

ADMINISTRASI SISTEM JARINGAN



XII TKJ

PENGERTIAN BRIKER



Debian adalah sistem operasi komputer yang tersusun dari paket-paket perangkat lunak yang dirilis sebagai perangkat lunak bebas dan terbuka dengan lisensi mayoritas GNU General Public License dan lisensi perangkat lunak bebas lainnya.

PERSIAPAN INSTALASI



1. Virtualbox
2. DVD-Binary 1 Debian 8.7.1 Jessie
3. DVD-Binary 2 Debian 8.7.1 Jessie
4. DVD-Binary 3 Debian 8.7.1 Jessie

NAMA NAMA DISTRO DEBIAN

1. Rilis selanjutnya dari Debian dinamakan "bookworm" — belum ada tanggal rilis yang ditetapkan
2. Debian 9 ("stretch") — rilis stabil saat ini
3. Debian 8 ("jessie") — rilis stabil yang lama
4. Debian 7 ("wheezy") — rilis stabil yang lama
5. Debian 6.0 ("squeeze") — rilis stabil yang lama
6. Debian GNU/Linux 5.0 ("lenny") — rilis stabil yang lama
7. Debian GNU/Linux 4.0 ("etch") — rilis stabil yang lama
8. Debian GNU/Linux 3.1 ("sarge") — rilis stabil yang lama
9. Debian GNU/Linux 3.0 ("woody") — rilis stabil yang lama
10. Debian GNU/Linux 2.2 ("potato") — rilis stabil yang lama
11. Debian GNU/Linux 2.1 ("slink") — rilis stabil yang lama
12. Debian GNU/Linux 2.0 ("hamm") — rilis stabil yang lama

KONFIGURASI VIRTUAL BOX

← Create Virtual Machine

Name and operating system

Please choose a descriptive name and destination folder for the new virtual machine and select the type of operating system you intend to install on it. The name you choose will be used throughout VirtualBox to identify this machine.

Name: **Nama Kalian**

Machine Folder:  C:\Users\Acer\VirtualBox VMs

Type: Linux

Version: Other Linux (64-bit)

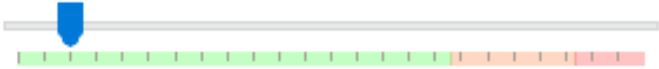
Expert Mode Next Cancel

← Create Virtual Machine

Memory size

Select the amount of memory (RAM) in megabytes to be allocated to the virtual machine.

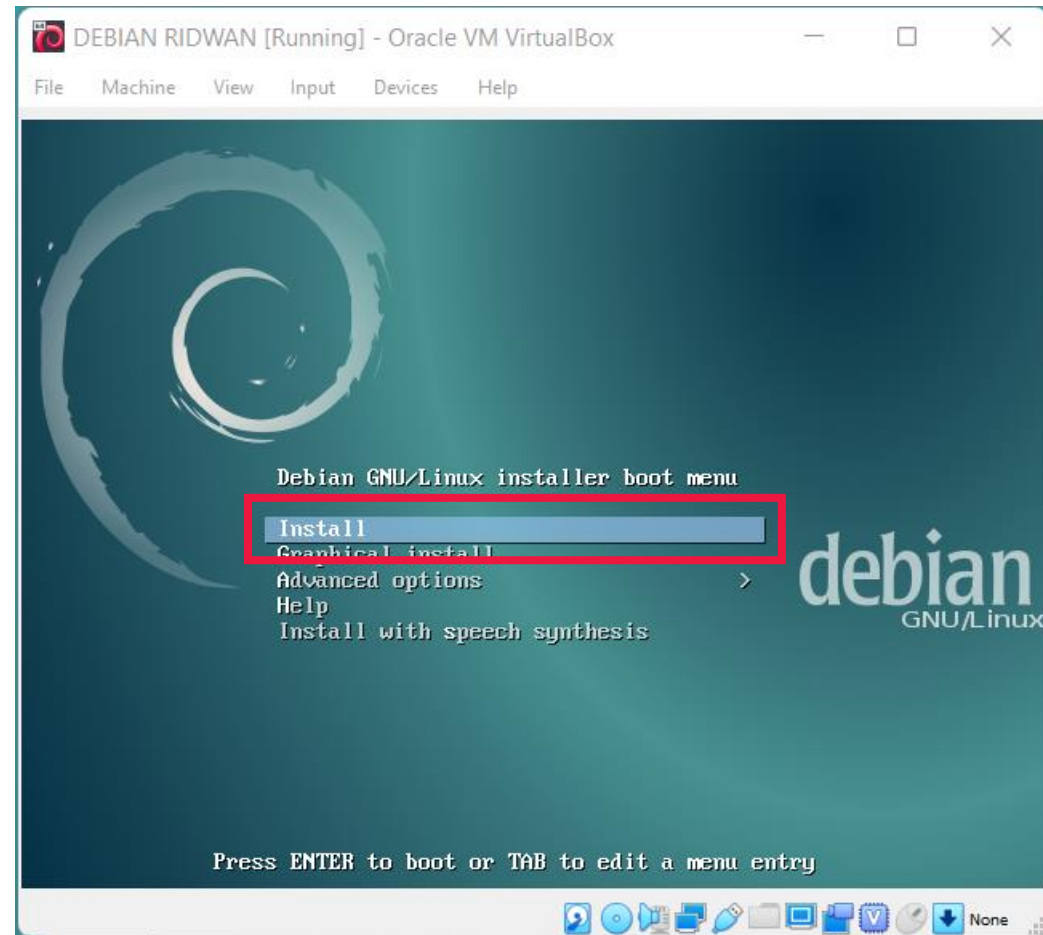
The recommended memory size is 512 MB.

 1024 MB

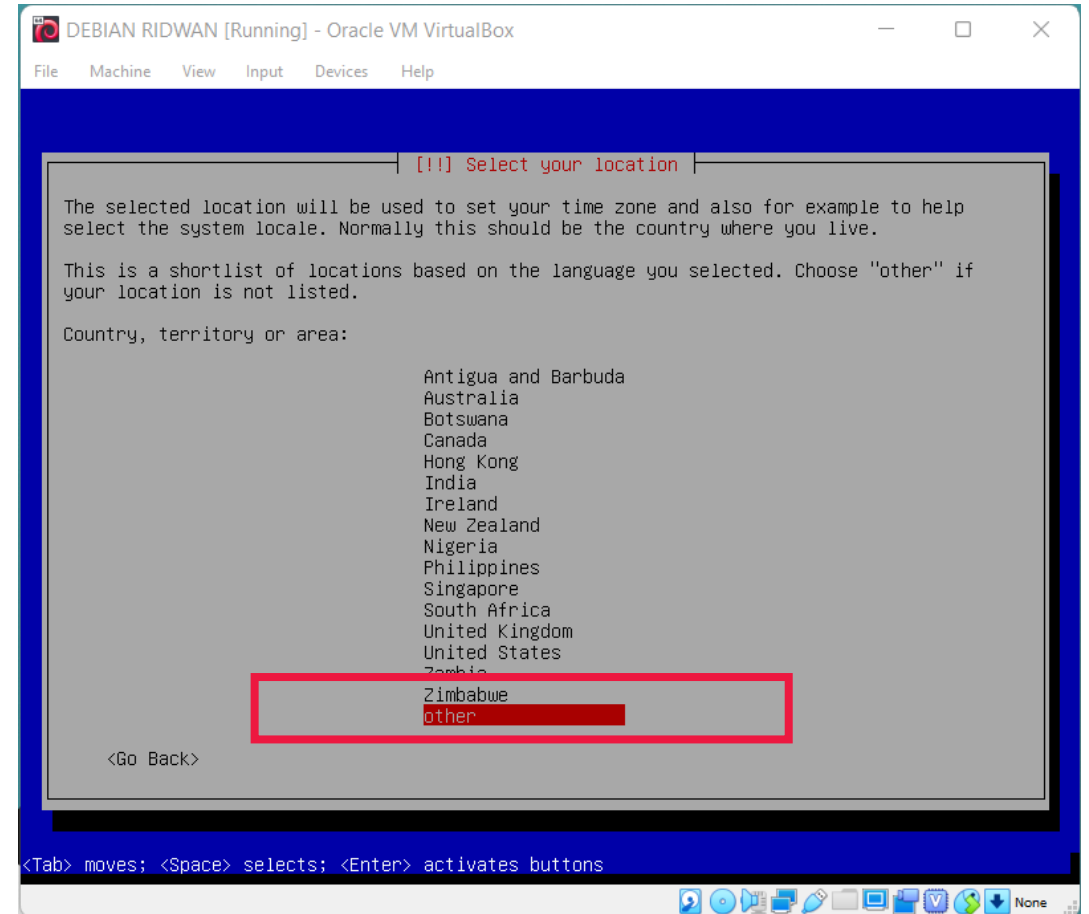
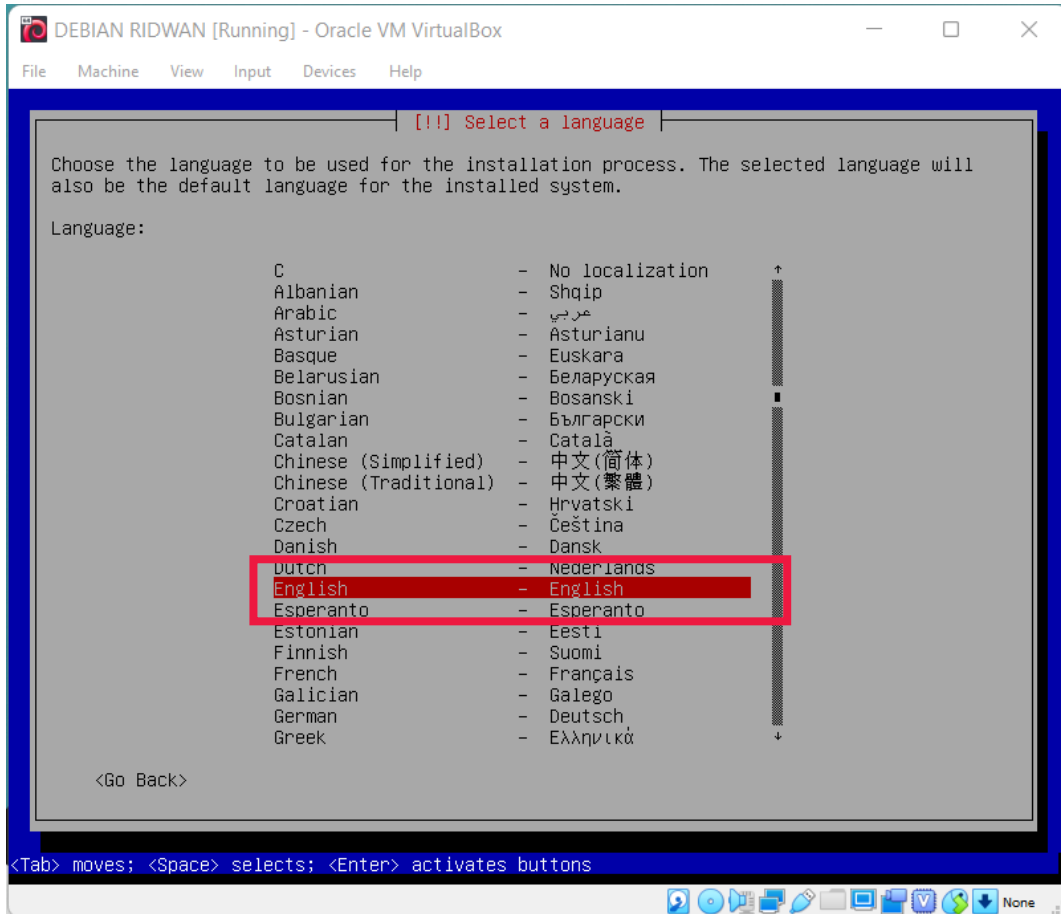
4 MB 12288 MB

Next Cancel

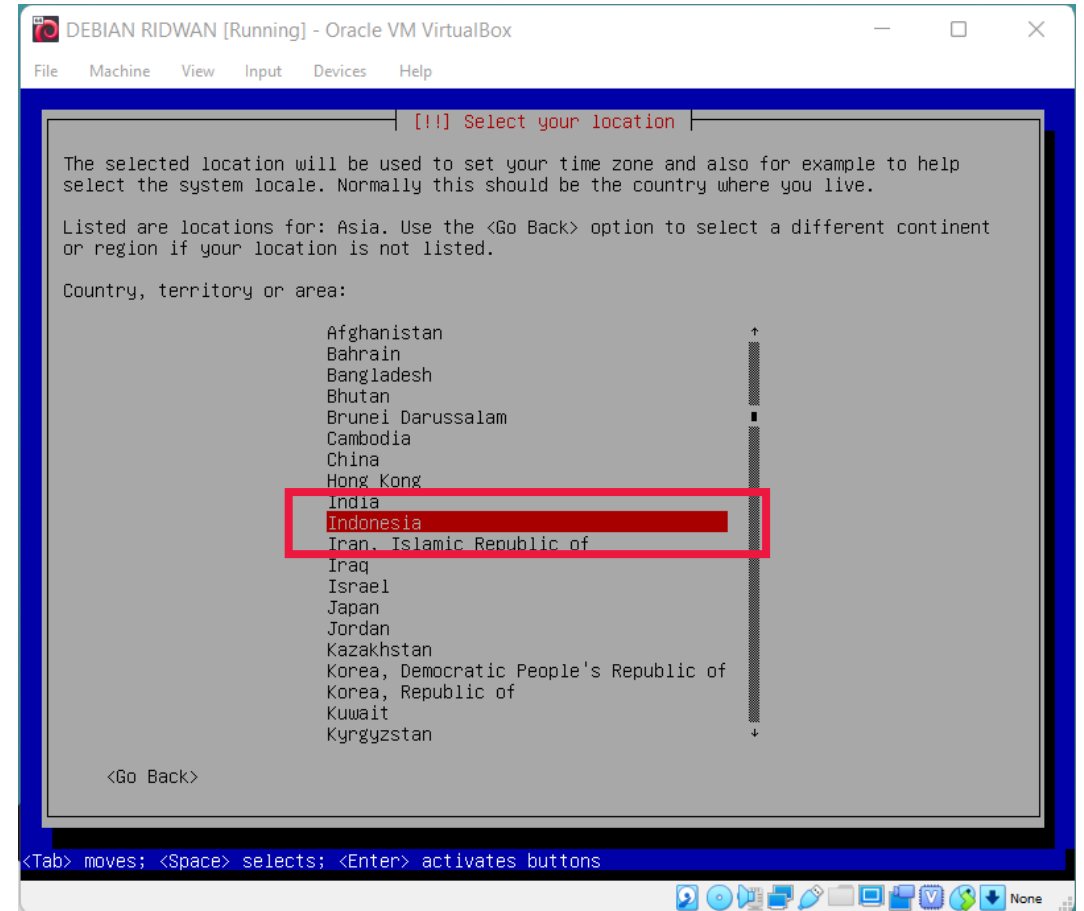
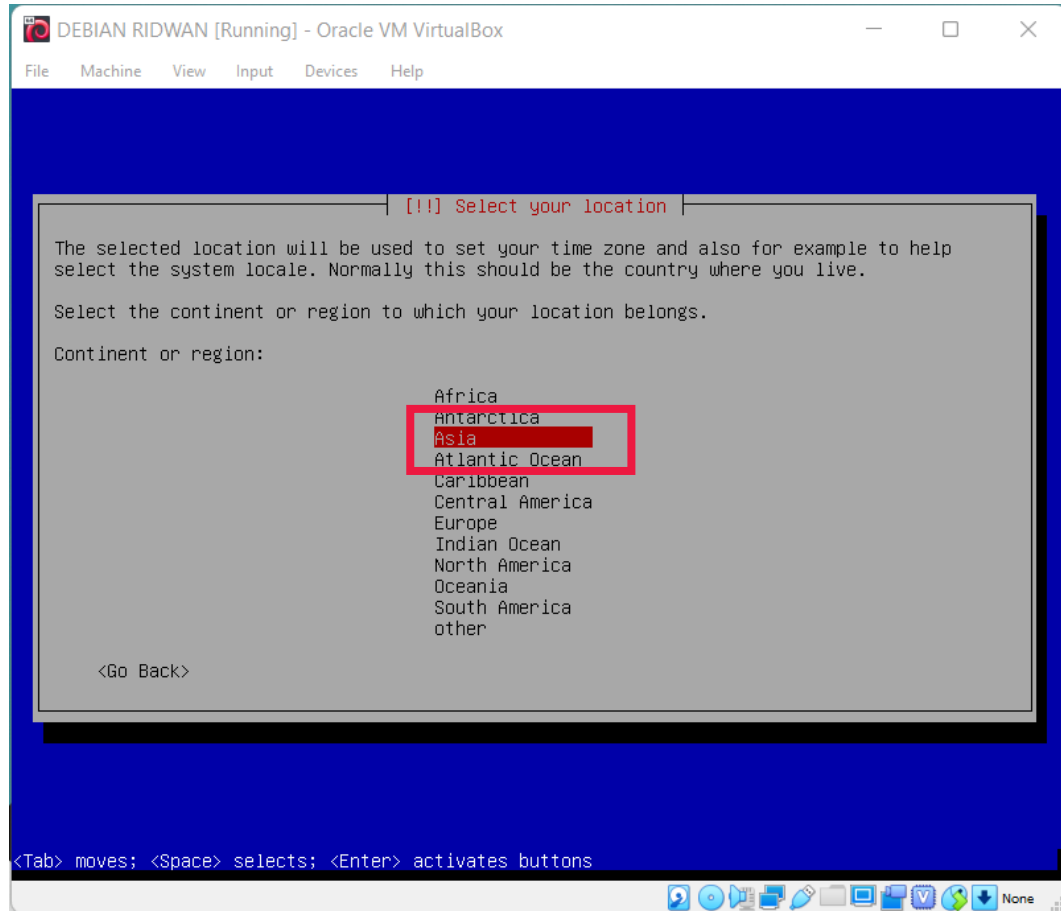
KONFIGURASI DEBIAN



