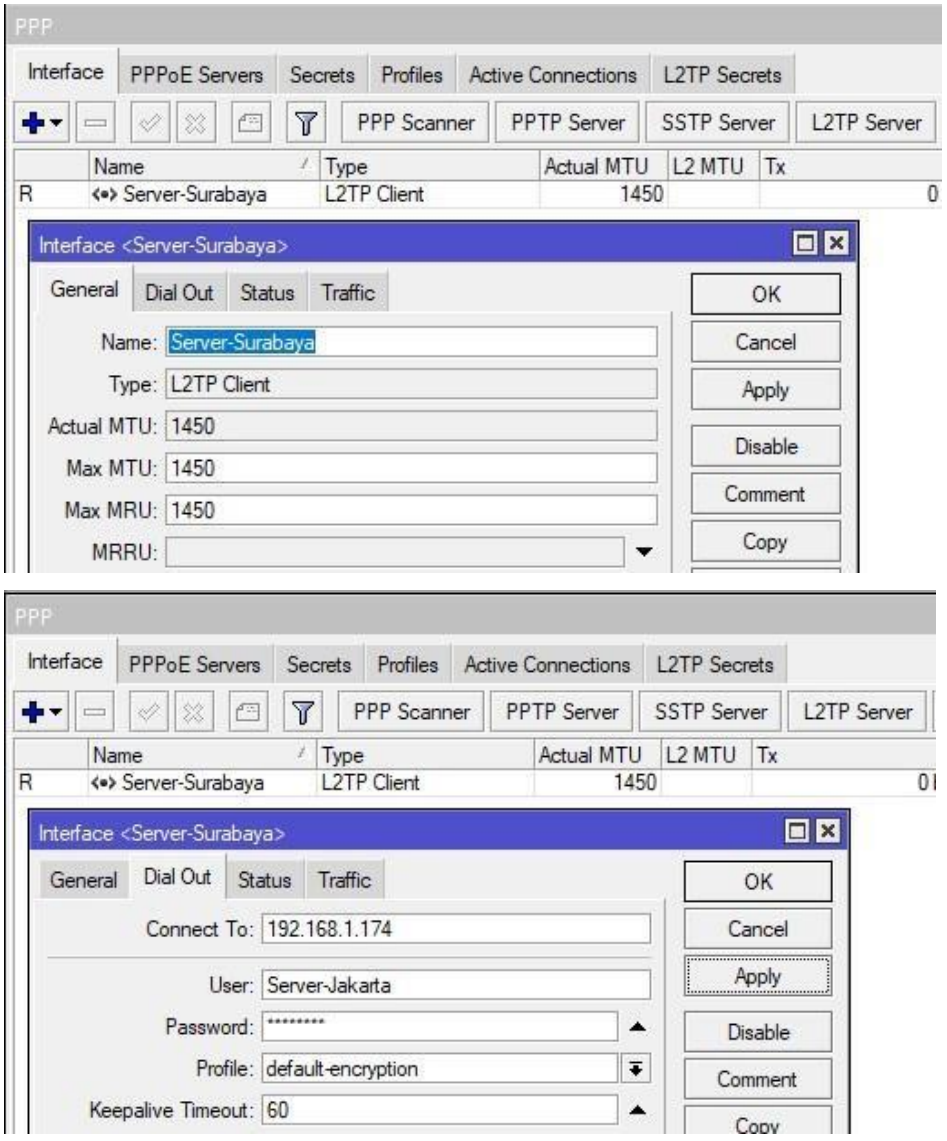


10. Konfigurasi VPN/L2TP

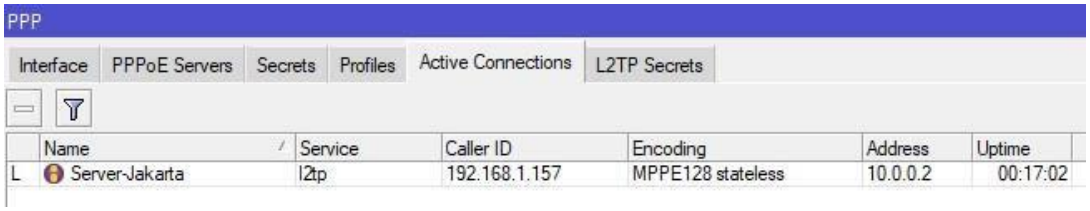
Mengonfigurasi **L2TP Server** dengan dua buah Mikrotik memungkinkan Anda untuk membuat koneksi **site-to-site VPN**. Dalam pengaturan ini, satu Mikrotik bertindak sebagai **L2TP Server**, dan yang lainnya sebagai **L2TP Client**. Berikut langkahlangkahnya:

