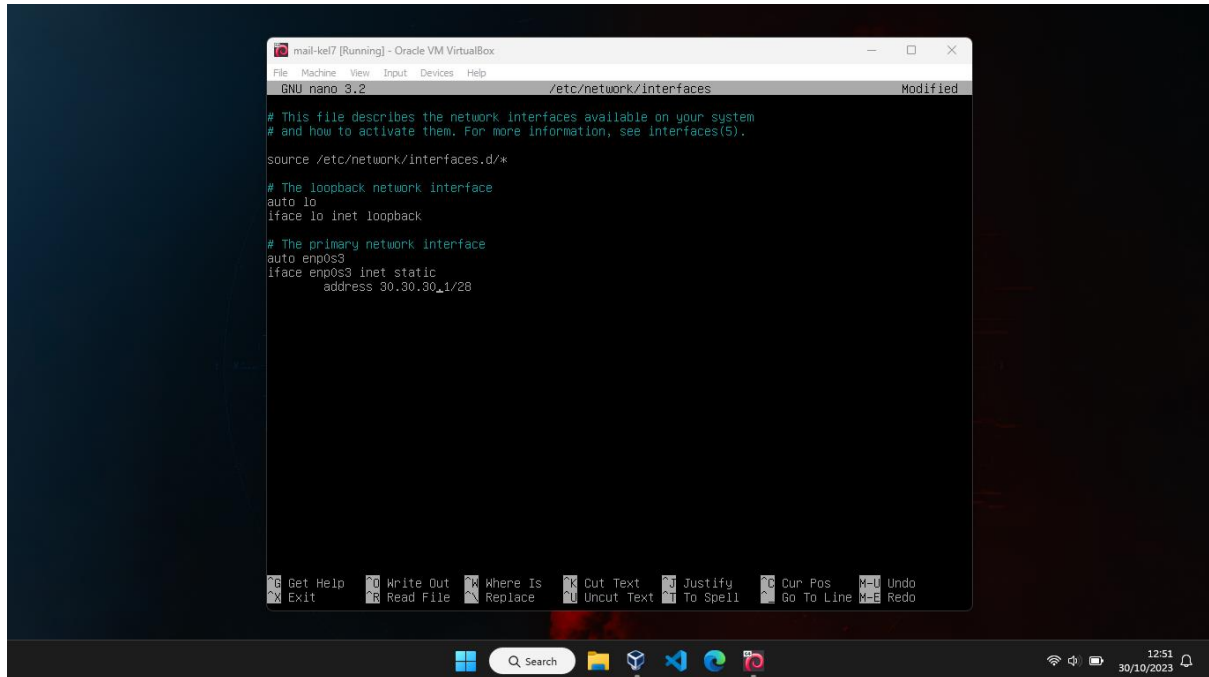


## LAPORAN MAIL SERVER

**Nama:** Muhamad Rifki Sumarna

**Kelas :** XII TKJ 1

Pertama setting IP Address terlebih dahulu. Jika sudah, simpan dengan cara CTRL + X, y, enter.



```
mail-kel7 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
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).

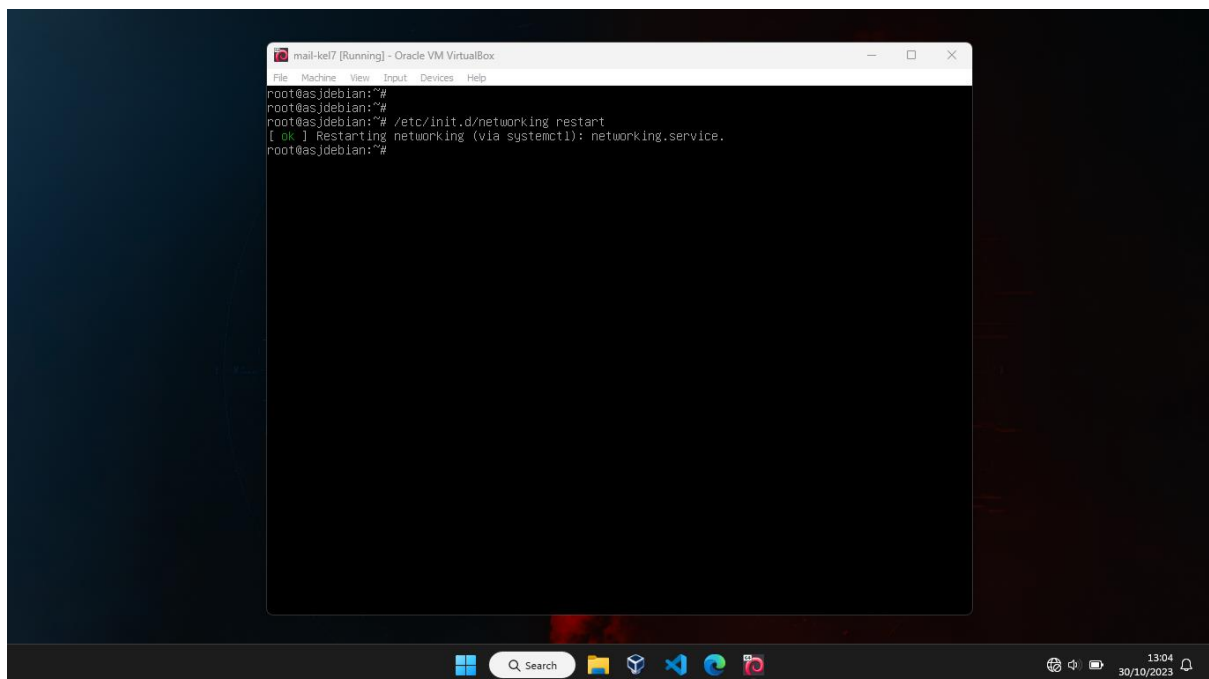
source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
auto enp0s3
iface enp0s3 inet static
    address 30.30.30.1/28

Get Help  Write Out  Where Is  Cut Text  Justify  Cur Pos  Undo
Exit      Read File  Replace  Uncut Text  To Spell  Go To Line  Redo
```

Setelah dikonfigurasi, restart service networking. Perintahnya `/etc/init.d/networking restart`



```
mail-kel7 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

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

```
mail-ke17 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

root@asjdebian:~# cd /etc/bind
root@asjdebian:/etc/bind# ls
bind.keys  db.127  db.7  db.ke17  named.conf  named.conf.local  rndc.key
db.0  db.255  db.empty  db.local  named.conf.default-zones  named.conf.options  zones.rfc1918
root@asjdebian:/etc/bind# rm db.7
root@asjdebian:/etc/bind# ls
bind.keys  db.127  db.255  db.local  named.conf  named.conf.local  zones.rfc1918
db.0  db.empty  named.conf  named.conf.options
db.127  db.ke17  named.conf.default-zones  rndc.key
root@asjdebian:/etc/bind# rm db.ke17
root@asjdebian:/etc/bind# ls
bind.keys  db.127  db.empty  named.conf  named.conf.local  rndc.key
db.0  db.255  db.local  named.conf.default-zones  named.conf.options  zones.rfc1918
root@asjdebian:/etc/bind# cp db.127 db.1
root@asjdebian:/etc/bind# cp db.local db.akurifki
root@asjdebian:/etc/bind# ls
bind.keys  db.127  db.empty  named.conf.default-zones  rndc.key
db.0  db.255  db.local  named.conf.local  zones.rfc1918
db.1  db.akurifki  named.conf  named.conf.options
root@asjdebian:/etc/bind#
```

mail-kef7 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

GNU nano 3.2 db.1 Modified

