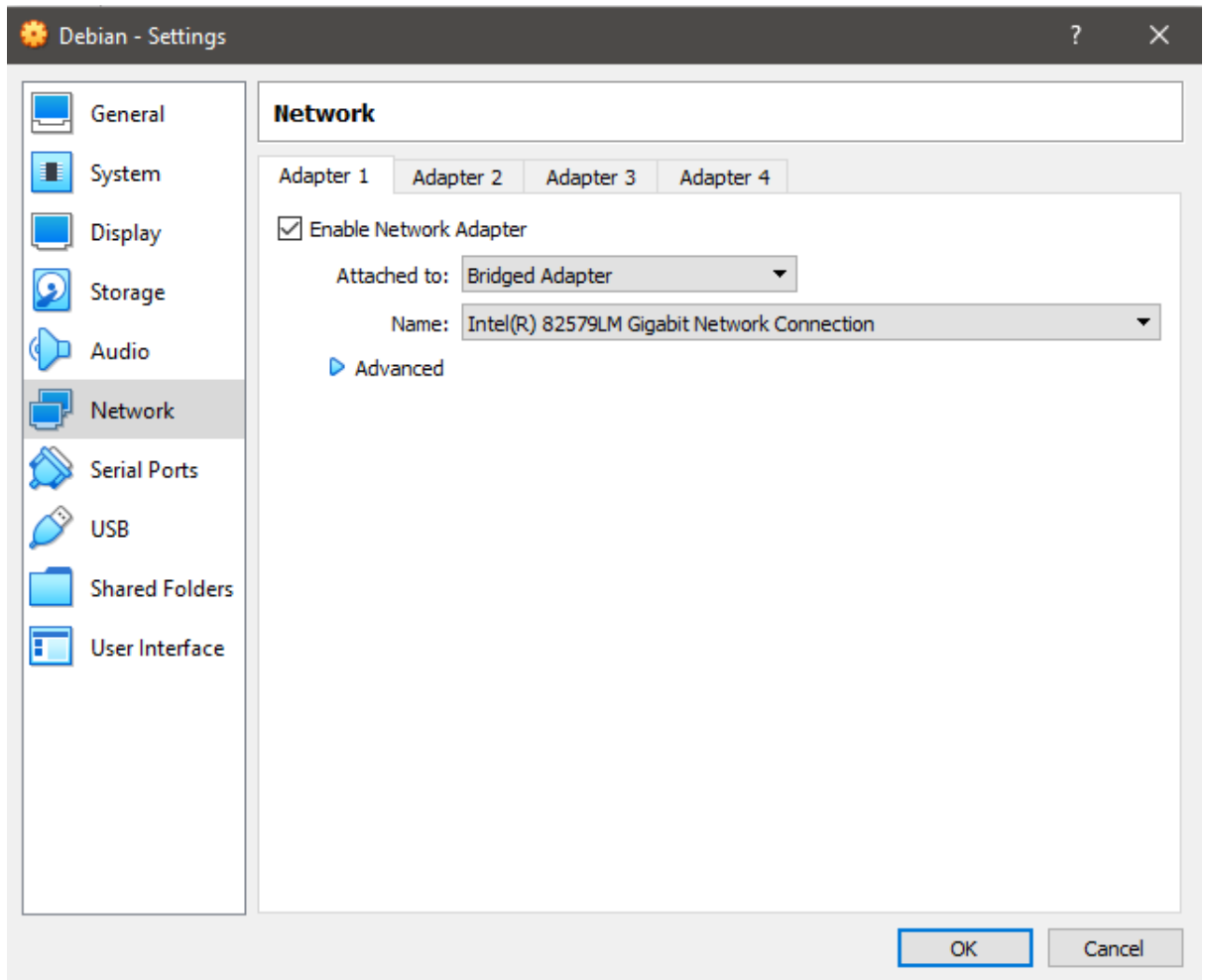


1. Kita konfigurasi virtual machine terlebih dahulu, disini pakai bridge kalau komputer arahkan ke “Realtek”



*Gambar 1: Konfigurasi Interface*

2. Setelah itu kita konfigurasi ip addressnya, disini saya setting static menjadi ip “192.168.20.7”

```
GNU nano 3.2 /etc/network/interfaces Modified
# 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

auto enp0s3
iface enp0s3 inet static
    address 192.168.20.7
    gateway 192.168.20.1
    netmask 255.255.255.0
```

*Gambar 2: Konfigurasi IP Address*

3. Lalu kita insert repository sesuai versinya bisa dilihat dengan cara “cat /etc/debian\_version”

```

root@alphacntauri:~# cat /etc/debian_version
10.5
root@alphacntauri:~# cat /etc/apt/sources.list
#

# deb cdrom:[Debian GNU/Linux 10.5.0 _Buster_ - Official amd64 DVD Binary-1 20200801-11:35]/ buster
contrib main

deb cdrom:[Debian GNU/Linux 10.5.0 _Buster_ - Official amd64 DVD Binary-1 20200801-11:35]/ buster co
ntrib main

# Line commented out by installer because it failed to verify:
#deb http://security.debian.org/debian-security buster/updates main contrib
# Line commented out by installer because it failed to verify:
#deb-src http://security.debian.org/debian-security buster/updates main contrib

# buster-updates, previously known as 'volatile'
# A network mirror was not selected during install. The following entries
# are provided as examples, but you should amend them as appropriate
# for your mirror of choice.
#
# deb http://deb.debian.org/debian/ buster-updates main contrib
# deb-src http://deb.debian.org/debian/ buster-updates main contrib

deb http://kartolo.sby.datautama.net.id/debian/ buster main contrib non-free
deb http://kartolo.sby.datautama.net.id/debian/ buster-updates main contrib non-free
deb http://kartolo.sby.datautama.net.id/debian-security/ buster/updates main contrib non-free
root@alphacntauri:~# _

```

*Gambar 3: Version debian & Repository*

4. Next selanjutnya kita update repository dulu

```

root@alphacntauri:~# apt update -y
Ign:1 cdrom://[Debian GNU/Linux 10.5.0 _Buster_ - Official amd64 DVD Binary-1 20200801-11:35] buster
InRelease
Err:2 cdrom://[Debian GNU/Linux 10.5.0 _Buster_ - Official amd64 DVD Binary-1 20200801-11:35] buster
Release
Please use apt-cdrom to make this CD-ROM recognized by APT. apt-get update cannot be used to add n
ew CD-ROMs
Hit:3 http://kartolo.sby.datautama.net.id/debian buster InRelease
Hit:4 http://kartolo.sby.datautama.net.id/debian buster-updates InRelease
Hit:5 http://kartolo.sby.datautama.net.id/debian-security buster/updates InRelease
Ign:6 https://pkg.jenkins.io/debian-stable binary/ InRelease
Hit:7 https://pkg.jenkins.io/debian-stable binary/ Release
Hit:8 http://ftp.au.debian.org/debian buster InRelease
Ign:9 http://download.webmin.com/download/repository sarge InRelease
Hit:11 http://download.webmin.com/download/repository sarge Release
Reading package lists... Done
E: The repository 'cdrom://[Debian GNU/Linux 10.5.0 _Buster_ - Official amd64 DVD Binary-1 20200801-
11:35] buster Release' does not have a Release file.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
root@alphacntauri:~#