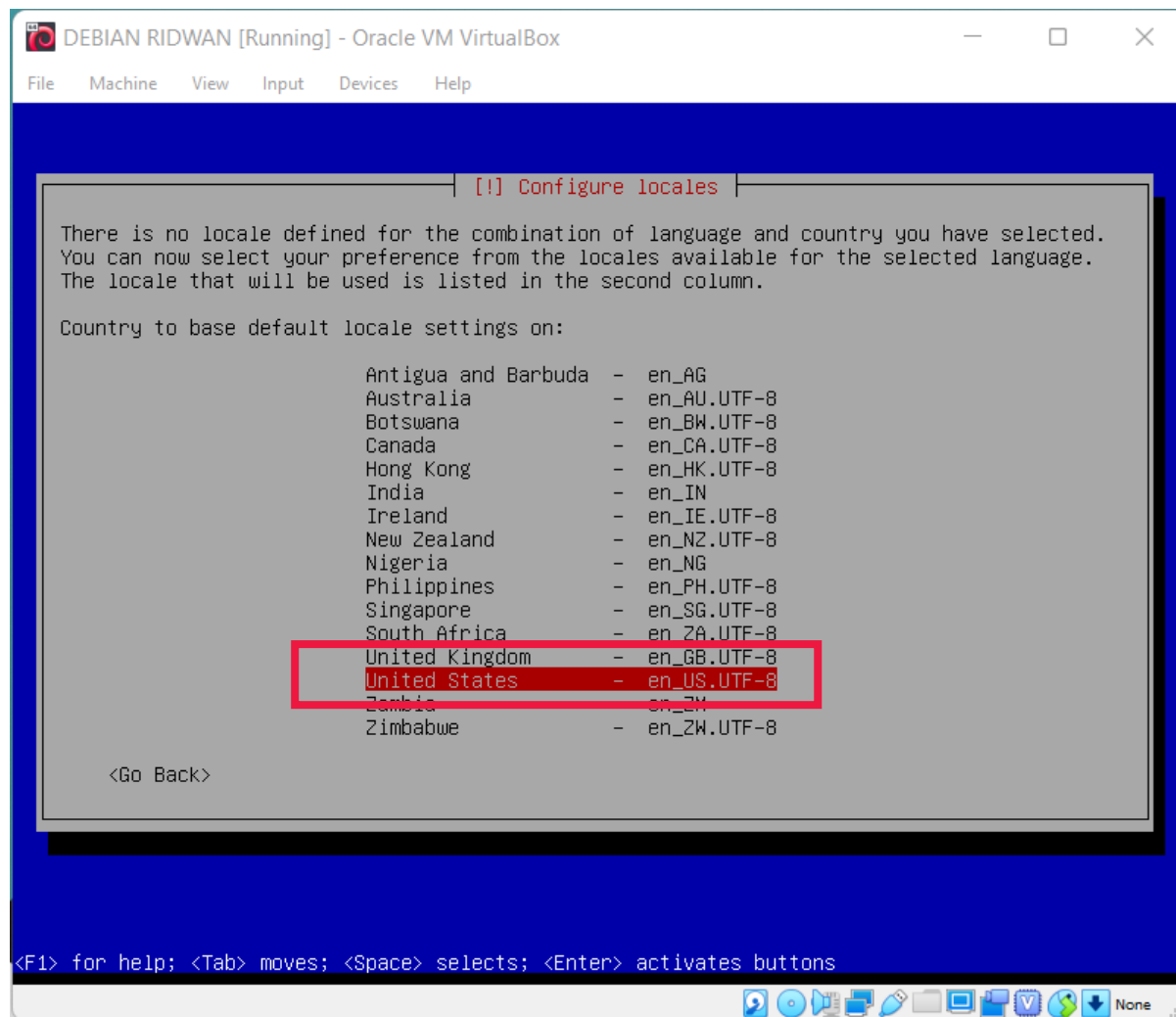
KONFIGURASI DEBIAN



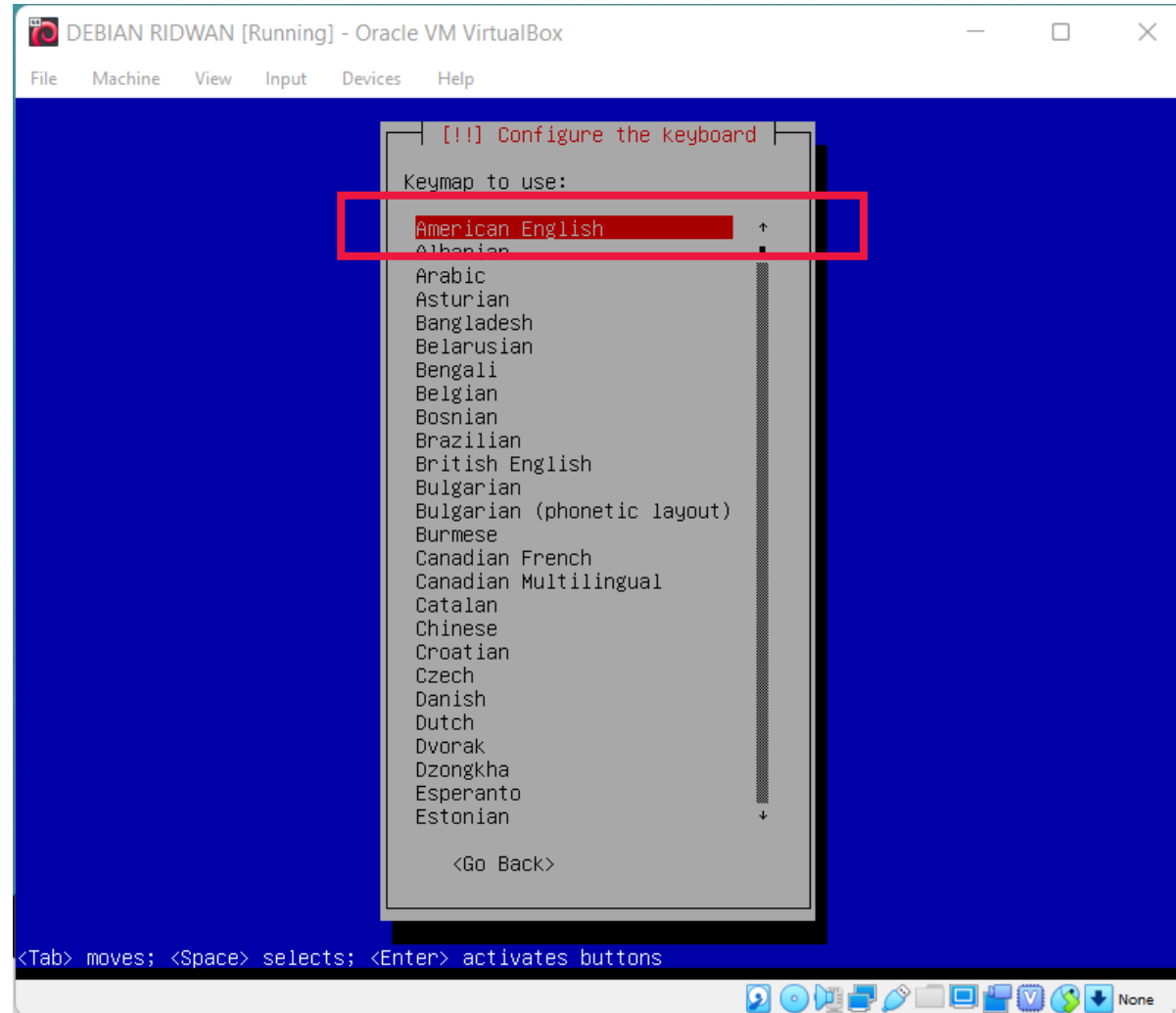
KONFIGURASI DEBIAN



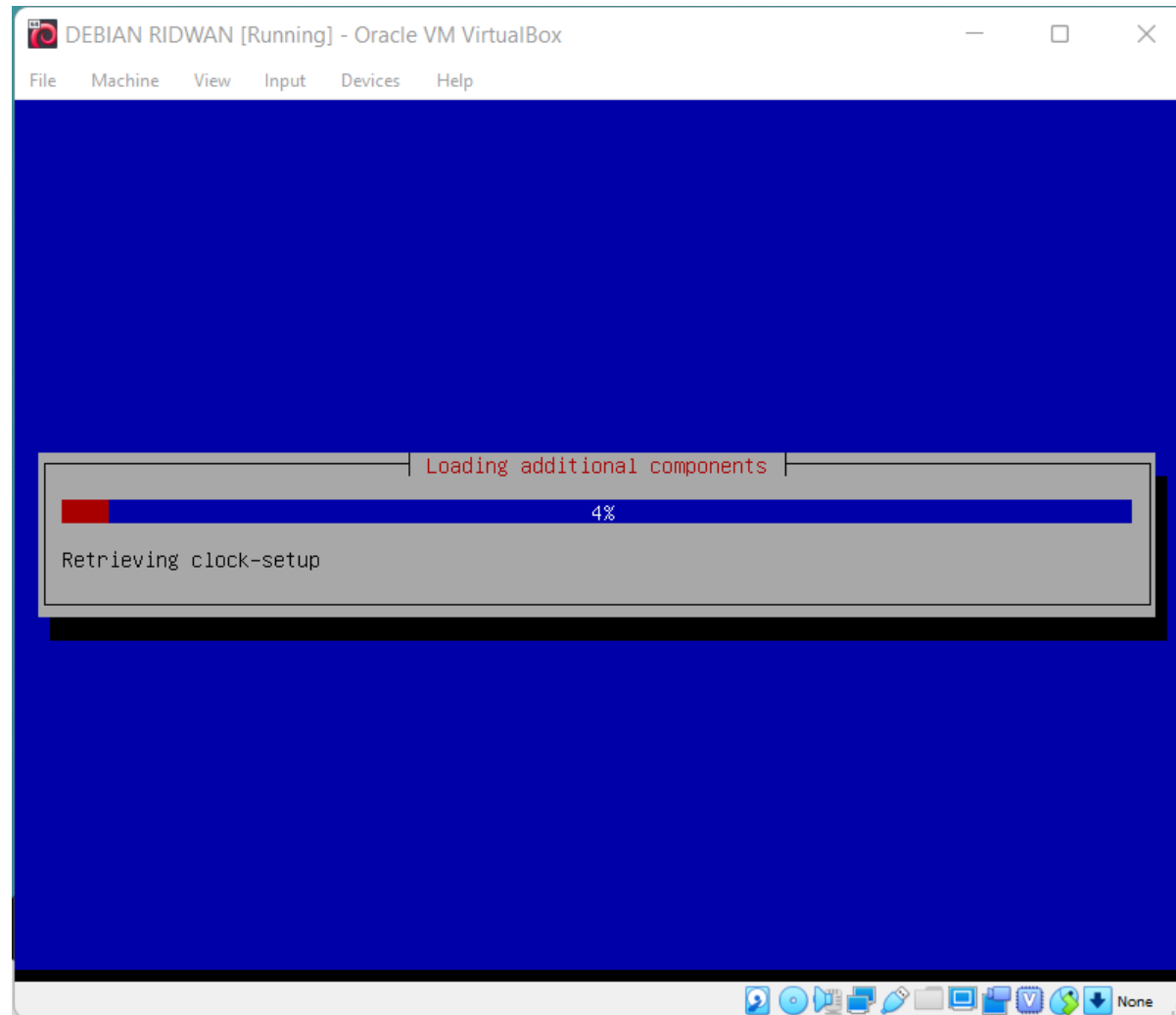
KONFIGURASI DEBIAN



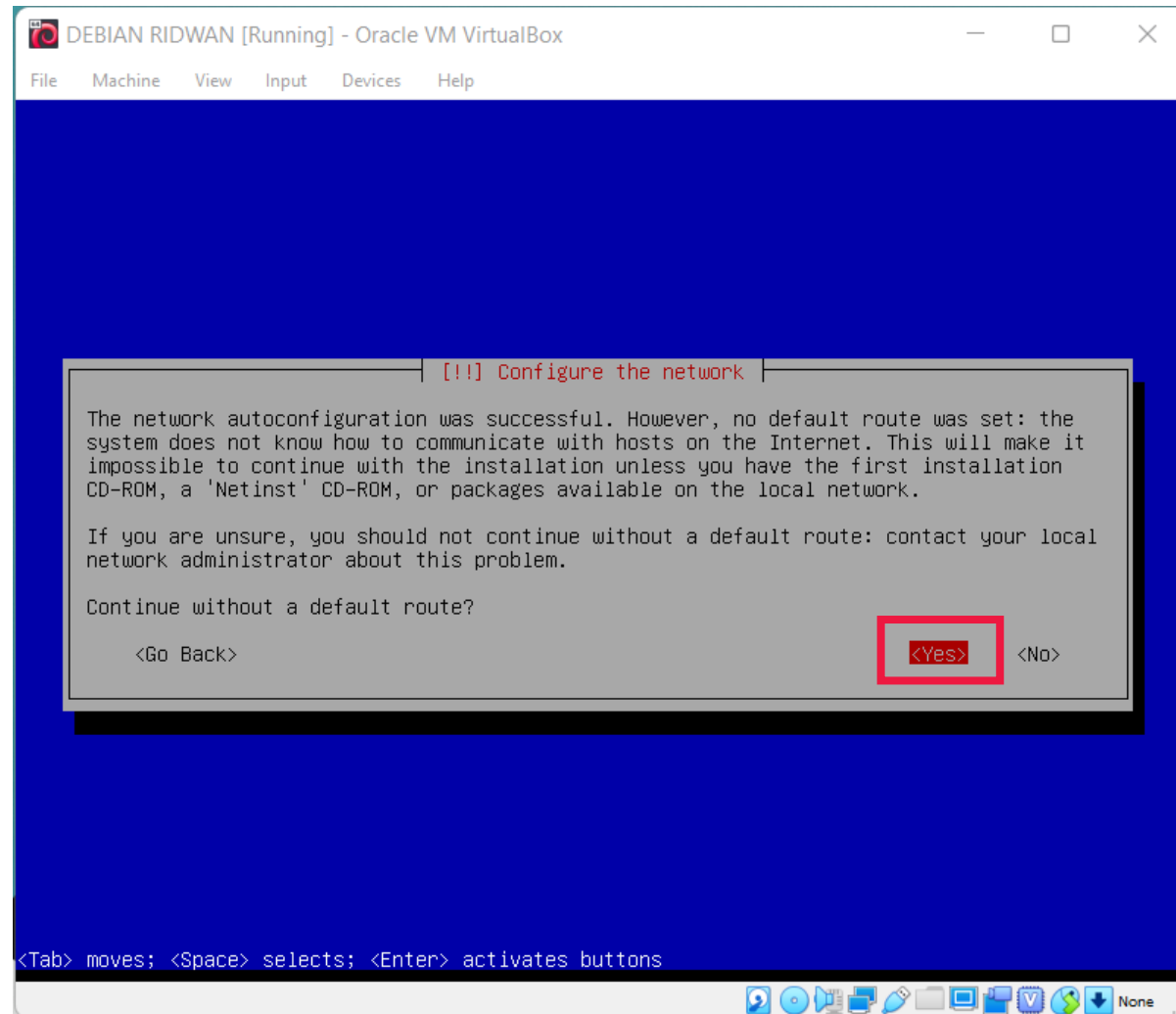
KONFIGURASI DEBIAN



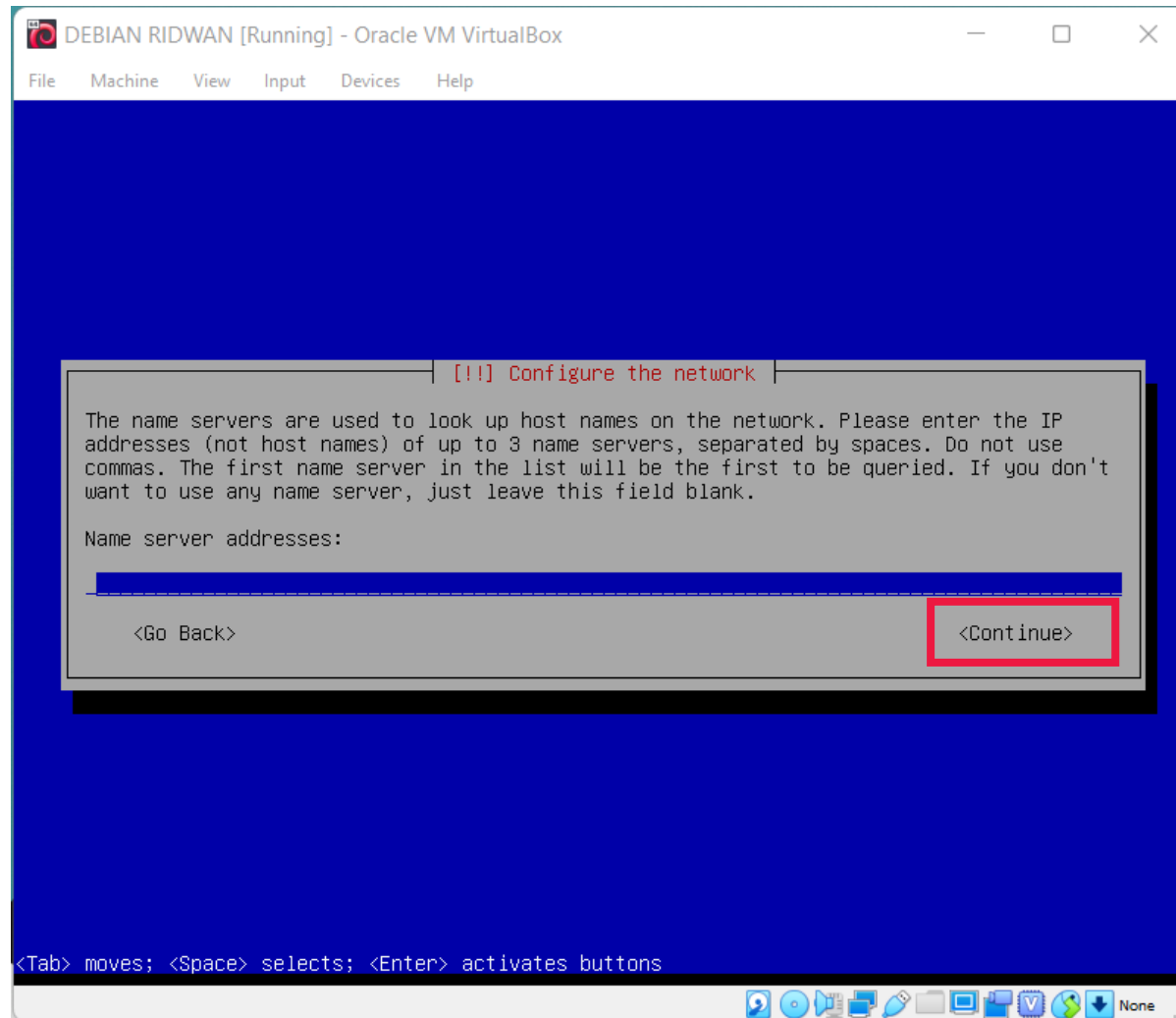
KONFIGURASI DEBIAN



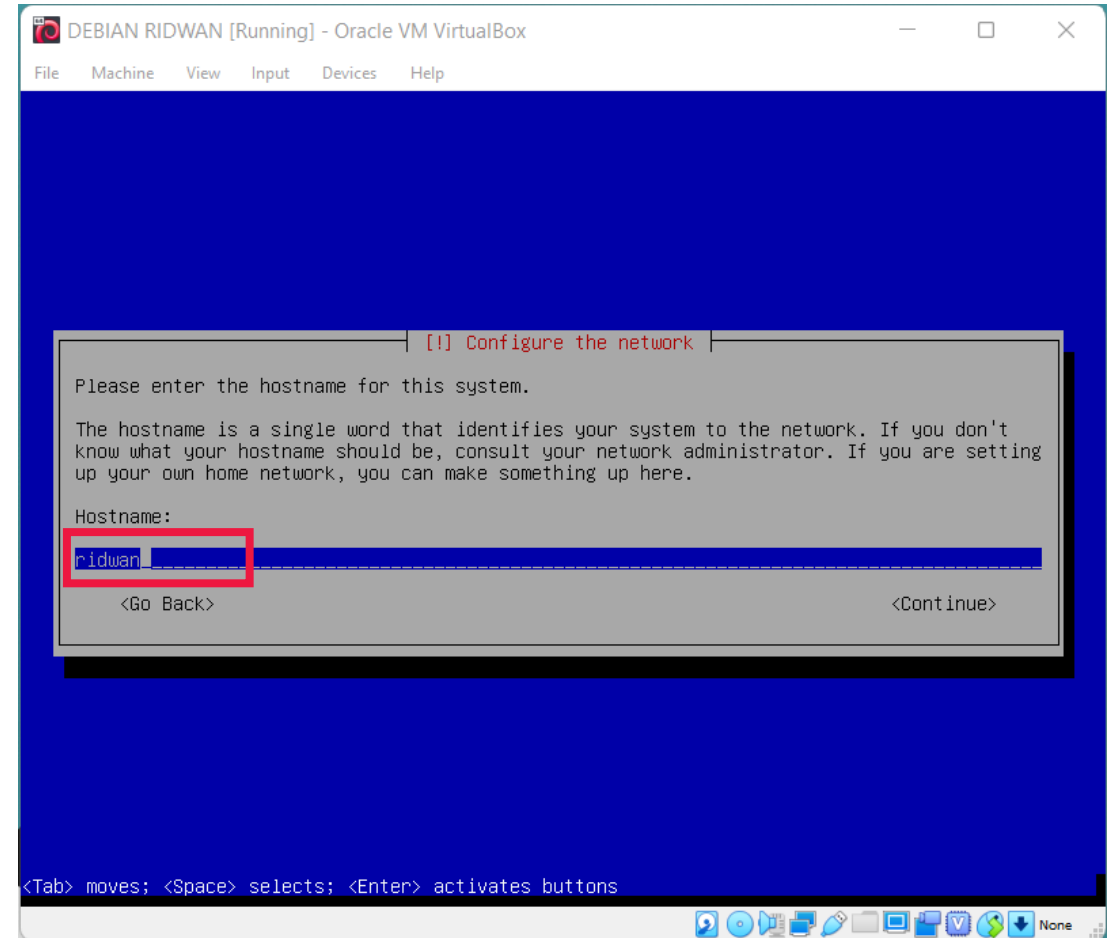
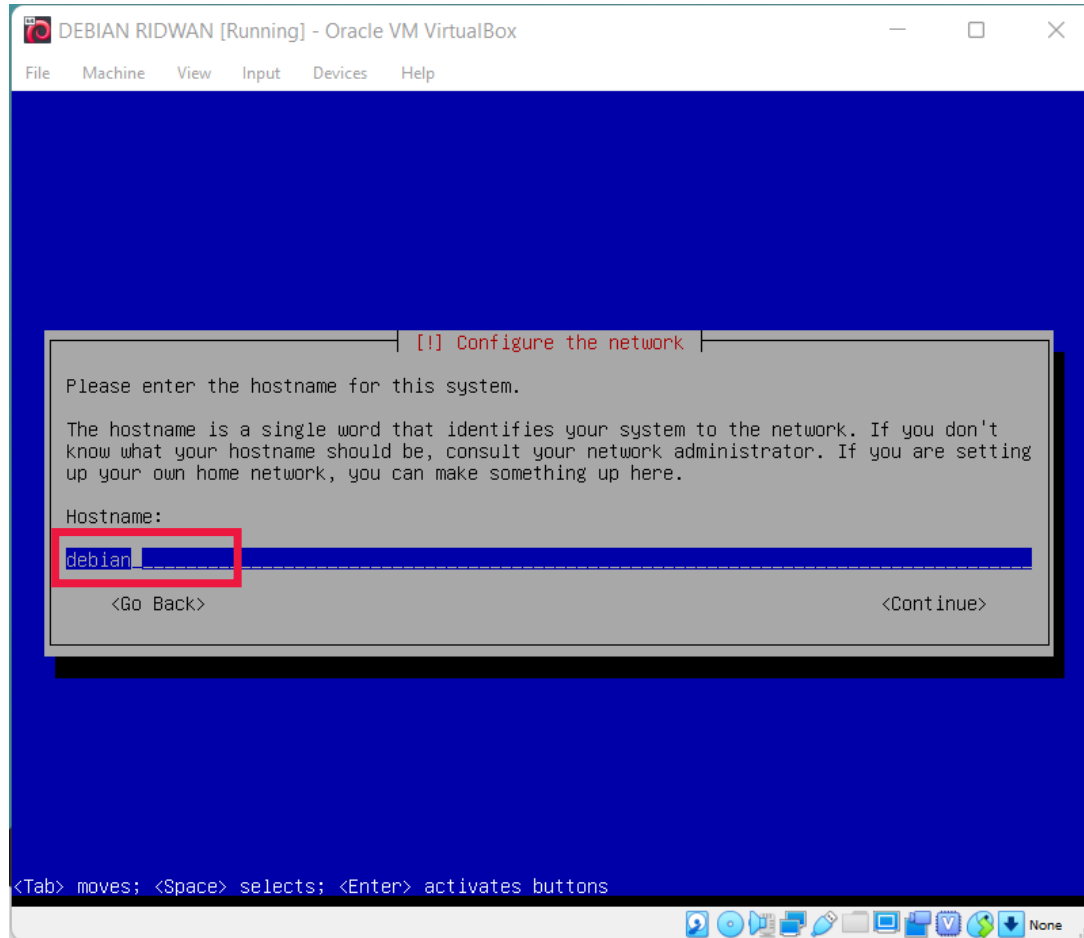
KONFIGURASI DEBIAN



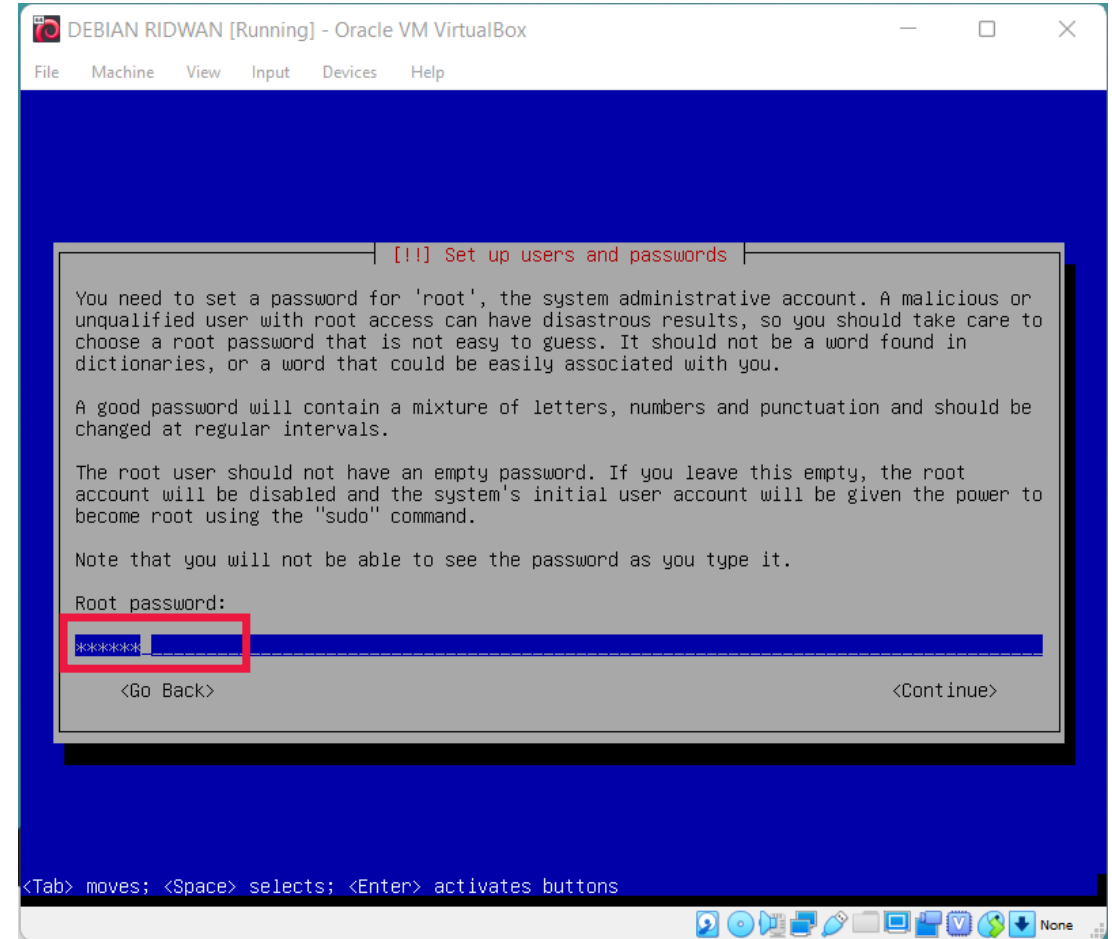
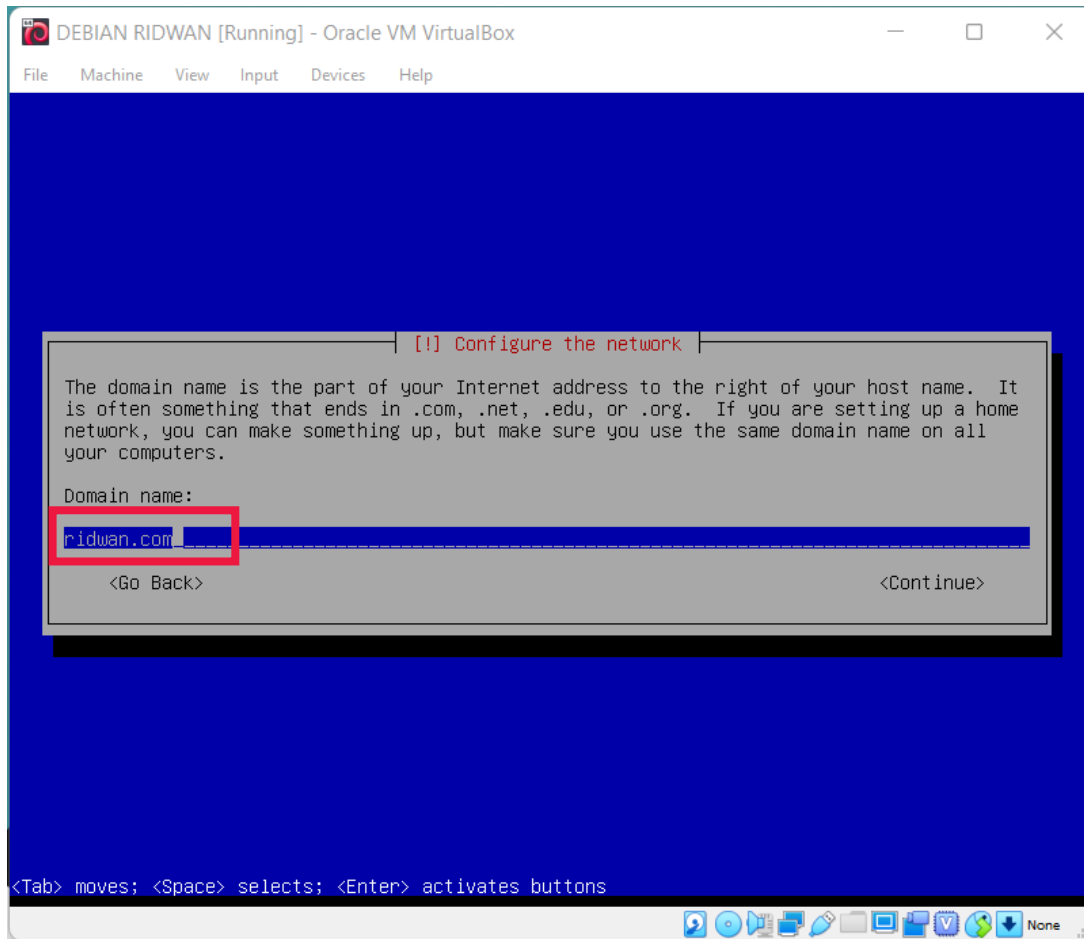
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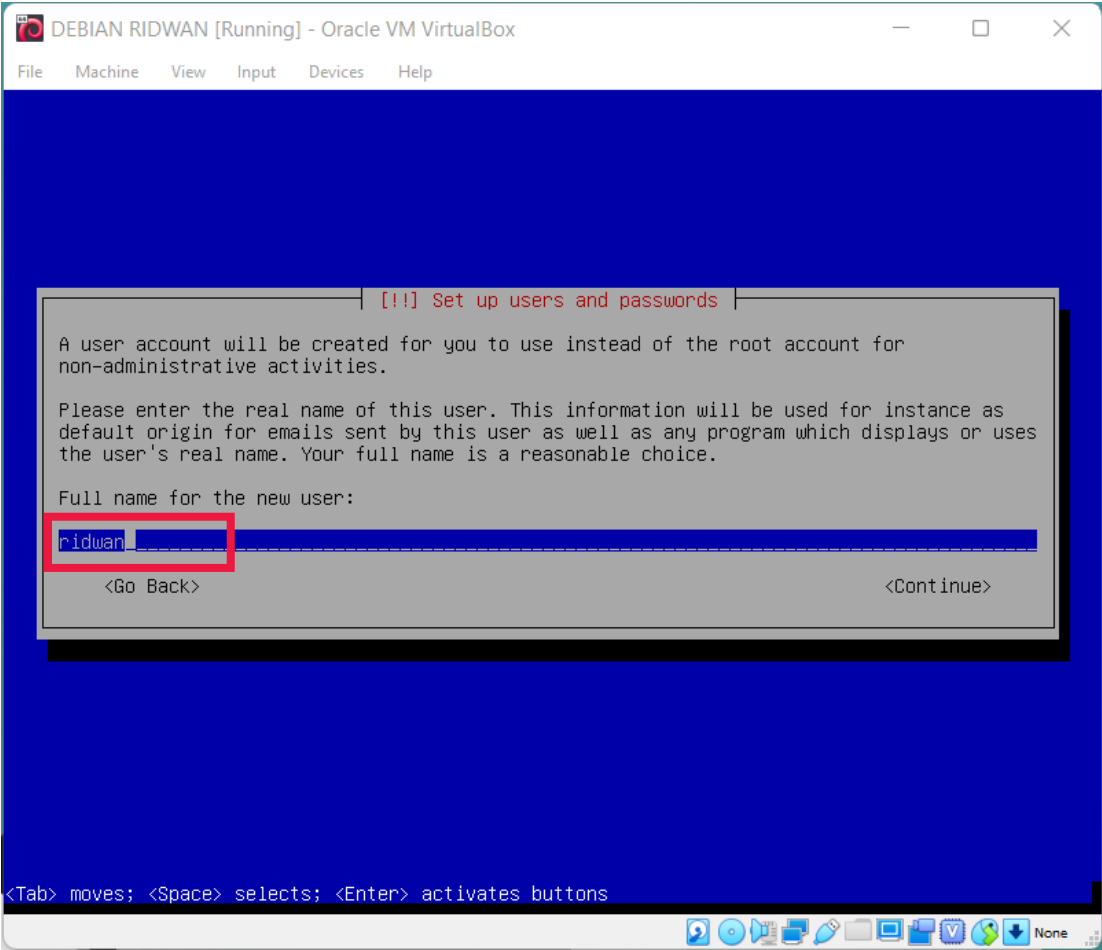


KONFIGURASI DEBIAN

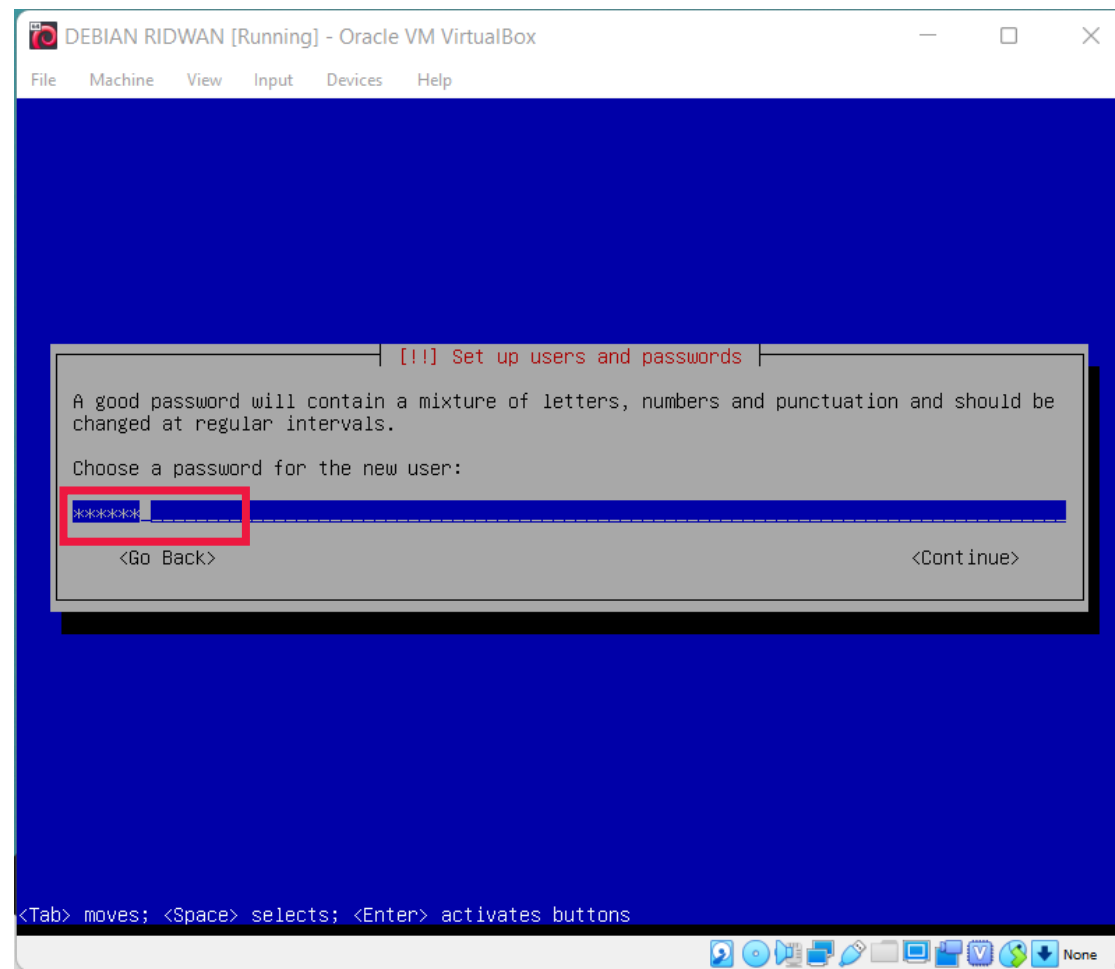
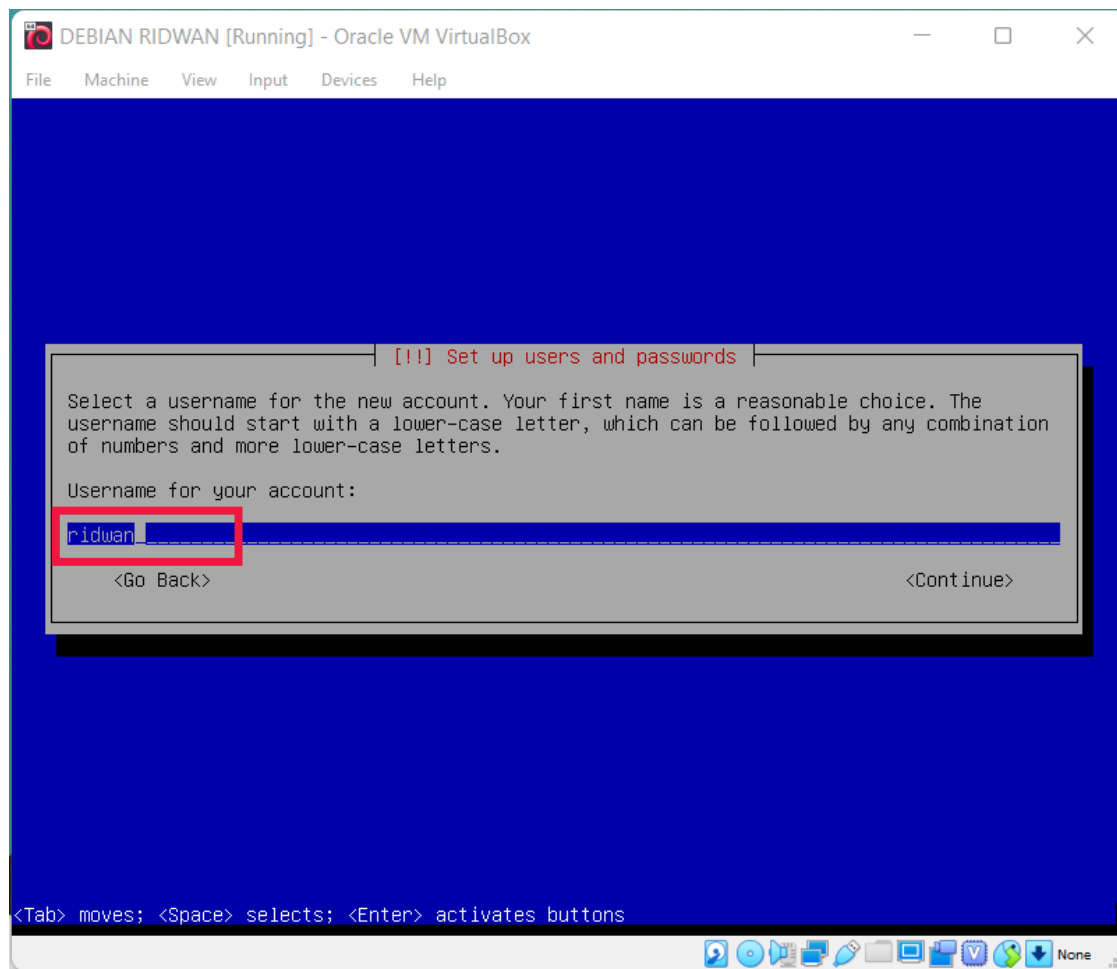