```

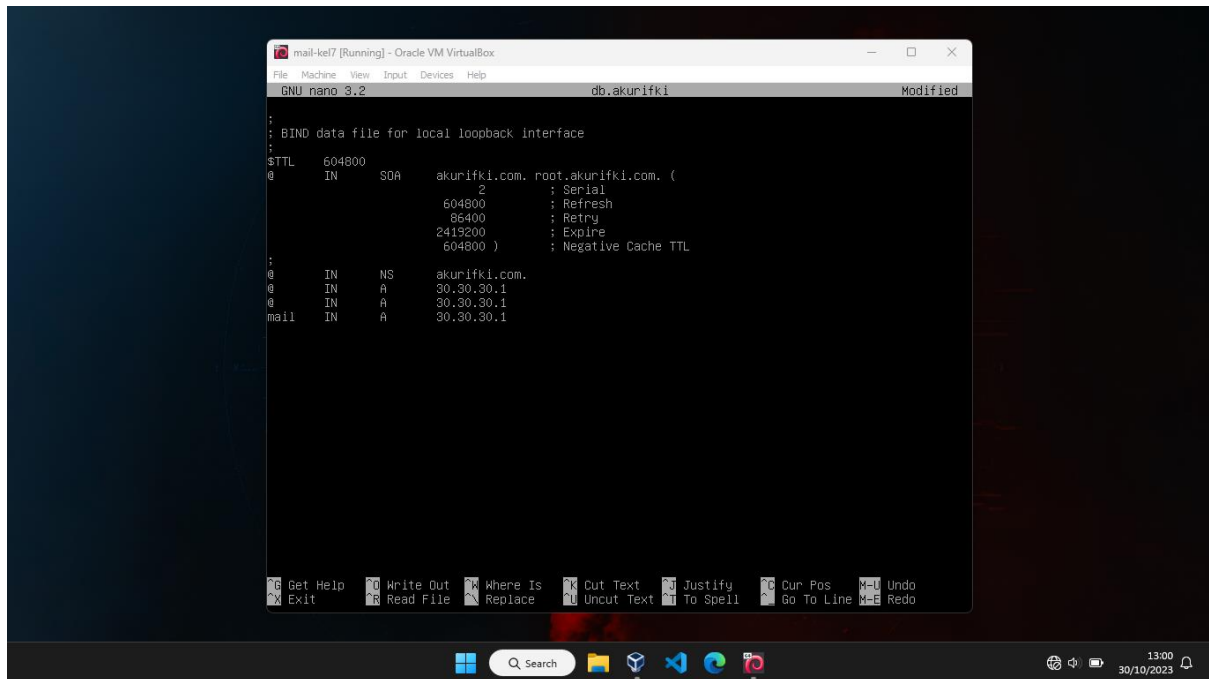
;
; BIND reverse data file for local loopback interface
;
$TTL      604800
@         IN      SOA      akurifki.com. root.akurifki.com. (
                        1      : Serial
                        604800 : Refresh
                        86400  : Retry
                        2419200 : Expire
                        604800 ) : Negative Cache TTL
;
@         IN      NS       akurifki.com.
1         IN      PTR      mail.akurifki.com.

```

Get Help Write Out Where Is Cut Text Justify Cur Pos Undo  
Exit Read File Replace Uncut Text To Spell Go To Line Redo

12:58 30/10/2023

Konfigurasi db.akurifki, ubah IP Address bawaan jadi IP Server debian dan ubah localhost jadi nama domain.

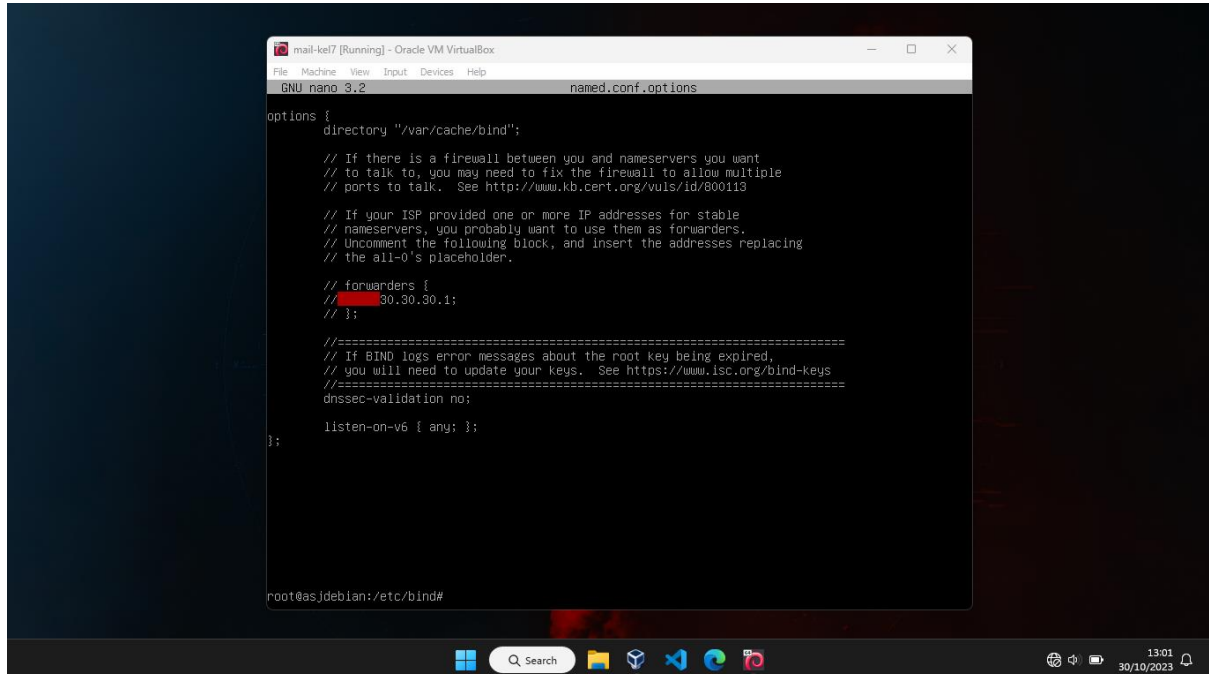


```
mail-kef7 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
GNU nano 3.2 db.akurifki Modified

; BIND data file for local loopback interface
$TTL 604800
@ IN SOA akurifki.com. root.akurifki.com. (
    2      ; Serial
    604800 ; Refresh
    86400  ; Retry
    2419200 ; Expire
    604800 ) ; Negative Cache TTL
;
@ IN NS akurifki.com.
@ IN A 30.30.30.1
mail IN A 30.30.30.1

Get Help Write Out Where Is Cut Text Justify Cur Pos M-U Undo
Exit Read File Replace U Uncut Text To Spell Go To Line M-E Redo
```

Konfigurasi named.conf.options, ubah bagian forwarders jadi IP server debian.



```
mail-kef7 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
GNU nano 3.2 named.conf.options

options {
    directory "/var/cache/bind";

    // If there is a firewall between you and nameservers you want
    // to talk to, you may need to fix the firewall to allow multiple
    // ports to talk. See http://www.kb.cert.org/vuls/id/800113

    // If your ISP provided one or more IP addresses for stable
    // nameservers, you probably want to use them as forwarders.
    // Uncomment the following block, and insert the addresses replacing
    // the all-0's placeholder.

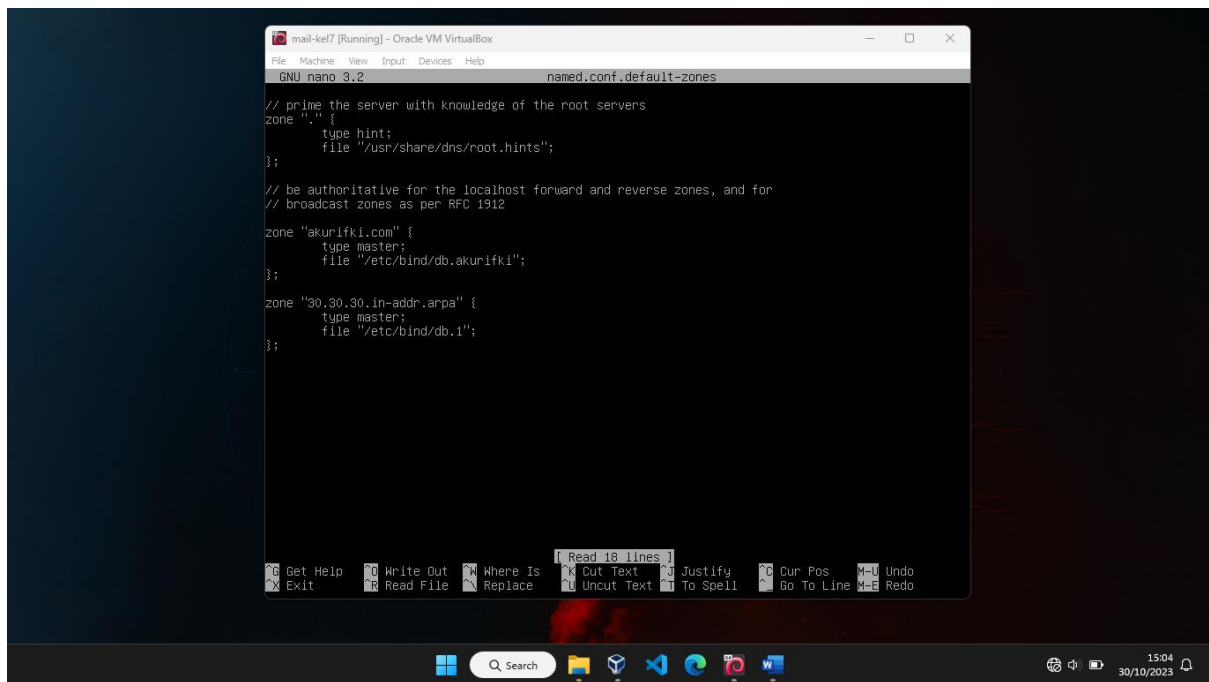
    // forwarders {
    //     30.30.30.1;
    // };

    // If BIND logs error messages about the root key being expired,
    // you will need to update your keys. See https://www.isc.org/bind-keys
    // =====
    dnssec-validation no;

    listen-on-v6 { any; };
};

root@asjdebian:/etc/bind#
```

Konfigurasi `named.conf.default-zones`. Ubah `localhost` jadi nama domain dan 127 jadi IP server namun hanya oktet 1 2 dan 3, oktet terakhir jangan dibawa. Urutan IP dibalik misalnya 192.168.10 jadi 10.168.192.