```

*Gambar 4: Update repository*

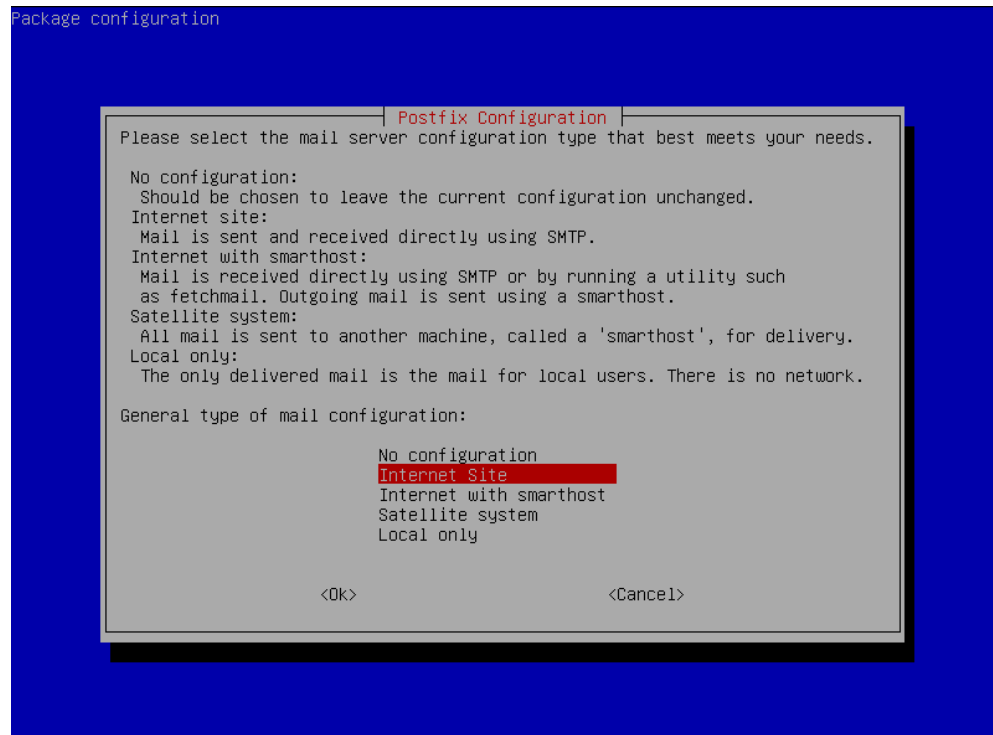
5. Nah sebelumnya kita telah konfigurasi DNS, di step selanjutnya kita install package yang dibutuhkan, dengan command “apt install postfix roundcube dovecot-imapd dovecot-pop3d -y”

```

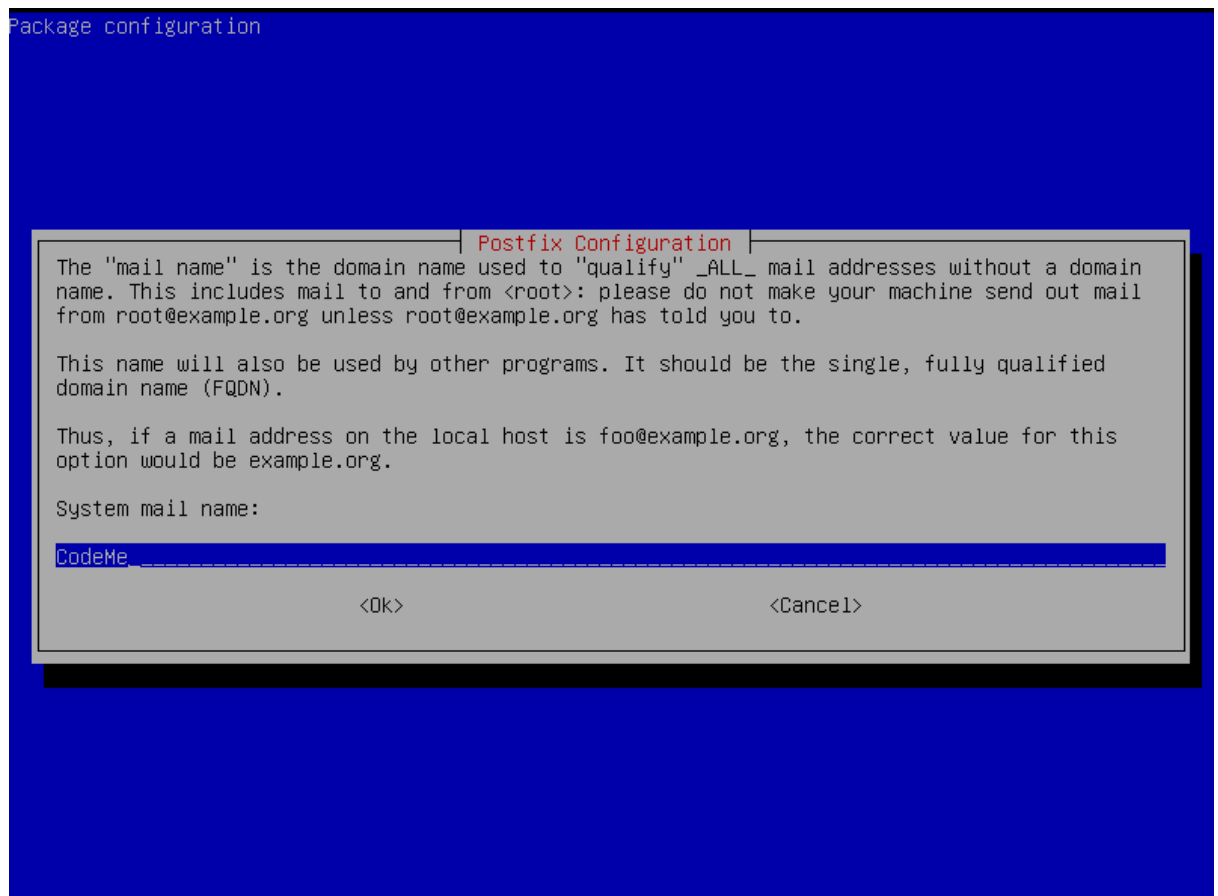
root@alphacntauri:~# apt install dovecot-imapd dovecot-pop3d postfix roundcube -y _