Konfigurasi L2TP di Client

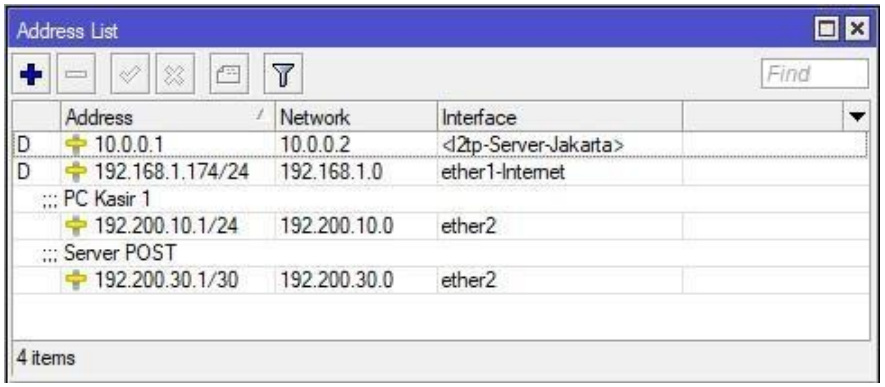
Pilih : PPP->Interface->[+]->L2TP Client



Kemudian periksa di sisi server (Router-Jakarta)

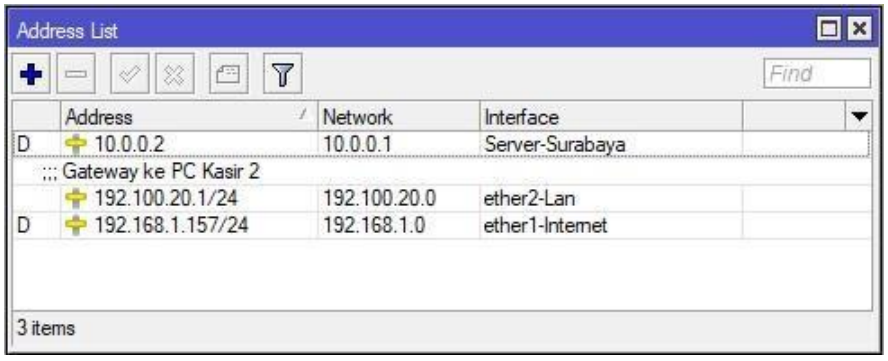


Periksa di IP->Addresses



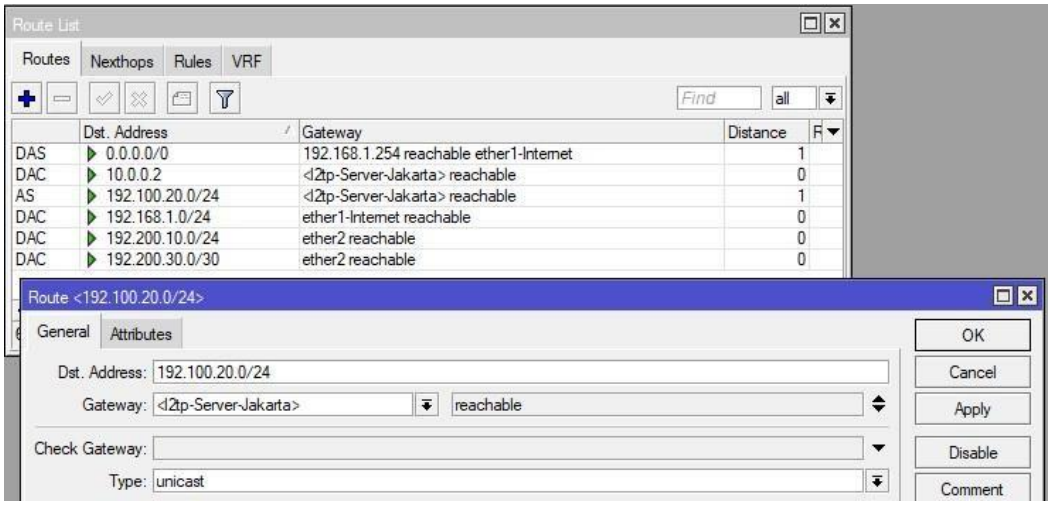
Kemudian periksa di sisi Client (Router-Surabaya) Pilih

