

## A. Konfigurasi Router Jakarta

### 1. Pemberian nama setiap interface

Interface List						
Interface	Interface List	Ethernet	EoIP Tunnel	IP Tunnel	GRE Tunnel	VLAN
Detect Internet						
Name	Type	Actual MTU	L2 MTU	Tx		
R ether1-Internet	Ethernet	1500	1596	0 bps		
R ether2	Ethernet	1500	1596	60.0 kbps		
ether3	Ethernet	1500	1596	0 bps		
ether4	Ethernet	1500	1596	0 bps		
ether5	Ethernet	1500	1596	0 bps		

Untuk ether2 terhubung ke VMWARE

### 2. Addressing

Masukkan perintah sebagai berikut :

IP Address yang terhubung ke PC Kasir 1 dan SERVER POST

```

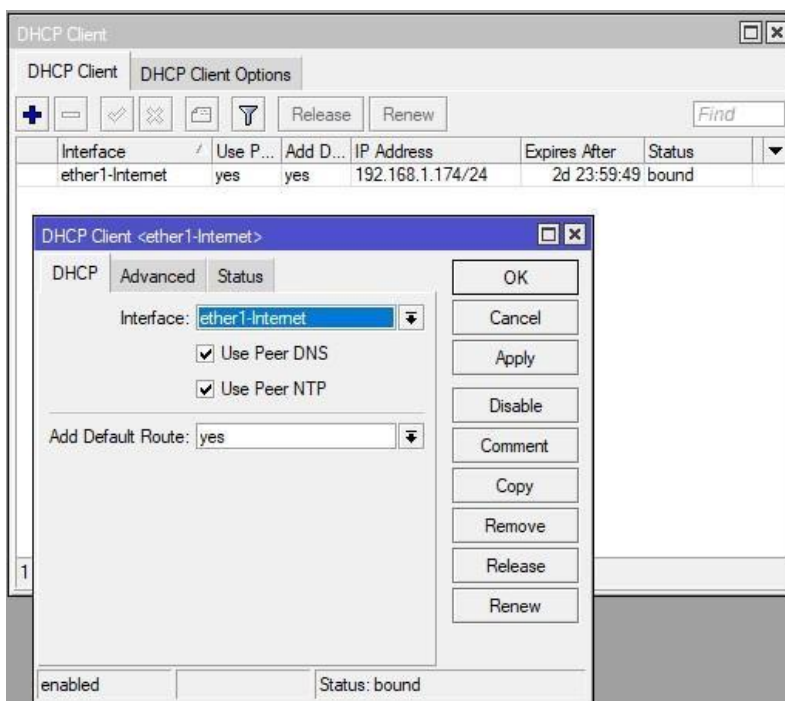
Terminal <1>

/          Move up to base level
..         Move up one level
/command   Use command at the base level
[admin@Router-Jakarta] > /ip address add address=192.200.30.1/30 interface=ether2
comment="Server POST"
[admin@Router-Jakarta] > /ip address add address=192.200.10.1/24 interface=ether2
comment="PC Kasir 1"

```

### 3. DHCP Client

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



Melihat hasil konfigurasi IP Address di : Address List

Address List				
<div> <div> <div></div> <div></div> <div></div> <div></div> <div></div> </div> <div>Find</div> </div>				
	Address	Network	Interface	
D	192.168.1.174/24	192.168.1.0	ether1-Internet	
...	PC Kasir 1			
	192.200.10.1/24	192.200.10.0	ether2	
...	Server POST			
	192.200.30.1/30	192.200.30.0	ether2	
3 items				

## 4. Konfigurasi DNS

IP -> DNS

DNS Settings		OK
Servers: <input type="text"/>		Cancel
Dynamic Servers: 118.98.44.100		Apply
118.98.44.10		Static
Use DoH Server: <input type="text"/>		Cache
<input type="checkbox"/> Verify DoH Certificate		
<input checked="" type="checkbox"/> Allow Remote Requests		
Max UDP Packet Size: 4096		
Query Server Timeout: 2.000 s		
Query Total Timeout: 10.000 s		
Max. Concurrent Queries: 100		
Max. Concurrent TCP Sessions: 20		
Cache Size: 2048 KiB		
Cache Max TTL: 7d 00:00:00		
Cache Used: 25 KiB		

Centang [v] pada *Allow Remote Requests*

## 5. Konfigurasi Routes (Optional)

Route List				
<div> <div> <div></div> <div></div> <div></div> <div></div> <div></div> </div> <div>Find</div> </div>				
	Dst. Address	Gateway	Distance	Routing
DAS	0.0.0.0/0	192.168.1.254 reachable ether1-Internet	1	
DAC	192.168.1.0/24	ether1-Internet reachable	0	
DAC	192.220.10.0/...	ether2-Lan reachable	0	
3 items				