```

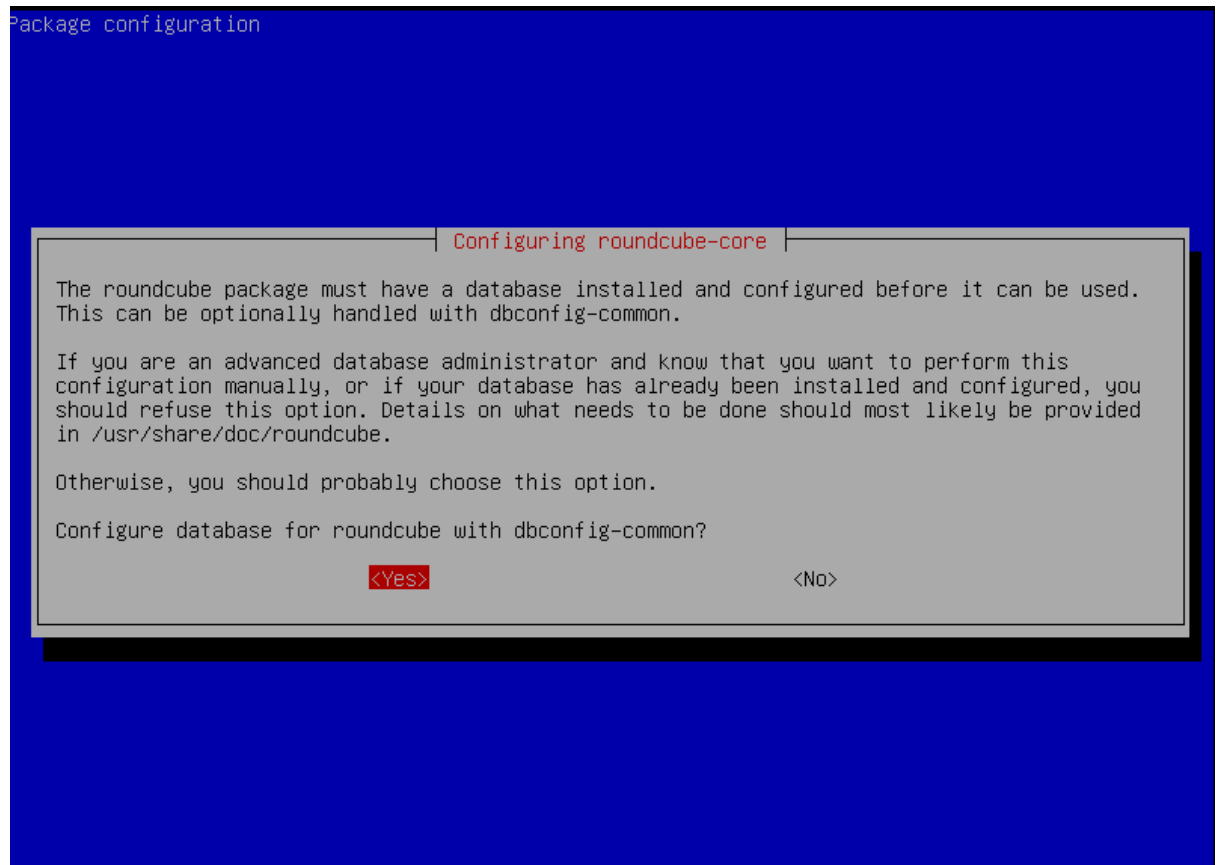
*Gambar 5: Install package*



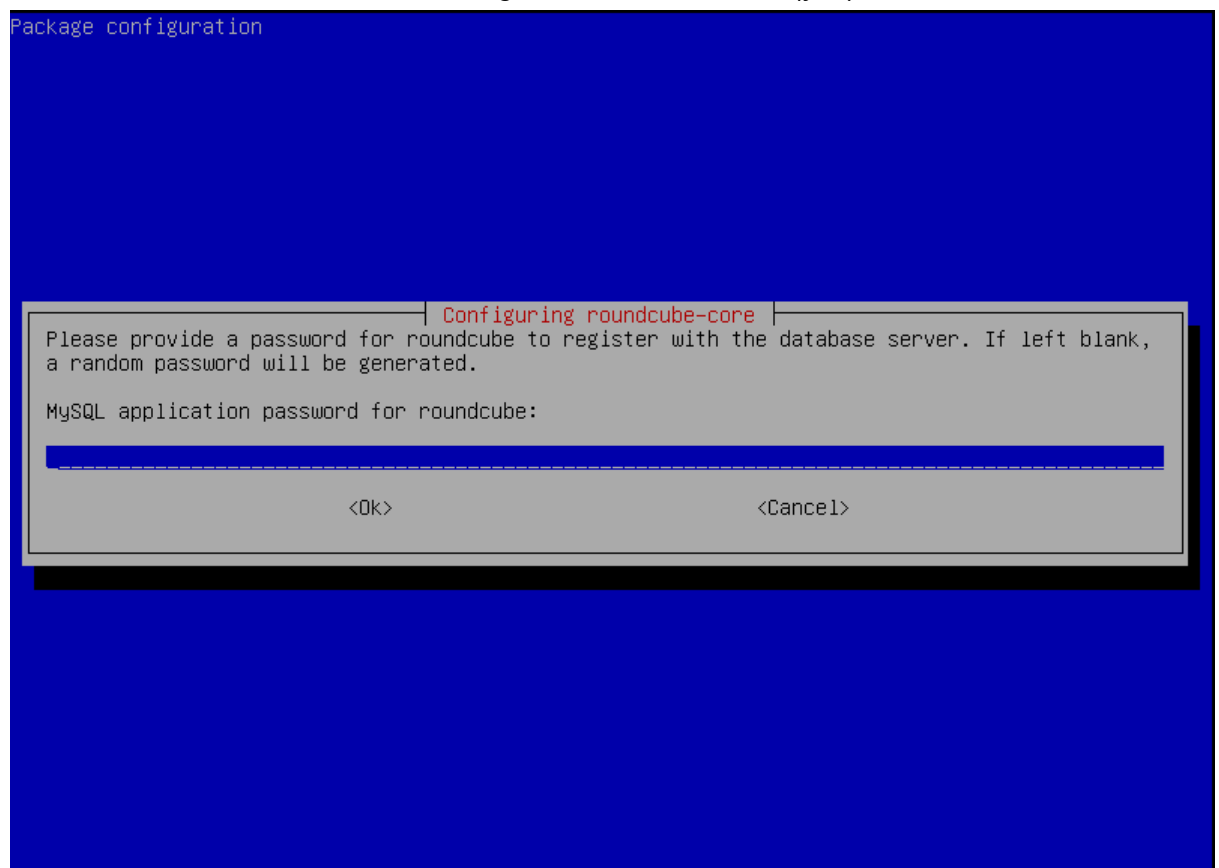
*Gambar 5.2: Postfix configuration*



*Gambar 5.3: Name Mailserver*

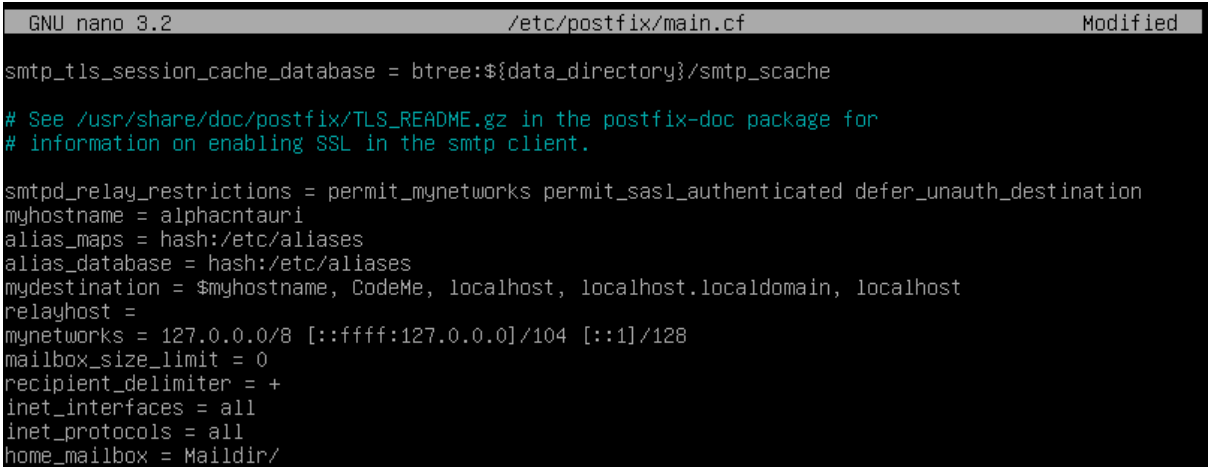


*Gambar 5.3: Konfigurasi DB Roundcube (yes)*



*Gambar 5.4: Password database*

6. Setelah itu kita konfigurasi file “;/etc/postfix/main.cf”



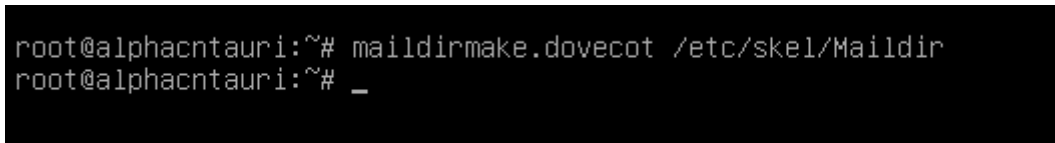
```
GNU nano 3.2 /etc/postfix/main.cf Modified

smtp_tls_session_cache_database = btree:${data_directory}/smtp_scache

# See /usr/share/doc/postfix/TLS_README.gz in the postfix-doc package for
# information on enabling SSL in the smtp client.

smtpd_relay_restrictions = permit_mynetworks permit_sasl_authenticated defer_unauth_destination
myhostname = alphacntauri
alias_maps = hash:/etc/aliases
alias_database = hash:/etc/aliases
mydestination = $myhostname, CodeMe, localhost, localhost.localdomain, localhost
relayhost =
mynetworks = 127.0.0.0/8 [::ffff:127.0.0.0]/104 [::1]/128
mailbox_size_limit = 0
recipient_delimiter = +
inet_interfaces = all
inet_protocols = all
home_mailbox = Maildir/
```