: IP->IP Addresses

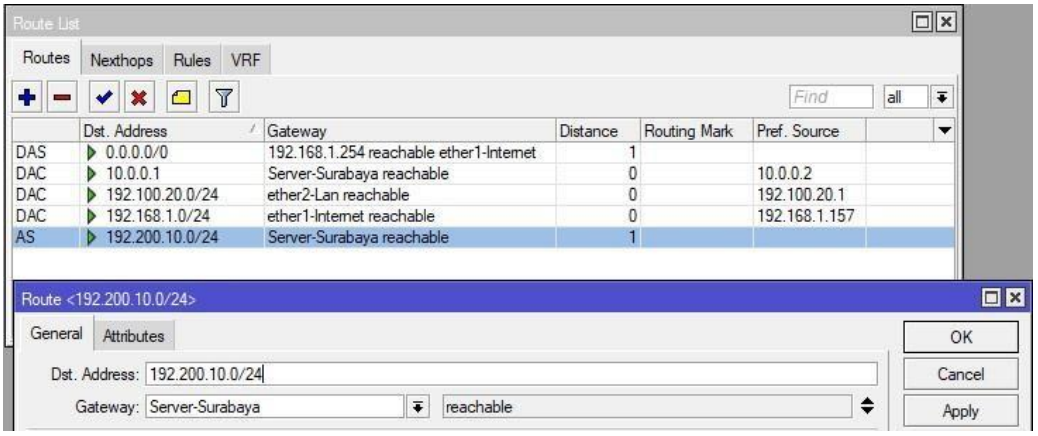


Agar bisa berkomunikasi antar router, kita harus seting routing static di sisi server dan client

Seting Router Static di Router-Jakarta Pilih : IP->Routes



Seting Router Static di Router-Surabaya Pilih : IP->Routes a. Routing ke IP address 192.200.10.0/24