## 6. Firewall

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

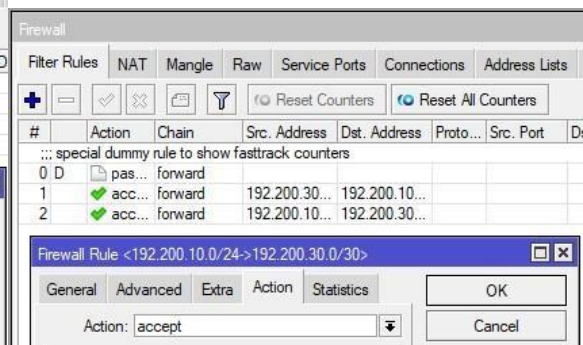
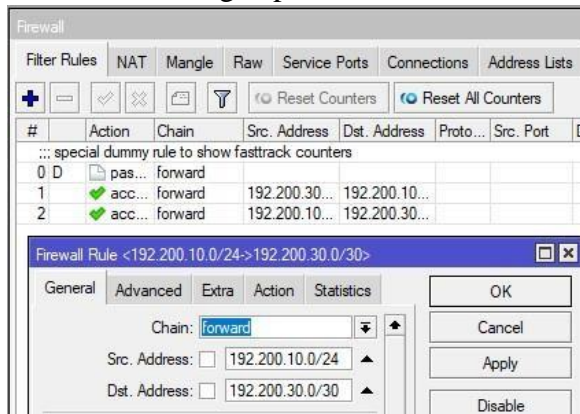
Firewall		Firewall																													
Filter Rules NAT Mangle Raw Service Ports Connections Address Lists		Filter Rules NAT Mangle Raw Service Ports Connections Address Lists																													
<div> <div> <div></div> <div></div> <div></div> <div></div> <div></div> </div> <div>Reset Counters Reset All Counters</div> </div>		<div> <div> <div></div> <div></div> <div></div> <div></div> <div></div> </div> <div>Reset Counters Reset All Counters</div> </div>																													
<table border="1"> <thead> <tr> <th>#</th><th>Action</th><th>Chain</th><th>Src. Address</th><th>Dst. Address</th><th>Proto...</th><th>Src. Port</th></tr> </thead> <tbody> <tr> <td>0</td><td>mas...</td><td>srcnat</td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		#	Action	Chain	Src. Address	Dst. Address	Proto...	Src. Port	0	mas...	srcnat					<table border="1"> <thead> <tr> <th>#</th><th>Action</th><th>Chain</th><th>Src. Address</th><th>Dst. Address</th><th>Proto...</th><th>Src. Port</th></tr> </thead> <tbody> <tr> <td>0</td><td>mas...</td><td>srcnat</td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		#	Action	Chain	Src. Address	Dst. Address	Proto...	Src. Port	0	mas...	srcnat				
#	Action	Chain	Src. Address	Dst. Address	Proto...	Src. Port																									
0	mas...	srcnat																													
#	Action	Chain	Src. Address	Dst. Address	Proto...	Src. Port																									
0	mas...	srcnat																													
<div> <div>New NAT Rule</div> <div> <div>General</div> <div>Advanced</div> <div>Extra</div> <div>Action</div> <div>Statistics</div> </div> <div>OK</div> <div>Cancel</div> <div>Apply</div> <div>Disable</div> <div>Comment</div> <div>Copy</div> <div>Remove</div> <div>Reset Counters</div> <div>Reset All Counters</div> </div>																															

Pilih : Action

Kemudian pilih :Filter Rules -> pilih [+]



Buatlah rule dengan posisi IP address dibalik



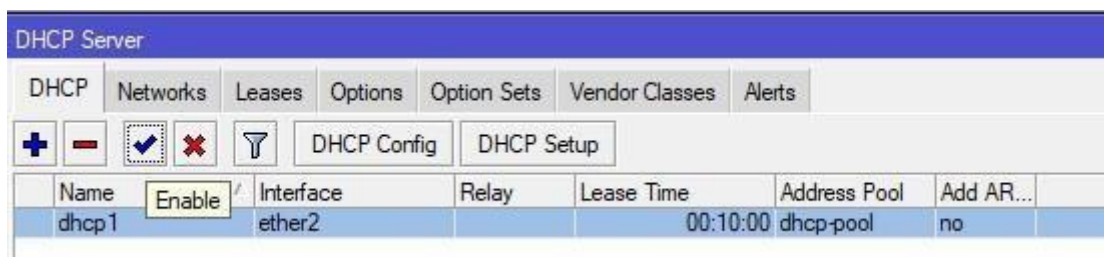
## 7. DHCP Server

Buka Terminal, masukkan perintah berikut :

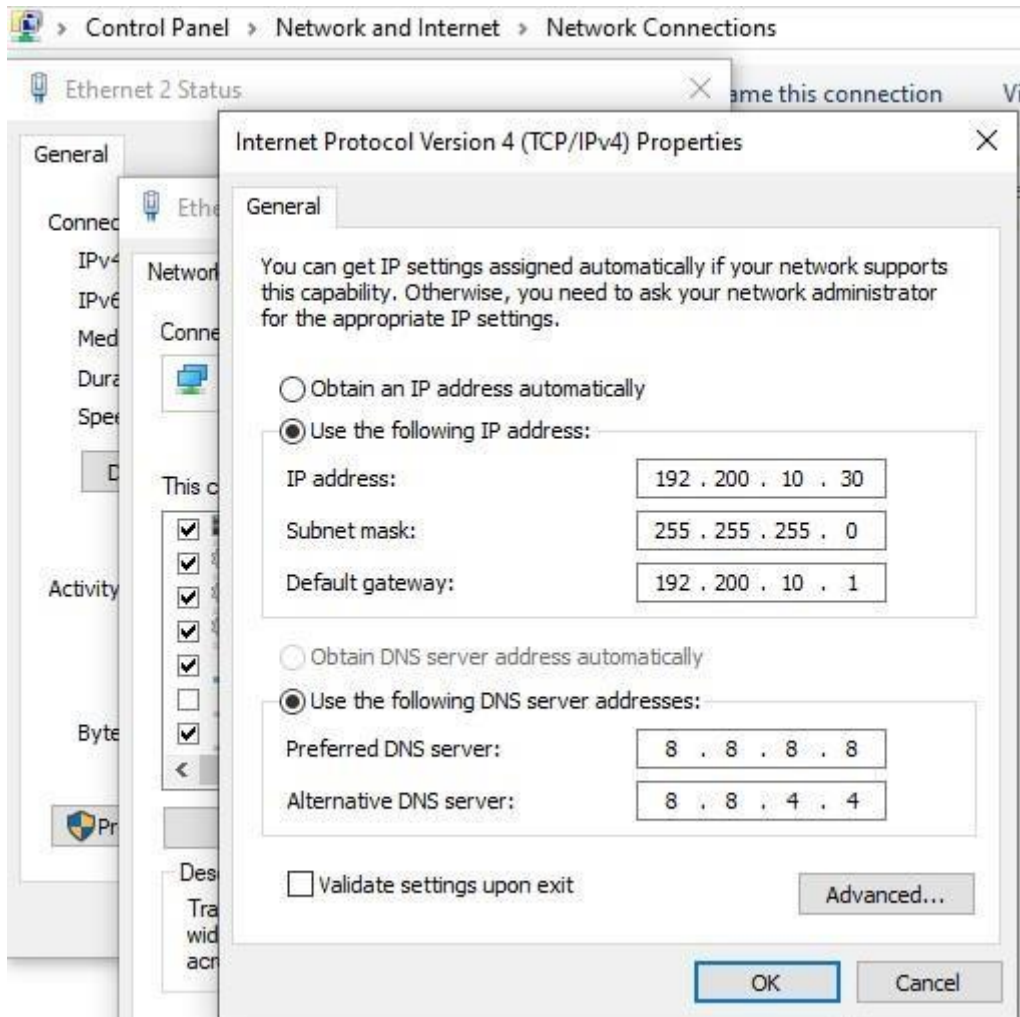
```
[admin@Router-Jakarta] > /ip pool add name=dhcp-pool ranges=192.200.10.2-192.200.10.254
```