```
mail-kel7 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
GNU nano 3.2 named.conf.default-zones

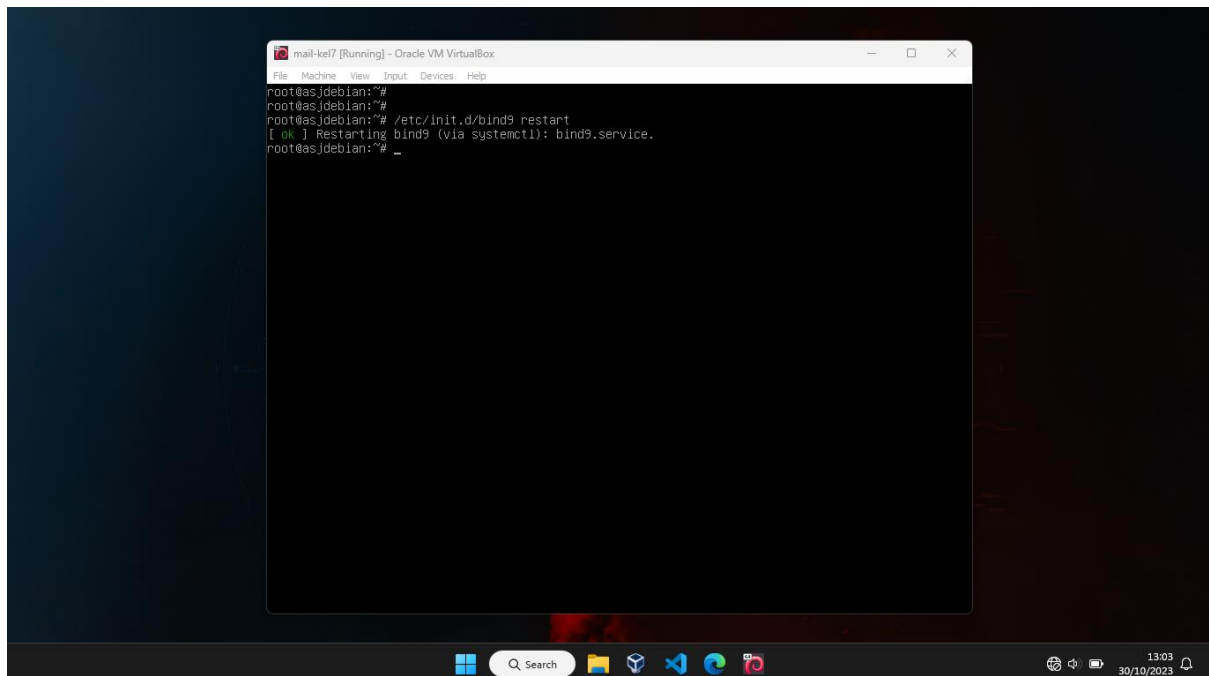
// prime the server with knowledge of the root servers
zone "." {
    type hint;
    file "/usr/share/dns/root.hints";
};

// be authoritative for the localhost forward and reverse zones, and for
// broadcast zones as per RFC 1912
zone "akunifki.com" {
    type master;
    file "/etc/bind/db.akunifki";
};

zone "30.30.30.in-addr.arpa" {
    type master;
    file "/etc/bind/db.1";
};

[ Read 18 lines ]
Get Help Write Out Where Is Cut Text Justify Cur Pos M-U Undo
Exit Read File Replace Uncut Text To Spell Go To Line W-E Redo
```

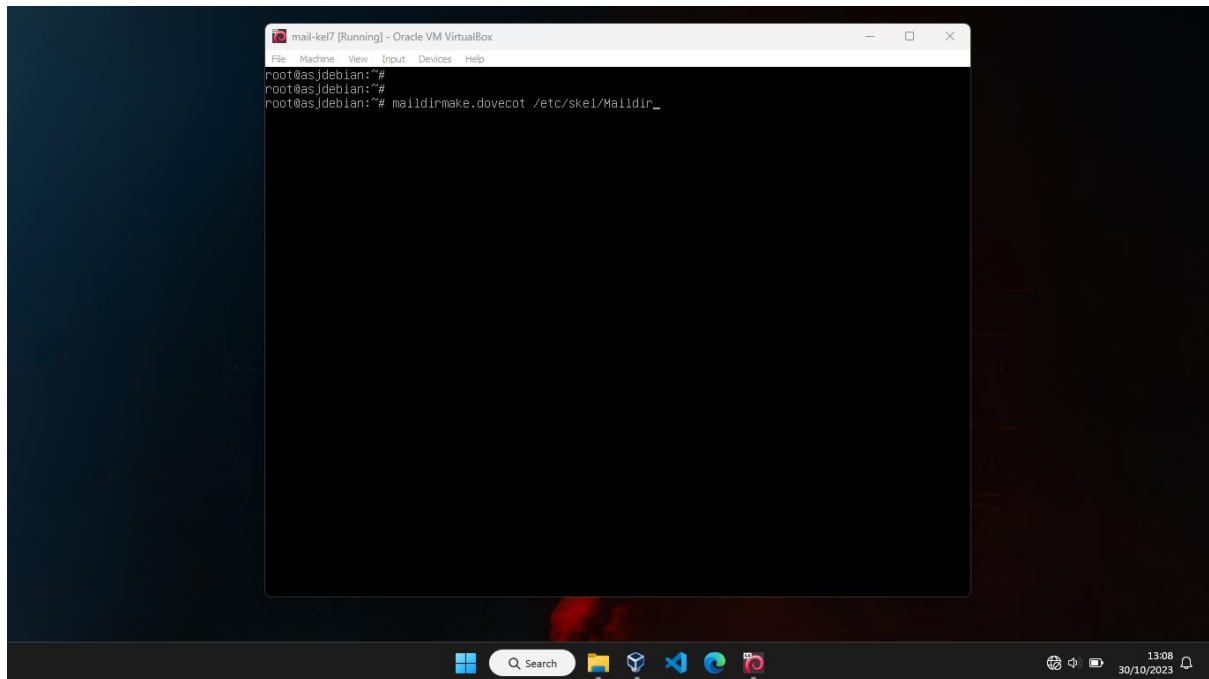
Setelah selesai, restart dns dengan perintah `/etc/init.d/bind9 restart`