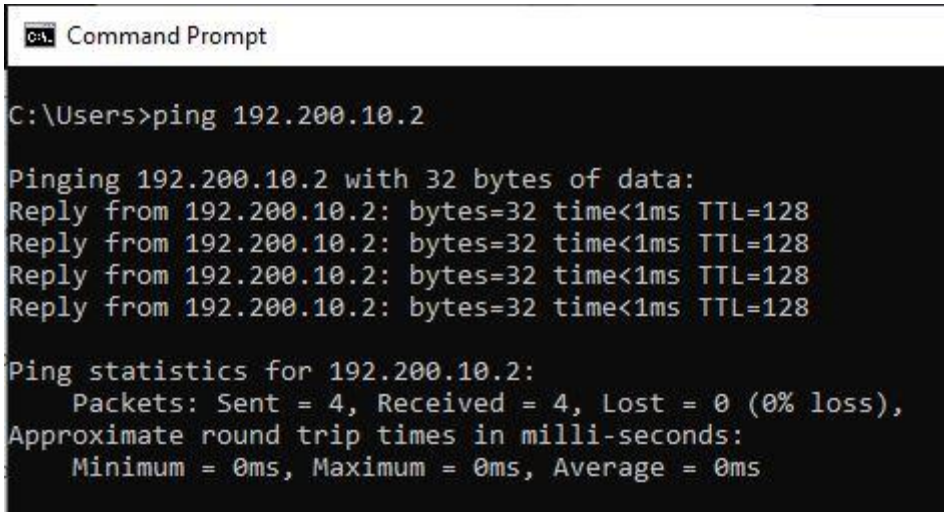


b. Routing Ke IP address 192.200.30.0/30

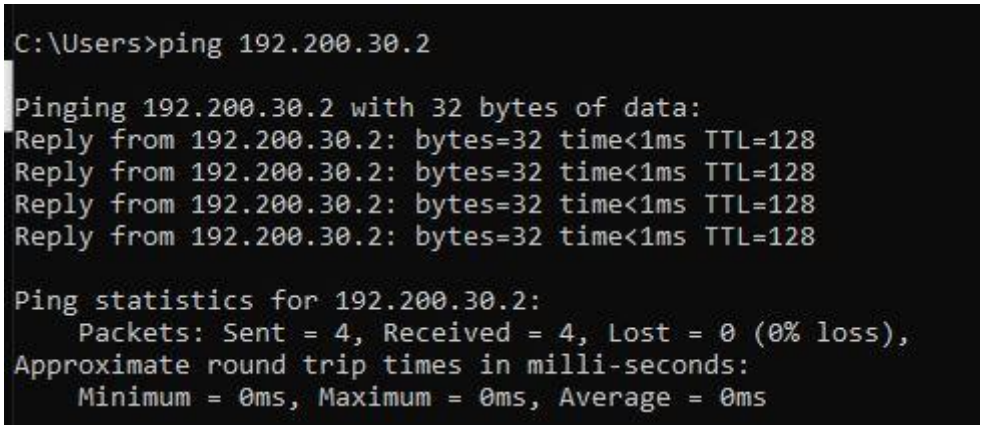
PENGUJIAN TUNNEL (L2TP SERVER)

Pengujian tunnel akan di lakukan di komputer klien (Router-Surabaya) ke komputer server (Router-Jakarta)

a. Pengujian dari PC Kasir 2 ke IP address PC Kasir 1



b. Pengujian dari PC Kasir 2 ke SERVER POST



C. Install dan Konfigurasi Aplikasi Kasir di Server POST

Aplikasi yang saya pakai untuk Aplikasi Kasir : **Dolibarr (optional)**, anda bisa menggunakan aplikasi kasir yang lainnya, misal: *Odoo (ERP dengan Fitur POS), uniCenta atau Floreant POS, dengan install dan konfigurasi berbeda.*

1. **Install Apache2, Mariadb dan PHP**

root@server:~# apt install apache2 mariadb-server php php-mysql php-gd php-xml phpjson php-ldap php-zip php-imap php-mbstring php-intl libapache2-mod-php php-curl

Kemudian masukkan perintah

root@server:~# cd /var/www

download folder dolibarr yang menjadi folder utama konfigurasi untuk aplikasi kasir di Server POST dengan perintah

root@server:~# wget https://github.com/Dolibarr/dolibarr/tarball/develop -O dolibarr.tar.gz

root@server: /var/www# ls dolibarr.tar.gz
html

Dan extract folder tersebut dengan perintah

root@server: /var/www# tar xzvf dolibarr.tar.gz root@server: /var/www# ls
Dolibarr-dolibarr-ec649b0

Dan kita akan mengganti nama dari folder tersebut dengan dolibarr

root@server: /var/www# mv Dolibarr-dolibarr-ec649b0 dolibarr

root@server: /var/www# rm dolibarr.tar.gz root@server:

/var/www# ls

```
dolibarr  html
```

2. Setel Hak Akses

root@server:~# chown -R www-data:www-data /var/www/dolibarr root@server:~# chmod -R 755 /var/www/dolibarr

3. Konfigurasi Database

root@server:~# mysql -u root -p

```
root@server:~# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 31
Server version: 10.11.4-MariaDB-1~deb12u1 Debian 12

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]>
```