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

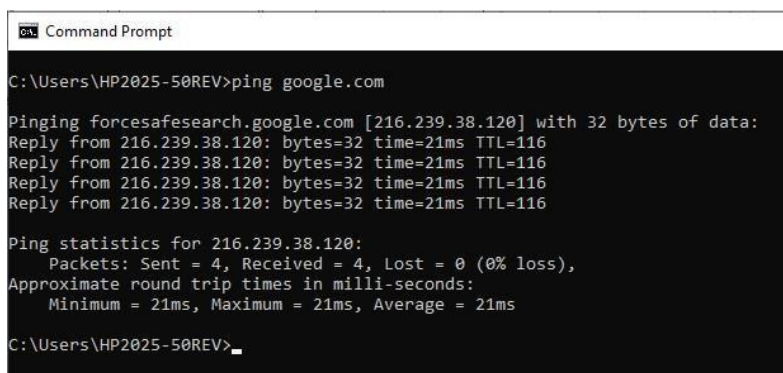
Kemudian aktifkan di IP > DHCP Server > Pilih bagian “✓”



## 7. Konfigurasi IP Address Windows (Tempat VMWARE terinstall)

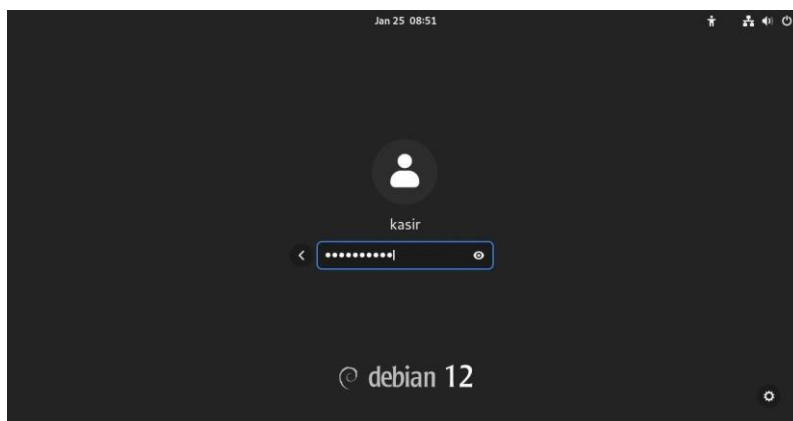


Pengujian koneksi ke jaringan internet/global



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

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





Cancel Wired Apply

Details Identity **IPv4** IPv6 Security

**IPv4 Method**

☐ Automatic (DHCP)
 ☐ Link-Local Only
 ☒ Manual
 ☐ Disable
 ☐ Shared to other computers

**Addresses**

Address	Netmask	Gateway	
192.200.10.2	255.255.255.0	192.200.10.1	⊗
			⊗

**DNS** Automatic ☒

8.8.8.8, 8.8.4.4

Separate IP addresses with commas

**Routes** Automatic ☒

Address	Netmask	Gateway	Metric	
				⊗

## Konfigurasi IP address di SERVER POST

```
Debian GNU/Linux 12 server tty1
server login: root
Password: _
```

```
GNU nano 7.2 /etc/network/interfaces
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

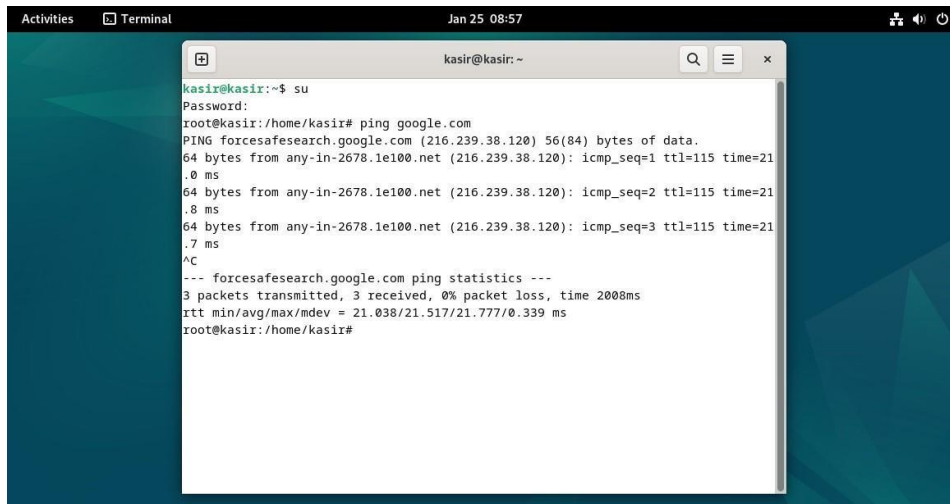
source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
allow-hotplug ens33
iface ens33 inet static
    address 192.200.30.2/30
    gateway 192.200.30.1
    # dns-* options are implemented by the resolvconf package, if
    dns-nameservers 8.8.8.8,8.8.4.4
```

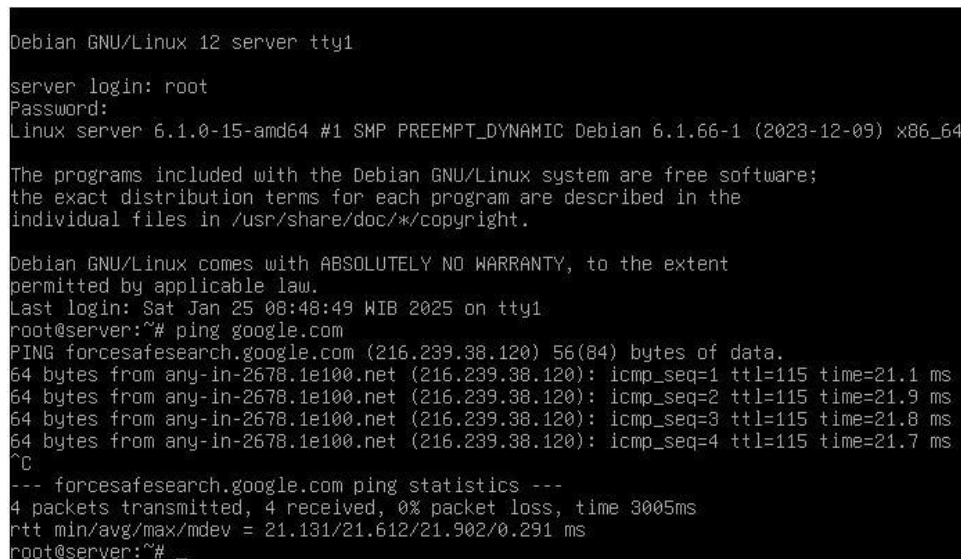
## Pengujian koneksi ke jaringan internet/global