```
mail-kel7 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

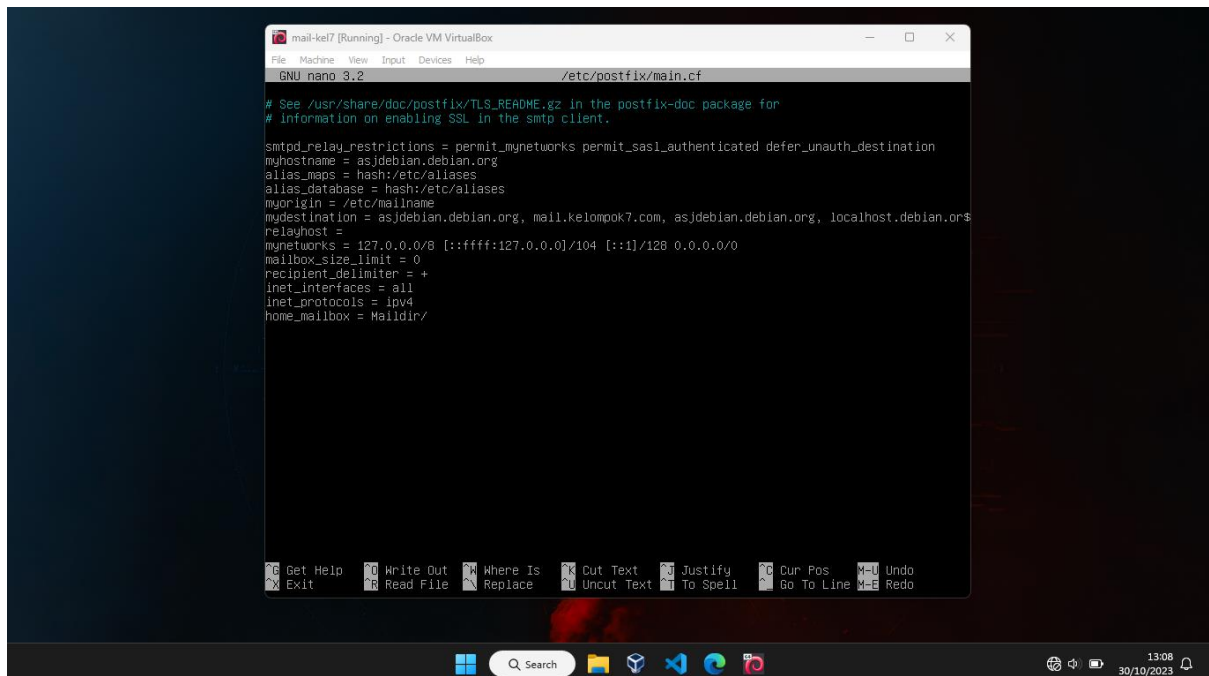
root@asjdebian:~#
root@asjdebian:~#
root@asjdebian:~# /etc/init.d/bind9 restart
[ ok ] Restarting bind9 (via systemctl): bind9.service.
root@asjdebian:~#
```

Buat folder untuk direktori mail server dengan perintah `maildirmake.dovecot /etc/skel/Maildir`.



```
mail-kel7 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@asjdebian:~#
root@asjdebian:~#
root@asjdebian:~# maildirmake.dovecot /etc/skel/Maildir_
```

Konfigurasi postfix dengan perintah `/etc/postfix/main.cf`. Tambahkan `home_mailbox = Maildir/`

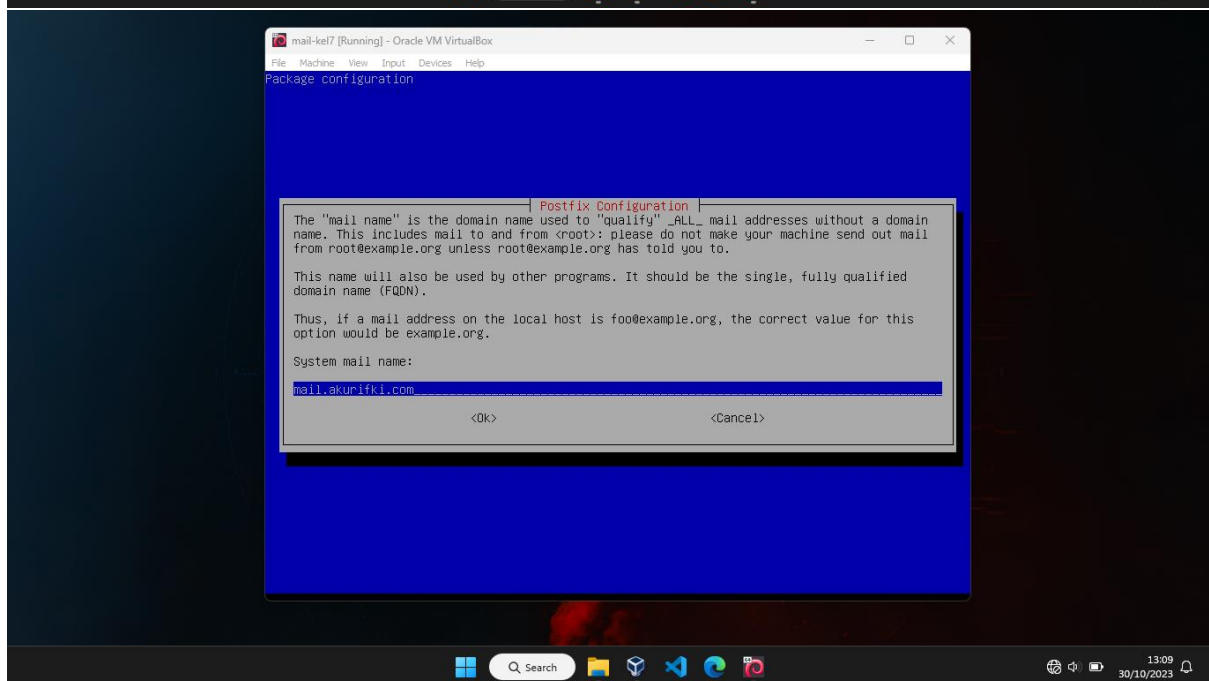
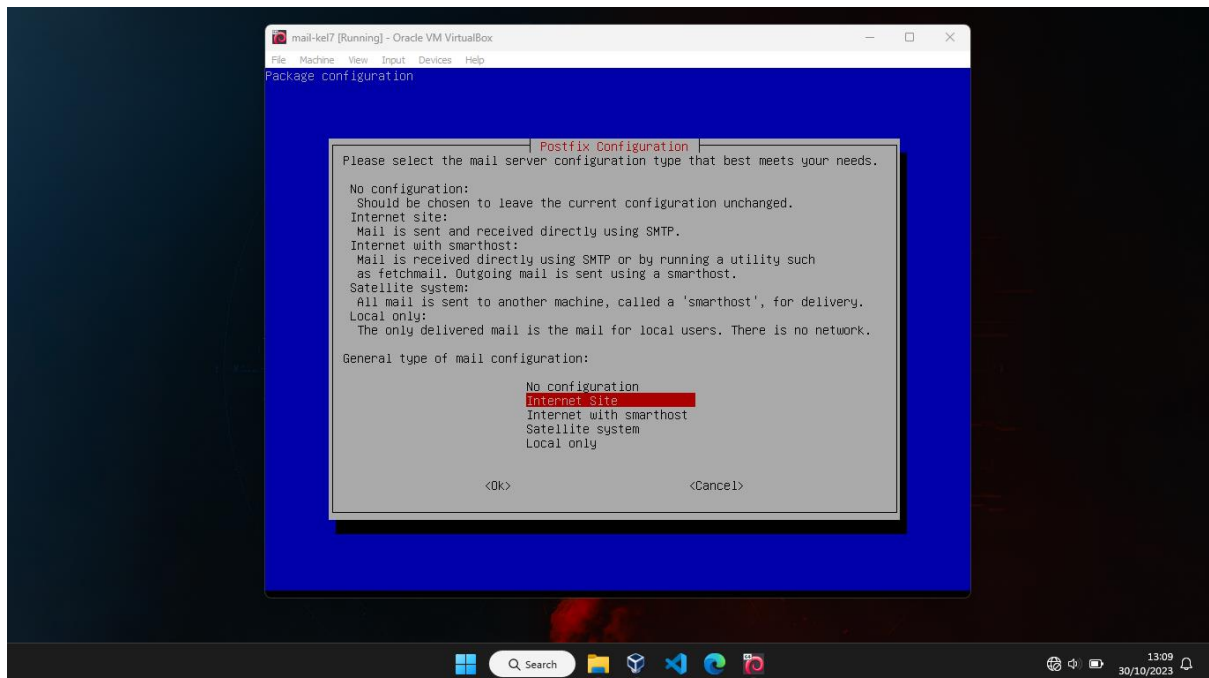


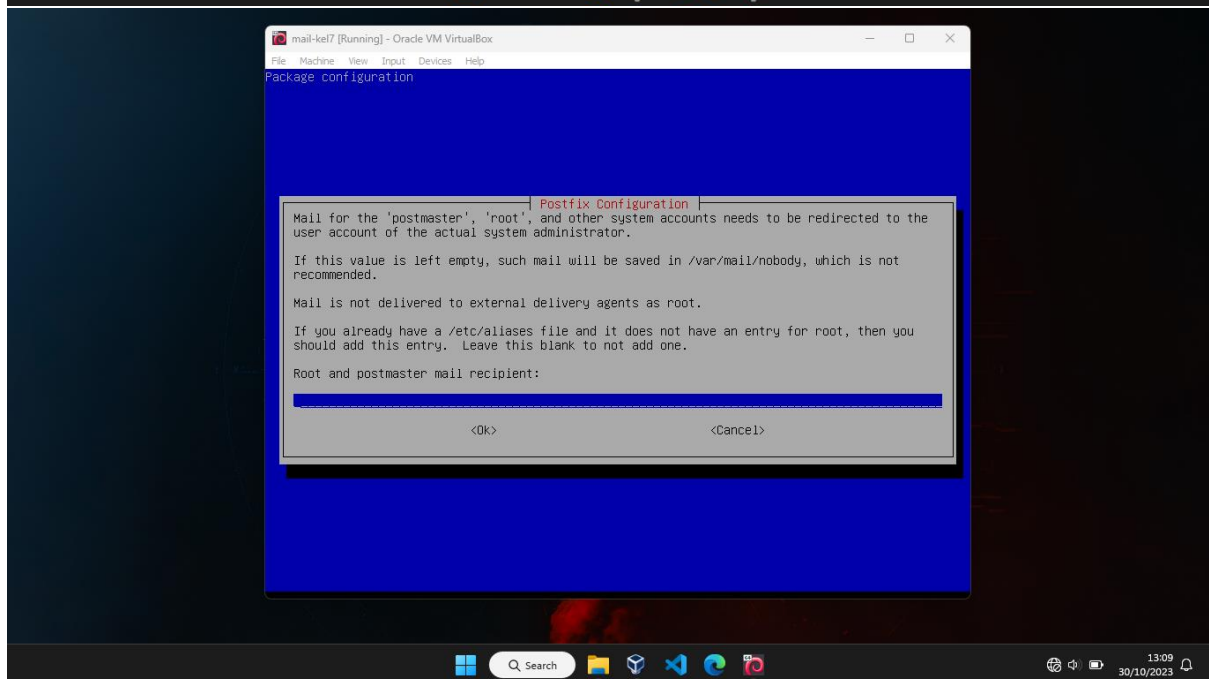
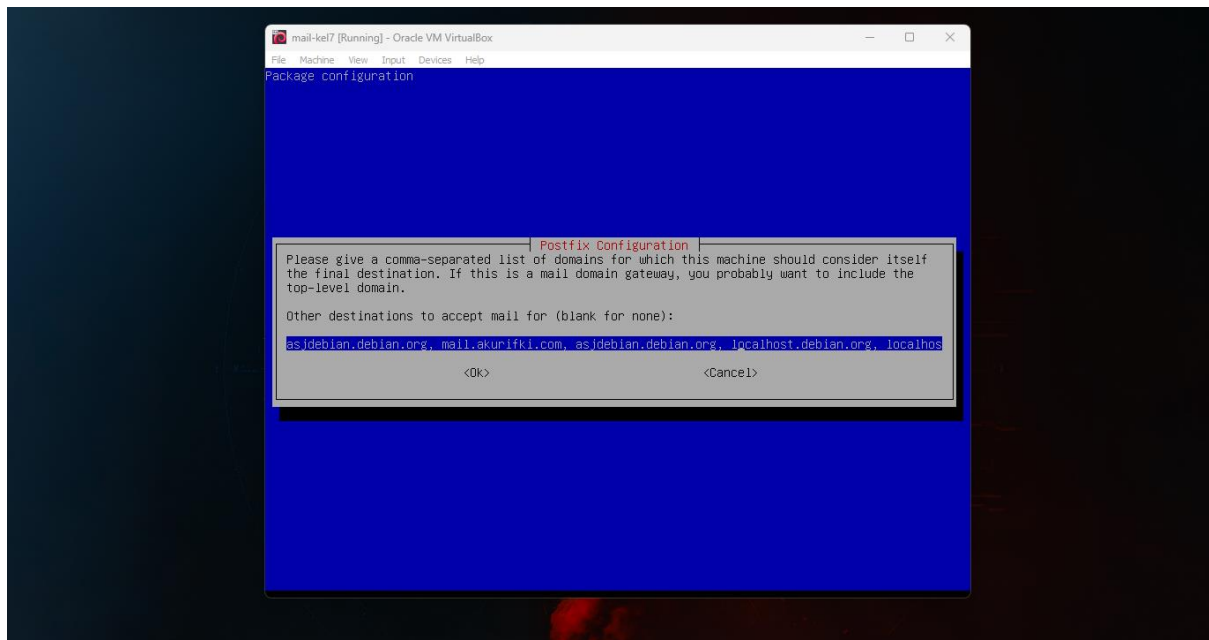
```
mail-kel7 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
GNU nano 3.2 /etc/postfix/main.cf