KONFIGURASI DEBIAN

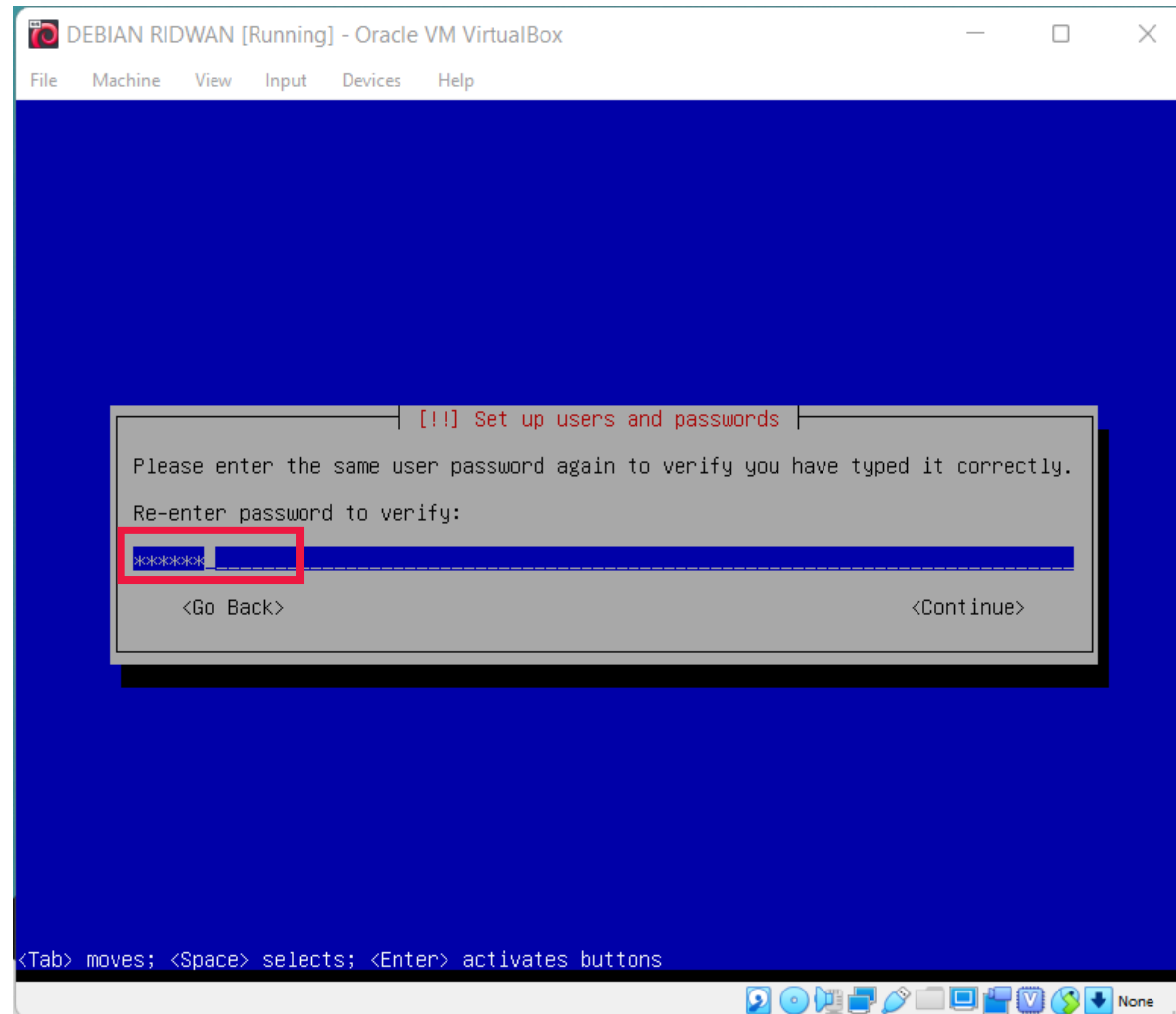




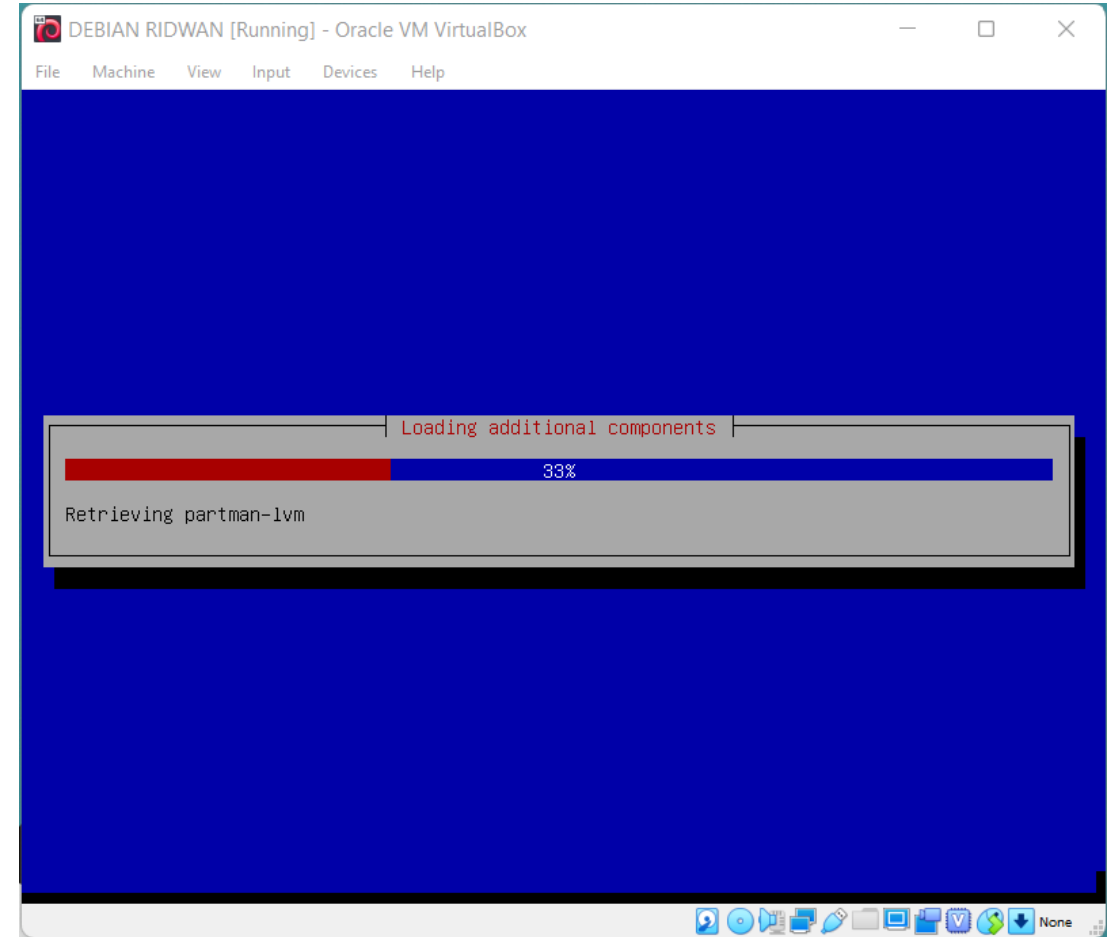
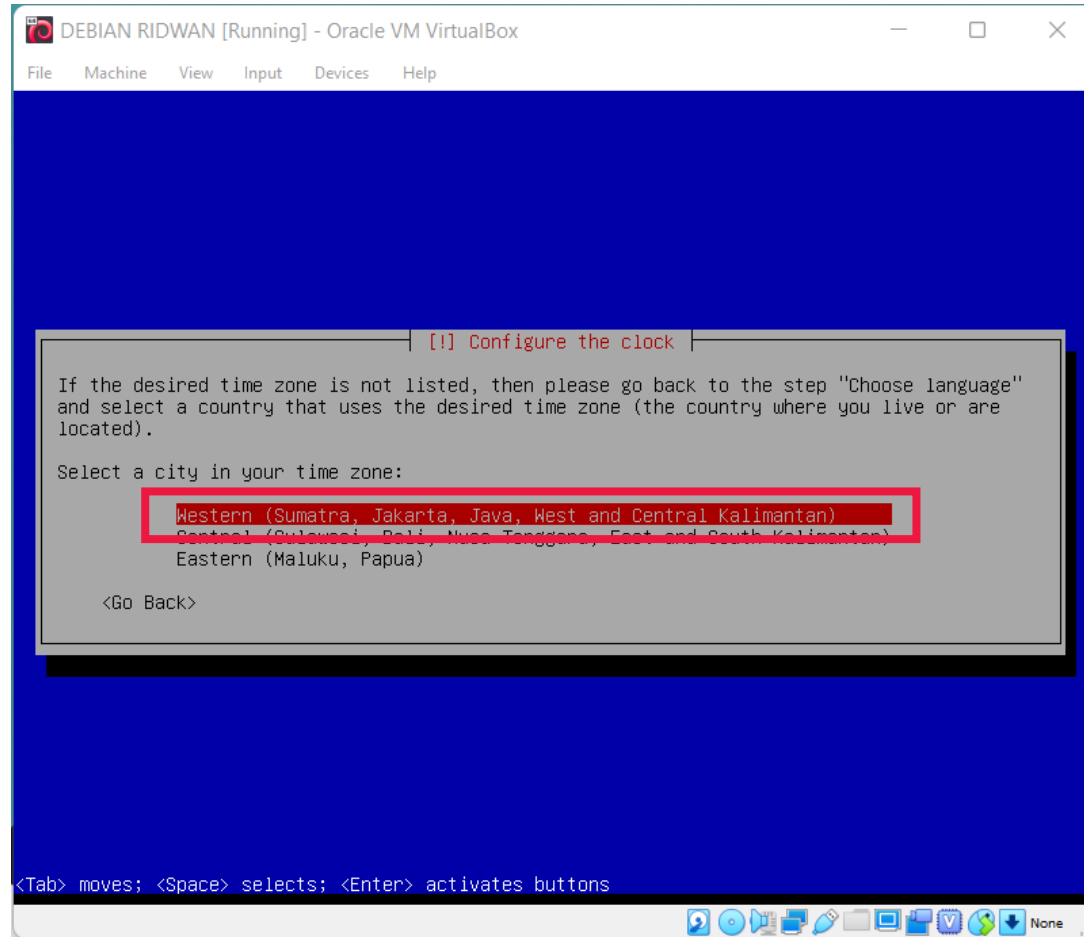
KONFIGURASI DEBIAN



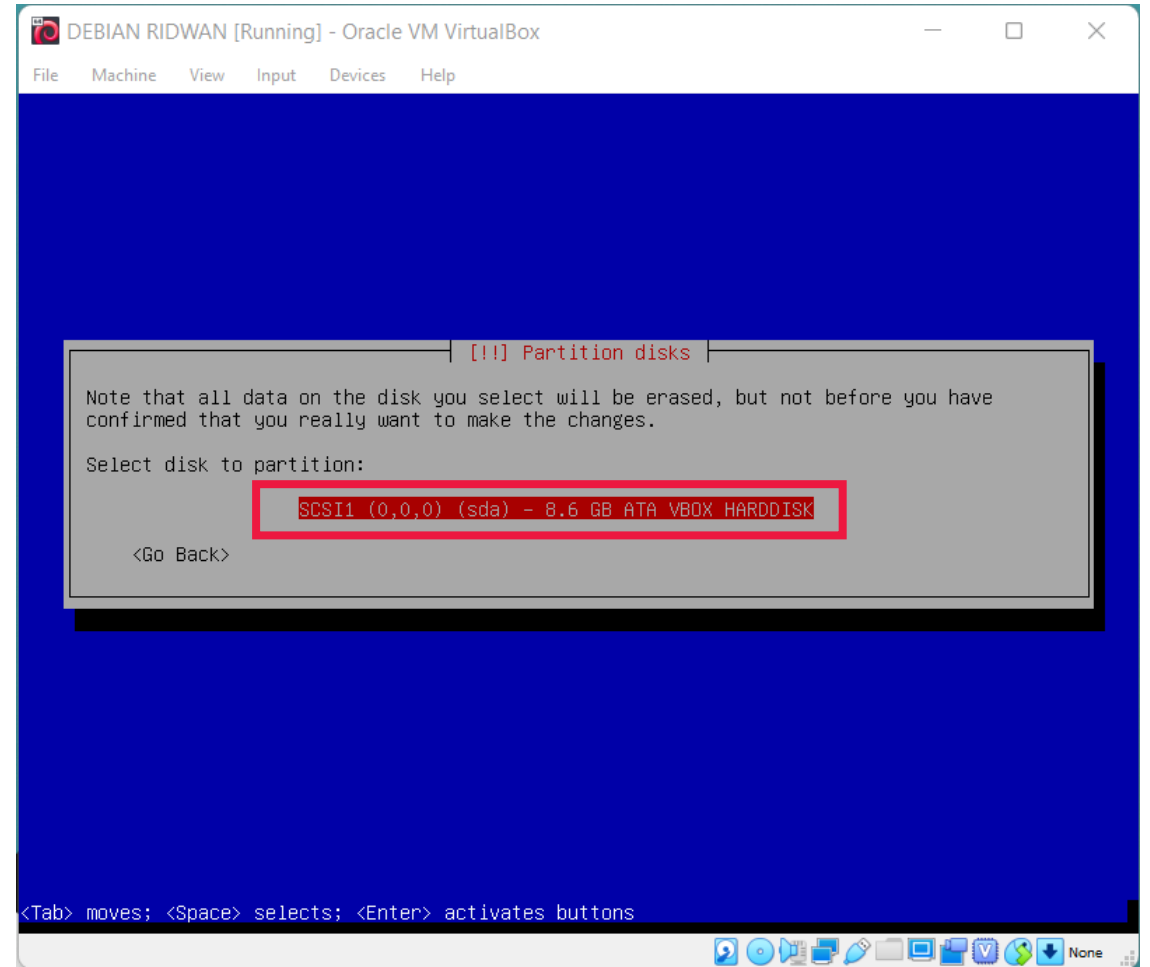
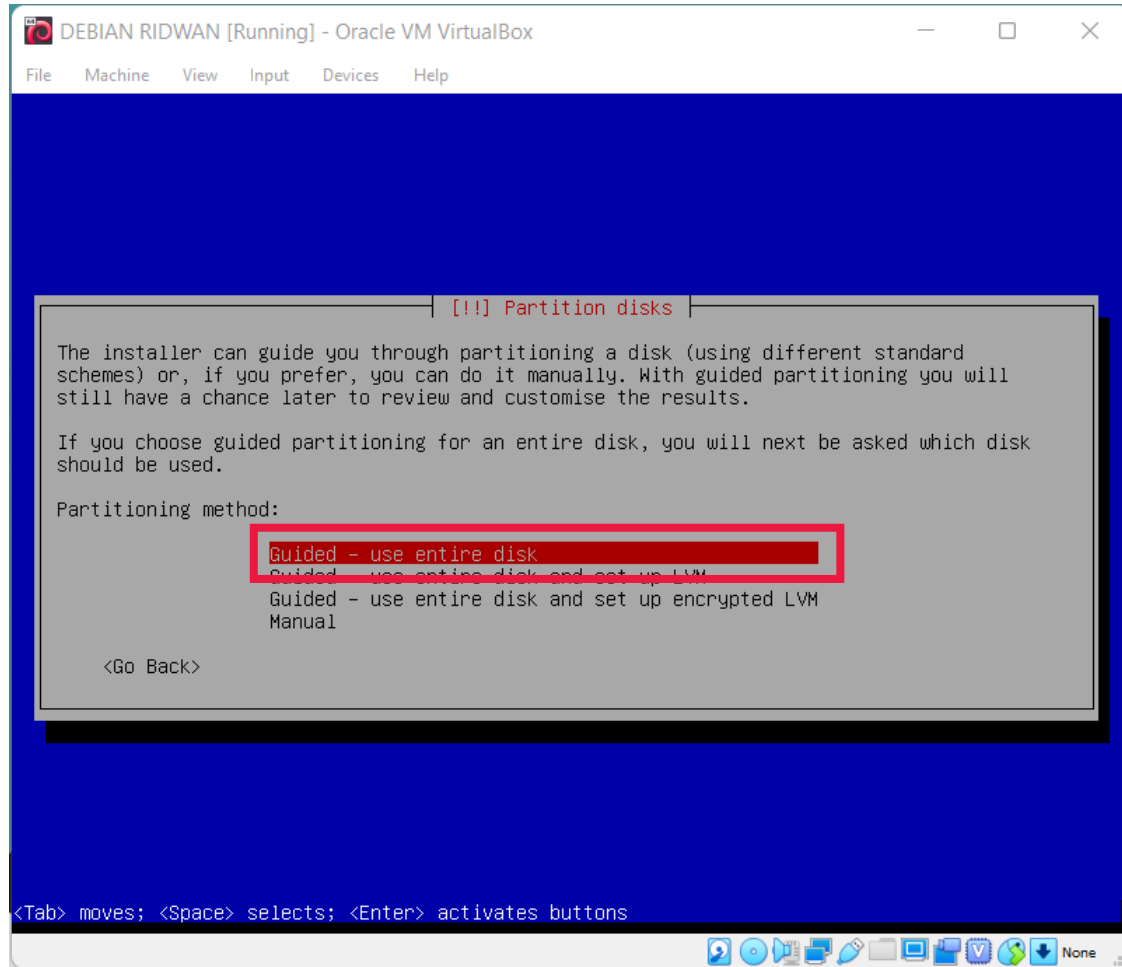
KONFIGURASI DEBIAN



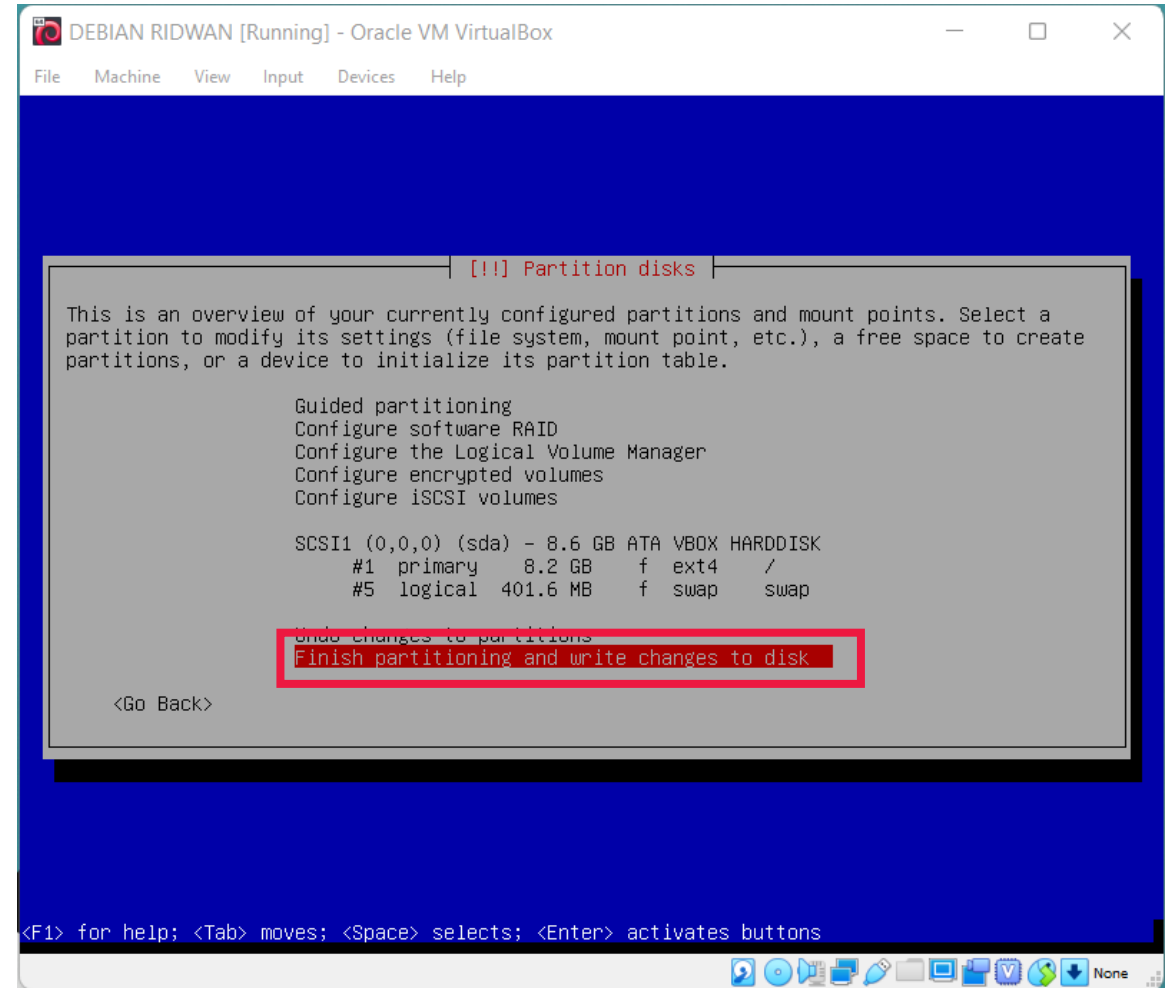
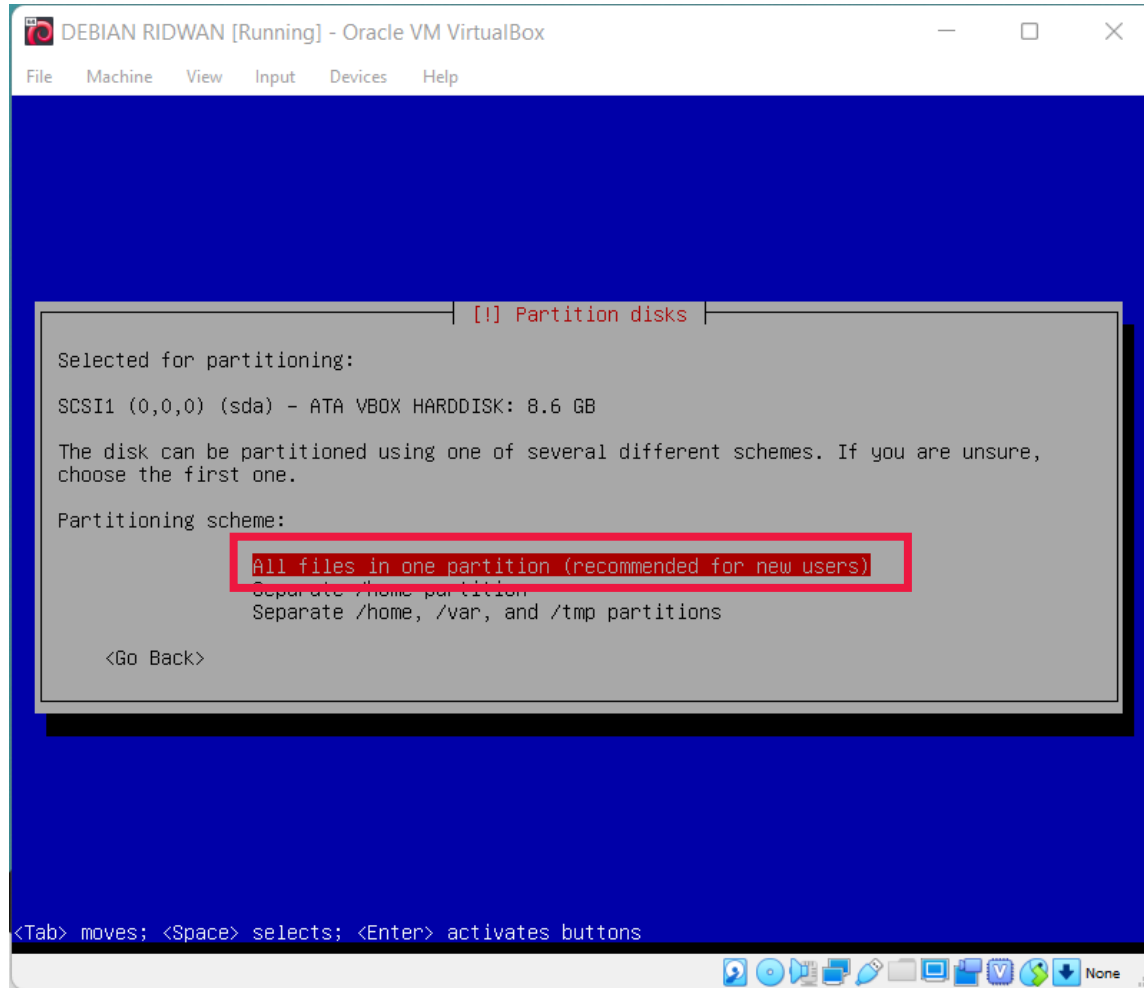
KONFIGURASI DEBIAN



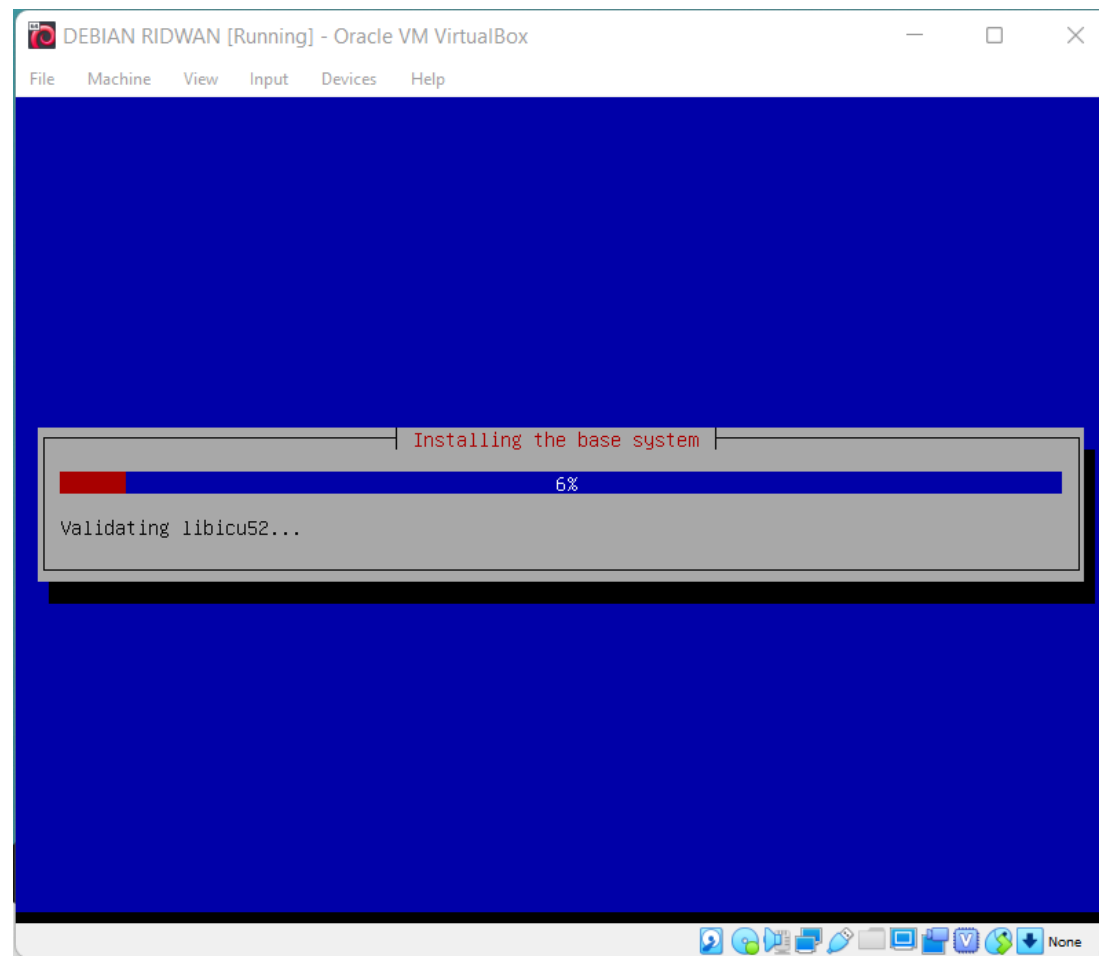
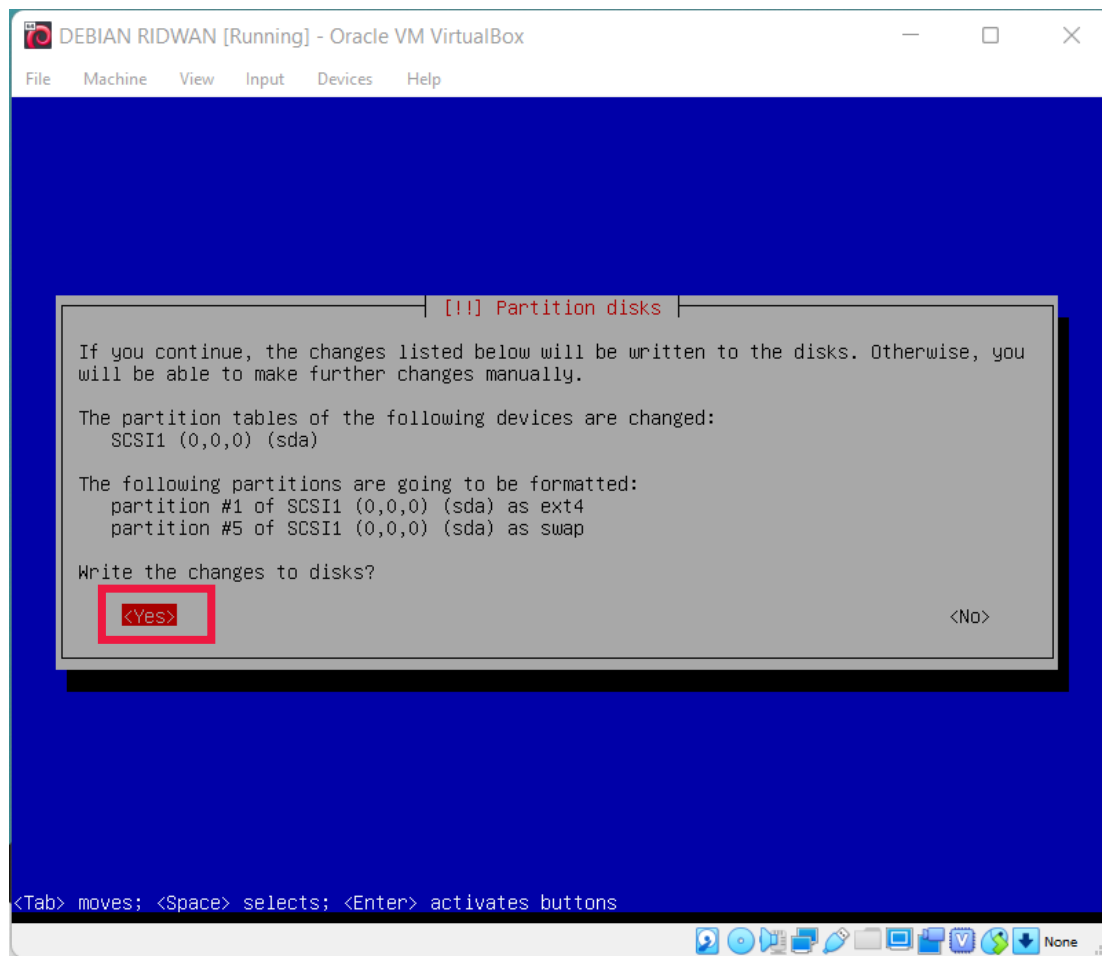
KONFIGURASI DEBIAN