- Dari PC-Kasir 1



```
kasir@kasir:~$ su
Password:
root@kasir:/home/kasir# ping google.com
PING forcesafesearch.google.com (216.239.38.120) 56(84) bytes of data.
64 bytes from any-in-2678.1e100.net (216.239.38.120): icmp_seq=1 ttl=115 time=21.0 ms
64 bytes from any-in-2678.1e100.net (216.239.38.120): icmp_seq=2 ttl=115 time=21.8 ms
64 bytes from any-in-2678.1e100.net (216.239.38.120): icmp_seq=3 ttl=115 time=21.7 ms
^C
--- forcesafesearch.google.com ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 200ms
rtt min/avg/max/mdev = 21.038/21.517/21.777/0.339 ms
root@kasir:/home/kasir#
```

- Dari SERVER POST ke jaringan internet/global

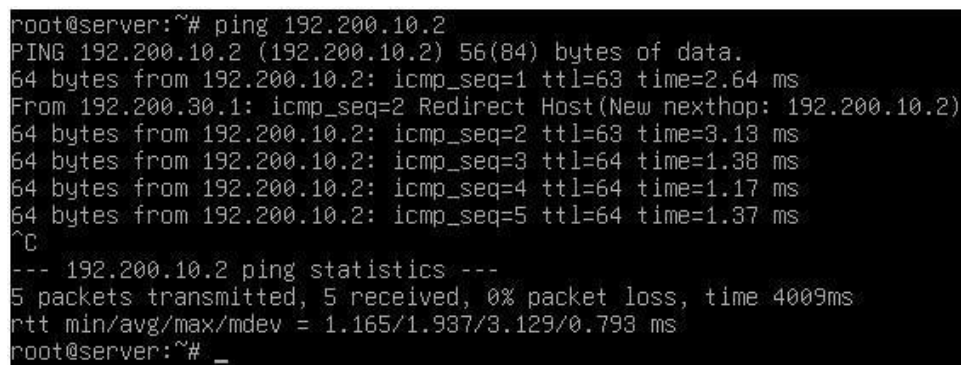


```
Debian GNU/Linux 12 server tty1
server login: root
Password:
Linux server 6.1.0-15-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.66-1 (2023-12-09) x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Sat Jan 25 08:48:49 WIB 2025 on tty1
root@server:~# ping google.com
PING forcesafesearch.google.com (216.239.38.120) 56(84) bytes of data.
64 bytes from any-in-2678.1e100.net (216.239.38.120): icmp_seq=1 ttl=115 time=21.1 ms
64 bytes from any-in-2678.1e100.net (216.239.38.120): icmp_seq=2 ttl=115 time=21.9 ms
64 bytes from any-in-2678.1e100.net (216.239.38.120): icmp_seq=3 ttl=115 time=21.8 ms
64 bytes from any-in-2678.1e100.net (216.239.38.120): icmp_seq=4 ttl=115 time=21.7 ms
^C
--- forcesafesearch.google.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 300ms
rtt min/avg/max/mdev = 21.131/21.612/21.902/0.291 ms
root@server:~# _
```

- Dari SERVER POST ke PC Kasir 1



```
root@server:~# ping 192.200.10.2
PING 192.200.10.2 (192.200.10.2) 56(84) bytes of data.
64 bytes from 192.200.10.2: icmp_seq=1 ttl=63 time=2.64 ms
From 192.200.30.1: icmp_seq=2 Redirect Host(New nexthop: 192.200.10.2)
64 bytes from 192.200.10.2: icmp_seq=2 ttl=63 time=3.13 ms
64 bytes from 192.200.10.2: icmp_seq=3 ttl=64 time=1.38 ms
64 bytes from 192.200.10.2: icmp_seq=4 ttl=64 time=1.17 ms
64 bytes from 192.200.10.2: icmp_seq=5 ttl=64 time=1.37 ms
^C
--- 192.200.10.2 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 400ms
rtt min/avg/max/mdev = 1.165/1.937/3.129/0.793 ms
root@server:~# _
```

## 9. Konfigurasi VPN/L2TP Konfigurasi

### Profiles

Pilih : PPP->Profiles->[+]

PPP

Interface PPPoE Servers Secrets Profiles Active Connections L2TP Secrets

+ - [icon] [icon]

Name	Local Address	Remote Address	Bridge	Rate Limit...	Only One
* default					default
* default-encryption	10.0.0.1	10.0.0.2			default

PPP Profile <default-encryption>

General Protocols Limits Queue Scripts

Name: default-encryption

Local Address: 10.0.0.1

Remote Address: 10.0.0.2

Bridge:

OK Cancel Apply Comment Copy

### Konfigurasi Secret

Pilih : PPP->Secrets->[+]

PPP

Interface PPPoE Servers Secrets Profiles Active Connections L2TP Secrets

+ - [icon] [icon] [icon] [icon] PPP Authentication&Accounting

Name	Password	Service	Caller ID	Profile	Local Address	Remote Address
Server-Ja...	12345678	l2tp		default-encryption	10.0.0.1	10.0.0.2

PPP Secret <Server-Jakarta>

Name: Server-Jakarta

Password: 12345678

Service: l2tp

Caller ID:

Profile: default-encryption

Local Address: 10.0.0.1

Remote Address: 10.0.0.2

Routes:

Limit Bytes In:

Limit Bytes Out:

Last Logged Out:

Last Caller ID:

Last Disconnect Reason:

enabled

OK Cancel Apply Disable Comment Copy Remove

## Konfigurasi VPN/L2TP SERVER

Pilih : PPP->Interface->L2TP Server

PPP

Interface | PPPoE Servers | Secrets | Profiles | Active Connections | L2TP Secrets

PPP Scanner | PPTP Server | SSTP Server | L2TP Server

Name	Type	Actual MTU	L2 MTU	Tx
L2TP Server				

☒ Enabled

Max MTU: 1450

Max MRU: 1450

MRRU:

