

Router

login dengan username dan password

ip a

Pastikan terdapat tiga interface ens33, ens34 dan ens35

nano /etc/network/interfaces

```
auto lo
iface lo inet loopback

auto ens33
iface ens33 inet static
    address 10.120.1.2/30

auto ens34
iface ens34 inet static
    address 10.130.0.30/27

auto ens35
iface ens35 inet dhcp
```

simpan konfigurasi (ctrl + o dan ctrl + x)

/etc/init.d/networking restart

nano /etc/sysctl.conf

carilah baris berikut, dan hilangkan tanda hashtag pada baris tersebut :::

```
net.ipv4.ip_forward=1
```

selanjutnya simpan dan restart layanan router

reboot

masukkan dvd repository dlbd

apt-cdrom add

nano /etc/apt/sources.list

```
deb [trusted=yes] cdrom:[Debian GNU/Linux 7.5.0 _Wheezy_ - Official DLBD Binary-1 20140426-13:37]/ wheezy main
```

pastikan repository DLBD sudah ada dan bertanda parameter trusted [trusted=yes], dan berikan tanda # pada baris repository yg lain,

simpan dan lakukan update

apt update

iptables -t nat -A POSTROUTING -o ens35 -j MASQUERADE

apt install iptables-persistent

1. Save Current IPv4 Rules = yes

apt install isc-dhcp-relay

pada proses instalasi layanan dhcp relay kita akan diajukan beberapa pertanyaan yang perlu dijawab...

Server the DHCP relay should forward request to :

10.120.1.1

-----Server

login dengan username dan password

```
# ip a
# nano /etc/network/interfaces
```

```
auto lo
iface lo inet loopback

auto ens33
iface ens33 inet static
    address 10.120.1.1/30
    gateway 10.120.1.2
```

Simpan konfigurasi (ctrl + o dan ctrl + x)

```
# /etc/init.d/networking restart
```

masukkan dvd repository dlbd

```
# apt-cdrom add
# nano /etc/apt/sources.list
```

```
deb [trusted=yes] cdrom:[Debian GNU/Linux 7.5.0 _Wheezy_ - Official DLBD Binary-1 20140426-13:37]/ wheezy main
```

pastikan repository DLBD sudah ada dan bertanda parameter trusted [trusted=yes], dan berikan tanda # pada baris repository yg lain, simpan dan lakukan update

```
# apt update
# apt install isc-dhcp-server
# nano /etc/default/isc-dhcp-server
```

```
INTERFACES="ens33"
```

```
# nano /etc/dhcp/dhcpd.conf
```

```
subnet 10.130.0.0 netmask 255.255.255.224 {
    range 10.130.0.1 10.130.0.29;
    option domain-name-servers 10.120.1.1;
    option domain-name "ukksmk4gtlo-namasiswa.sch.id";
    option routers 10.130.0.30;
    option broadcast-address 10.130.0.31;
    default-lease-time 600;
    max-lease-time 7200;
}
```

```
# /etc/init.d/isc-dhcp-server restart
# reboot
```

```
# apt install apache2 php
# cd /var/www/html
# cat > index.html
```

```
<h1>UKK SMK Negeri 4 Gorontalo</h1>
<h1>Teknik Komputer & Jaringan</h1>
<h1>Walid Umar</h1>
```

Ctrl + D

```
# cat > index.php
```

```
<?php
    phpinfo();
?>
```

```
# apt install bind9
```

```
# cd /etc/bind/
```

```
# cp db.local db.ukk
```

```
# cp db.127 db.10
```

```
# nano named.conf.local
```

```
zone "ukksmk4gtlo-namasiswa.sch.id" {
    type master;
    file "/etc/bind/db.ukk";
};

zone "1.120.10.in-addr.arpa" {
    type master;
    file "/etc/bind/db.10";
};
```

```
# nano db.ukk
```

```
$TTL      604800
@         IN      SOA      ukksmk4gtlo-namasiswa.sch.id. ukksmk4gtlo-namasiswa.sch.id. (
                                2          ; Serial
                                604800     ; Refresh
                                86400      ; Retry
                                2419200    ; Expire
                                604800 )   ; Negative Cache TTL
;
@         IN      NS      ns.ukksmk4gtlo-namasiswa.sch.id.
@         IN      A       10.120.1.1
ns        IN      A       10.120.1.1
web       IN      A       10.120.1.1
```

```
# nano db.10
```

```
$TTL      604800
@         IN      SOA      ukksmk4gtlo-namasiswa.sch.id. root.ukksmk4gtlo-namasiswa.sch.id. (
                                2          ; Serial
                                604800     ; Refresh
                                86400      ; Retry
                                2419200    ; Expire
                                604800 )   ; Negative Cache TTL
;
@         IN      NS      ukksmk4gtlo-namasiswa.sch.id.
1         IN      PTR     ukksmk4gtlo-namasiswa.sch.id.
1         IN      PTR     ns.ukksmk4gtlo-namasiswa.sch.id.
1         IN      PTR     web.ukksmk4gtlo-namasiswa.sch.id.
```

```
# nano named.conf.options
```

```
forwarders {
    10.120.1.1;
    8.8.8.8;
};
```

```
# nano /etc/resolv.conf
```

```
nameserver 10.120.1.1
nameserver 8.8.8.8
```