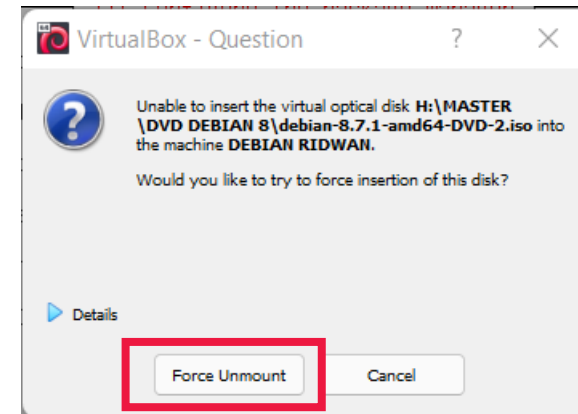
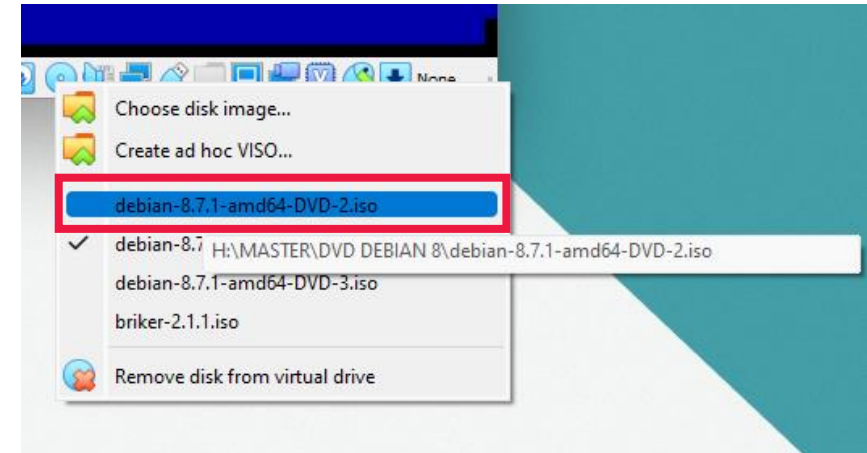
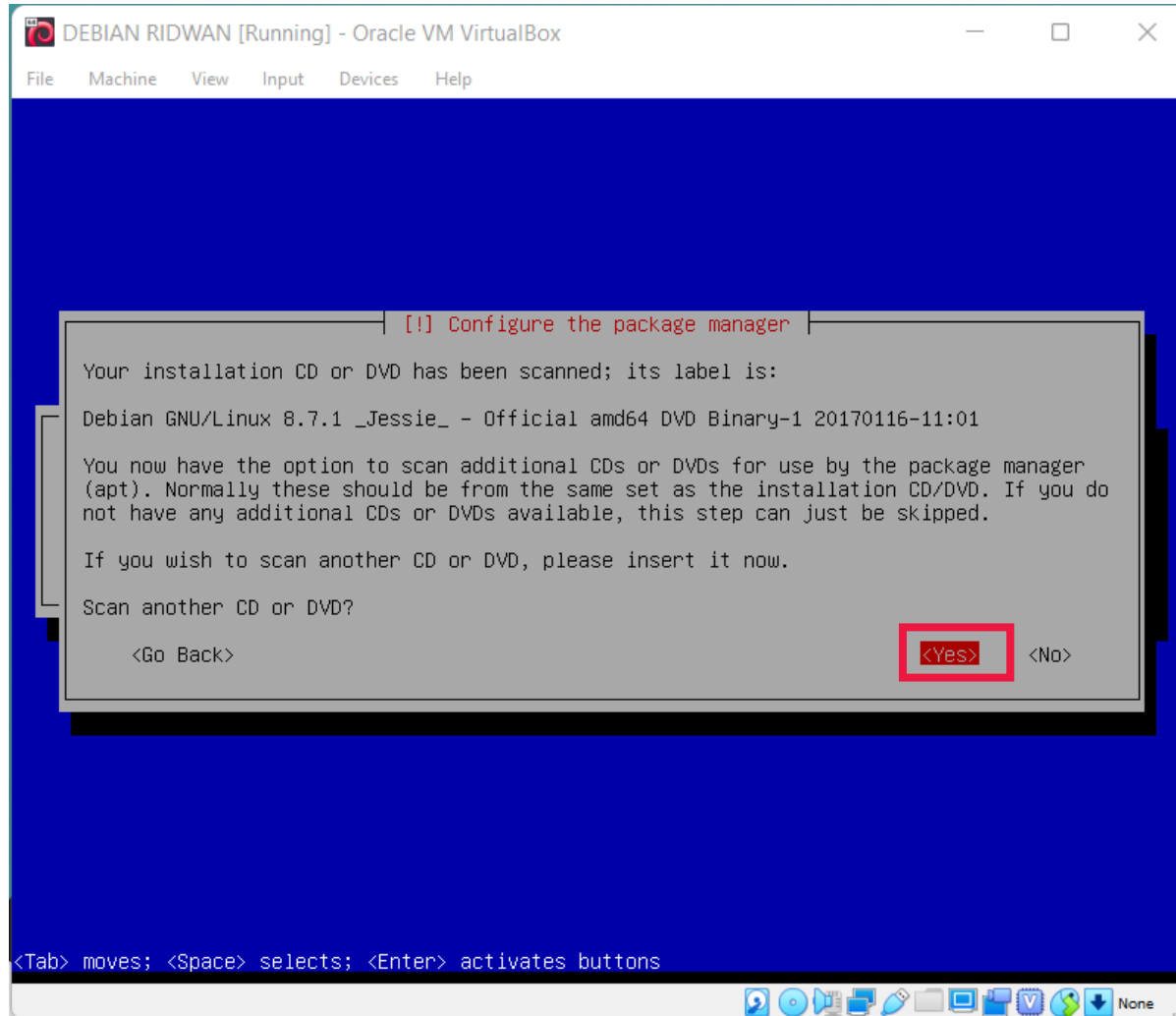
KONFIGURASI DEBIAN



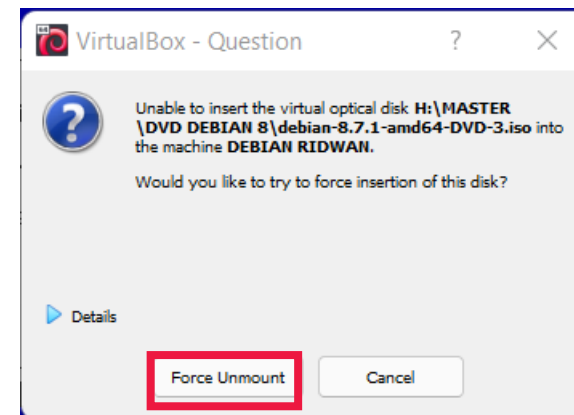
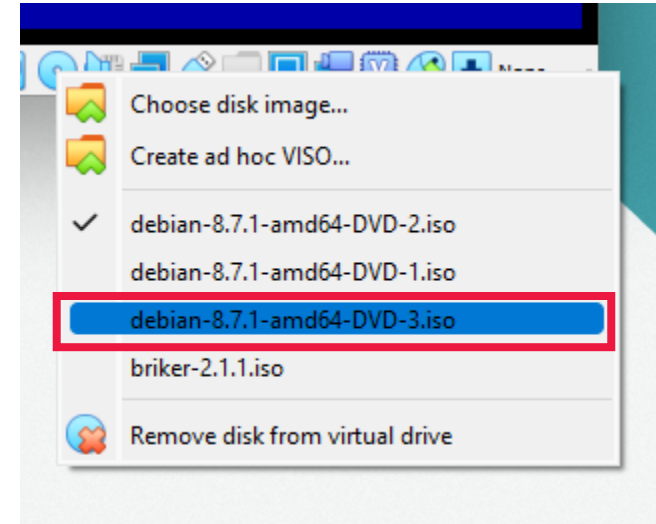
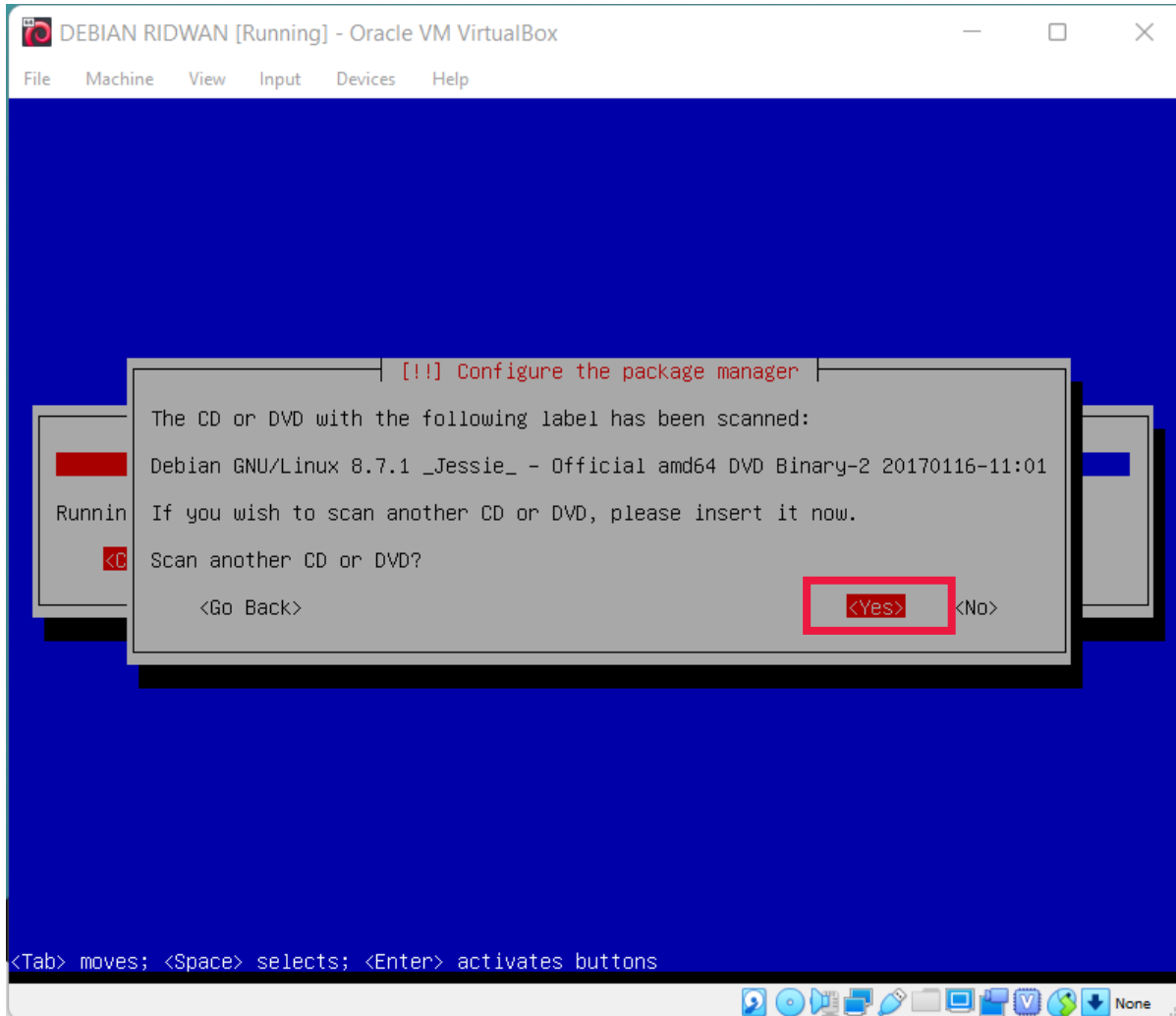
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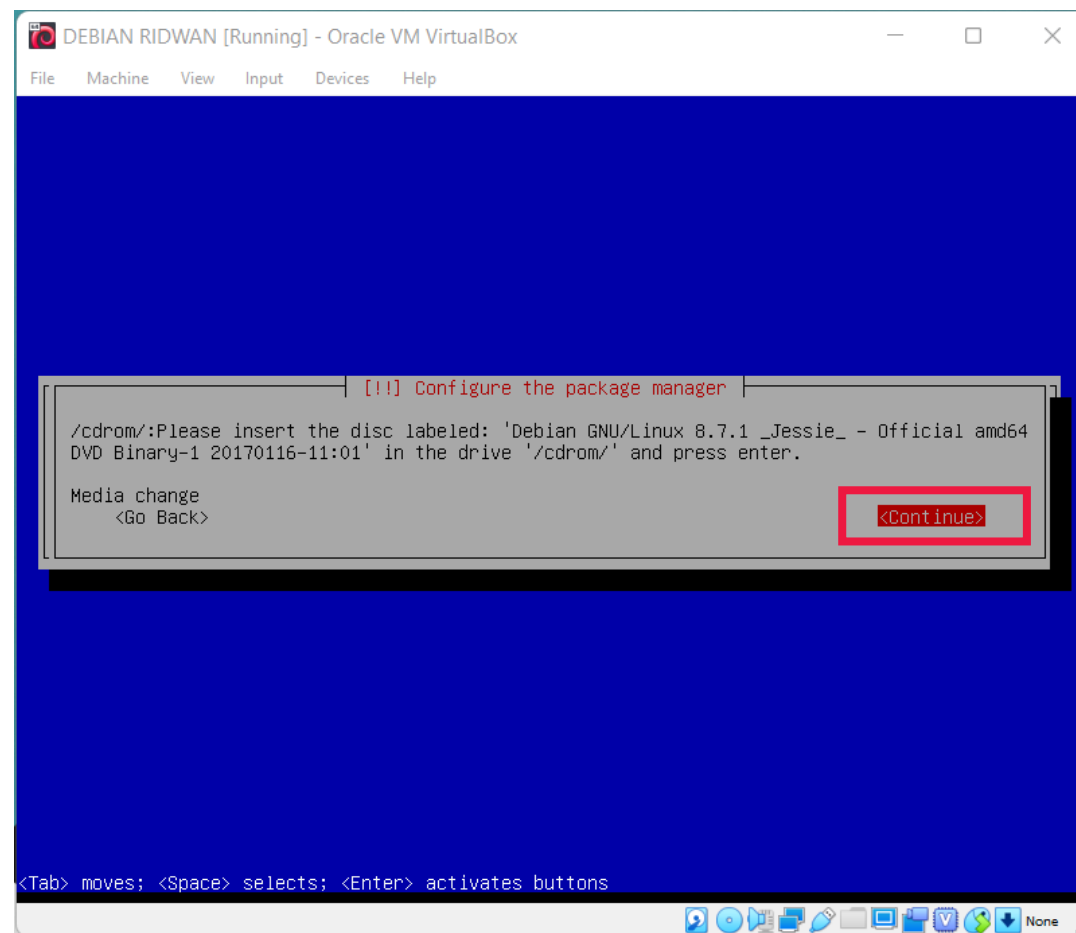
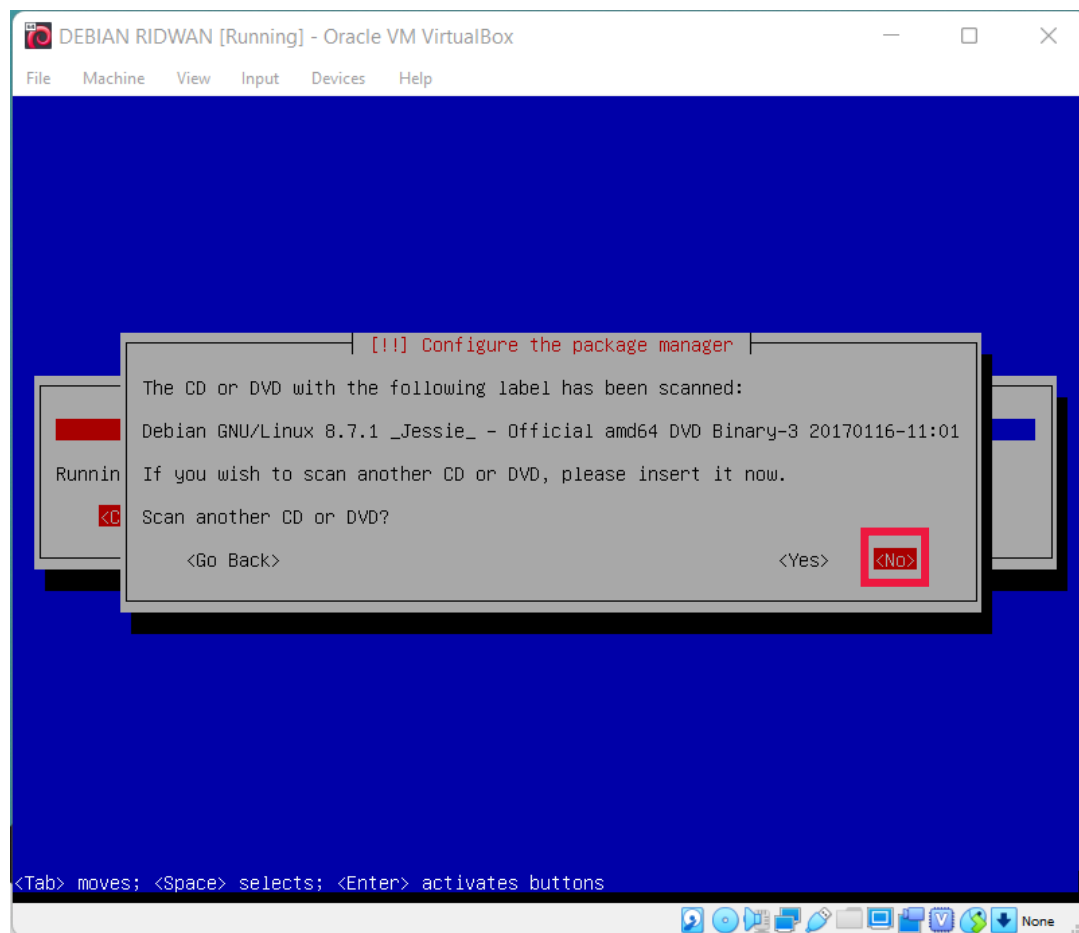
KONFIGURASI DEBIAN



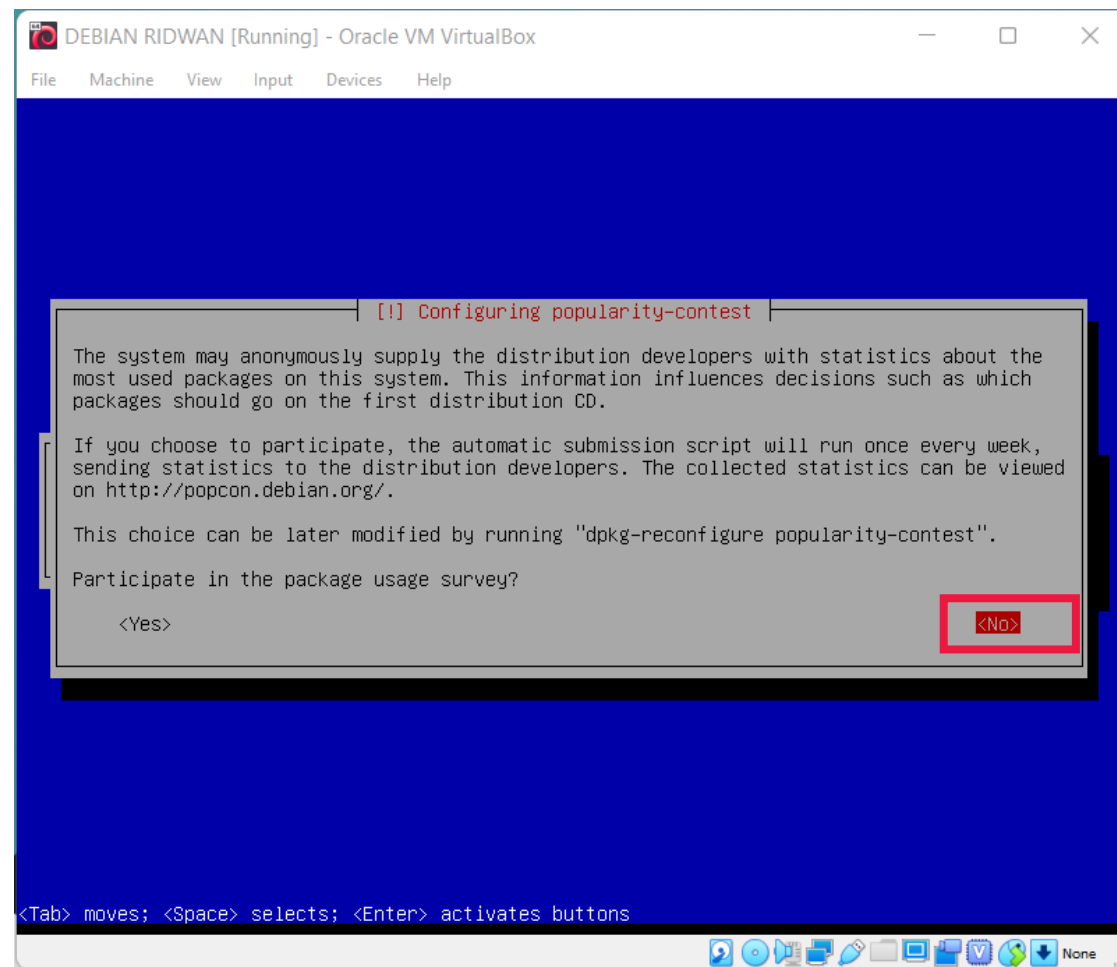
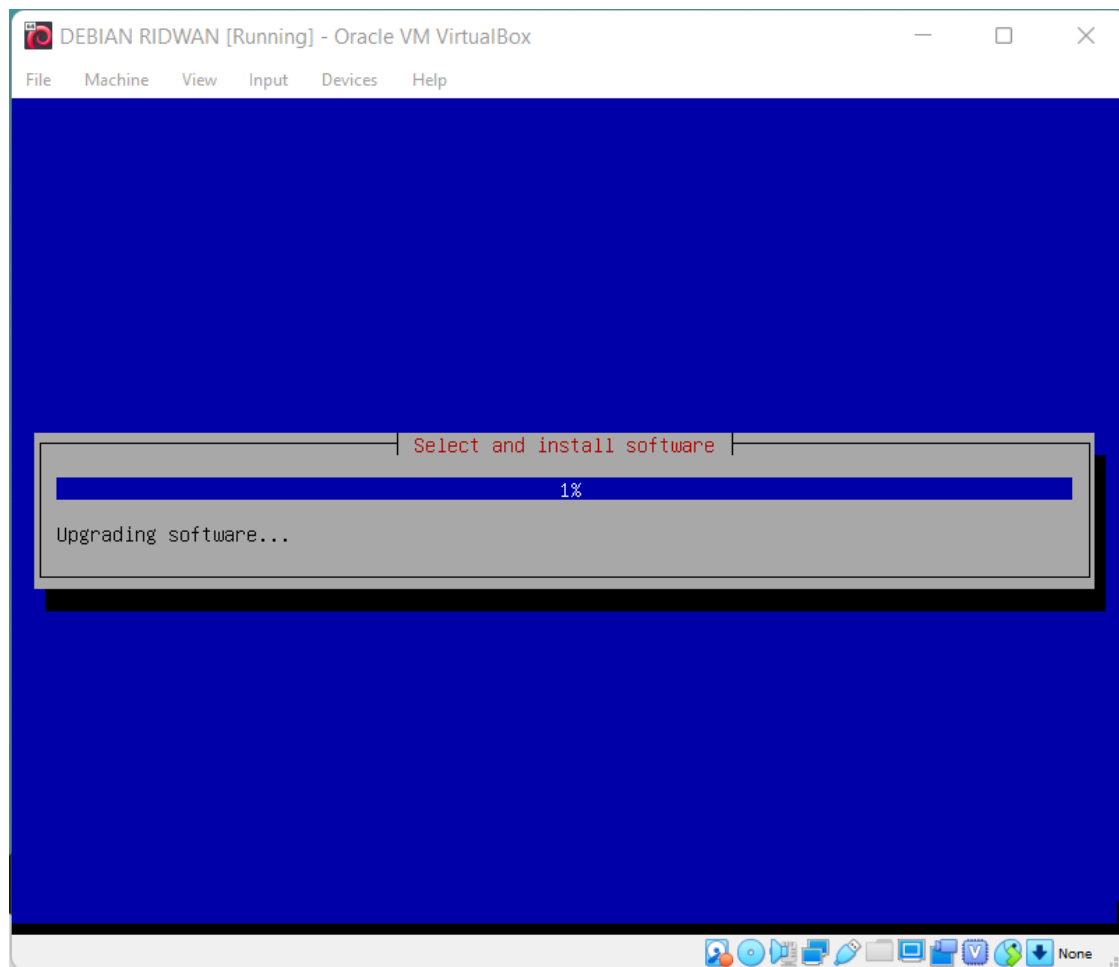
KONFIGURASI DEBIAN



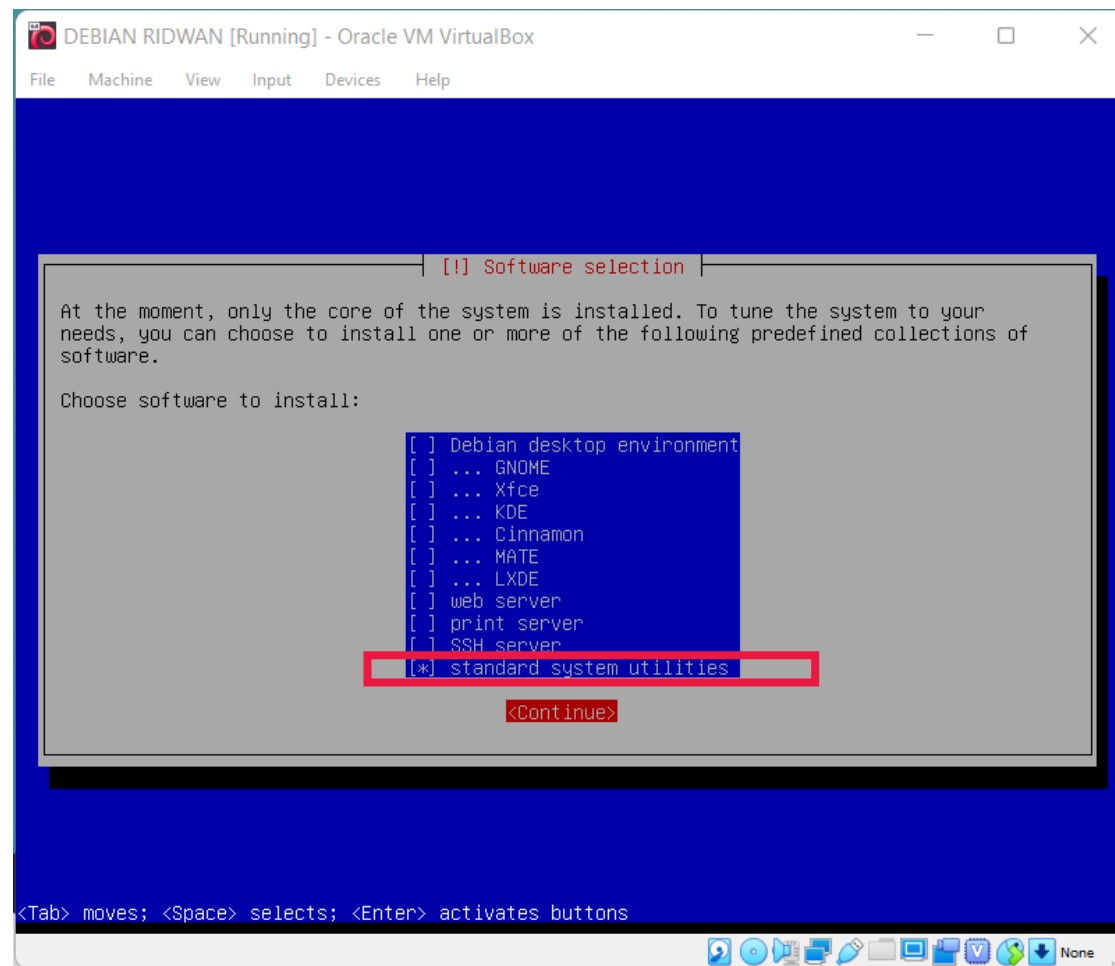
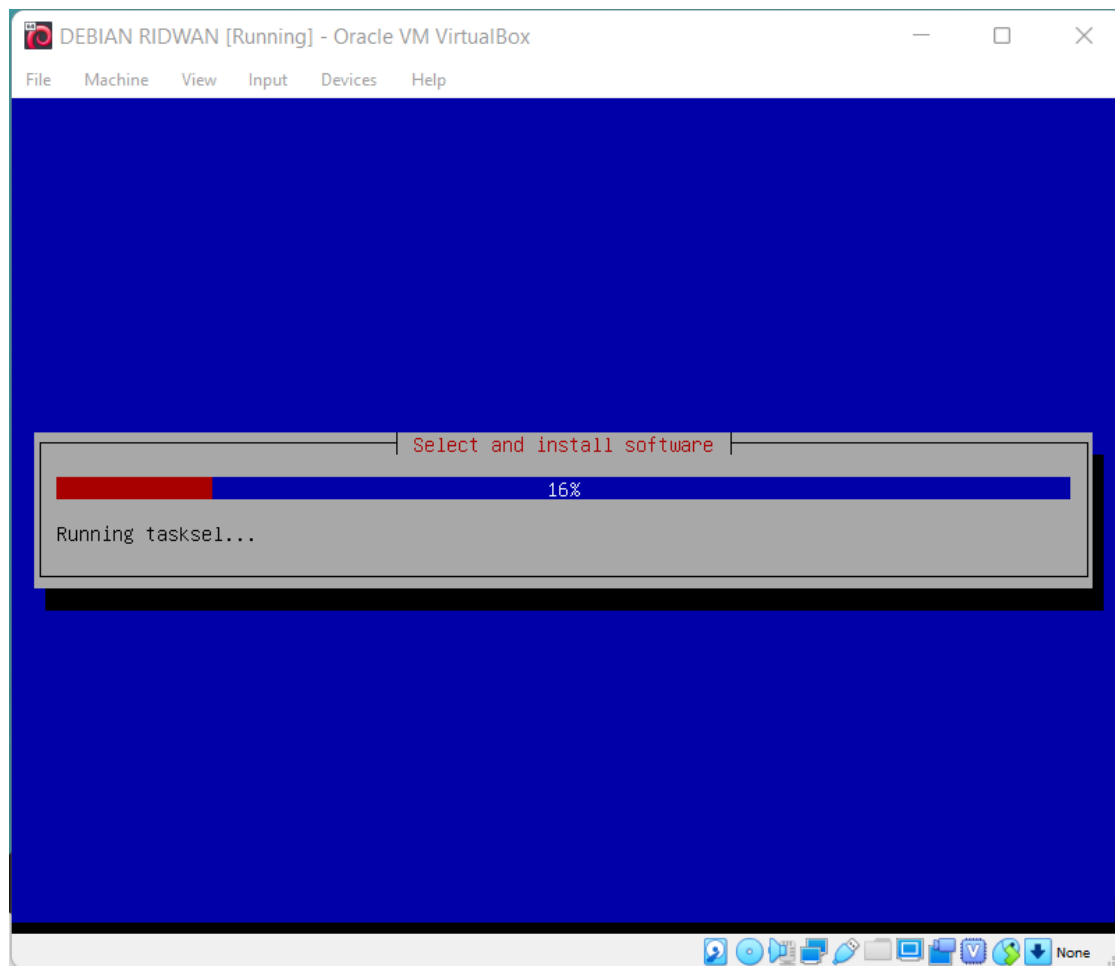
KONFIGURASI DEBIAN