Keepalive Timeout: 30

Default Profile: default-encryption

Max Sessions:

Authentication: ☒ mschap2 ☒ mschap1  
☒ chap ☒ pap

Use IPsec: no

IPsec Secret:

Caller ID Type: ip address

☐ One Session Per Host

☐ Allow Fast Path

OK Cancel Apply

## Konfigurasi Router Surabaya

### 1. Pemberian nama setiap interface

Interface	Name	Type	Actual MTU	L2 MTU	Tx
R	ether1-Internet	Ethernet	1500	1596	0 bps
R	ether2-Lan	Ethernet	1500	1596	61.5 kbps
	ether3	Ethernet	1500	1596	0 bps
	ether4	Ethernet	1500	1596	0 bps
	ether5	Ethernet	1500	1596	0 bps

### 2. Addressing

Masukkan perintah sebagai berikut :

Address List

Address	Network	Interface
::: Gateway ke PC Kasir 2		
192.120.20.1/24	192.120.20.0	ether2-Lan
192.168.1.157/24	192.168.1.0	ether1-Internet

Address <192.120.20.1/24>

Address: 192.120.20.1/24

Network: 192.120.20.0

Interface: ether2-Lan

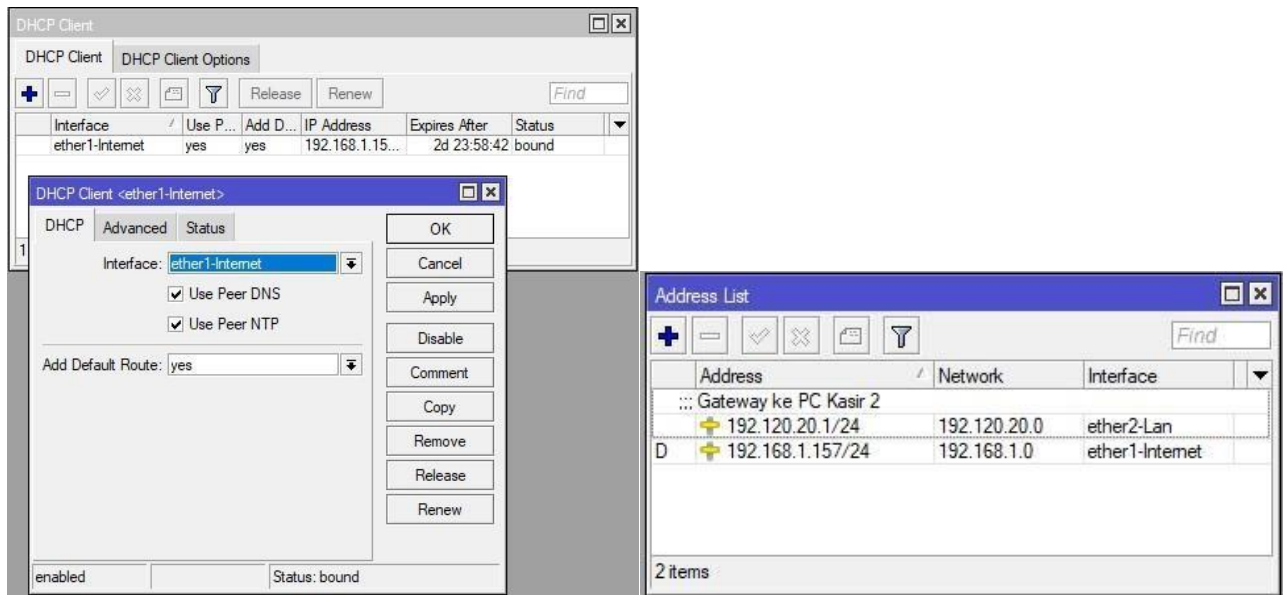
OK Cancel Apply Disable Comment Copy Remove

enabled



### 3. DHCP Client

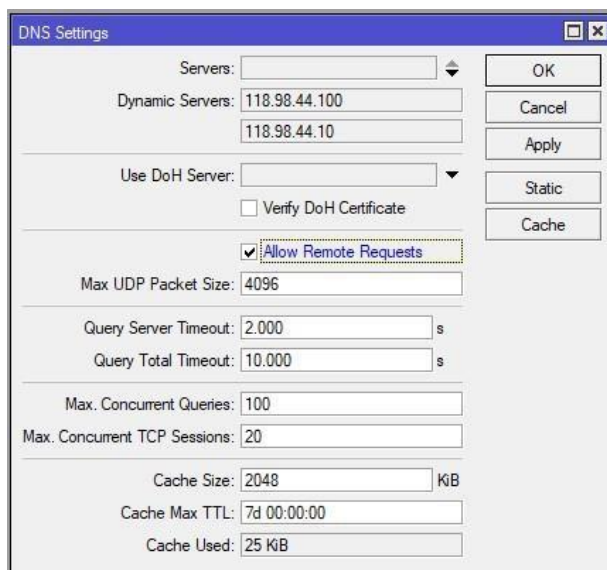
IP -> DHCP Client -> Klik tanda [+]