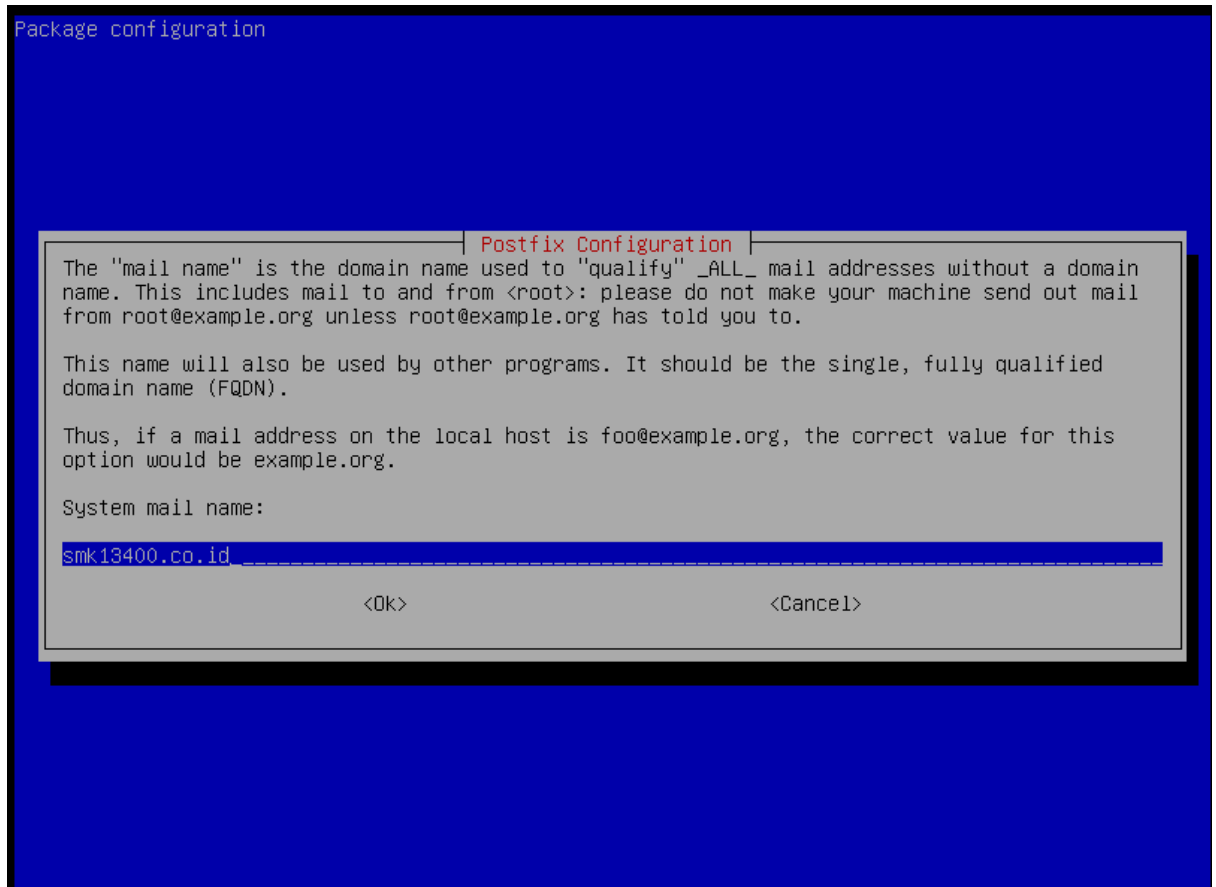
*Gambar 6.1: Konfigurasi mailbox*



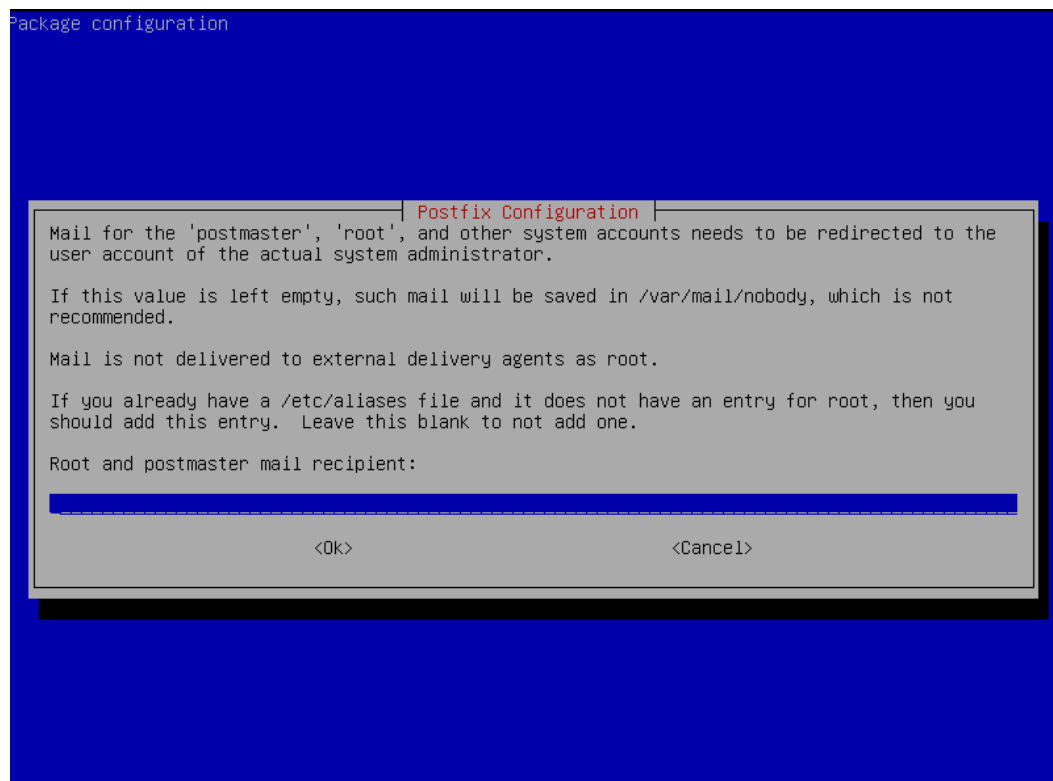
```
root@alphacntauri:~# maildirmake.dovecot /etc/skel/Maildir
root@alphacntauri:~# _
```