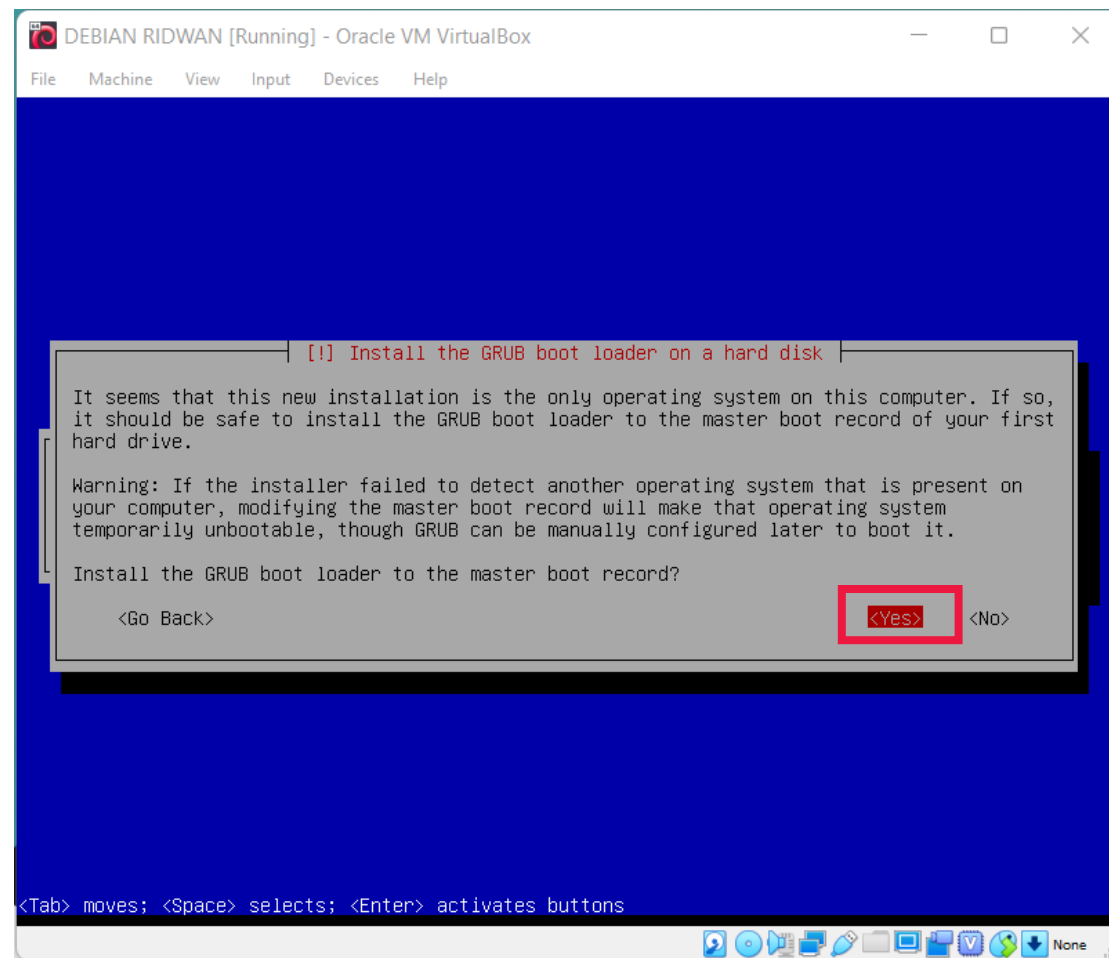
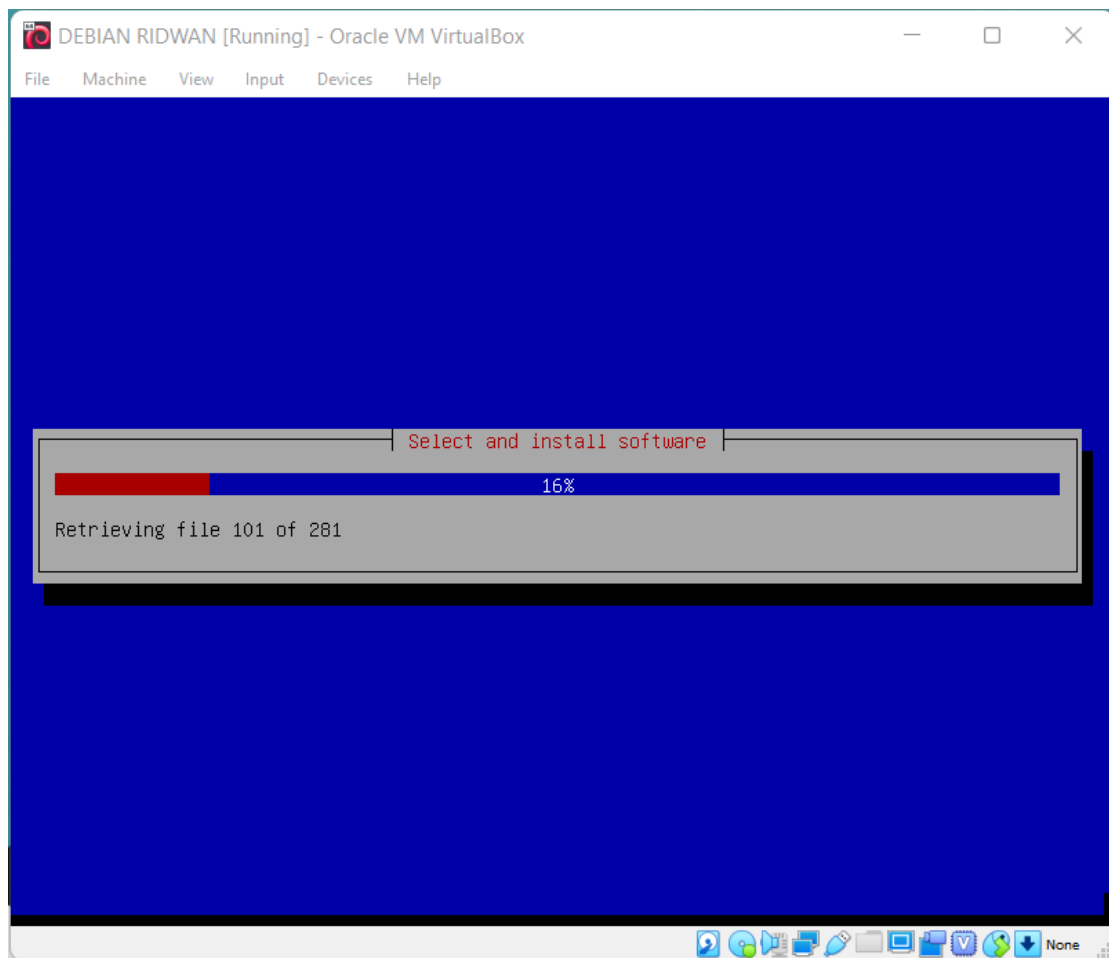
KONFIGURASI DEBIAN



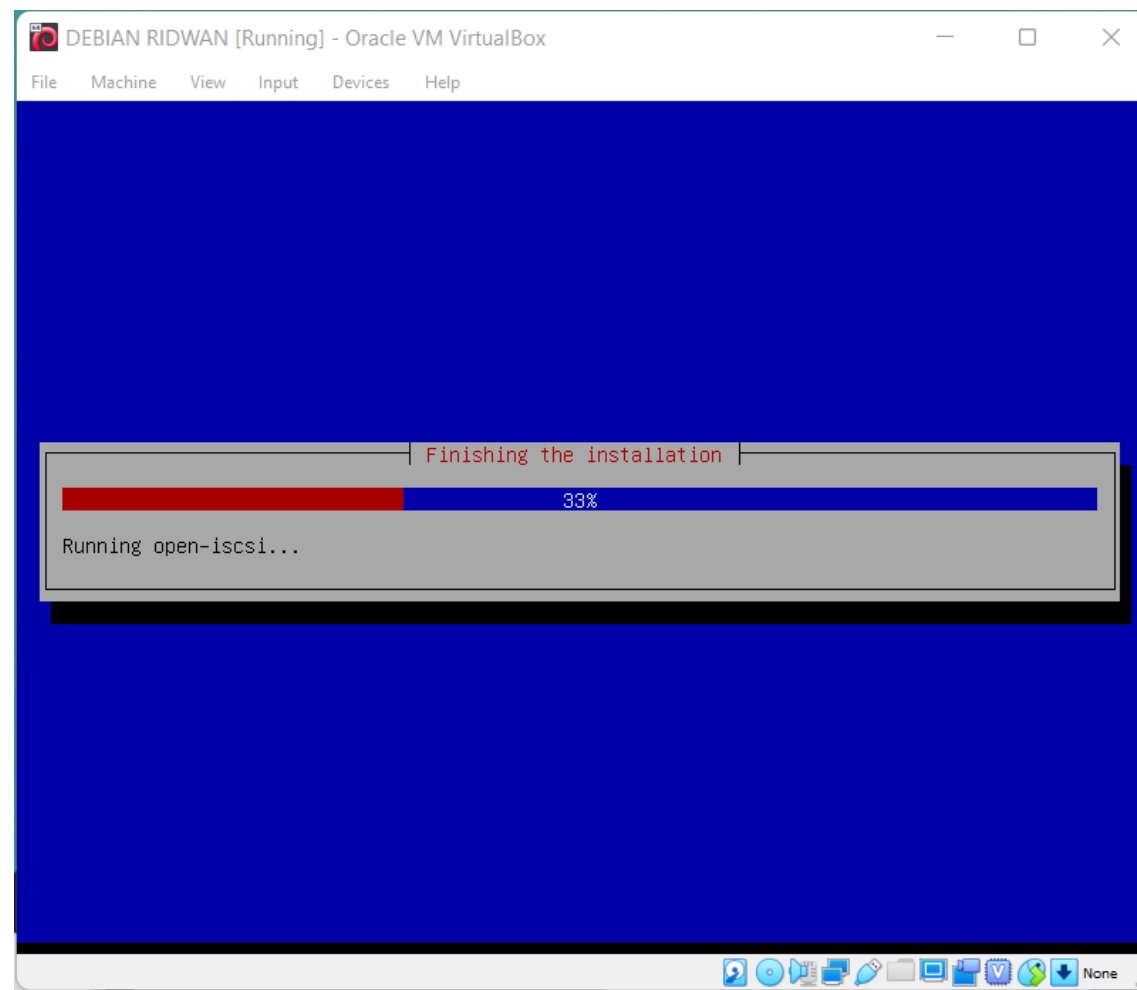
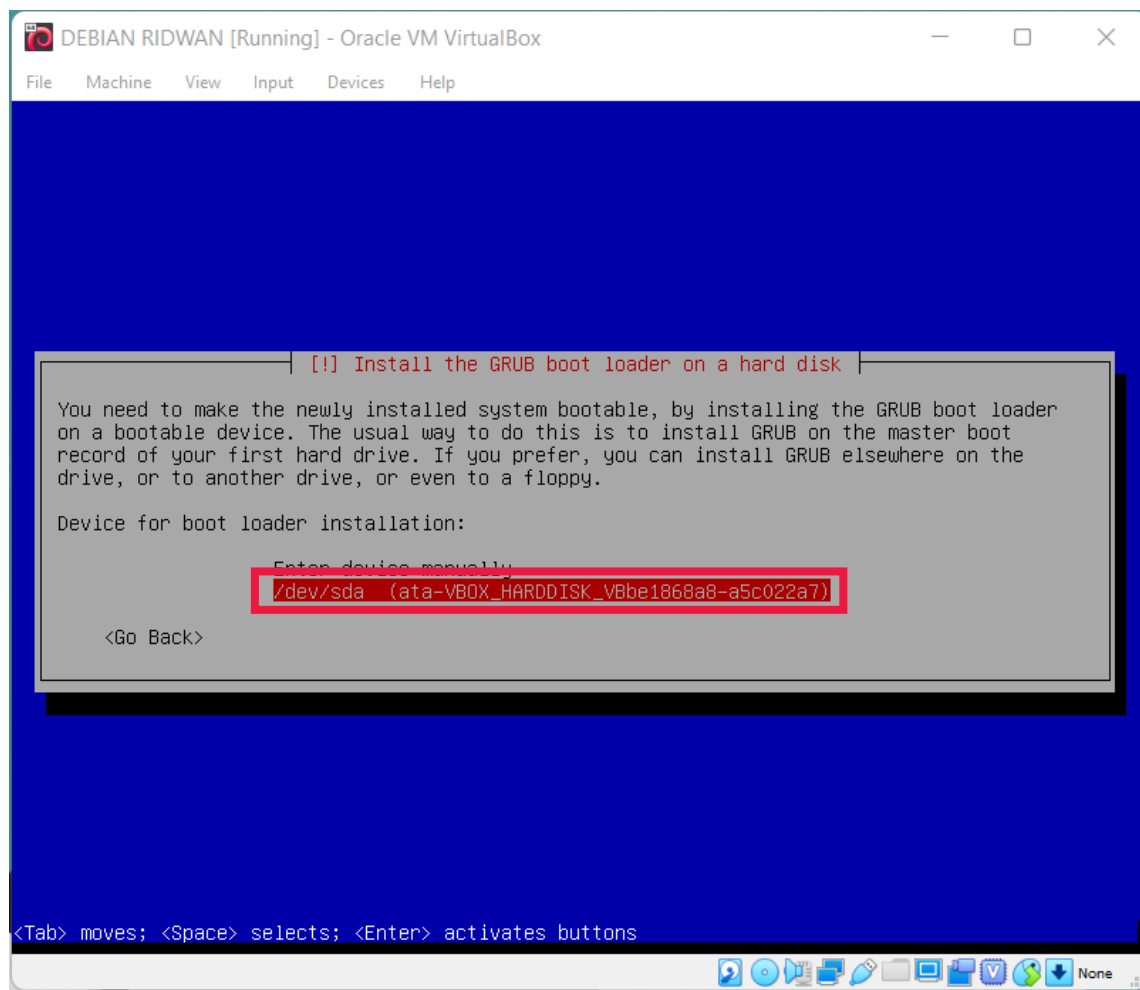
KONFIGURASI DEBIAN



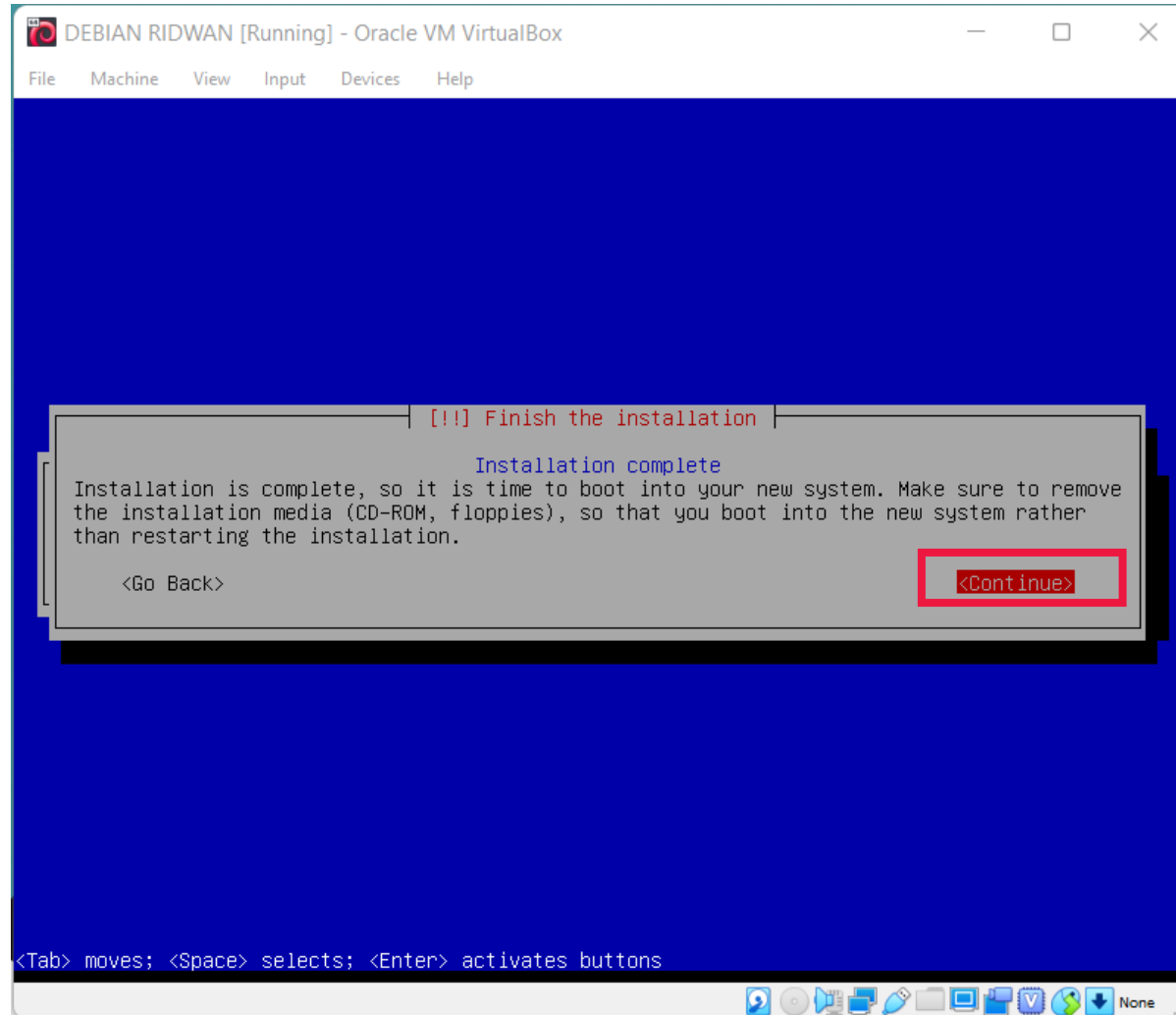
KONFIGURASI DEBIAN



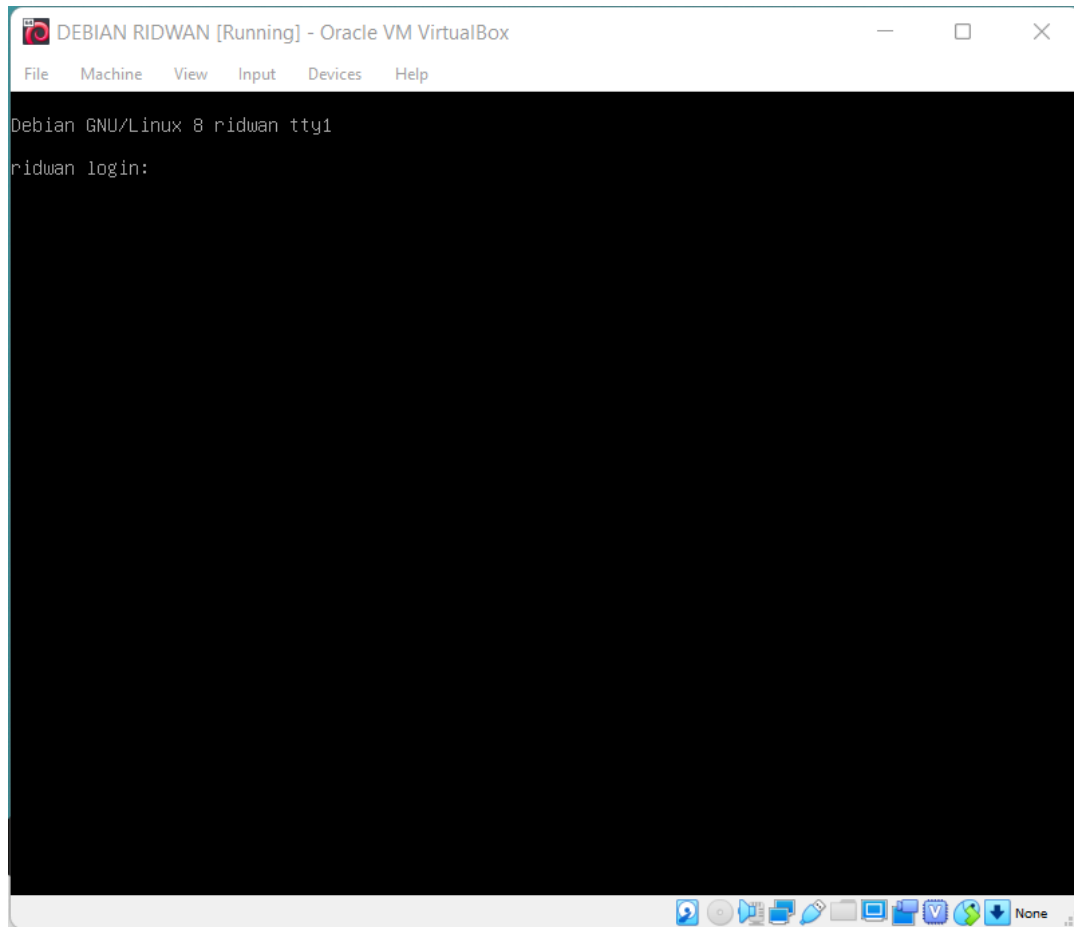
KONFIGURASI DEBIAN



KONFIGURASI DEBIAN



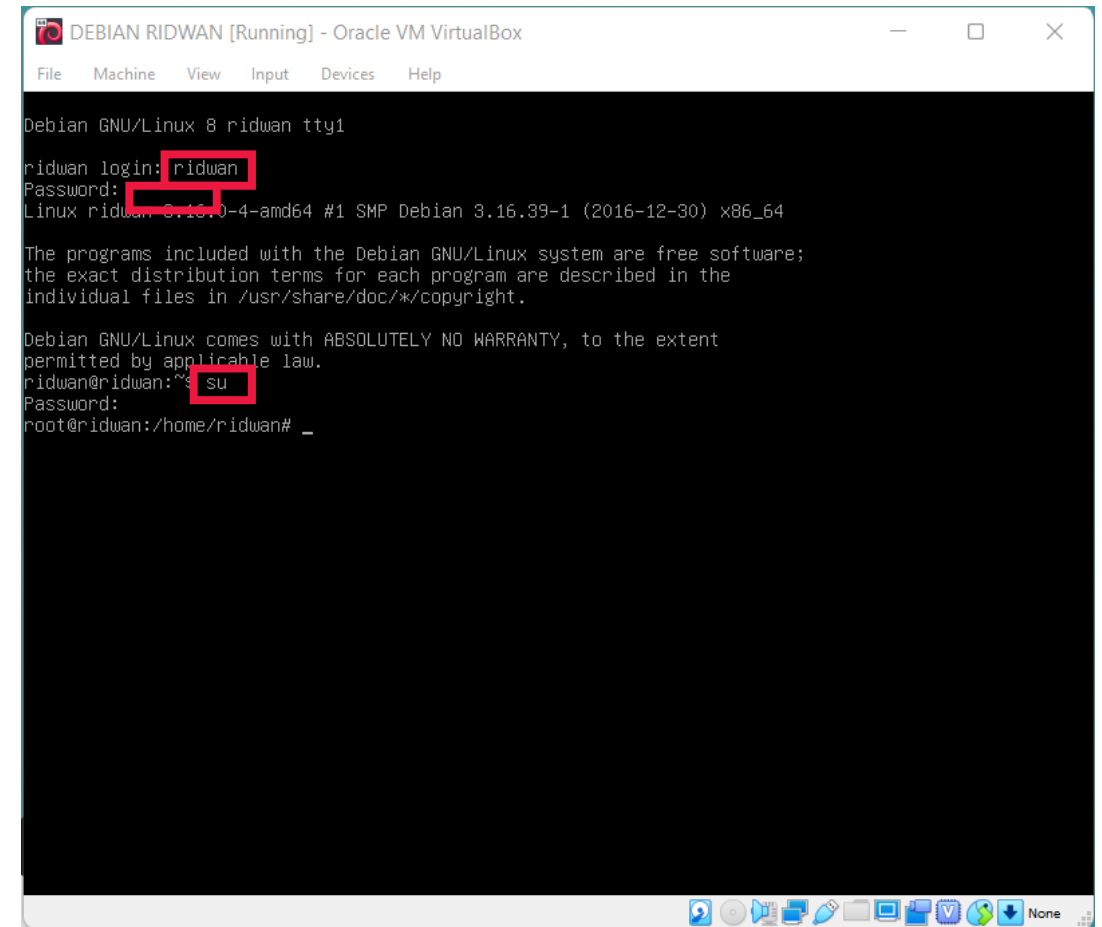
KONFIGURASI DEBIAN



DEBIAN RIDWAN [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

```
Debian GNU/Linux 8 ridwan tty1
ridwan login:
```



DEBIAN RIDWAN [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

```
Debian GNU/Linux 8 ridwan tty1
ridwan login: ridwan
Password:
Linux ridwan 3.16.0-4-amd64 #1 SMP Debian 3.16.39-1 (2016-12-30) 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.

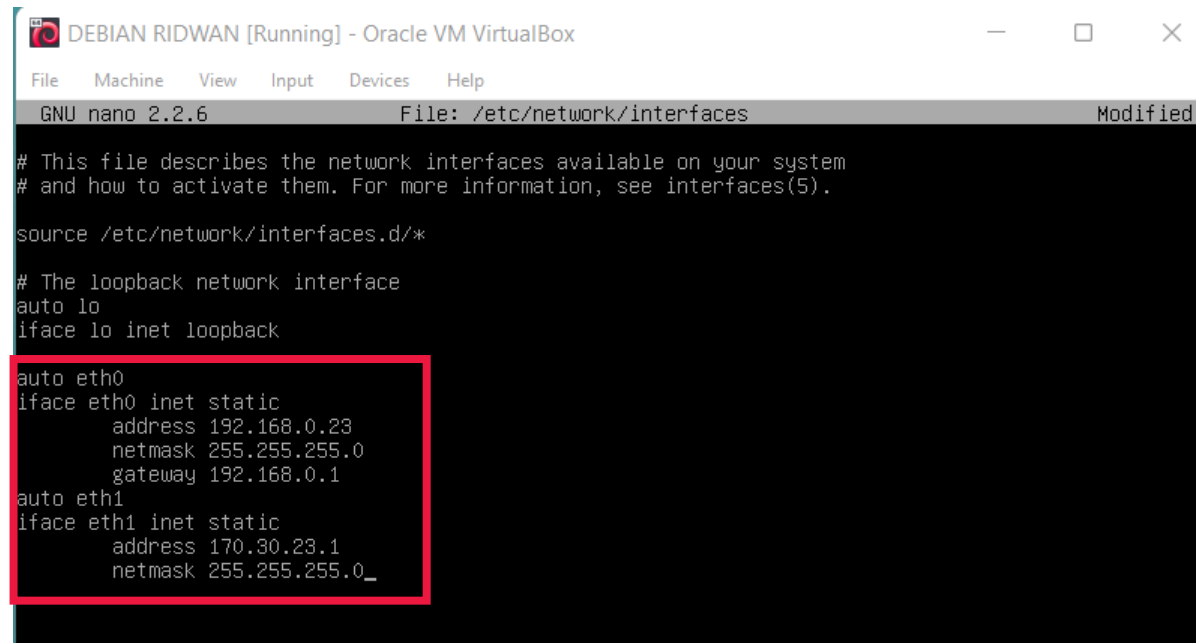
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
ridwan@ridwan:~$ su
Password:
root@ridwan:/home/ridwan# _
```

KONFIGURASI DEBIAN

Masuk ke
nano /etc/network/interfaces

```
root@ridwan:/home/ridwan# nano /etc/network/interfaces
```

Ubah isi file sesuai ip yang akan digunakan



```
DEBIAN RIDWAN [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
GNU nano 2.2.6 File: /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

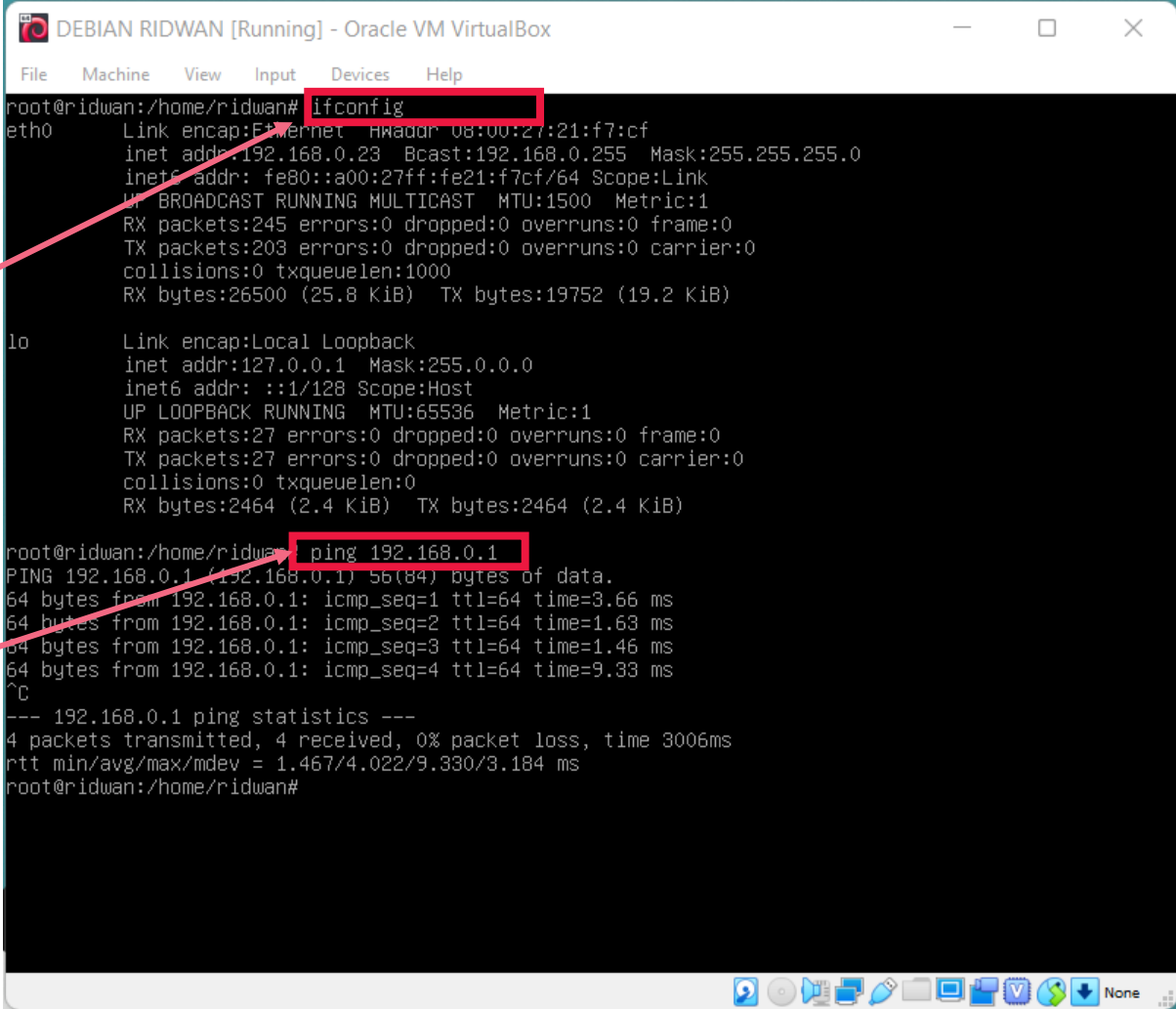
auto eth0
iface eth0 inet static
    address 192.168.0.23
    netmask 255.255.255.0
    gateway 192.168.0.1
auto eth1
iface eth1 inet static
    address 170.30.23.1
    netmask 255.255.255.0_
```

```
root@ridwan:/home/ridwan# /etc/init.d/networking restart_
```