Address List

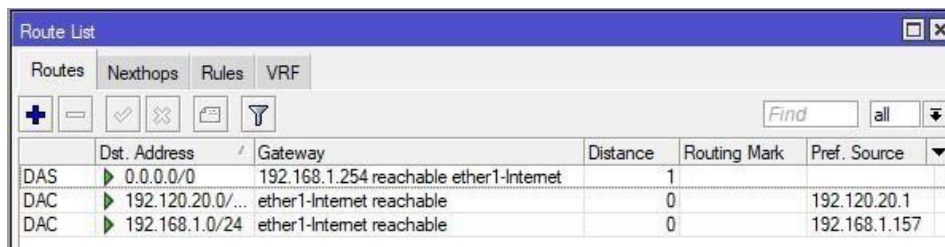
### 4. Konfigurasi DNS

IP -> DNS



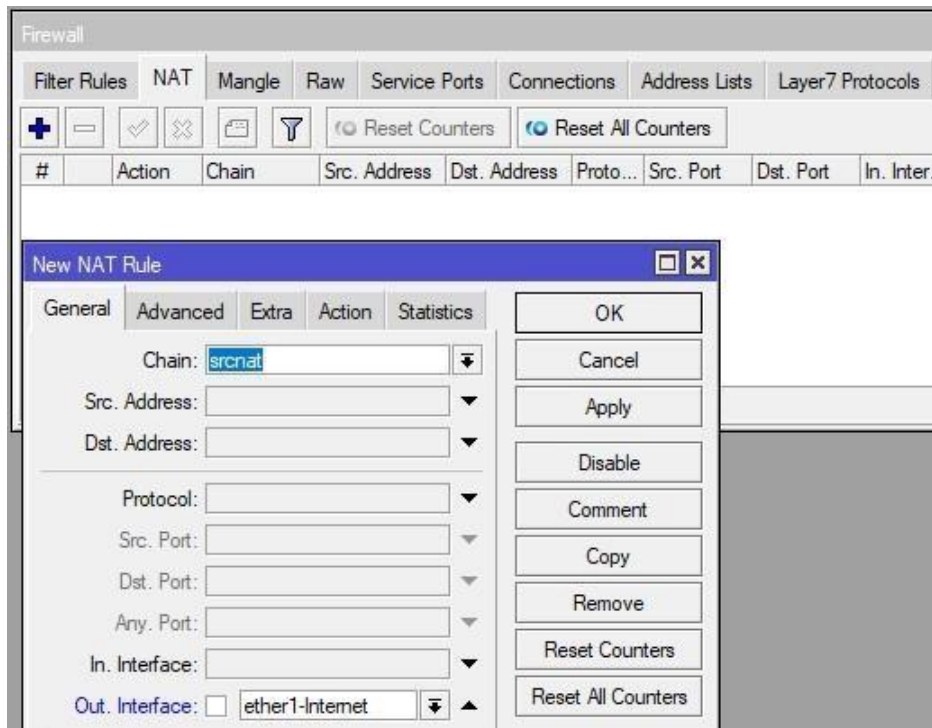
Centang [v] pada *Allow Remote Requests*

### 5. Konfigurasi Routes (Optional)

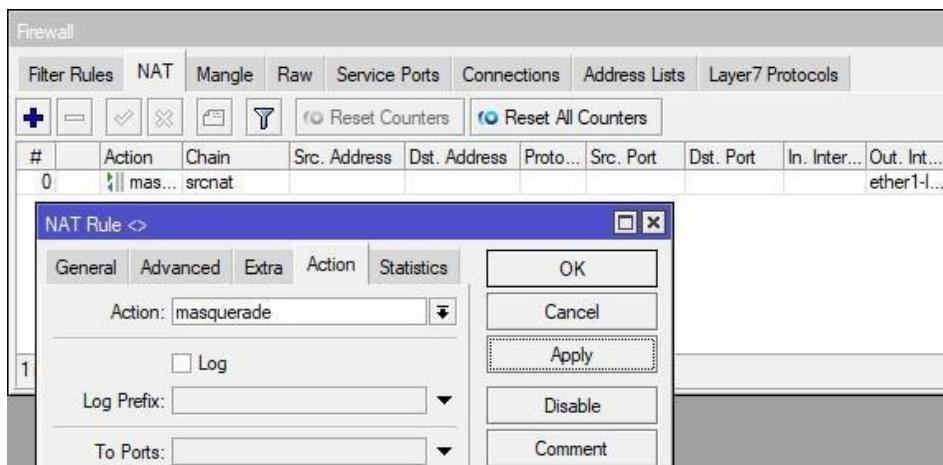


## 6. Firewall

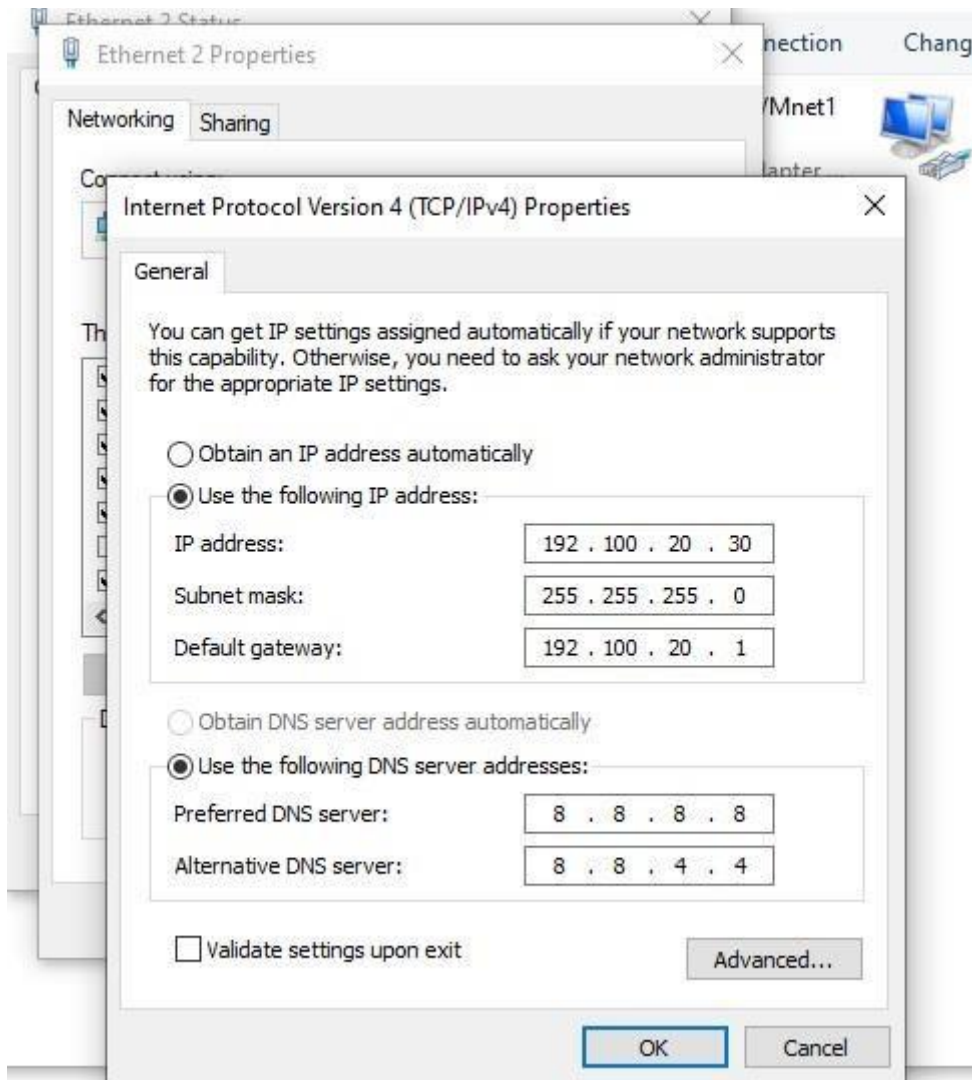
IP -> Firewall -> NAT > Pilih [+]