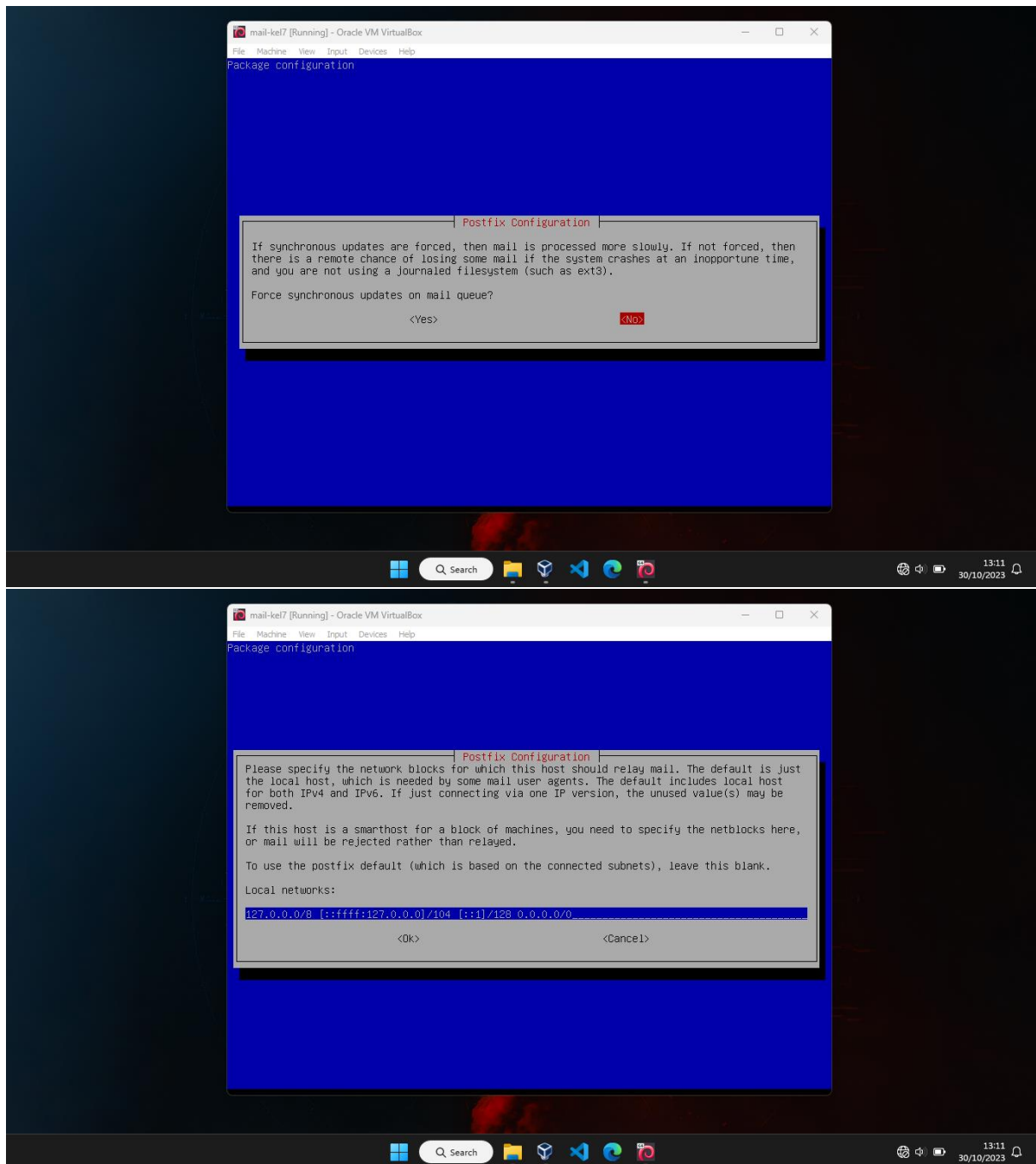
# See /usr/share/doc/postfix/TLS_README.gz in the postfix-doc package for
# information on enabling SSL in the smtp client.