KONFIGURASI DEBIAN

Liat apakah
ip sudah
berubah

Tes dengan
melakukan
ping



```
DEBIAN RIDWAN [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@ridwan:/home/ridwan# ifconfig
eth0      Link encap:Ethernet  HWaddr 08:00:27:21:f7:cf
          inet addr:192.168.0.23  Bcast:192.168.0.255  Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fe21:f7cf/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:245 errors:0 dropped:0 overruns:0 frame:0
          TX packets:203 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:26500 (25.8 KiB)  TX bytes:19752 (19.2 KiB)

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:65536  Metric:1
          RX packets:27 errors:0 dropped:0 overruns:0 frame:0
          TX packets:27 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:2464 (2.4 KiB)  TX bytes:2464 (2.4 KiB)

root@ridwan:/home/ridwan# ping 192.168.0.1
PING 192.168.0.1 (192.168.0.1) 56(84) bytes of data.
64 bytes from 192.168.0.1: icmp_seq=1 ttl=64 time=3.66 ms
64 bytes from 192.168.0.1: icmp_seq=2 ttl=64 time=1.63 ms
64 bytes from 192.168.0.1: icmp_seq=3 ttl=64 time=1.46 ms
64 bytes from 192.168.0.1: icmp_seq=4 ttl=64 time=9.33 ms
^C
--- 192.168.0.1 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3006ms
rtt min/avg/max/mdev = 1.467/4.022/9.330/3.184 ms
root@ridwan:/home/ridwan#
```

KONFIGURASI DEBIAN

```
root@ridwan:/home/ridwan# apt-get install bind9
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  bind9utils
Suggested packages:
  bind9-doc resolvconf ufw
The following NEW packages will be installed:
  bind9 bind9utils
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
Need to get 0 B/482 kB of archives.
After this operation, 1,471 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Media change: please insert the disc labeled
'Debian GNU/Linux 8.7.1 _Jessie_ - Official amd64 DVD Binary-1 20170116-11:01'
in the drive '/media/cdrom/' and press enter
Preconfiguring packages ...
Selecting previously unselected package bind9utils.
(Reading database ... 30021 files and directories currently installed.)
Preparing to unpack .../bind9utils_9.9.5.dfsg-9+deb8u8_amd64.deb ...
Unpacking bind9utils (1:9.9.5.dfsg-9+deb8u8) ...
Selecting previously unselected package bind9.
Preparing to unpack .../bind9_9.9.5.dfsg-9+deb8u8_amd64.deb ...
Unpacking bind9 (1:9.9.5.dfsg-9+deb8u8) ...
Processing triggers for man-db (2.7.0.2-5) ...
Processing triggers for systemd (215-17+deb8u6) ...
Setting up bind9utils (1:9.9.5.dfsg-9+deb8u8) ...
Setting up bind9 (1:9.9.5.dfsg-9+deb8u8) ...
Adding group `bind' (GID 115) ...
Done.
Adding system user `bind' (UID 108) ...
Adding new user `bind' (UID 108) with group `bind' ...
Not creating home directory `/var/cache/bind'.
wrote key file "/etc/bind/rndc.key"
#
Processing triggers for systemd (215-17+deb8u6) ...
root@ridwan:/home/ridwan# _
```

Install

```
/etc/apt/sources.list
root@komputerku:~# apt-get update
```

Sintaks di
atas
opsional
apabila
ingin
mendownload
ad melalui
repository

KONFIGURASI DEBIAN

Masuk ke folder bind dengan berpindah dan edit file named.conf.default-zones

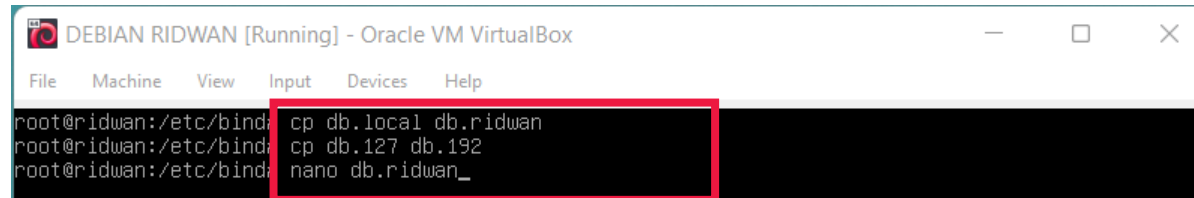
```
DEBIAN RIDWAN [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@ridwan:/home/ridwan# cd /etc/bind
root@ridwan:/etc/bind# nano named.conf.default-zones
```

```
GNU nano 2.2.6 File: named.conf.default-zones Modified
    file "/etc/bind/db.127";
};
zone "0.in-addr.arpa" {
    type master;
    file "/etc/bind/db.0";
};
zone "255.in-addr.arpa" {
    type master;
    file "/etc/bind/db.255";
};
zone "ridwan.com" {
    type master;
    file "/etc/bind/db.ridwan";
};
zone "0.168.192.in-addr.arpa" {
    type master;
    file "/etc/bind/db.192";
};_
```

Tambahkan
baris seperti
berikut

KONFIGURASI DEBIAN

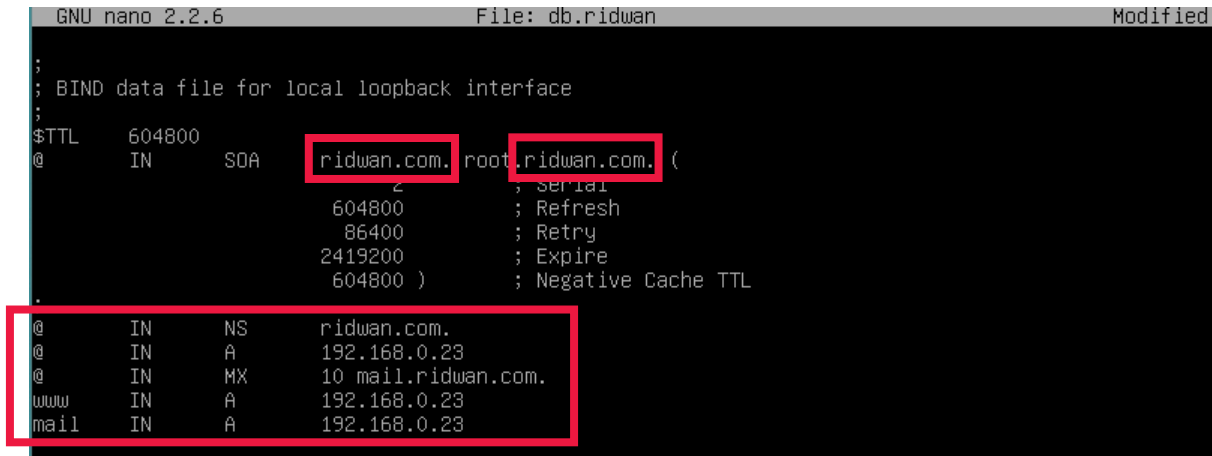
Lakukan copy untuk menggandakan file dan memberikan nama baru sekaligus

A terminal window titled "DEBIAN RIDWAN [Running] - Oracle VM VirtualBox" with a menu bar (File, Machine, View, Input, Devices, Help). The terminal shows three commands being executed:

```
root@ridwan:/etc/bind$ cp db.local db.ridwan
root@ridwan:/etc/bind$ cp db.127 db.192
root@ridwan:/etc/bind$ nano db.ridwan_
```

 The last command is highlighted with a red box.

Edit file db.namaklean sesuai beberapa tanda di bawah ini

A screenshot of the nano 2.2.6 text editor editing the file "db.ridwan". The editor shows DNS configuration for "ridwan.com". The SOA record and the A, MX, and NS records are highlighted with red boxes. The configuration is as follows:

```
GNU nano 2.2.6 File: db.ridwan Modified
;
; BIND data file for local loopback interface
;
$TTL 604800
@ IN SOA ridwan.com. root.ridwan.com. (
    604800 ; Refresh
    86400 ; Retry
    2419200 ; Expire
    604800 ) ; Negative Cache TTL
.
@ IN NS ridwan.com.
@ IN A 192.168.0.23
@ IN MX 10 mail.ridwan.com.
www IN A 192.168.0.23
mail IN A 192.168.0.23
```

KONFIGURASI DEBIAN

Konfigurasi forwarders dengan sintaks
nano named.conf.options

```
root@ridwan:/etc/bind# nano named.conf.options
```

Dan hilangkan # pada baris yang
ditandai

```
GNU nano 2.2.6      File: named.conf.options      Modified
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 {
        8.8.8.8;
    };

    //=====
    // 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 auto;

    auth-nxdomain no;      # conform to RFC1035
    listen-on-v6 { any; };
};
```

KONFIGURASI DEBIAN

Konfigurasi resolv : nano /etc/resolv.conf

```
root@ridwan:/etc/bind# nano /etc/resolv.conf
```

Ubah nameservernya

```
GNU nano 2.2.6          File: /etc/resolv.conf          Modified
nameserver 192.168.0.23_
```

Restart kemudian

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

Dan lakukan test menggunakan perintah nslookup

```
root@ridwan:/etc/bind# /etc/init.d/bind9 restart
[ ok ] Restarting bind9 (via systemctl): bind9.service.
root@ridwan:/etc/bind# nslookup ridwan.com
Server:      192.168.0.23
Address:     192.168.0.23#53

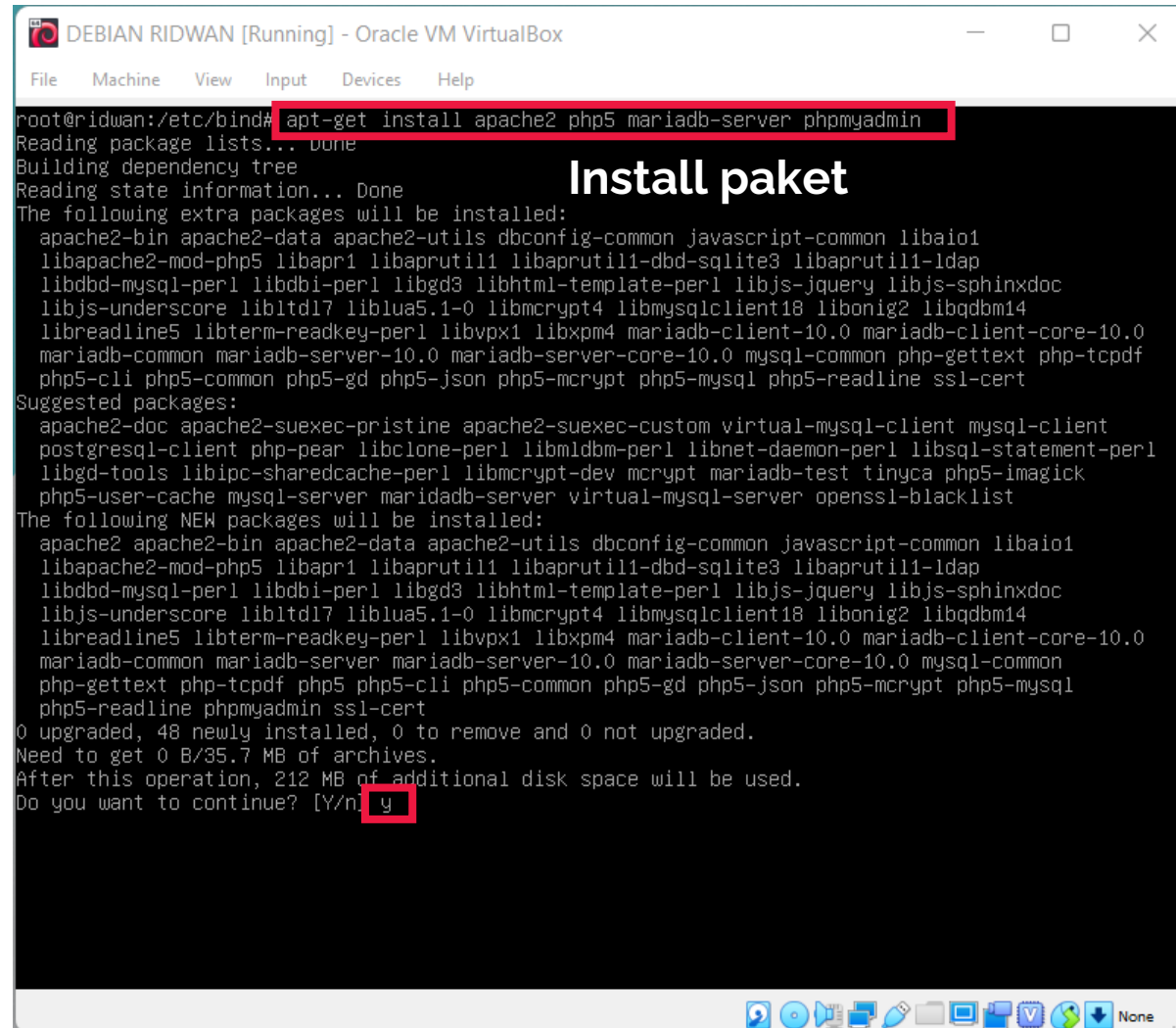
Name:   ridwan.com
Address: 192.168.0.23

root@ridwan:/etc/bind# nslookup mail.ridwan.com
Server:      192.168.0.23
Address:     192.168.0.23#53

Name:   mail.ridwan.com
Address: 192.168.0.23

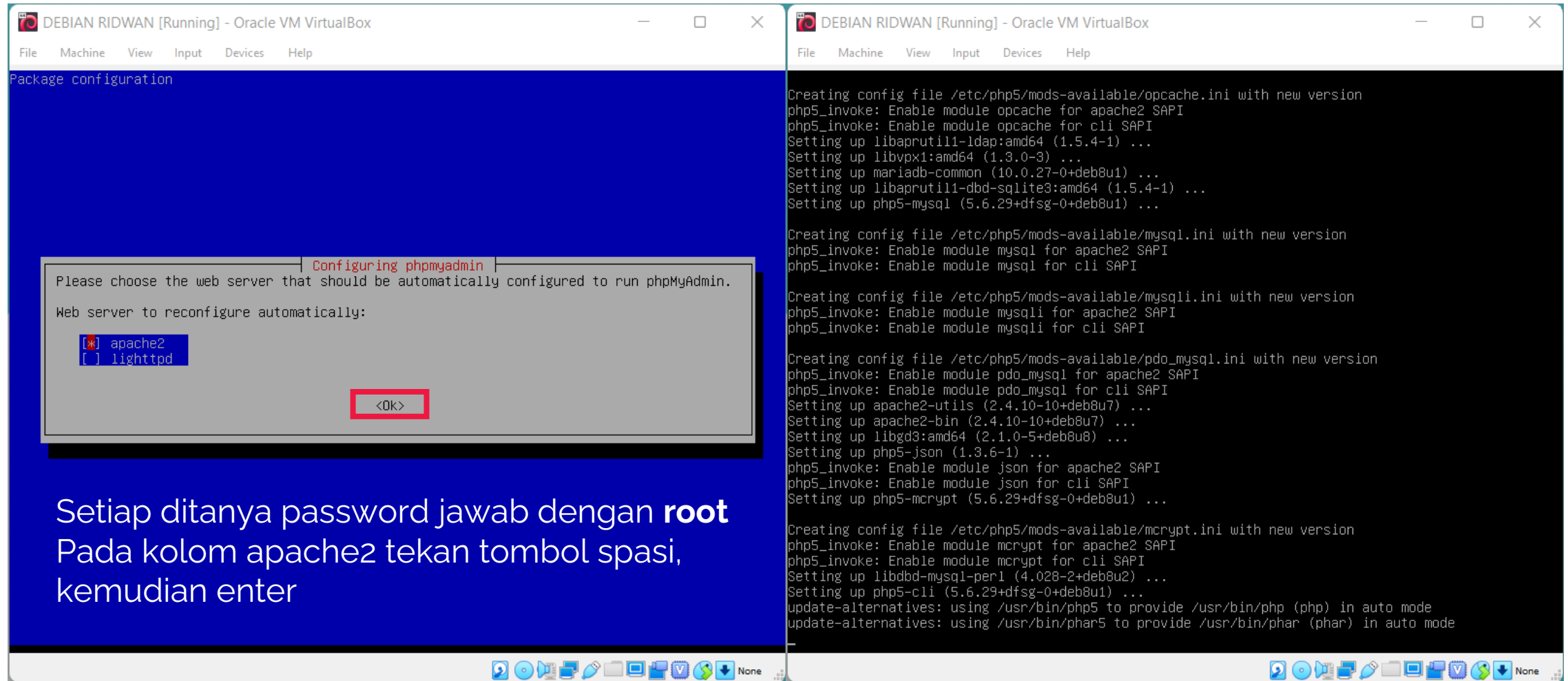
root@ridwan:/etc/bind# _
```

KONFIGURASI DEBIAN



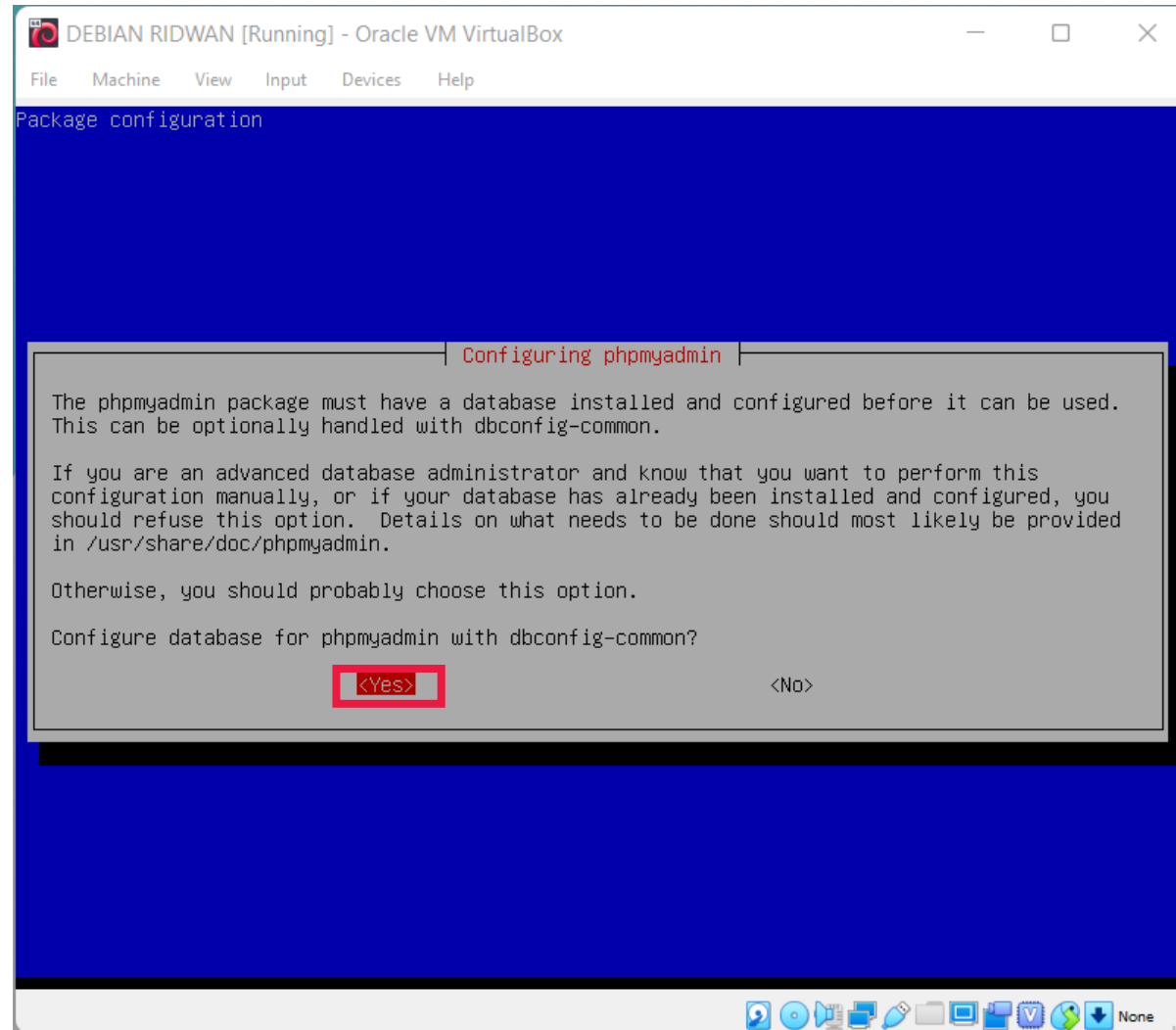
```
DEBIAN RIDWAN [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@ridwan:/etc/bind# apt-get install apache2 php5 mariadb-server phpmyadmin
Reading package lists... Done
Building dependency tree
Reading state information... Done
Install paket
The following extra packages will be installed:
  apache2-bin apache2-data apache2-utils dbconfig-common javascript-common libaio1
  libapache2-mod-php5 libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap
  libdbd-mysql-perl libdbi-perl libgd3 libhtml-template-perl libjs-jquery libjs-sphinxdoc
  libjs-underscore libltdl7 liblua5.1-0 libmcrypt4 libmysqlclient18 libonig2 libqdbm14
  libreadline5 libterm-readkey-perl libvpx1 libxpm4 mariadb-client-10.0 mariadb-client-core-10.0
  mariadb-common mariadb-server-10.0 mariadb-server-core-10.0 mysql-common php-gettext php-tcpdf
  php5-cli php5-common php5-gd php5-json php5-mcrypt php5-mysql php5-readline ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine apache2-suexec-custom virtual-mysql-client mysql-client
  postgresql-client php-pear libclone-perl libmldbm-perl libnet-daemon-perl libsql-statement-perl
  libgd-tools libipc-sharedcache-perl libmcrypt-dev mcrypt mariadb-test tinyca php5-imagick
  php5-user-cache mysql-server mariadb-server virtual-mysql-server openssl-blacklist
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils dbconfig-common javascript-common libaio1
  libapache2-mod-php5 libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap
  libdbd-mysql-perl libdbi-perl libgd3 libhtml-template-perl libjs-jquery libjs-sphinxdoc
  libjs-underscore libltdl7 liblua5.1-0 libmcrypt4 libmysqlclient18 libonig2 libqdbm14
  libreadline5 libterm-readkey-perl libvpx1 libxpm4 mariadb-client-10.0 mariadb-client-core-10.0
  mariadb-common mariadb-server mariadb-server-10.0 mariadb-server-core-10.0 mysql-common
  php-gettext php-tcpdf php5 php5-cli php5-common php5-gd php5-json php5-mcrypt php5-mysql
  php5-readline phpmyadmin ssl-cert
0 upgraded, 48 newly installed, 0 to remove and 0 not upgraded.
Need to get 0 B/35.7 MB of archives.
After this operation, 212 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

KONFIGURASI WEB SERVER DEBIAN

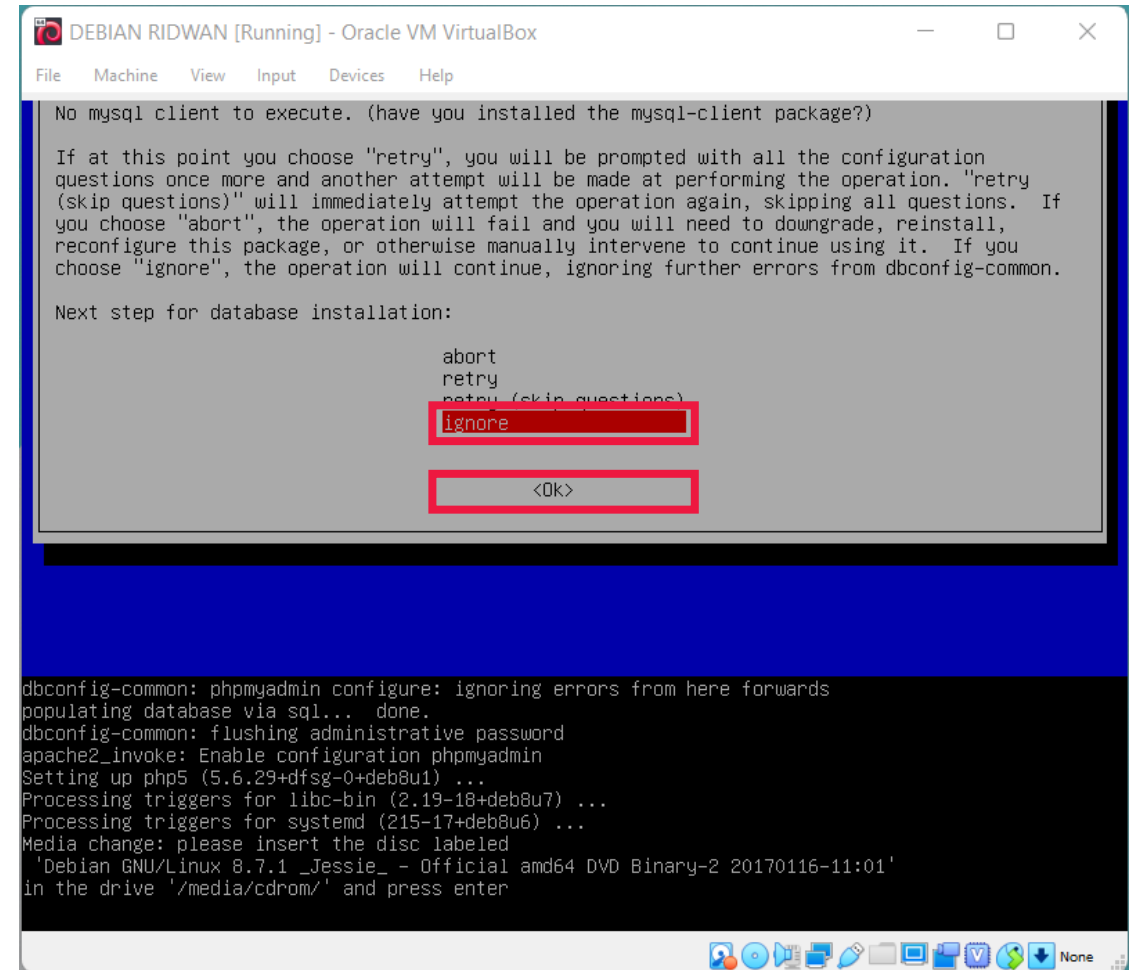
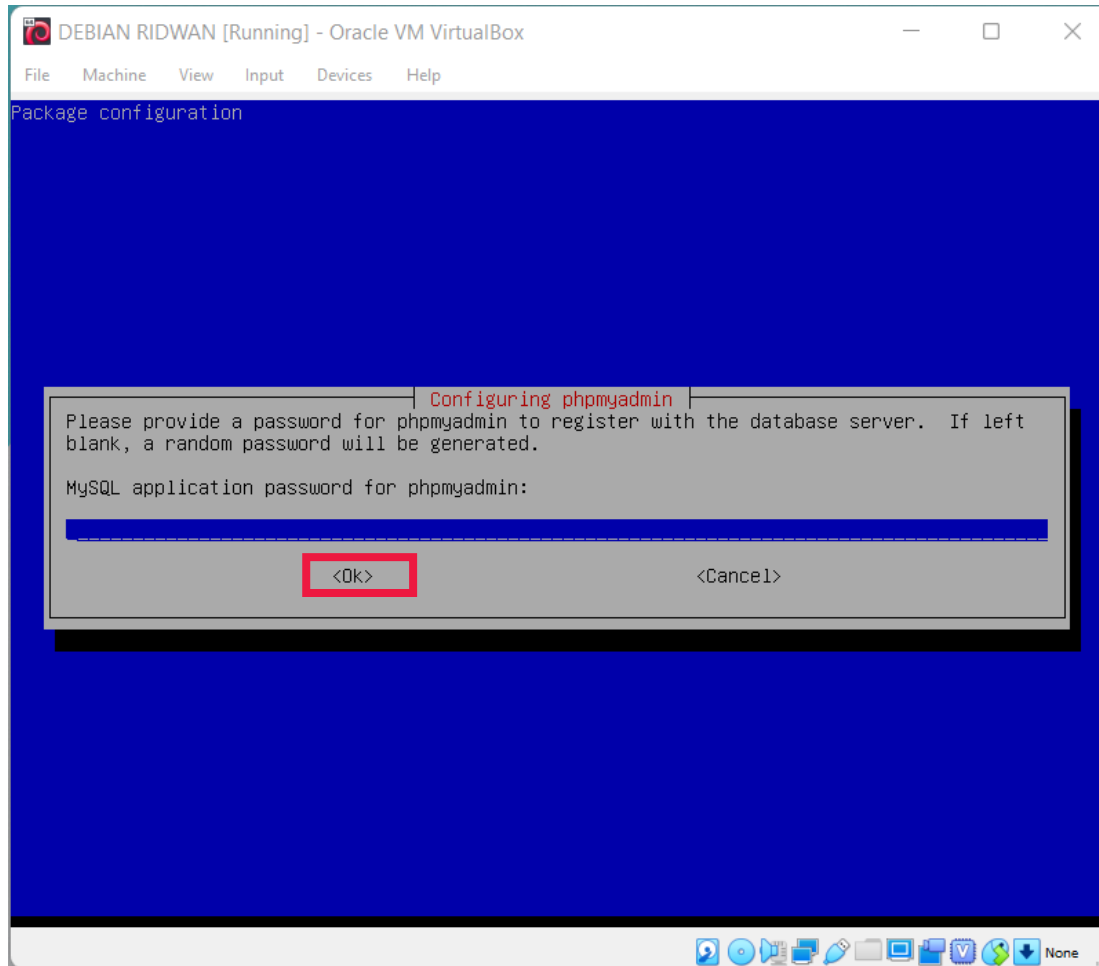


Setiap ditanya password jawab dengan **root**
Pada kolom apache2 tekan tombol spasi,
kemudian enter

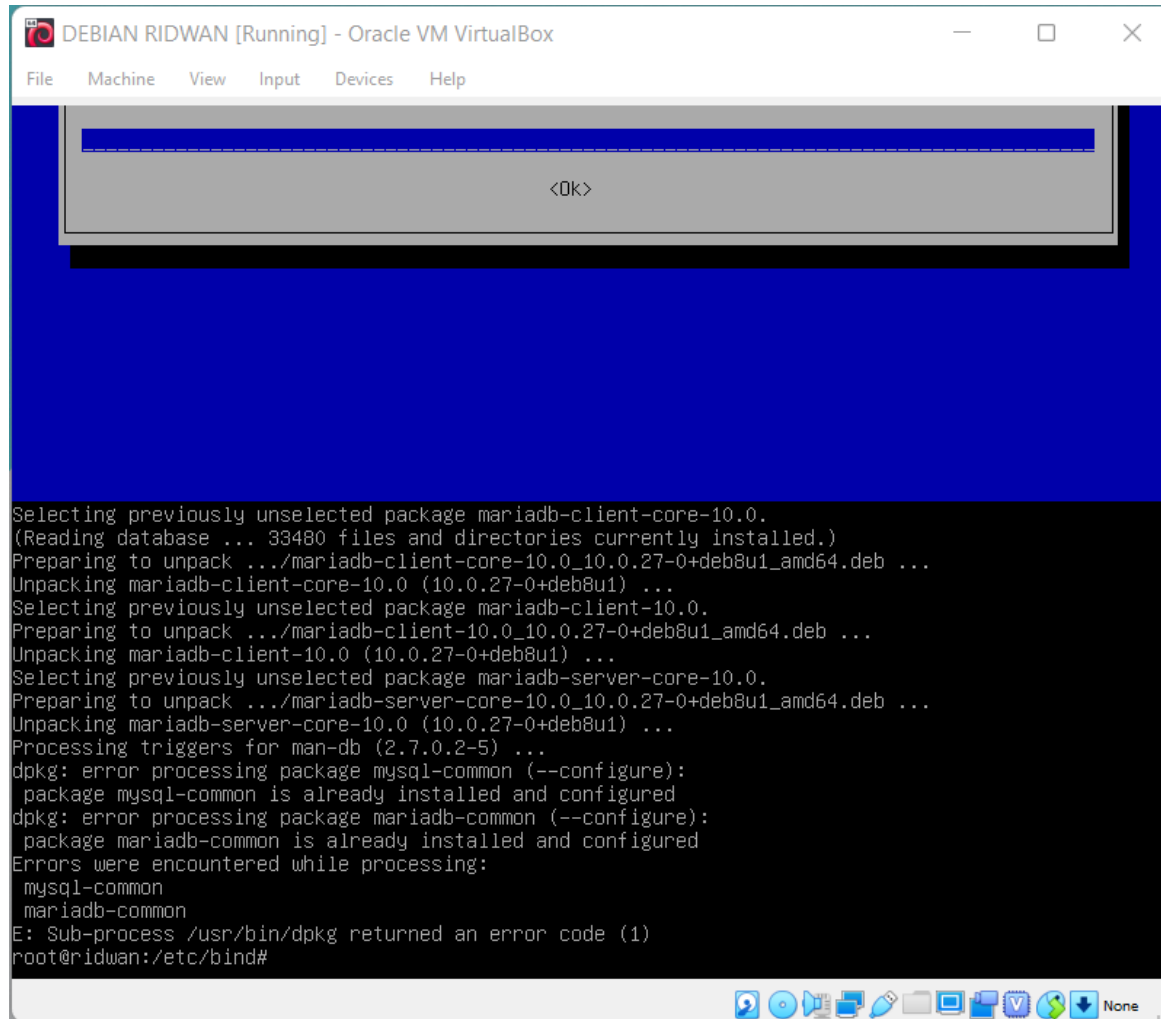
KONFIGURASI WEB SERVER DEBIAN



KONFIGURASI DEBIAN



KONFIGURASI DEBIAN