Pilih : Action



## 7. Konfigurasi IP Address PC Kasir 2



Pengujian koneksi ke jaringan internet/global

```
Command Prompt
Microsoft Windows [Version 10.0.19045.5371]
(c) Microsoft Corporation. All rights reserved.

C:\Users\HP2025-50REV>ping google.com

Pinging forcesafesearch.google.com [216.239.38.120] with 32 bytes of data:
Reply from 216.239.38.120: bytes=32 time=20ms TTL=116
Reply from 216.239.38.120: bytes=32 time=20ms TTL=116
Reply from 216.239.38.120: bytes=32 time=20ms TTL=116
Reply from 216.239.38.120: bytes=32 time=20ms TTL=116

Ping statistics for 216.239.38.120:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 20ms, Maximum = 20ms, Average = 20ms

C:\Users\HP2025-50REV>
```

## 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 langkah-langkahnya:

### Konfigurasi L2TP di Client

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

The screenshot shows the Mikrotik WinBox interface for configuring a PPP L2TP Client. The 'Interface' tab is selected, and the 'L2TP Client' configuration window is open for the interface named 'Server-Surabaya'. The configuration fields are as follows:

Name	Type	Actual MTU	L2 MTU	Tx
Server-Surabaya	L2TP Client	1450		0

The configuration window for 'Interface <Server-Surabaya>' is open, showing the 'General' tab. The fields are:

- Name: Server-Surabaya
- Type: L2TP Client
- Actual MTU: 1450
- Max MTU: 1450
- Max MRU: 1450
- MRRU: (empty)

Buttons on the right include OK, Cancel, Apply, Disable, Comment, and Copy.

The screenshot shows the Mikrotik WinBox interface for configuring a PPP L2TP Client. The 'Interface' tab is selected, and the 'L2TP Client' configuration window is open for the interface named 'Server-Surabaya'. The configuration fields are as follows:

Name	Type	Actual MTU	L2 MTU	Tx
Server-Surabaya	L2TP Client	1450		0

The configuration window for 'Interface <Server-Surabaya>' is open, showing the 'General' tab. The fields are:

- Connect To: 192.168.1.174
- User: Server-Jakarta
- Password: (masked with asterisks)
- Profile: default-encryption
- Keepalive Timeout: 60

Buttons on the right include OK, Cancel, Apply, Disable, Comment, and Copy.

Kemudian periksa di sisi server (Router-Jakarta)



PPP						
Interface PPPoE Servers Secrets Profiles Active Connections L2TP Secrets						
<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>						
Name	Service	Caller ID	Encoding	Address	Uptime	
L Server-Jakarta	l2tp	192.168.1.157	MPPE128 stateless	10.0.0.2	00:17:02	

Periksa di IP->Addresses

Address List			
<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>			
Address	Network	Interface	
D 10.0.0.1	10.0.0.2	<l2tp-Server-Jakarta>	
D 192.168.1.174/24	192.168.1.0	ether1-Internet	
::: PC Kasir 1			
D 192.200.10.1/24	192.200.10.0	ether2	
::: Server POST			
D 192.200.30.1/30	192.200.30.0	ether2	
4 items			

Kemudian periksa di sisi Client (Router-Surabaya) Pilih

: IP->IP Addresses

Address List			
<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>			
Address	Network	Interface	
D 10.0.0.2	10.0.0.1	Server-Surabaya	
::: Gateway ke PC Kasir 2			
D 192.100.20.1/24	192.100.20.0	ether2-Lan	
D 192.168.1.157/24	192.168.1.0	ether1-Internet	
3 items			

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

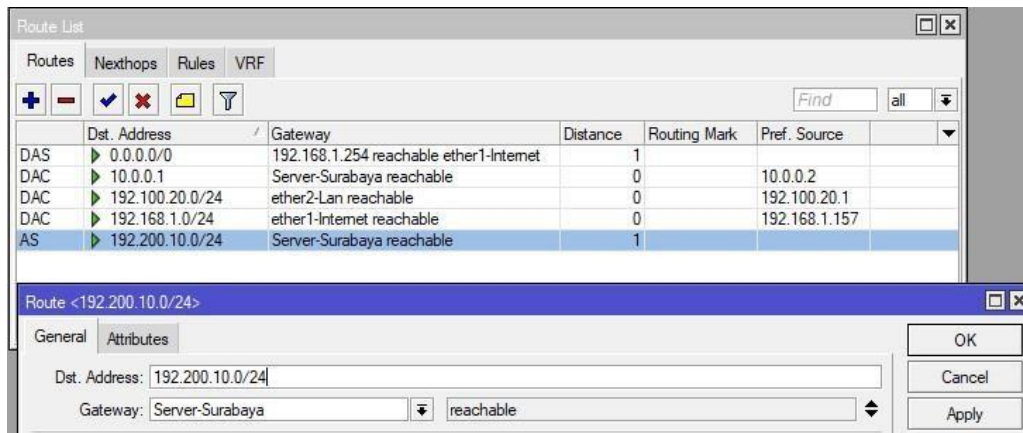
**Seting Router Static di Router-Jakarta Pilih : IP->Routes**

Route List				
Routes Nexthops Rules VRF				
<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>				
Dst. Address	Gateway	Distance		
DAS 0.0.0.0/0	192.168.1.254 reachable ether1-Internet	1		
DAC 10.0.0.2	<l2tp-Server-Jakarta> reachable	0		
AS 192.100.20.0/24	<l2tp-Server-Jakarta> reachable	1		
DAC 192.168.1.0/24	ether1-Internet reachable	0		
DAC 192.200.10.0/24	ether2 reachable	0		
DAC 192.200.30.0/30	ether2 reachable	0		

Route <192.100.20.0/24>		
General Attributes		
Dst. Address:	192.100.20.0/24	
Gateway:	<l2tp-Server-Jakarta>	reachable
Check Gateway:		
Type:	unicast	
<div> <div>OK</div> <div>Cancel</div> <div>Apply</div> <div>Disable</div> <div>Comment</div> </div>		