smtpd_relay_restrictions = permit_mynetworks permit_sasl_authenticated defer_unauth_destination
myhostname = asjdebian.debian.org
alias_maps = hash:/etc/aliases
alias_database = hash:/etc/aliases
myorigin = /etc/mailname
mydestination = asjdebian.debian.org, mail.kelompok7.com, asjdebian.debian.org, localhost.debian.org
relayhost =
mynetworks = 127.0.0.0/8 [::ffff:127.0.0.0]/104 [::1]/128 0.0.0.0/0
mailbox_size_limit = 0
recipient_delimiter = +
inet_interfaces = all
inet_protocols = ipv4
home_mailbox = Maildir/

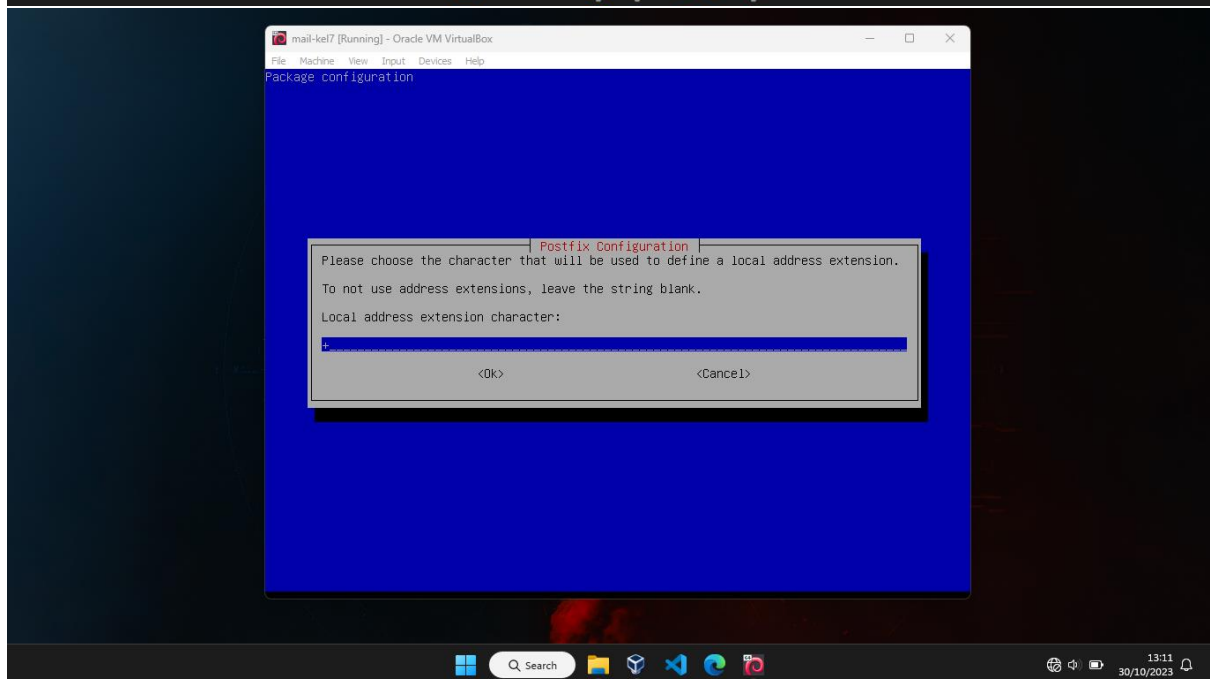
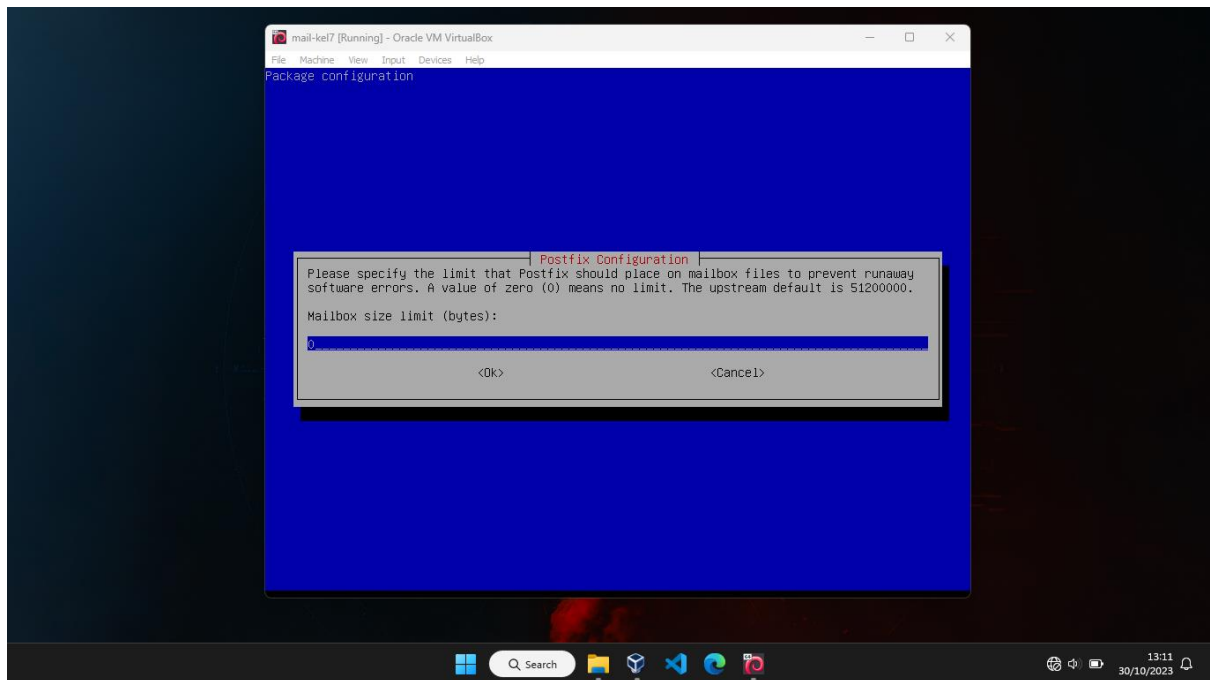
Get Help Write Out Where Is Cut Text Justify Cur Pos Undo
Exit Read File Replace Uncut Text To Spell Go To Line Redo
```

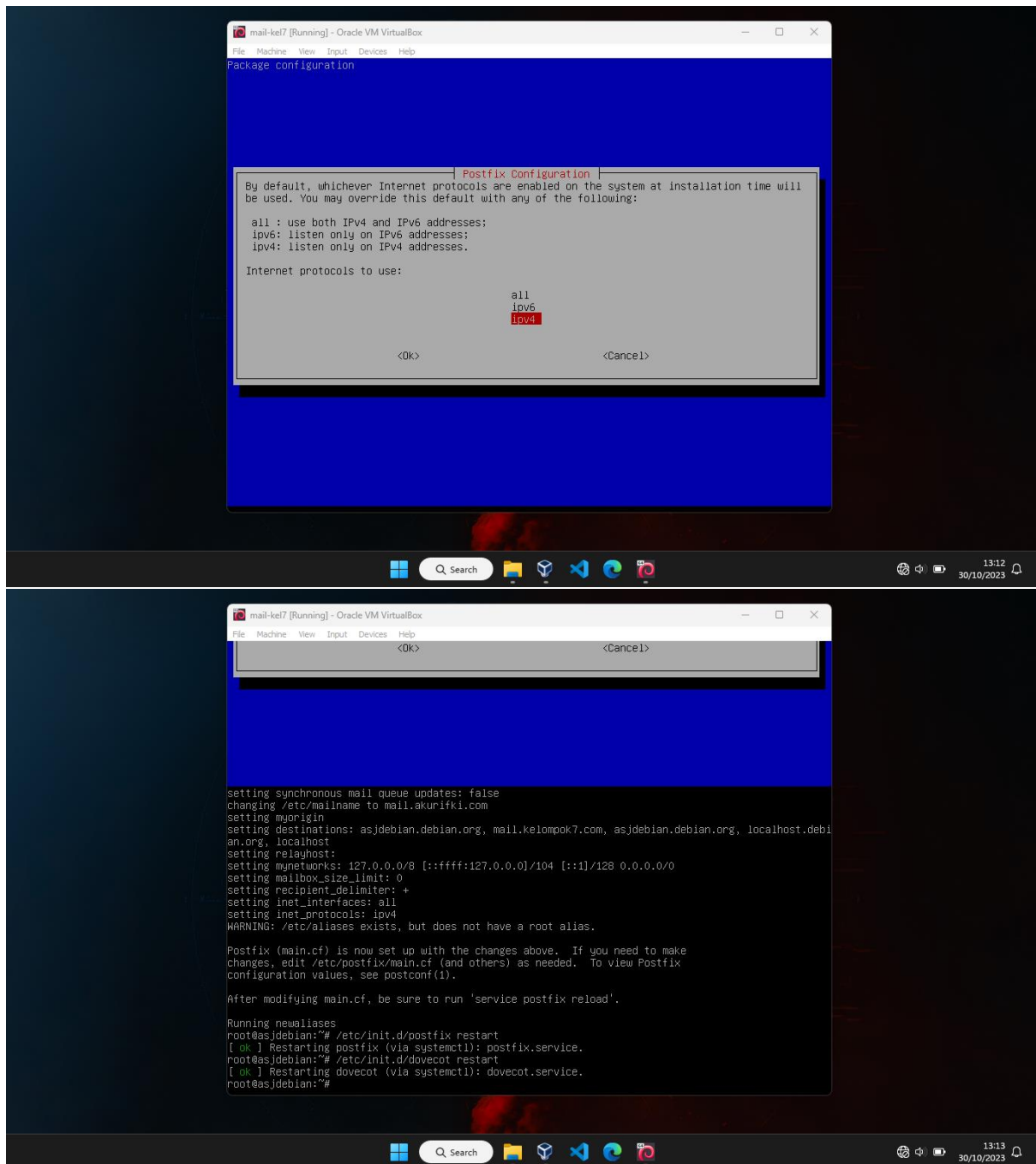