```
DEBIAN RIDWAN [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

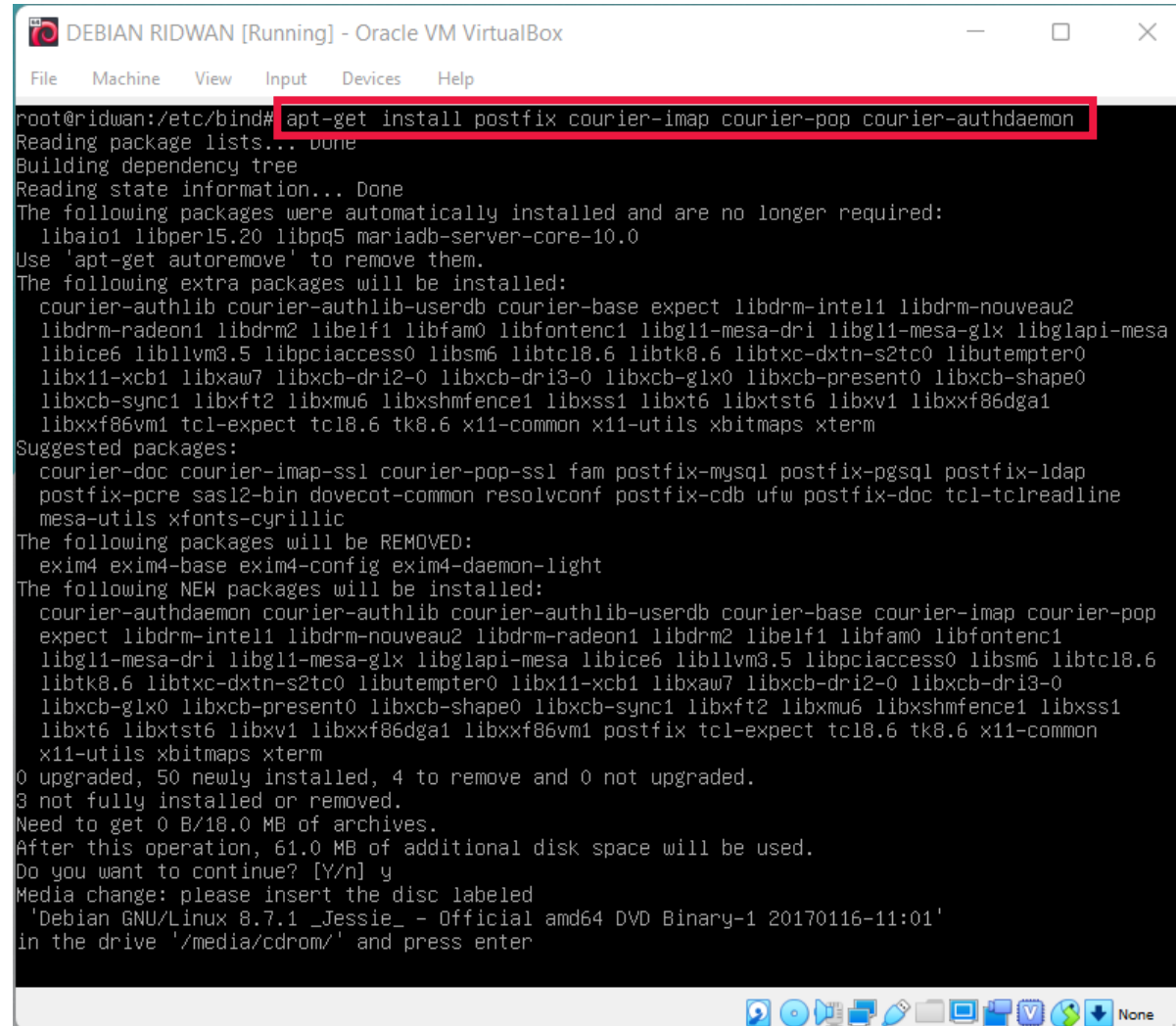
<Ok>

Selecting previously unselected package mariadb-client-core-10.0.
(Reading database ... 33480 files and directories currently installed.)
Preparing to unpack .../mariadb-client-core-10.0_10.0.27-0+deb8u1_amd64.deb ...
Unpacking mariadb-client-core-10.0 (10.0.27-0+deb8u1) ...
Selecting previously unselected package mariadb-client-10.0.
Preparing to unpack .../mariadb-client-10.0_10.0.27-0+deb8u1_amd64.deb ...
Unpacking mariadb-client-10.0 (10.0.27-0+deb8u1) ...
Selecting previously unselected package mariadb-server-core-10.0.
Preparing to unpack .../mariadb-server-core-10.0_10.0.27-0+deb8u1_amd64.deb ...
Unpacking mariadb-server-core-10.0 (10.0.27-0+deb8u1) ...
Processing triggers for man-db (2.7.0.2-5) ...
dpkg: error processing package mysql-common (--configure):
 package mysql-common is already installed and configured
dpkg: error processing package mariadb-common (--configure):
 package mariadb-common is already installed and configured
Errors were encountered while processing:
 mysql-common
 mariadb-common
E: Sub-process /usr/bin/dpkg returned an error code (1)
root@ridwan:/etc/bind#
```

```
root@ridwan:/etc/bind# apt-get install postfix courier-imap courier-pop courier-authdaemon_
```

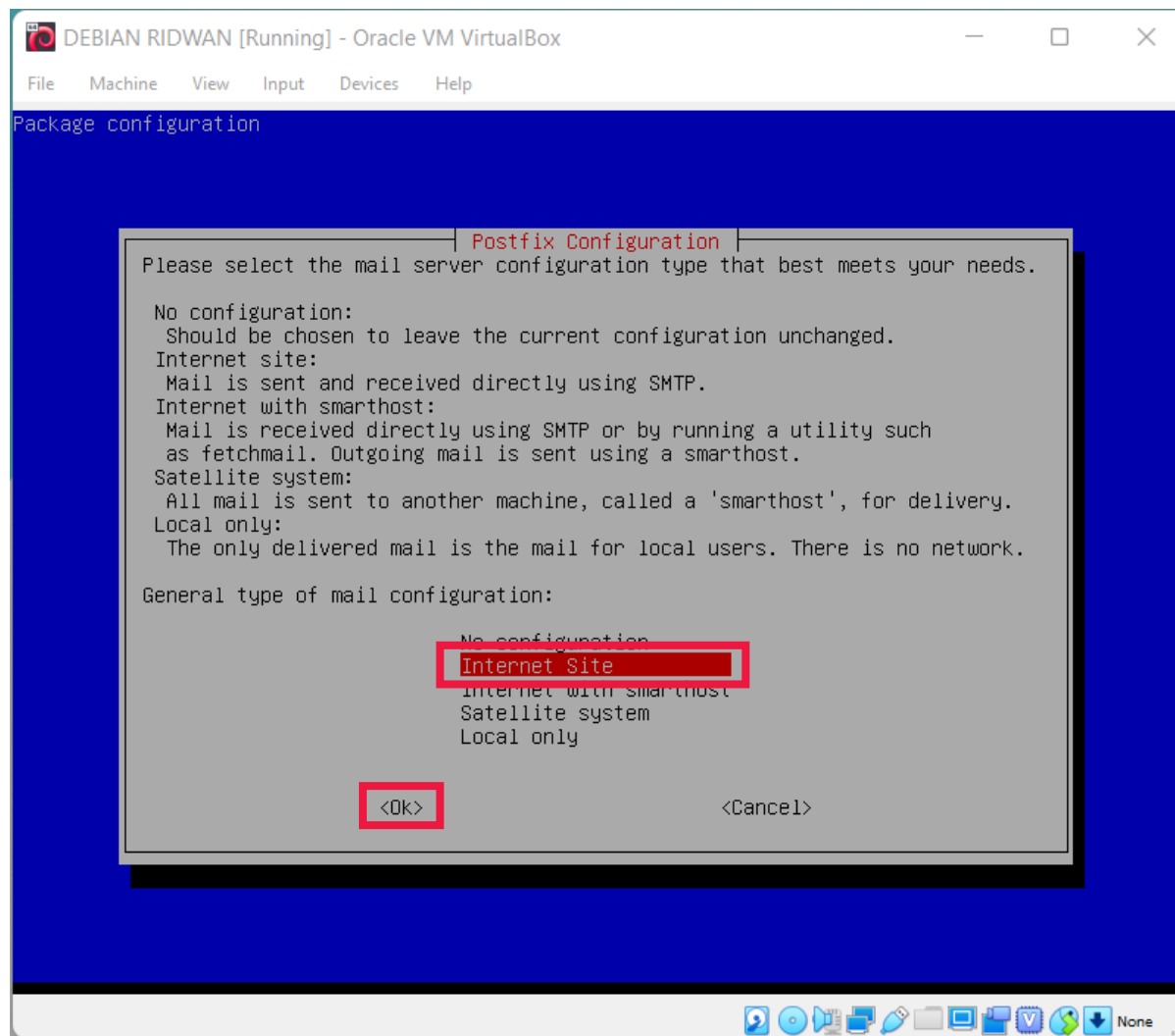
```
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
 libaio1 libperl5.20 libpq5 mariadb-server-core-10.0
Use 'apt-get autoremove' to remove them.
The following extra packages will be installed:
 courier-authlib courier-authlib-userdb courier-base expect libdrm-intel1 libdrm-nouveau2
 libdrm-radeon1 libdrm2 libelf1 libfam0 libfontenc1 libgl1-mesa-dri libgl1-mesa-glx libglapi-mesa
 libice6 liblvm3.5 libpciaccess0 libsm6 libtcl8.6 libtk8.6 libtxc-dxtn-s2tc0 libutempter0
 libx11-xcb1 libxaw7 libxcb-dri2-0 libxcb-dri3-0 libxcb-glx0 libxcb-present0 libxcb-shape0
 libxcb-sync1 libxft2 libxmu6 libxshmfence1 libxss1 libxt6 libxtst6 libxv1 libxxf86dga1
 libxxf86vm1 tcl-expect tcl8.6 tk8.6 x11-common x11-utils xbitmaps xterm
Suggested packages:
 courier-doc courier-imap-ssl courier-pop-ssl fam postfix-mysql postfix-pgsql postfix-ldap
 postfix-pcre sasl2-bin dovecot-common resolvconf postfix-cdb ufw postfix-doc tcl-tclreadline
 mesa-utils xfonts-cyrillic
The following packages will be REMOVED:
 exim4 exim4-base exim4-config exim4-daemon-light
The following NEW packages will be installed:
 courier-authdaemon courier-authlib courier-authlib-userdb courier-base courier-imap courier-pop
 expect libdrm-intel1 libdrm-nouveau2 libdrm-radeon1 libdrm2 libelf1 libfam0 libfontenc1
 libgl1-mesa-dri libgl1-mesa-glx libglapi-mesa libice6 liblvm3.5 libpciaccess0 libsm6 libtcl8.6
 libtk8.6 libtxc-dxtn-s2tc0 libutempter0 libx11-xcb1 libxaw7 libxcb-dri2-0 libxcb-dri3-0
 libxcb-glx0 libxcb-present0 libxcb-shape0 libxcb-sync1 libxft2 libxmu6 libxshmfence1 libxss1
 libxt6 libxtst6 libxv1 libxxf86dga1 libxxf86vm1 postfix tcl-expect tcl8.6 tk8.6 x11-common
 x11-utils xbitmaps xterm
0 upgraded, 50 newly installed, 4 to remove and 0 not upgraded.
3 not fully installed or removed.
Need to get 0 B/18.0 MB of archives.
After this operation, 61.0 MB of additional disk space will be used.
Do you want to continue? [Y/n] y_
```

KONFIGURASI DEBIAN

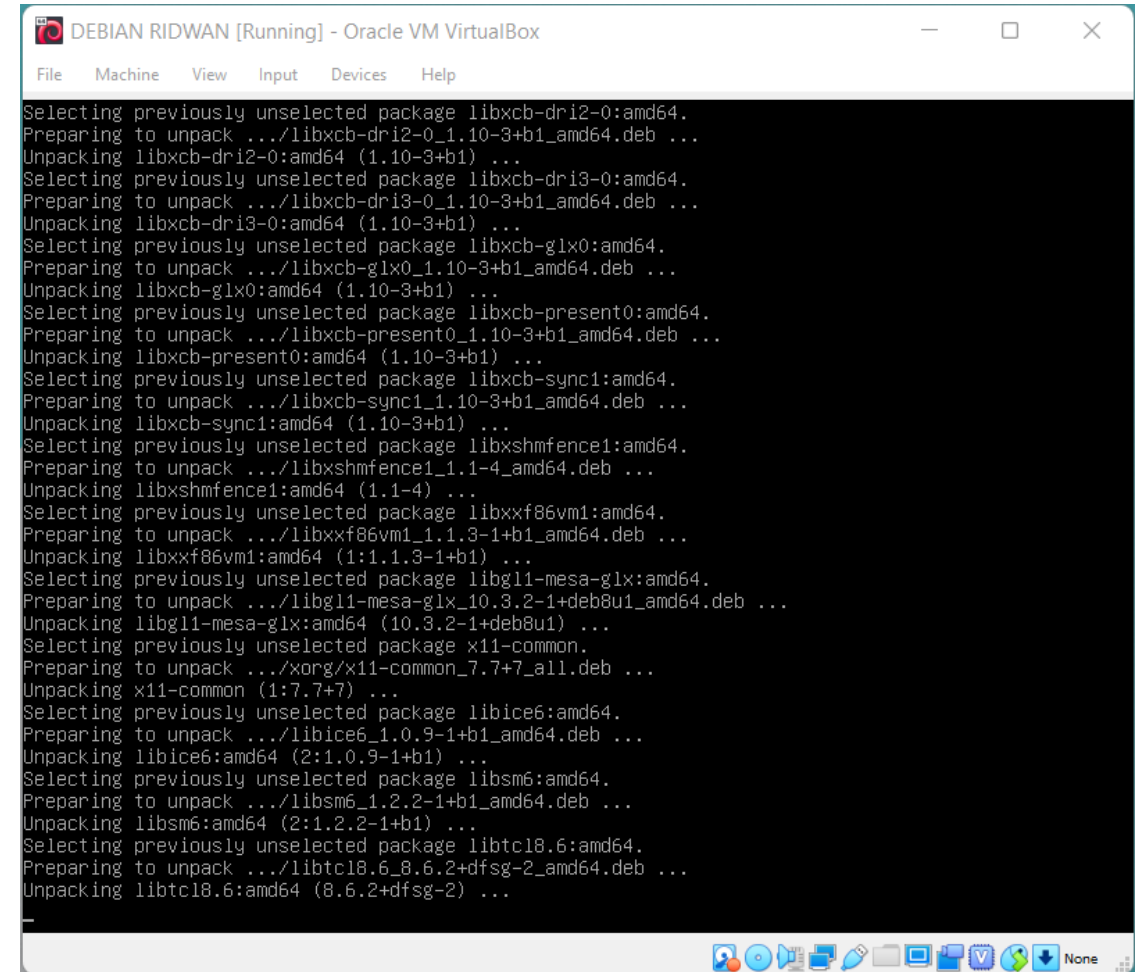
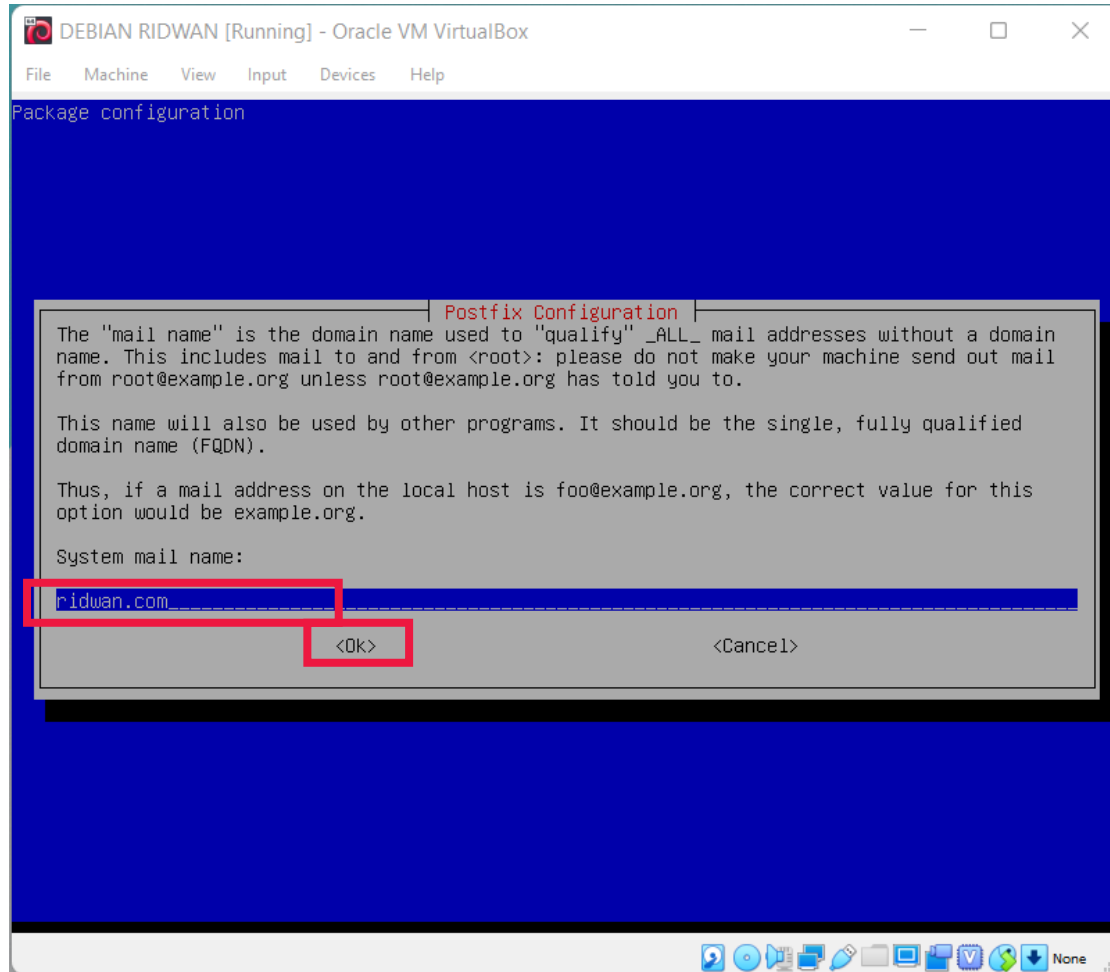


```
DEBIAN RIDWAN [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@ridwan:/etc/bind# apt-get install postfix courier-imap courier-pop courier-authdaemon
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libaio1 libperl5.20 libpq5 mariadb-server-core-10.0
Use 'apt-get autoremove' to remove them.
The following extra packages will be installed:
  courier-authlib courier-authlib-userdb courier-base expect libdrm-intel1 libdrm-nouveau2
  libdrm-radeon1 libdrm2 libelf1 libfam0 libfontenc1 libgl1-mesa-dri libgl1-mesa-glx libglapi-mesa
  libice6 liblvm3.5 libpciaccess0 libsm6 libtcl8.6 libtk8.6 libtxc-dxtn-s2tc0 libutempter0
  libx11-xcb1 libxaw7 libxcb-dri2-0 libxcb-dri3-0 libxcb-glx0 libxcb-present0 libxcb-shape0
  libxcb-sync1 libxft2 libxmu6 libxshmfence1 libxss1 libxt6 libxtst6 libxv1 libxxf86dga1
  libxxf86vm1 tcl-expect tcl8.6 tk8.6 x11-common x11-utils xbitmaps xterm
Suggested packages:
  courier-doc courier-imap-ssl courier-pop-ssl fam postfix-mysql postfix-pgsql postfix-ldap
  postfix-pcre sasl2-bin dovecot-common resolvconf postfix-cdb ufw postfix-doc tcl-tclreadline
  mesa-utils xfonts-cyrillic
The following packages will be REMOVED:
  exim4 exim4-base exim4-config exim4-daemon-light
The following NEW packages will be installed:
  courier-authdaemon courier-authlib courier-authlib-userdb courier-base courier-imap courier-pop
  expect libdrm-intel1 libdrm-nouveau2 libdrm-radeon1 libdrm2 libelf1 libfam0 libfontenc1
  libgl1-mesa-dri libgl1-mesa-glx libglapi-mesa libice6 liblvm3.5 libpciaccess0 libsm6 libtcl8.6
  libtk8.6 libtxc-dxtn-s2tc0 libutempter0 libx11-xcb1 libxaw7 libxcb-dri2-0 libxcb-dri3-0
  libxcb-glx0 libxcb-present0 libxcb-shape0 libxcb-sync1 libxft2 libxmu6 libxshmfence1 libxss1
  libxt6 libxtst6 libxv1 libxxf86dga1 libxxf86vm1 postfix tcl-expect tcl8.6 tk8.6 x11-common
  x11-utils xbitmaps xterm
0 upgraded, 50 newly installed, 4 to remove and 0 not upgraded.
3 not fully installed or removed.
Need to get 0 B/18.0 MB of archives.
After this operation, 61.0 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Media change: please insert the disc labeled
'Debian GNU/Linux 8.7.1 _Jessie_ - Official amd64 DVD Binary-1 20170116-11:01'
in the drive '/media/cdrom/' and press enter
```

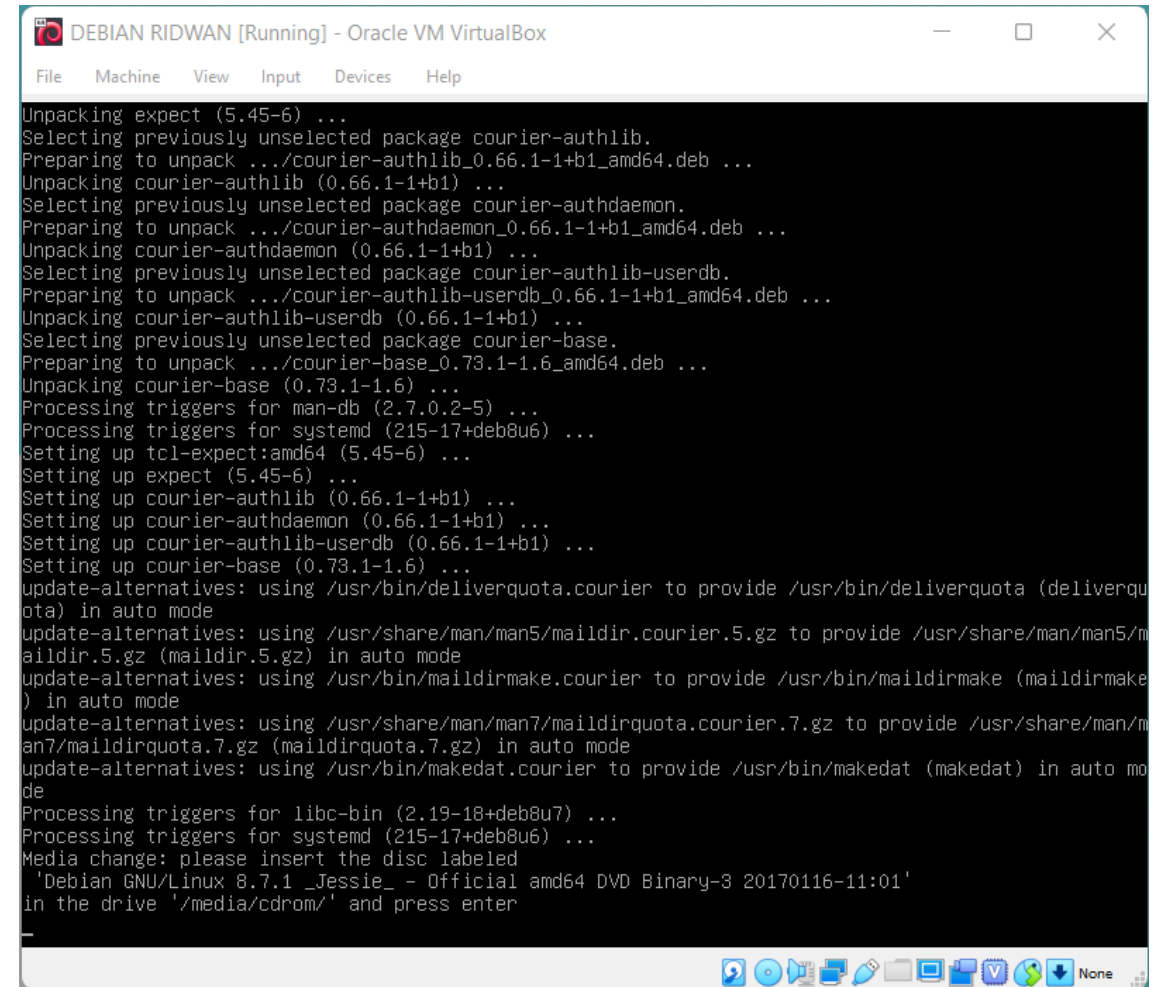
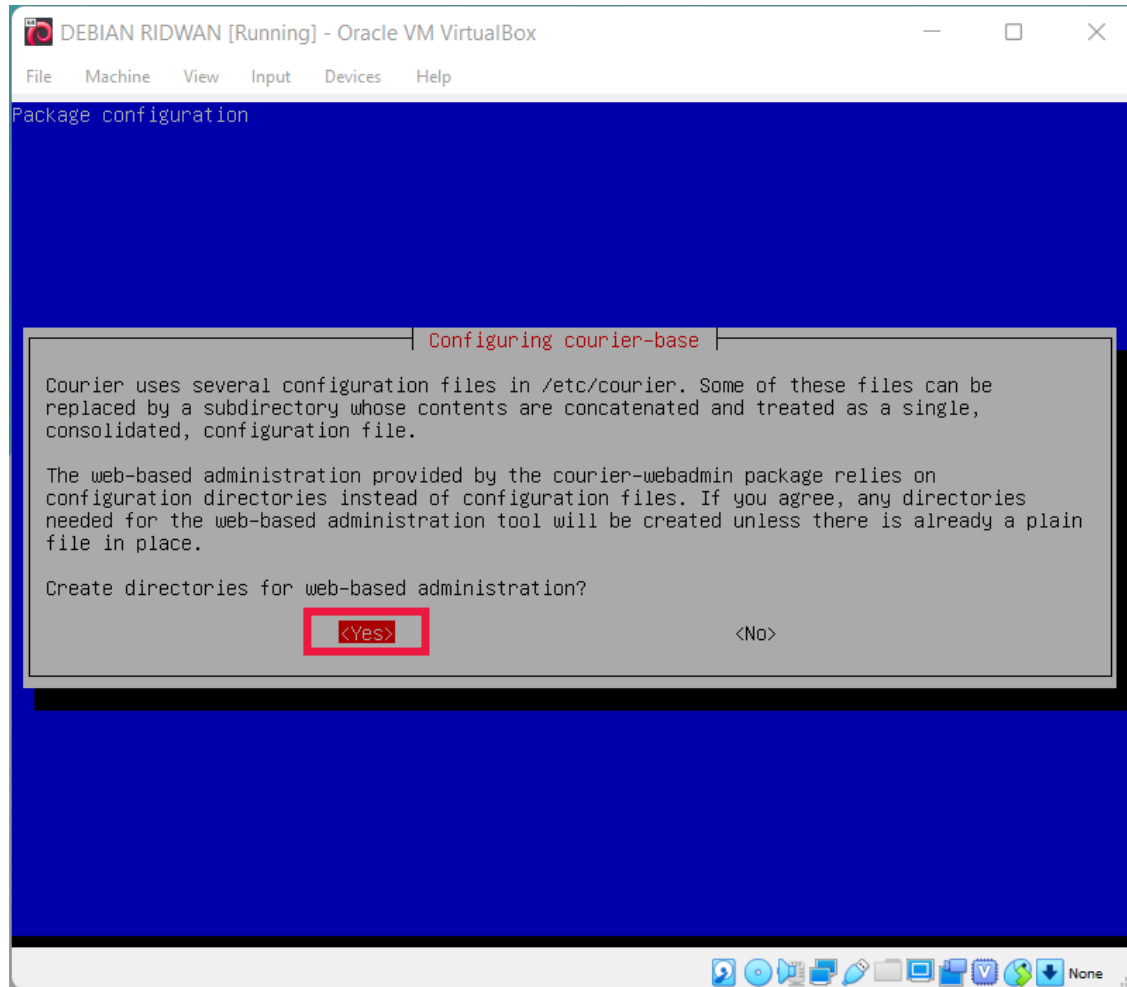
KONFIGURASI DEBIAN



KONFIGURASI DEBIAN



KONFIGURASI DEBIAN



KONFIGURASI DEBIAN

Konfigurasi nano
/etc/postfix/main.cf

Restart
service postfix
restart