## 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

```
Command Prompt

C:\Users>ping 192.200.10.2

Pinging 192.200.10.2 with 32 bytes of data:
Reply from 192.200.10.2: bytes=32 time<1ms TTL=128
Reply from 192.200.10.2: bytes=32 time<1ms TTL=128
Reply from 192.200.10.2: bytes=32 time<1ms TTL=128
Reply from 192.200.10.2: bytes=32 time<1ms TTL=128

Ping statistics for 192.200.10.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

b. Pengujian dari PC Kasir 2 ke SERVER POST

```
C:\Users>ping 192.200.30.2

Pinging 192.200.30.2 with 32 bytes of data:
Reply from 192.200.30.2: bytes=32 time<1ms TTL=128
Reply from 192.200.30.2: bytes=32 time<1ms TTL=128
Reply from 192.200.30.2: bytes=32 time<1ms TTL=128
Reply from 192.200.30.2: bytes=32 time<1ms TTL=128

Ping statistics for 192.200.30.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

### 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 *Florent POS*, dengan install dan konfigurasi berbeda.

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

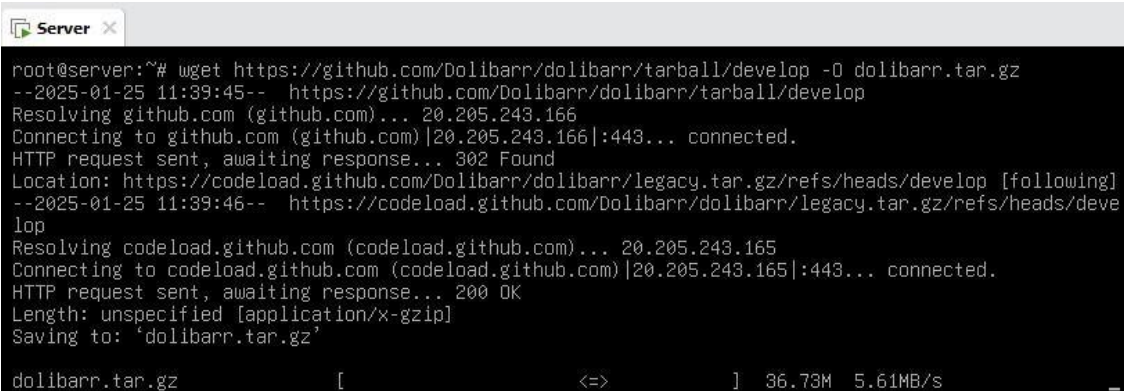
```
root@server:~# apt install apache2 mariadb-server php php-mysql php-gd php-xml phpjson  
php-ldap php-zip php-imap php-mbstring php-intl libapache2-mod-php php-curl
```

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
```



The screenshot shows a terminal window titled 'Server' with the following output from the command `wget https://github.com/Dolibarr/dolibarr/tarball/develop -O dolibarr.tar.gz`:

```
root@server:~# wget https://github.com/Dolibarr/dolibarr/tarball/develop -O dolibarr.tar.gz
--2025-01-25 11:39:45-- https://github.com/Dolibarr/dolibarr/tarball/develop
Resolving github.com (github.com)... 20.205.243.166
Connecting to github.com (github.com)|20.205.243.166|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://codeload.github.com/Dolibarr/dolibarr/legacy.tar.gz/refs/heads/develop [following]
--2025-01-25 11:39:46-- https://codeload.github.com/Dolibarr/dolibarr/legacy.tar.gz/refs/heads/develop
Resolving codeload.github.com (codeload.github.com)... 20.205.243.165
Connecting to codeload.github.com (codeload.github.com)|20.205.243.165|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [application/x-gzip]
Saving to: 'dolibarr.tar.gz'

dolibarr.tar.gz      [          ] 36.73M  5.61MB/s
```

```
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}/dolibarr_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)
```

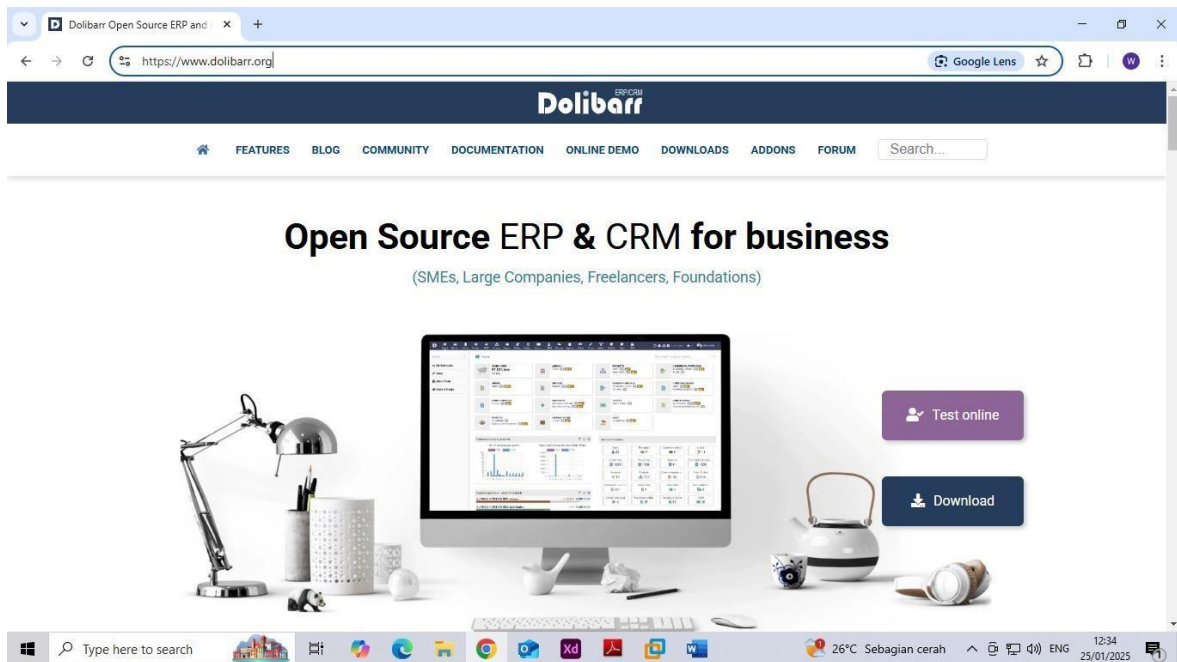
## 5. Akses Dolibarr

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 !