```

mail-kel7 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@asjdebian:~#
root@asjdebian:~# adduser server
Adding user `server' ...
Adding new group `server' (1001) ...
Adding new user `server' (1001) with group `server' ...
Creating home directory `/home/server' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for server
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] y
root@asjdebian:~# adduser client
Adding user `client' ...
Adding new group `client' (1005) ...
Adding new user `client' (1005) with group `client' ...
Creating home directory `/home/client' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for client
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] y
root@asjdebian:~#

```

```

mail-kel7 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
GNU nano 3.2 /etc/dovecot/conf.d/10-mail.conf

# %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/%n:INDEX=/var/indexes/%d/%n/%n
#
# <doc/wiki/MailLocation.txt>
#
mail_location = maildir:~/Maildir

# If you need to set multiple mailbox locations or want to change default
# namespace settings, you can do it by defining namespace sections.
#
# You can have private, shared and public namespaces. Private namespaces
# are for user's personal mails. Shared namespaces are for accessing other
# users' mailboxes that have been shared. Public namespaces are for shared
# mailboxes that are managed by sysadmin. If you create any shared or public
# namespaces you'll typically want to enable ACL plugin also, otherwise all
# users can access all the shared mailboxes, assuming they have permissions
# on filesystem level to do so.
namespace inbox {
    # Namespace type: private, shared or public
    #type = private

    # Hierarchy separator to use. You should use the same separator for all
    # namespaces or some clients get confused. '/' is usually a good one.
    # The default however depends on the underlying mail storage format.

```

```
mail-kef7 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
GNU nano 3.2 /etc/dovecot/conf.d/10-auth.conf

##
## 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

# Authentication cache size (e.g. 10M). 0 means it's disabled. Note that
# bsdauth, PAM and vpopmail require cache_key to be set for caching to be used.
#auth_cache_size = 0
# Time to live for cached data. After TTL expires the cached record is no
# longer used, *except* if the main database lookup returns internal failure.
# We also try to handle password changes automatically: If user's previous
# authentication was successful, but this one wasn't, the cache isn't used.
# For now this works only with plaintext authentication.
#auth_cache_ttl = 1 hour
# TTL for negative hits (user not found, password mismatch).
# 0 disables caching them completely.
#auth_cache_negative_ttl = 1 hour

# Space separated list of realms for SASL authentication mechanisms that need
# them. You can leave it empty if you don't want to support multiple realms.
# Many clients simply use the first one listed here, so keep the default realm
# first.
#auth_realms =

# Default realm/domain to use if none was specified. This is used for both
# SASL realms and appending @domain to username in plaintext logins.

Get Help  Write Out  Where Is  Cut Text  Justify  Cur Pos  Undo
Exit      Read File  Replace  Uncut Text To Spell  Go To Line Redo
```

```
mail-kef7 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
GNU nano 3.2 /etc/dovecot/dovecot.conf

# those. These are exceptions to this though: No sections (e.g. namespace {})
# or plugin settings are added by default, they're listed only as examples.
# Paths are also just examples with the real defaults being based on configure
# options. The paths listed here are for configure --prefix=/usr
# --sysconfdir=/etc --localstatedir=/var

# Enable installed protocols
!include_try /usr/share/dovecot/protocols.d/*.protocol

# A comma separated list of IPs or hosts where to listen in for connections.
# '*' listens in all IPv4 interfaces, '::' listens in all IPv6 interfaces.
# If you want to specify non-default ports or anything more complex,
# edit conf.d/master.conf.
listen = *

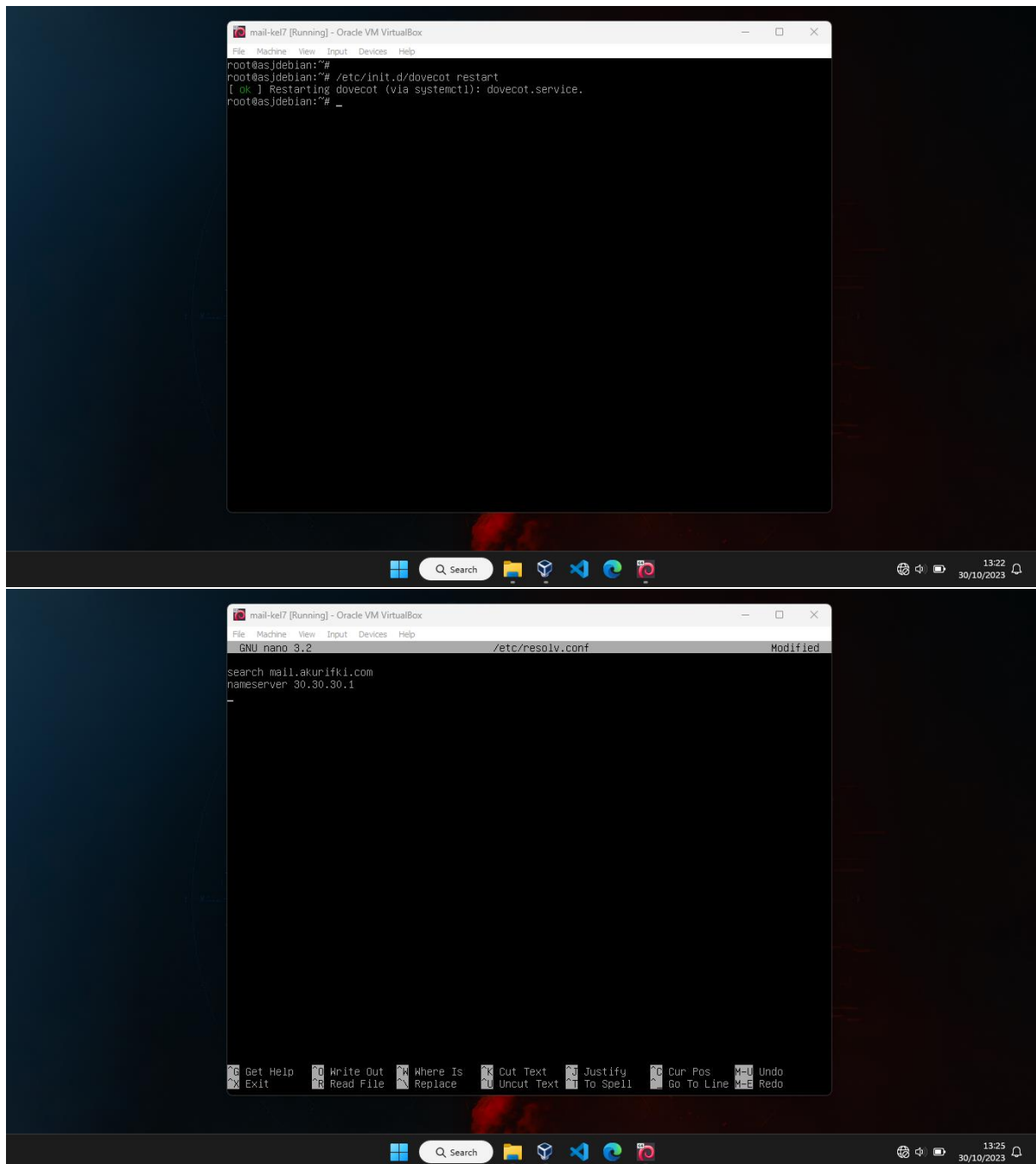
# Base directory where to store runtime data.
#base_dir = /var/run/dovecot/