*Gambar 6.2: Maildirmake*

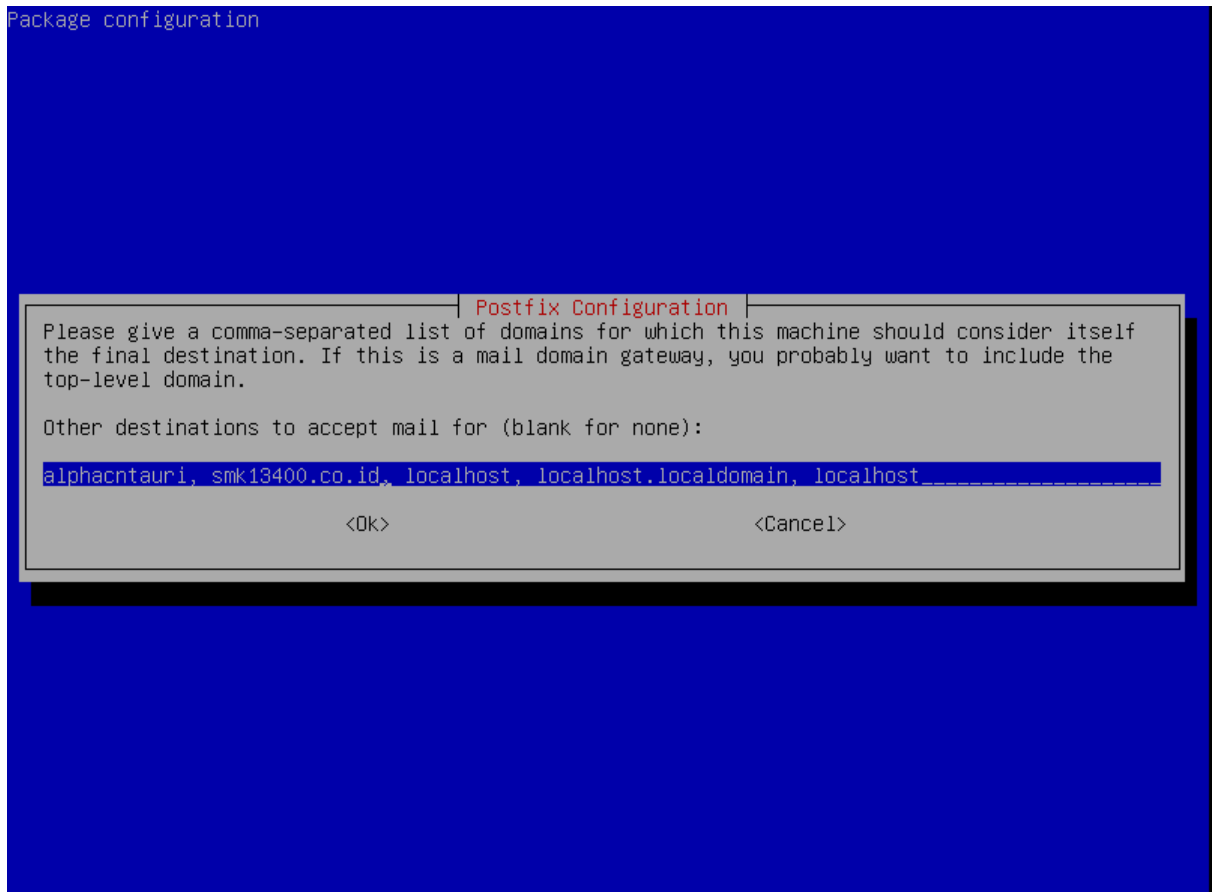
7. Nah jangan lupa kita “dpkg-reconfigure postfix”



