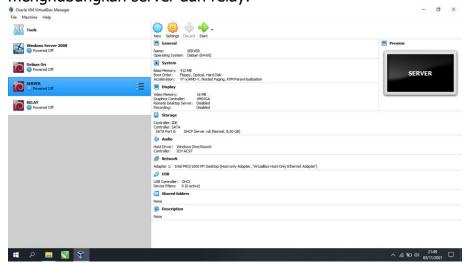
Konfigurasi DHCP Server & DHCP Relay Debian 10.x

By dimas gilang

1. Setting adapter pada server menjadi Host-Only Adapter untuk menghubungkan server dan relay.



2. Jalankan server dan setting IP address nya dengan perintah *nano* /etc/network/interfaces . Kemudian restart jaringan dengan perintah /etc/init.d/networking restart.

```
# 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
auto enpos3
iface enpos3 inet static
    address 192.168.11.254
    netmask 255.255.255.0
```

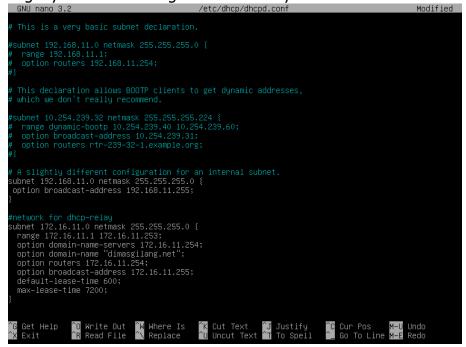
Install DHCP server dengan perintah apt-get install isc-dhcp-server

```
Install DACP server dengan perintan apt-get install isc-
rootedinasgilang: "# apt-get install isc-dhcp-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
   libirs-export161 libisccfg-export163 policycoreutils selinux-utils
Suggested packages:
   policykit-1 isc-dhcp-server-ldap
The following NEW packages will be installed:
   isc-dhcp-server libirs-export161 libisccfg-export163 policycoreutils selinux-utils
O upgraded, 5 newly installed, 0 to remove and 0 not upgraded.
Need to get 0 B71,615 kB of archives.
After this operation, 6,539 kB of additional disk space will be used.
Do you want to continue? [Y/n]
```

4. Konfigurasi interface yang digunakan untuk DHCP server dengan perintah /etc/default/isc-dhcp-server. Konfigurasi seperti gambar dibawah

```
/etc/default/isc-dhcp-serv
   DHCPDv4_PID=/var/run/dhcpd.pid
DHCPDv6_PID=/var/run/dhcpd6.pid
# On what interfaces should the DHCP server (dhcpd) serve DHCP requests?
# Separate multiple interfaces with spaces, e.g. "eth0 eth1".
INTERFACESv4="enp0s3<u>"</u>
INTERFACESv6=""
îG Get Help   îO Write Out  îW Where Is   îK Cut Text   îJ Justify   îC Cur Pos   M−U Undo
îX Exit     îR Read File   îN Replace   îU Uncut Text îT To Spell   î⊑ Go To Line M−E Redo
```

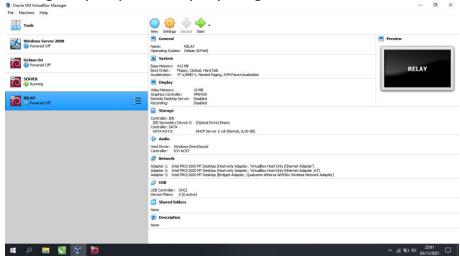
5. Konfigurasi DHCP server dengan perintah /etc/dhcp/dhcpd.conf. cari bagian A Slightly dan ketik konfigurasi dibawahnya.



6. Routing dengan perintah route add -net (ip tujuan) netmask (netmask) gw (ip gateway). Kemudian ketik perintah ip route untuk melihat hasilnya. Contoh nya seperti gambar dibawah.

root@dimasgilang:~# route add –net 172.16.11.0 netmask 255.255.255.0 gw 192.168.11.1 root@dimasgilang:~# ip route 172.16.11.0/24 via 192.168.11.1 dev enpOs3 192.168.11.0/24 dev enpOs3 proto kernel scope link src 192.168.11.254 root@dimasgilang:~# _

7. Setting adapter pada Relay seperti gambar dibawah



8. Setting IP address dengan perintah nano /etc/network/interfaces. Kemudian simpan konfigurasi dan jangan lupa untuk merestart jaringan dengan perintah/etc/init.d/networking restart

```
# 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 10
iface lo inet loopback

# The primary network interface
auto enpos3
iface enpos3 inet static
    address 192.168.11.1
    netmask 255.255.255.0

auto enpos8
iface enpos8 inet static
    address 172.16.11.254
    netmask 255.255.255.0

auto enpos9
iface enpos9 inet dhcp

root@dimasgilang:~# /etc/init.d/networking restart
[ ok ] Restarting networking (via systemctl): networking.service.
root@dimasgilang:~#
```

9. Install DHCP relay dengan perintah apt-get install isc-dhcp-relay. Saya menggunakan repository online untuk menginstall dhcp relay ini.

```
menggunakan repository online untuk mengi rootddimasgilang:~# apt-get install isc-dhcp-relay Reading package lists... Done Building dependency tree Reading state information... Done The following additional packages will be installed: libirs-export161 libiscofg-export163
The following NEW packages will be installed: isc-dhcp-relay libirs-export161 libiscofg-export163 o upgraded, 3 newly installed, 0 to remove and 77 not upgraded. Need to get 790 kB of archives.
After this operation, 1,294 kB of additional disk space will be used. Do you want to continue? [Y/n] y_
```

10. Konfigurasi seperti gambar dibawah, jika muncul daemon kosongi saja



11. Ketikan dhcrelay 192.168.11.254

```
INTERFACES="enpose"

# Additional options that are passed to the DHCP relay daemon?

OPTIONS=""

root@dimasgilang:~# dhcrelay 192.168.11.254

Internet Systems Consortium DHCP Relay Agent 4.4.1
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for info, please visit https://www.isc.org/software/dhcp/
Listening on LFP/enpos9:avahi/08:00:27:87:78:8b

Listening on LFP/enpos9:avahi/08:00:27:87:78:8b

Listening on LFP/enpos9:08:00:27:87:78:8b

Listening on LFP/enpos9:08:00:27:87:78:8b

Listening on LFP/enpos9:08:00:27:87:78:8b

Listening on LFP/enpos8/08:00:27:87:76:8b

Sending on LFP/enpos8/08:00:27:87:76:8b

Sending on LFP/enpos8/08:00:27:65:cb

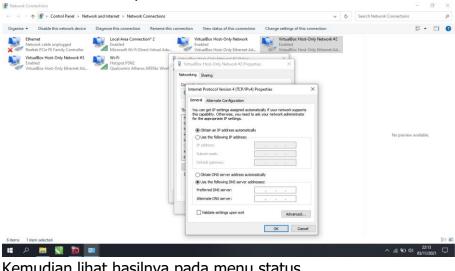
Sending on LFP/enpos8/08:00:27:74:c6:cb

Sending on LFP/enpos8/08:00:27:75:28:65

Sending on LFP/enpos8/08:00:27:c5:28:65

Sending on Socket/fallback
root@dimasgilang:~#
```

12. Setting adapter client pada bagian IPv4, ubah dari static menjadi **DHCP/automatically**



13. Kemudian lihat hasilnya pada menu status