Buat database dan user untuk Dolibarr:

```
MariaDB [(none)]> create database dolibarr character set utf8mb4 collate utf8mb4_general_ci;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> create user 'dolibarruser'@'localhost' identified by '12345678';
Query OK, 0 rows affected (0.002 sec)

MariaDB [(none)]> grant all privileges on dolibarr.* to 'dolibarruser'@'localhost';
Query OK, 0 rows affected (0.001 sec)

MariaDB [(none)]> flush privileges;
Query OK, 0 rows affected (0.001 sec)

MariaDB [(none)]> exit;_
```

4. Konfigurasi Apache2

Buat file virtual host:

```
root@server:~# cd /etc/apache2/sites-available
root@server:/etc/apache2/sites-available# ls
000-default.conf  default-ssl.conf
root@server:/etc/apache2/sites-available# cp 000* dolibarr.conf
root@server:/etc/apache2/sites-available# ls
000-default.conf  default-ssl.conf  dolibarr.conf
root@server:/etc/apache2/sites-available# a2dissite 000*
Site 000-default disabled.
To activate the new configuration, you need to run:
  systemctl reload apache2
root@server:/etc/apache2/sites-available# _
```

Edit file dolibarr.conf

root@server:/etc/apache2/sites-available# nano dolibarr.conf

```
  GNU nano 7.2                                  dolibarr.conf
<VirtualHost *:80>
        ServerName smknsukasari.lks.id

        ServerAdmin smknsukasari@localhost
        DocumentRoot /var/www/dolibarr

        <Directory /var/www/dolibarr/htdocs>
                Options FollowSymLinks
                AllowOverride All
                Require all granted

        </Directory>

        # Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
        # error, crit, alert, emerg.
        # It is also possible to configure the loglevel for particular
        # modules, e.g.
        #LogLevel info ssl:warn

        ErrorLog ${APACHE_LOG_DIR}/dolibarr_error.log
        CustomLog ${APACHE_LOG_DIR}/dollibarr_access.log combined

        # For most configuration files from conf-available/, which are
        # enabled or disabled at a global level, it is possible to
        # include a line for only one particular virtual host. For example the
        # following line enables the CGI configuration for this host only
        # after it has been globally disabled with "a2disconf".
        #Include conf-available/serve-cgi-bin.conf
</VirtualHost>
```

Aktifkan virtual host dan restart Apache:

root@server:/etc/apache2/sites-available# a2ensite dolibarr.conf

```
Enabling site dolibarr.
To activate the new configuration, you need to run:
  systemctl reload apache2
```

Restart Apache

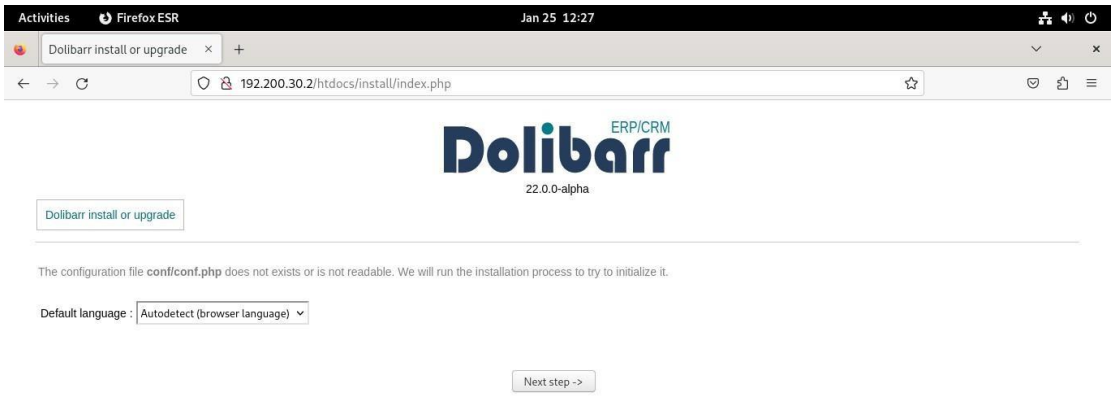
root@server:/etc/apache2/sites-available# systemctl restart apache2

```
root@server:/etc/apache2/sites-available# systemctl restart apache2
root@server:/etc/apache2/sites-available# systemctl status apache2
● apache2.service - The Apache HTTP Server
     Loaded: loaded (/lib/systemd/system/apache2.service; enabled; preset: enabled)
     Active: active (running) since Sat 2025-01-25 12:23:16 WIB; 9s ago
       Docs: https://httpd.apache.org/docs/2.4/
    Process: 13432 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 13437 (apache2)
      Tasks: 6 (limit: 2306)
     Memory: 17.1M
        CPU: 85ms
     CGroup: /system.slice/apache2.service
             ├─13437 /usr/sbin/apache2 -k start
             ├─13438 /usr/sbin/apache2 -k start
             ├─13439 /usr/sbin/apache2 -k start
             ├─13440 /usr/sbin/apache2 -k start
             ├─13441 /usr/sbin/apache2 -k start
             └─13442 /usr/sbin/apache2 -k start

Jan 25 12:23:16 server systemd[1]: Starting apache2.service - The Apache HTTP Server...
Jan 25 12:23:16 server apachectl[13436]: AH00558: apache2: Could not reliably determine the server
Jan 25 12:23:16 server systemd[1]: Started apache2.service - The Apache HTTP Server.
lines 1-20/20 (END)
```