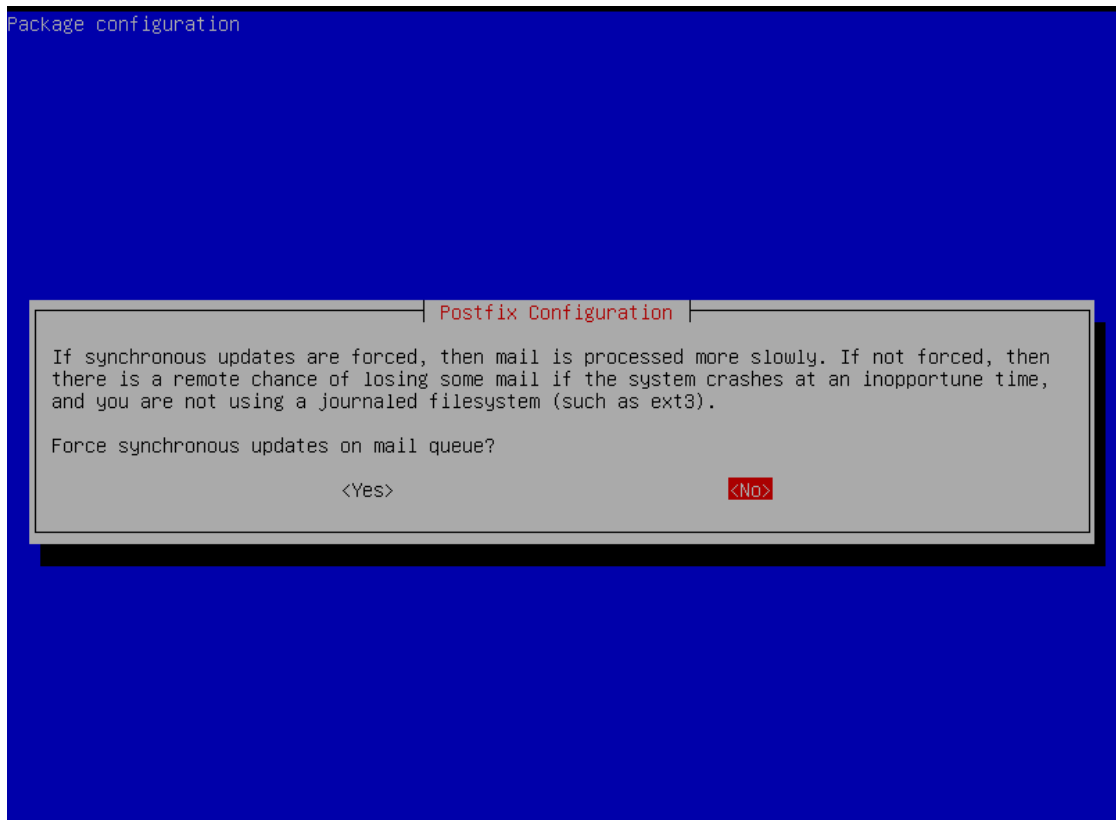
Gambar 7.1: DNS Server



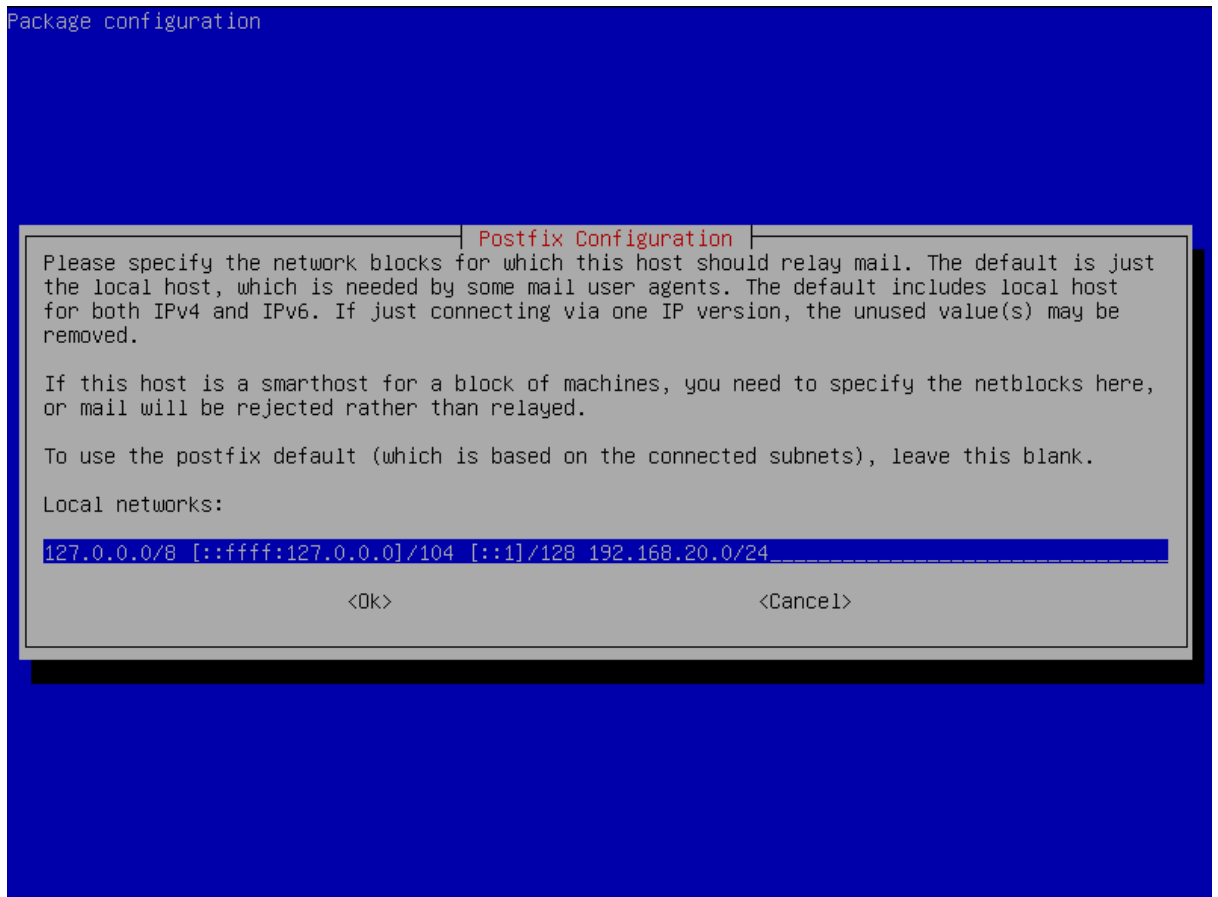
Gambar 7.2: Root , kosongin aja



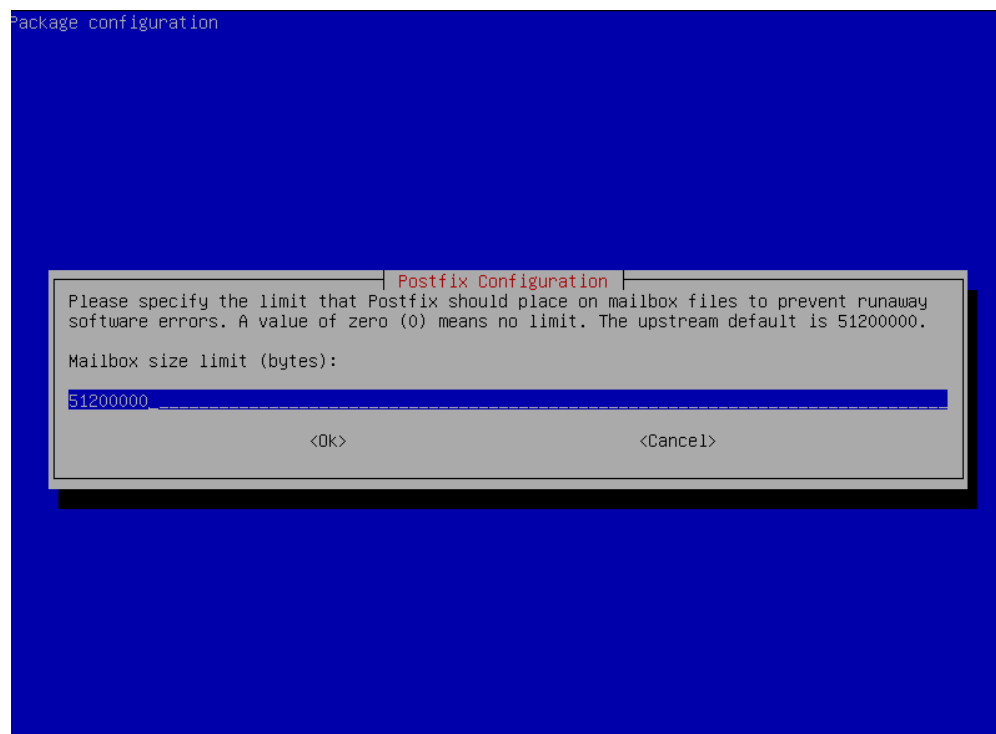
*Gambar 7.3: Destination accept*



*Gambar 7.4: Mail queue (no)*



*Gambar 7.5: Tambahin network address*



*Gambar 7.6: Mailbox size*



Package configuration

**Postfix Configuration**

Please choose the character that will be used to define a local address extension.

To not use address extensions, leave the string blank.

Local address extension character:

+

<Ok> <Cancel>

*Gambar 7.7: Enter aja*

Package configuration

**Postfix Configuration**

By default, whichever Internet protocols are enabled on the system at installation time will be used. You may override this default with any of the following:

all : use both IPv4 and IPv6 addresses;  
ipv6: listen only on IPv6 addresses;  
ipv4: listen only on IPv4 addresses.

Internet protocols to use:

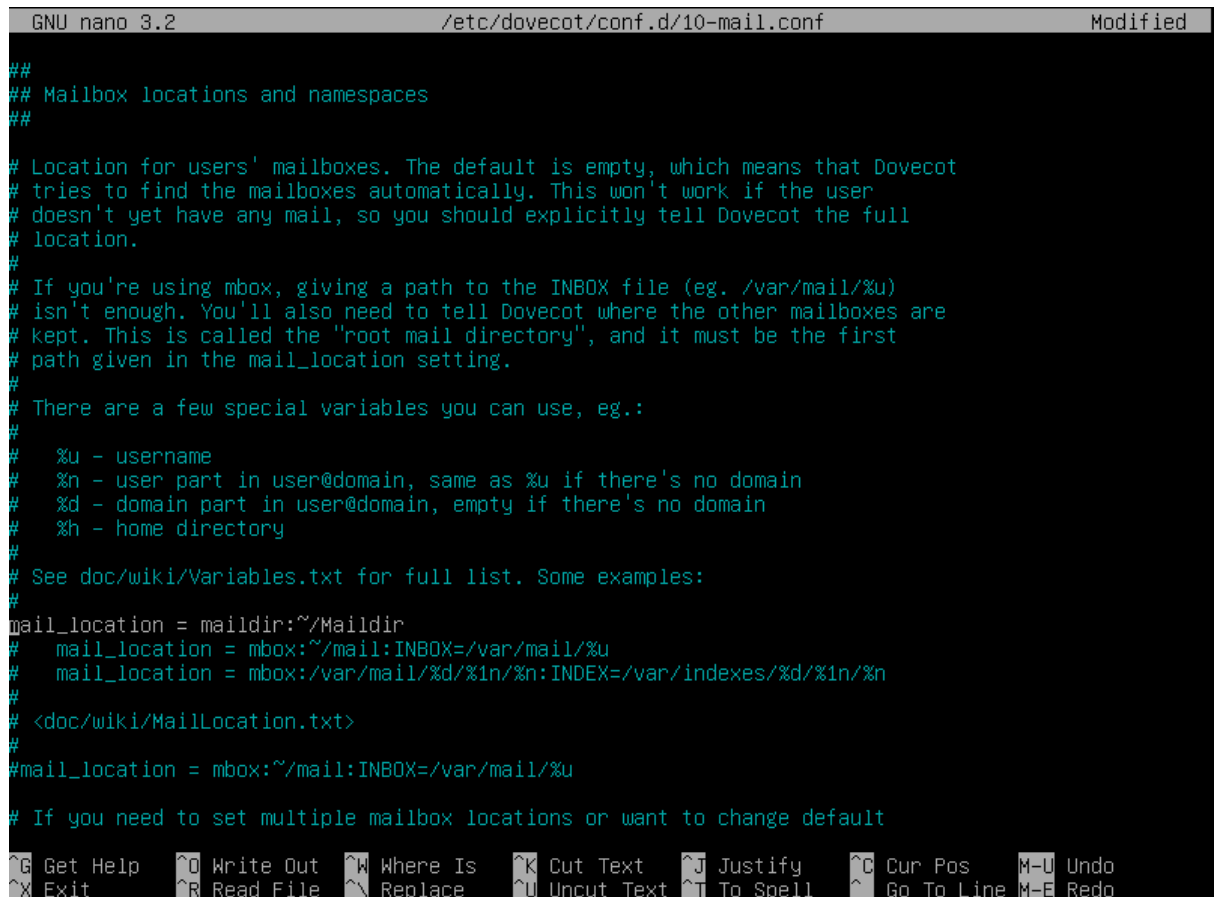
all  
ipv6  
ipv4

<Ok> <Cancel>

8. Lalu konfigurasi file “10-mail.conf” di “/etc/dovecot/conf.d/10-mail.conf”

```
root@alphacntauri:~# nano /etc/dovecot/  
conf.d/  
dovecot.conf  
root@alphacntauri:~# nano /etc/dovecot/  
conf.d/  
dovecot.conf  
root@alphacntauri:~# nano /etc/dovecot/conf.d/10-mail.conf _
```