# Name of this instance. In multi-instance setup doveadm and other commands
# can use -i <instance_name> to select which instance is used (an alternative
# to -c <config_path>). The instance name is also added to Dovecot processes
# in ps output.
#instance_name = dovecot

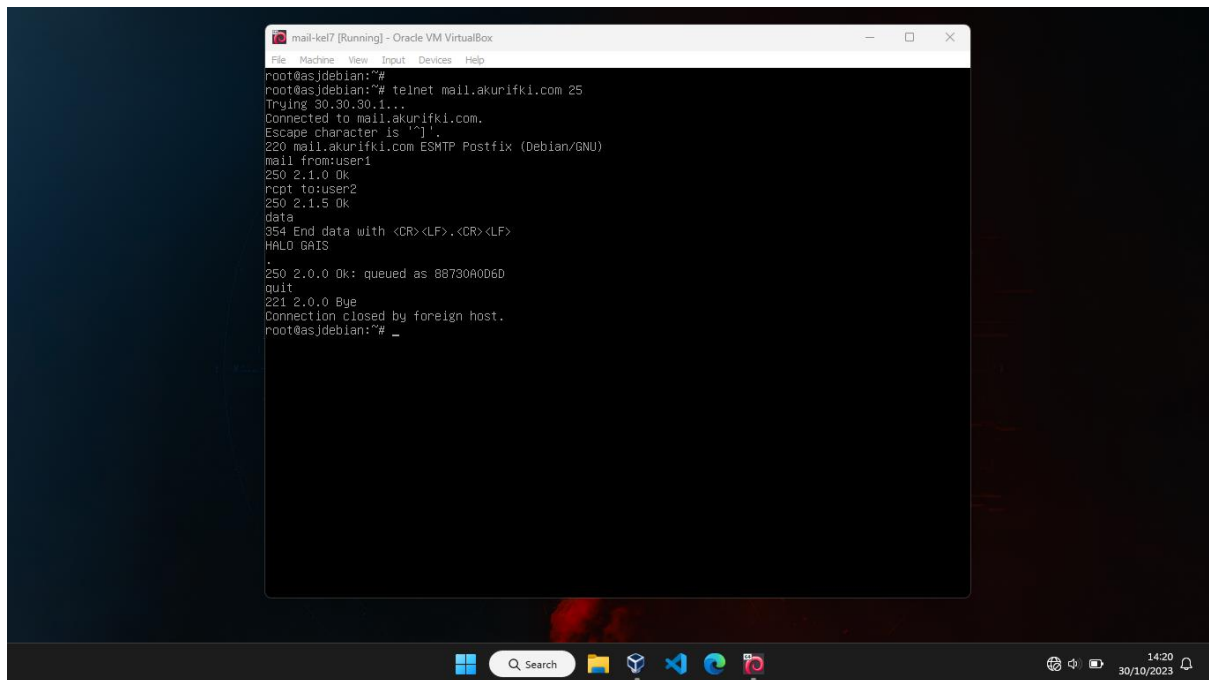
# Greeting message for clients.
#login_greeting = Dovecot ready.

# Space separated list of trusted network ranges. Connections from these
# IPs are allowed to override their IP addresses and ports (for logging and
# for authentication checks). disable_plaintext_auth is also ignored for
# these networks. Typically you'd specify your IMAP proxy servers here.
#login_trusted_networks =

Get Help  Write Out  Where Is  Cut Text  Justify  Cur Pos  Undo
Exit      Read File  Replace  Uncut Text To Spell  Go To Line Redo
```

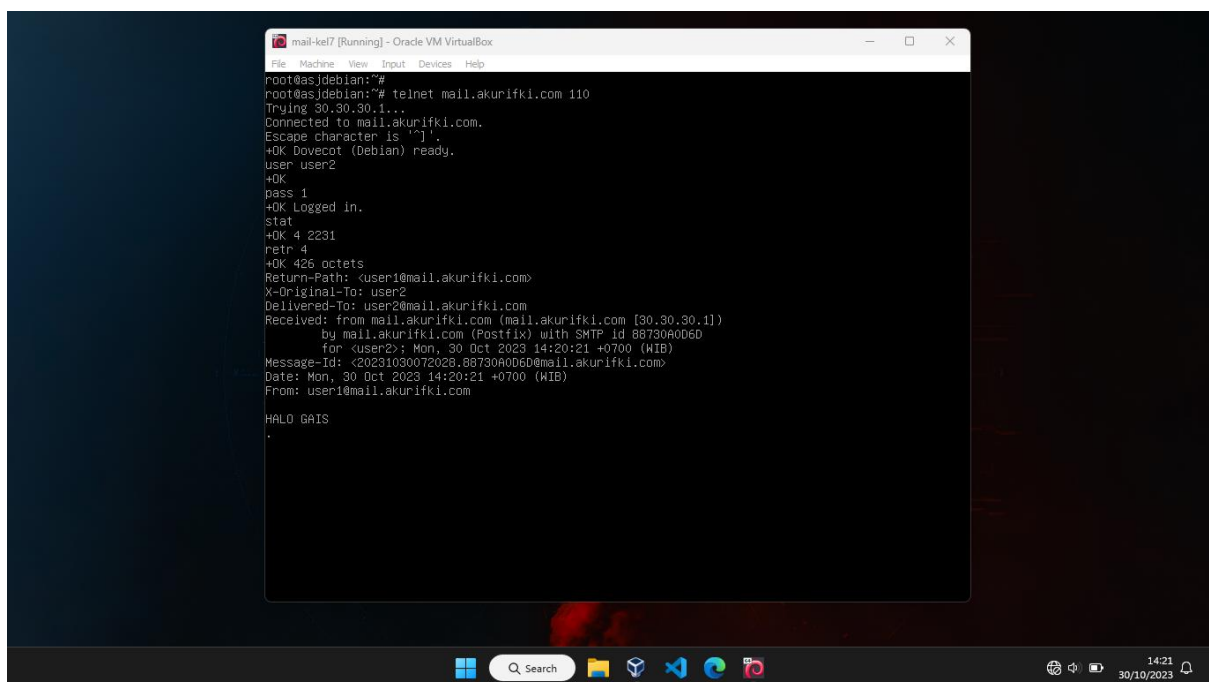


Uji tes kirim pesan ke user2 dari user1. Perintahnya seperti gambar di bawah.



```
mail-kel7 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@asjdebian:~#
root@asjdebian:~# telnet mail.akurifki.com 25
Trying 30.30.30.1...
Connected to mail.akurifki.com.
Escape character is '^]'.
220 mail.akurifki.com ESMTP Postfix (Debian/GNU)
mail from:user1
250 2.1.0 Ok
rcpt to:user2
250 2.1.5 Ok
data
354 End data with <CR><LF>.<CR><LF>
HALO GAIS
.
250 2.0.0 Ok: queued as 88730A0D6D
quit
221 2.0.0 Bye
Connection closed by foreign host.
root@asjdebian:~#
```

Terakhir uji coba login ke user penerima, pastikan seperti gambar di bawah.



```
mail-kel7 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@asjdebian:~#
root@asjdebian:~# telnet mail.akurifki.com 110
Trying 30.30.30.1...
Connected to mail.akurifki.com.
Escape character is '^]'.
+OK Dovecot (Debian) ready.
user user2
+OK
pass 1
+OK Logged in.
stat
+OK 4 2231
retr 4
+OK 426 octets
Return-Path: <user1@mail.akurifki.com>
X-Original-To: user2
Delivered-To: user2@mail.akurifki.com
Received: from mail.akurifki.com (mail.akurifki.com [30.30.30.1])
        by mail.akurifki.com (Postfix) with SMTP id 88730A0D6D
        for <user2>; Mon, 30 Oct 2023 14:20:21 +0700 (WIB)
Message-Id: <20231030072028.88730A0D6D@mail.akurifki.com>
Date: Mon, 30 Oct 2023 14:20:21 +0700 (WIB)
From: user1@mail.akurifki.com

HALO GAIS
.
```