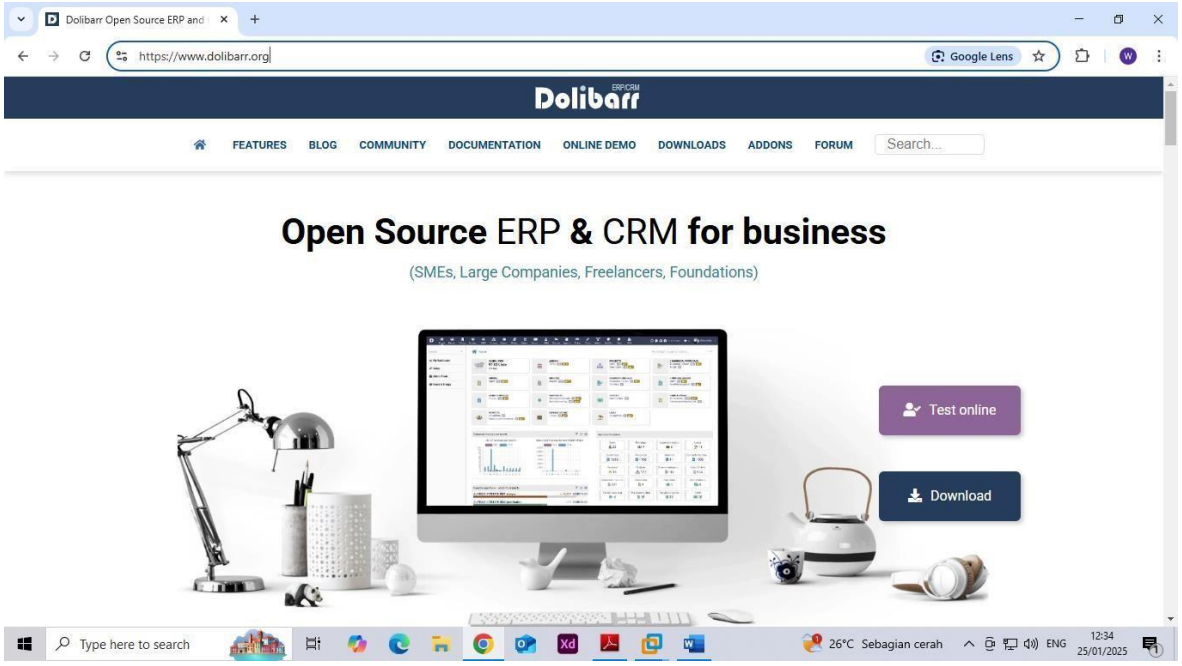
5. Akses Dolibarr

Buka browser dan akses: http://192.200.30.2/htdocs/install/index.php



Pilih : Next step.

Untuk konfigurasi selanjutnya, silahkan teruskan !, kalau ada masalah dengan konfigurasinya, silahkan buka web sitenya : https://www.dolibarr.org/



SELAMAT MENCOBA !