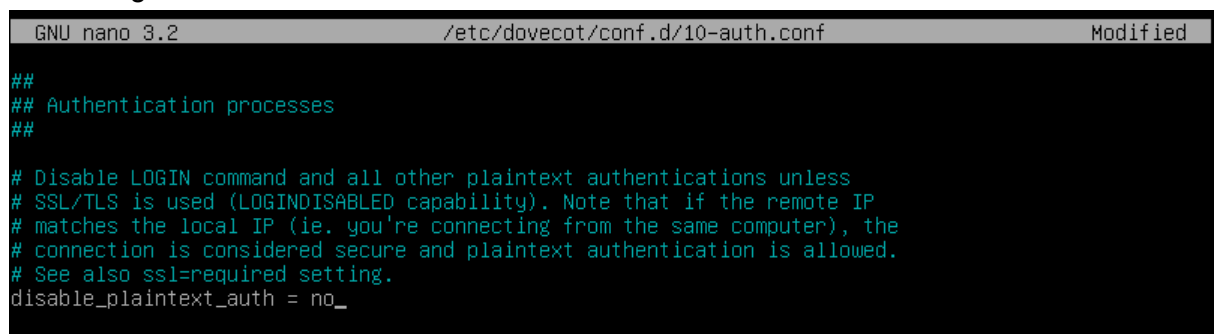
*Gambar 8.1: Nano file*



```
GNU nano 3.2 /etc/dovecot/conf.d/10-mail.conf Modified  
##  
## Mailbox locations and namespaces  
##  
# Location for users' mailboxes. The default is empty, which means that Dovecot  
# tries to find the mailboxes automatically. This won't work if the user  
# doesn't yet have any mail, so you should explicitly tell Dovecot the full  
# location.  
#  
# If you're using mbox, giving a path to the INBOX file (eg. /var/mail/%u)  
# isn't enough. You'll also need to tell Dovecot where the other mailboxes are  
# kept. This is called the "root mail directory", and it must be the first  
# path given in the mail_location setting.  
#  
# There are a few special variables you can use, eg.:  
#  
# %u - username  
# %n - user part in user@domain, same as %u if there's no domain  
# %d - domain part in user@domain, empty if there's no domain  
# %h - home directory  
#  
# See doc/wiki/Variables.txt for full list. Some examples:  
#  
mail_location = maildir:~/Maildir  
# mail_location = mbox:~/mail:INBOX=/var/mail/%u  
# mail_location = mbox:/var/mail/%d/%1n/%n:INDEX=/var/indexes/%d/%1n/%n  
#  
# <doc/wiki/MailLocation.txt>  
#  
mail_location = mbox:~/mail:INBOX=/var/mail/%u  
#  
# If you need to set multiple mailbox locations or want to change default  
  
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos M-U Undo  
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Spell ^_ Go To Line M-E Redo
```

*Gambar 8.2: mail\_location*

9. Lalu konfigurasi file “10-auth.conf” di “/etc/dovecot/conf.d/10-auth.conf”



```
GNU nano 3.2 /etc/dovecot/conf.d/10-auth.conf Modified  
##  
## Authentication processes  
##  
# Disable LOGIN command and all other plaintext authentications unless  
# SSL/TLS is used (LOGINDISABLED capability). Note that if the remote IP  
# matches the local IP (ie. you're connecting from the same computer), the  
# connection is considered secure and plaintext authentication is allowed.  
# See also ssl=required setting.  
disable_plaintext_auth = no_
```

*Gambar 9: Disable plaintext auth*

10. Next kita konfigurasi “/etc/roundcube/config.inc.php”

```
GNU nano 3.2 /etc/roundcube/config.inc.php Modified

// %s - domain name after the '@' from e-mail address provided at login screen
// For example %n = mail.domain.tld, %t = domain.tld
$config['default_host'] = 'smk13400.co.id';

// SMTP server host (for sending mails).
// Enter hostname with prefix tls:// to use STARTTLS, or use
// prefix ssl:// to use the deprecated SSL over SMTP (aka SMTPS)
// Supported replacement variables:
// %h - user's IMAP hostname
// %n - hostname ($_SERVER['SERVER_NAME'])
// %t - hostname without the first part
// %d - domain (http hostname $_SERVER['HTTP_HOST'] without the first part)
// %z - IMAP domain (IMAP hostname without the first part)
// For example %n = mail.domain.tld, %t = domain.tld
$config['smtp_server'] = 'smk13400.co.id';

// SMTP port (default is 25; use 587 for STARTTLS or 465 for the
// deprecated SSL over SMTP (aka SMTPS))
$config['smtp_port'] = 25;

// SMTP username (if required) if you use %u as the username Roundcube
// will use the current username for login
$config['smtp_user'] = '';

// SMTP password (if required) if you use %p as the password Roundcube
// will use the current user's password for login
$config['smtp_pass'] = '';

// provide an URL where a user can get support for this Roundcube installation
// PLEASE DO NOT LINK TO THE ROUNDcube.NET WEBSITE HERE!
$config['support_url'] = '';
```

Gambar 10: Config file, sesuaikan DNS masing masing

11. Setelah selesai kita buat virtualhost terlebih dahulu untuk mail server kita

```
root@alphacntauri:/etc/apache2/sites-available# cp 000-default.conf mail.conf
root@alphacntauri:/etc/apache2/sites-available# nano mail.conf _
```

Gambar 11.1: Copy 000 to mail.conf

```
GNU nano 3.2 mail.conf Modified
<VirtualHost *:80>
    # The ServerName directive sets the request scheme, hostname and port that
    # the server uses to identify itself. This is used when creating
    # redirection URLs. In the context of virtual hosts, the ServerName
    # specifies what hostname must appear in the request's Host: header to
    # match this virtual host. For the default virtual host (this file) this
    # value is not decisive as it is used as a last resort host regardless.
    # However, you must set it for any further virtual host explicitly.
    ServerName mail.smk13400.co.id

    ServerAdmin webmaster@localhost
    DocumentRoot /var/lib/roundcube

    # 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}/error.log
    CustomLog ${APACHE_LOG_DIR}/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>

# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
```

Gambar 11.2: Vhost mail.conf

```
root@alphacntauri:/etc/apache2/sites-available# a2ensite mail.conf
Enabling site mail.
To activate the new configuration, you need to run:
  systemctl reload apache2
root@alphacntauri:/etc/apache2/sites-available# systemctl restart apache2
root@alphacntauri:/etc/apache2/sites-available# _
```

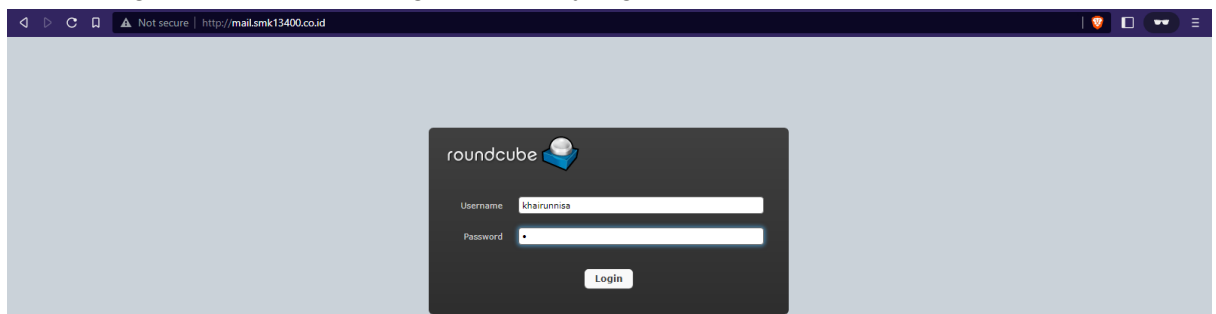
Gambar 11.3: a2ensite

12. Lalu buat 2 user untuk testing disini saya membuat dengan nama “khairunnisa” dan “ryan”

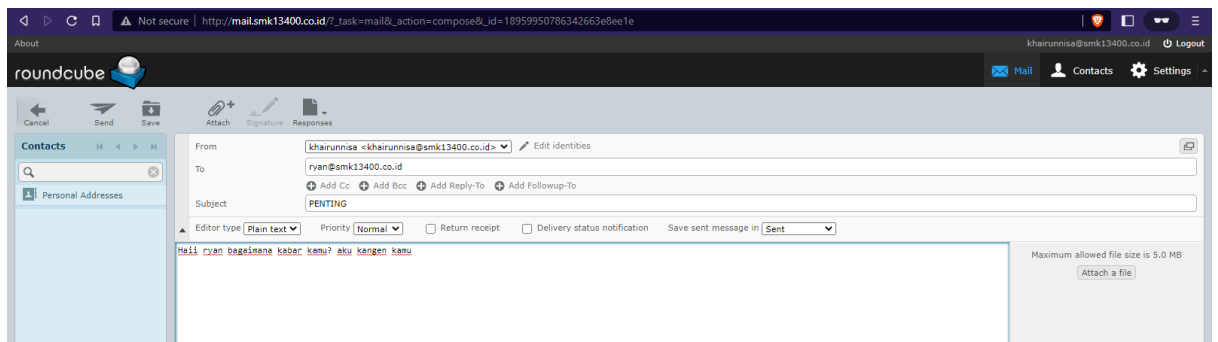
```
root@alphacntauri:~# adduser khairunnisa
Adding user `khairunnisa' ...
Adding new group `khairunnisa' (1002) ...
Adding new user `khairunnisa' (1002) with group `khairunnisa' ...
Creating home directory `/home/khairunnisa' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for khairunnisa
Enter the new value, or press ENTER for the default
    Full Name []:
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n]
root@alphacntauri:~# adduser ryan
Adding user `ryan' ...
Adding new group `ryan' (1003) ...
Adding new user `ryan' (1003) with group `ryan' ...
Creating home directory `/home/ryan' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for ryan
Enter the new value, or press ENTER for the default
    Full Name []:
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n]
root@alphacntauri:~#
```

*Gambar 12: Setup user*

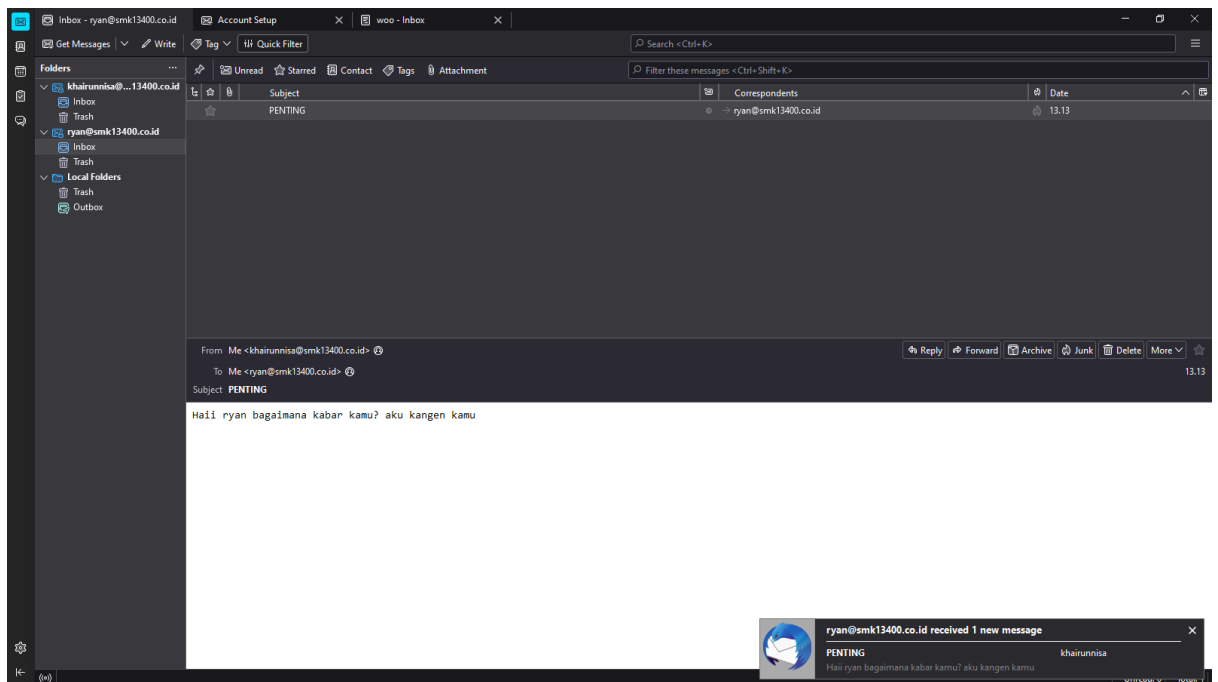
13. Kita testing di web browser dengan domain yang kita buat



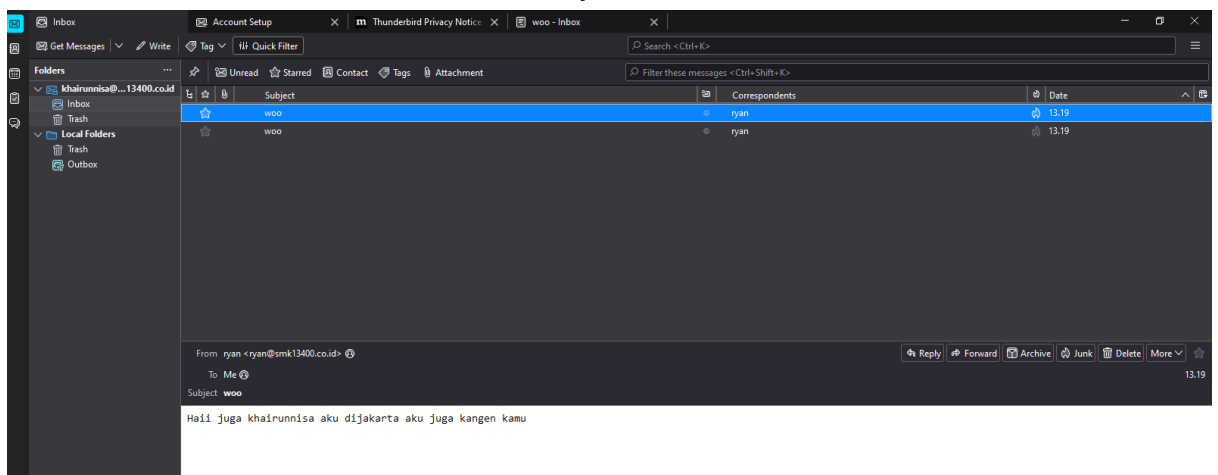
*Gambar 13.1: Login Page*



Gambar 13.2: Testing Message



Gambar 13.3: Ryan Account



Gambar 13.4: Response from ryan