```
root@ridwan:/etc/bind# nano /etc/postfix/main.cf
```

```
GNU nano 2.2.6      File: /etc/postfix/main.cf      Modified

readme_directory = no

# TLS parameters
smtpd_tls_cert_file=/etc/ssl/certs/ssl-cert-snakeoil.pem
smtpd_tls_key_file=/etc/ssl/private/ssl-cert-snakeoil.key
smtpd_use_tls=yes
smtpd_tls_session_cache_database = btree:${data_directory}/smtpd_scache
smtp_tls_session_cache_database = btree:${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 = ridwan.ridwan.com
alias_maps = hash:/etc/aliases
alias_database = hash:/etc/aliases
myorigin = /etc/mailname
mydestination = ridwan.com, ridwan.ridwan.com, localhost.ridwan.com, localhost
relayhost =
mynetworks = 127.0.0.0/8 [::ffff:127.0.0.0]/104 [::1]/128
#mailbox_command = procmail -a "$EXTENSION"
mailbox_size_limit = 0
recipient_delimiter = +
inet_interfaces = all
home_mailbox = Maildir/
```

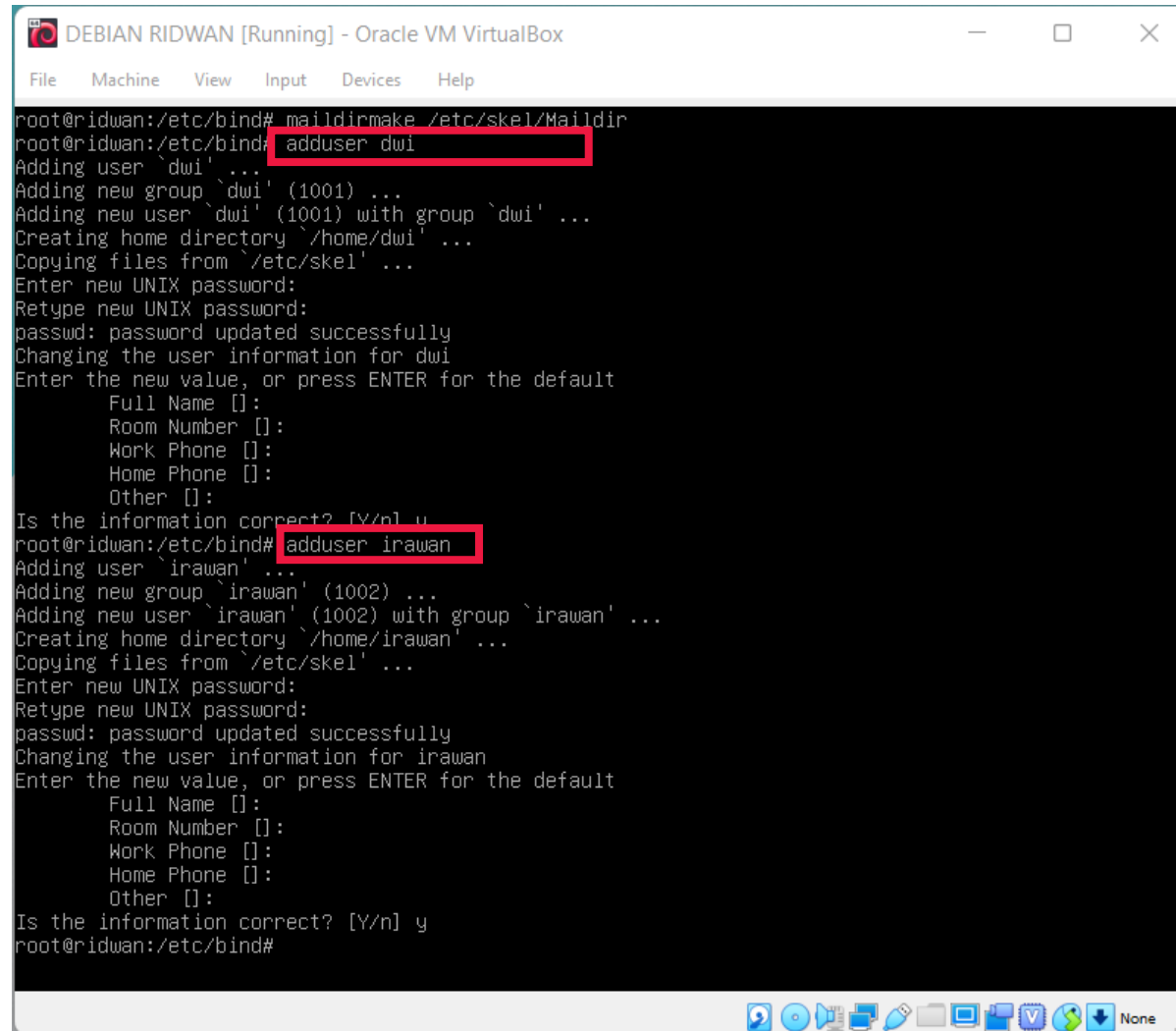
```
root@ridwan:/etc/bind# service postfix restart
```

```
root@ridwan:/etc/bind# maildirmake /etc/skel/Maildir
root@ridwan:/etc/bind#
```

Beri tanda # pada
mailbox_command
Tambahkan baris
home_mailbox =
Maildir

KONFIGURASI DEBIAN

Tambahkan dua user baru



```
DEBIAN RIDWAN [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

root@ridwan:/etc/bind# mairdirmake /etc/skel/Maildir
root@ridwan:/etc/bind# adduser dwi
Adding user `dwi' ...
Adding new group `dwi' (1001) ...
Adding new user `dwi' (1001) with group `dwi' ...
Creating home directory `/home/dwi' ...
Copying files from `/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for dwi
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@ridwan:/etc/bind# adduser irawan
Adding user `irawan' ...
Adding new group `irawan' (1002) ...
Adding new user `irawan' (1002) with group `irawan' ...
Creating home directory `/home/irawan' ...
Copying files from `/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for irawan
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@ridwan:/etc/bind#
```

KONFIGURASI DEBIAN

Test kirim email via telnet

```
DEBIAN RIDWAN [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@ridwan:/etc/bind# telnet mail.ridwan.com 25
Trying 192.168.0.23...
Connected to mail.ridwan.com.
Escape character is '^]'.
220 ridwan.ridwan.com ESMTP Postfix (Debian/GNU)
mail from:dwi@ridwan.com
250 2.1.0 OK
rcpt to:irawan@ridwan.com
250 2.1.5 OK
data
354 End data with <CR><LF>.<CR><LF>
Hai kalian wahai kaum rebahan .....
.
250 2.0.0 Ok: queued as C498B202C5
quit
221 2.0.0 Bye
Connection closed by foreign host.
root@ridwan:/etc/bind#
```

Contoh mengirim dari dwi to irawan

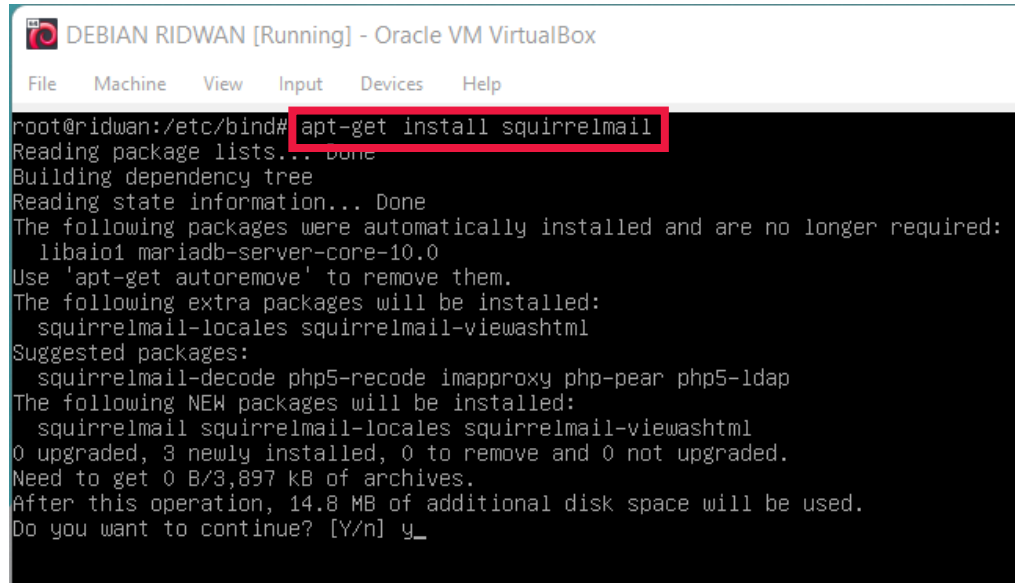
Tes membaca email via

```
DEBIAN RIDWAN [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@ridwan:/etc/bind# telnet mail.ridwan.com 110
Trying 192.168.0.23...
Connected to mail.ridwan.com.
Escape character is '^]'.
+OK Hello there.
user irawan
+OK Password required.
pass irawan
+OK Logged in.
stat
+OK 1 434
retr 1
+OK 434 octets follow.
Return-Path: <dwi@ridwan.com>
X-Original-To: irawan@ridwan.com
Delivered-To: irawan@ridwan.com
Received: from unknown (unknown [192.168.0.23])
        by ridwan.ridwan.com (Postfix) with SMTP id C498B202C5
        for <irawan@ridwan.com>; Mon, 10 Jan 2022 17:41:18 +0700 (WIB)
Message-Id: <20220110104147.C498B202C5@ridwan.ridwan.com>
Date: Mon, 10 Jan 2022 17:41:18 +0700 (WIB)
From: dwi@ridwan.com

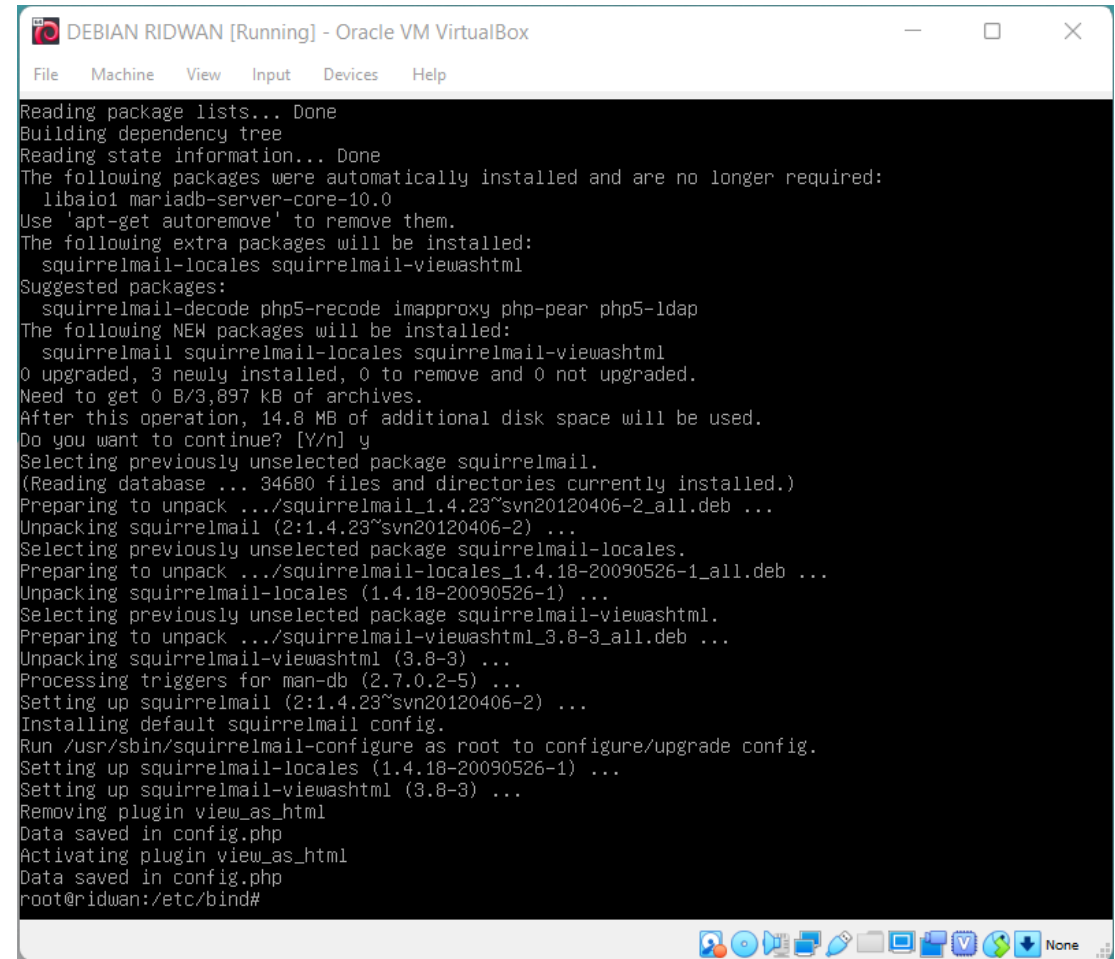
Hai kalian wahai kaum rebahan .....
.
quit
+OK Bye-bye.
Connection closed by foreign host.
root@ridwan:/etc/bind#
```

KONFIGURASI DEBIAN

Install : apt-get install squirrelmail



```
DEBIAN RIDWAN [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@ridwan:/etc/bind# apt-get install squirrelmail
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libaio1 mariadb-server-core-10.0
Use 'apt-get autoremove' to remove them.
The following extra packages will be installed:
  squirrelmail-locale squirrelmail-viewashtml
Suggested packages:
  squirrelmail-decode php5-recode imapproxy php-pear php5-ldap
The following NEW packages will be installed:
  squirrelmail squirrelmail-locale squirrelmail-viewashtml
0 upgraded, 3 newly installed, 0 to remove and 0 not upgraded.
Need to get 0 B/3,897 kB of archives.
After this operation, 14.8 MB of additional disk space will be used.
Do you want to continue? [Y/n] y_
```



```
DEBIAN RIDWAN [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libaio1 mariadb-server-core-10.0
Use 'apt-get autoremove' to remove them.
The following extra packages will be installed:
  squirrelmail-locale squirrelmail-viewashtml
Suggested packages:
  squirrelmail-decode php5-recode imapproxy php-pear php5-ldap
The following NEW packages will be installed:
  squirrelmail squirrelmail-locale squirrelmail-viewashtml
0 upgraded, 3 newly installed, 0 to remove and 0 not upgraded.
Need to get 0 B/3,897 kB of archives.
After this operation, 14.8 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Selecting previously unselected package squirrelmail.
(Reading database ... 34680 files and directories currently installed.)
Preparing to unpack .../squirrelmail_1.4.23~svn20120406-2_all.deb ...
Unpacking squirrelmail (2:1.4.23~svn20120406-2) ...
Selecting previously unselected package squirrelmail-locale.
Preparing to unpack .../squirrelmail-locale_1.4.18-20090526-1_all.deb ...
Unpacking squirrelmail-locale (1.4.18-20090526-1) ...
Selecting previously unselected package squirrelmail-viewashtml.
Preparing to unpack .../squirrelmail-viewashtml_3.8-3_all.deb ...
Unpacking squirrelmail-viewashtml (3.8-3) ...
Processing triggers for man-db (2.7.0.2-5) ...
Setting up squirrelmail (2:1.4.23~svn20120406-2) ...
Installing default squirrelmail config.
Run /usr/sbin/squirrelmail-config as root to configure/upgrade config.
Setting up squirrelmail-locale (1.4.18-20090526-1) ...
Setting up squirrelmail-viewashtml (3.8-3) ...
Removing plugin view_as_html
Data saved in config.php
Activating plugin view_as_html
Data saved in config.php
root@ridwan:/etc/bind#
```

KONFIGURASI DEBIAN

```
DEBIAN RIDWAN [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@ridwan:/etc/bind# squirrelmail-configure

SquirrelMail Configuration : Read: config.php (1.4.0)
-----
Main Menu --
1. Organization Preferences
2. Server Settings
3. Folder Defaults
4. General Options
5. Themes
6. Address Books
7. Message of the Day (MOTD)
8. Plugins
9. Database
10. Languages

D. Set pre-defined settings for specific IMAP servers

C Turn color on
S Save data
Q Quit

Command > 2_
```

Konfigurasi : squirrelmail-configure

Tekan 2

Tekan 1

Masukkan nama domain kali

Tekan S

Tekan Q

```
SquirrelMail Configuration : Read: config.php (1.4.0)
-----
Server Settings

General
-----
1. Domain : trim(implode('', file('/etc/'.(file_exists('/etc/mailname')?'mail':'host').'name')))
2. Invert Time : false
3. Sendmail or SMTP : SMTP

A. Update IMAP Settings : localhost:143 (other)
B. Update SMTP Settings : localhost:25

R Return to Main Menu
C Turn color on
S Save data
Q Quit

Command > 1
```

KONFIGURASI DEBIAN

```
DEBIAN RIDWAN [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
SquirrelMail Configuration : Read: config.php (1.4.0)
-----
Server Settings
General
-----
1. Domain           : ridwan.com
2. Invert Time      : false
3. Sendmail or SMTP : SMTP

A. Update IMAP Settings : localhost:143 (other)
B. Update SMTP Settings : localhost:25

R Return to Main Menu
C Turn color on
S Save data
Q Quit

Command >> s
```

```
DEBIAN RIDWAN [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
SquirrelMail Configuration : Read: config.php (1.4.0)
-----
Server Settings
General
-----
1. Domain           : ridwan.com
2. Invert Time      : false
3. Sendmail or SMTP : SMTP

A. Update IMAP Settings : localhost:143 (other)
B. Update SMTP Settings : localhost:25

R Return to Main Menu
C Turn color on
S Save data
Q Quit

Command >> q
```

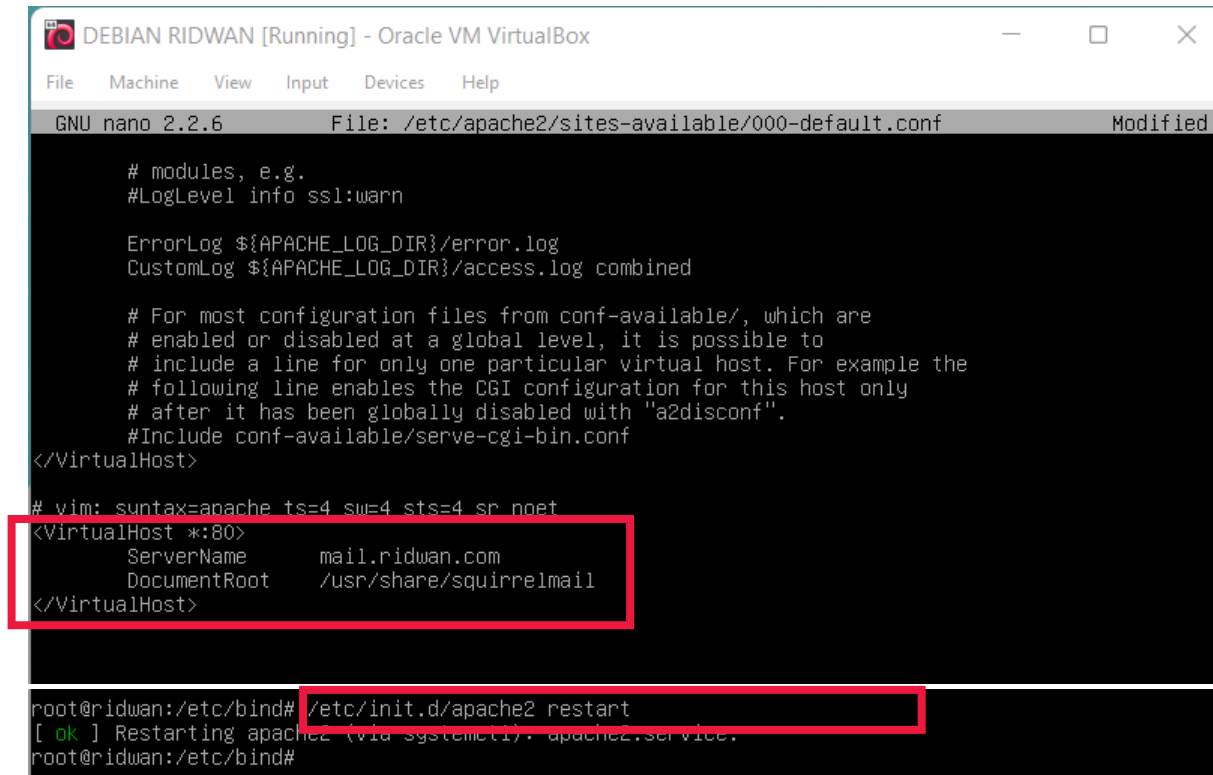
```
DEBIAN RIDWAN [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@ridwan:/etc/bind: nano /etc/apache2/sites-available/000-default.conf
```

KONFIGURASI DEBIAN

Konfigurasi apache

nano /etc/apache2/sites-available/000-default.conf

Tambahkan baris seperti berikut di paling bawah



```
DEBIAN RIDWAN [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
GNU nano 2.2.6 File: /etc/apache2/sites-available/000-default.conf Modified

# modules, e.g.
#LogLevel info ssl:warn

ErrorLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/access.log combined

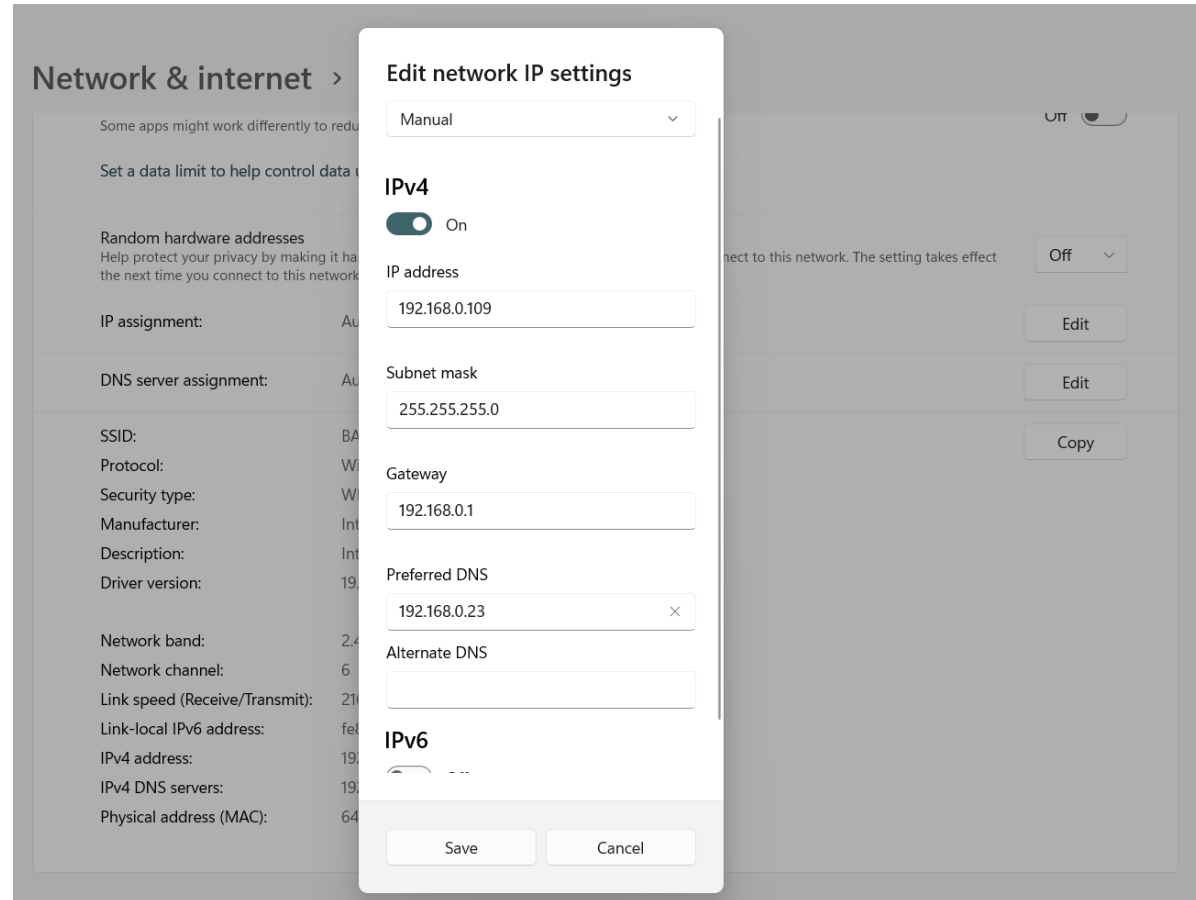
# For most configuration files from conf-available/, which are
# enabled or disabled at a global level, it is possible to
# include a line for only one particular virtual host. For example the
# following line enables the CGI configuration for this host only
# after it has been globally disabled with "a2disconf".
#Include conf-available/serve-cgi-bin.conf
</VirtualHost>

# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
<VirtualHost *:80>
    ServerName mail.ridwan.com
    DocumentRoot /usr/share/squirrelmail
</VirtualHost>

root@ridwan:/etc/bind# /etc/init.d/apache2 restart
[ ok ] Restarting apache2 (via systemctl): apache2.service.
root@ridwan:/etc/bind#
```

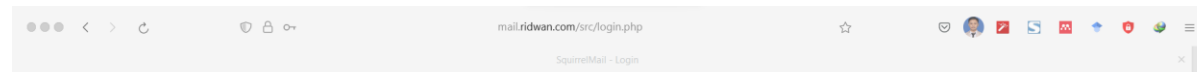
KONFIGURASI DEBIAN

Uji Coba pada client
Setting IP DNS Client supaya mengarah ke debian

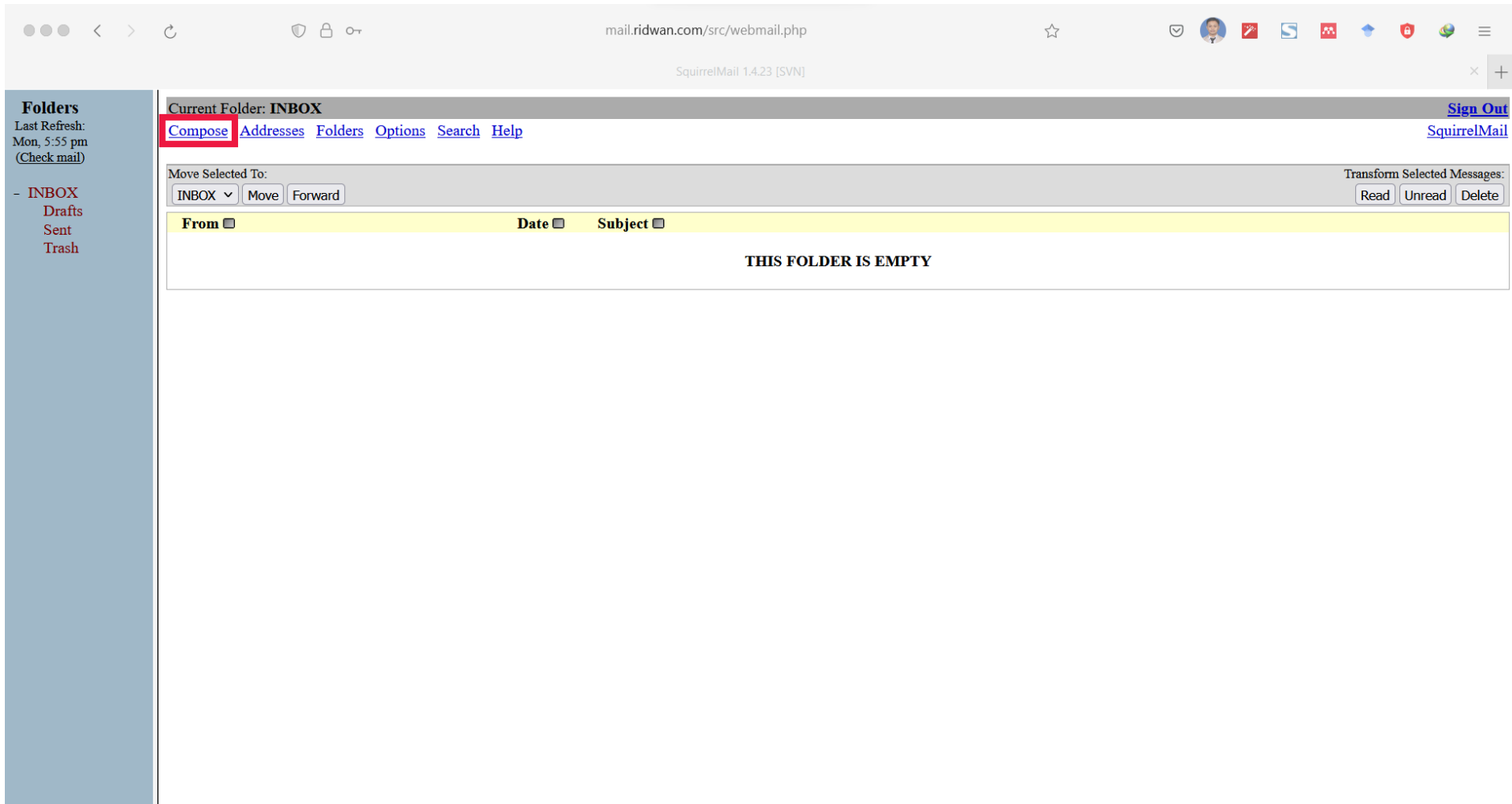


KONFIGURASI DEBIAN

Buka Browser. Ketik alamat email. Login dengan user di debian



KONFIGURASI DEBIAN



KONFIGURASI DEBIAN

mail.ridwan.com/src/webmail.php

SquirrelMail 1.4.23 [SVN]

Current Folder: **INBOX**

[Compose](#) [Addresses](#) [Folders](#) [Options](#) [Search](#) [Help](#)

[Sign Out](#)
[SquirrelMail](#)

To: irawan@ridwan.com

Cc:

Bcc:

Subject: Pngen dekat sampean nduk

Priority: Normal Receipt: ☐ On Read ☐ On Delivery

[Signature](#) [Addresses](#) [Save Draft](#) [Send](#)

Jalan bareng kuy

[Send](#)

Attach: [Telusuri...](#) Tidak ada berkas dipilih. [Add](#) (max. 2 M)

KONFIGURASI DEBIAN

The screenshot displays a webmail interface for 'mail.ridwan.com/src/webmail.php'. The browser's address bar shows the URL, and the page title is 'SquirrelMail 1.4.23 [SVN]'. The interface is divided into several sections:

- Left Sidebar (Folders):** Lists 'INBOX', 'Drafts', 'Sent', and 'Trash'. The 'Sent' folder is currently selected.
- Top Navigation Bar:** Contains links for 'Compose', 'Addresses', 'Folders', 'Options', 'Search', and 'Help'. A 'Sign Out' link is highlighted in the top right corner.
- Main Content Area:** Shows the 'Current Folder: Sent'. It includes a 'Toggle All' link and a 'Move Selected To:' dropdown menu set to 'INBOX'. Below this is a table of messages:

To	Date	Subject
☐ irawan@ridwan.com	5:57 pm	Pengen dekat sampean nduk

Below the message list, there is another 'Toggle All' link and a 'Viewing Message: 1 (1 total)' indicator.

KONFIGURASI DEBIAN

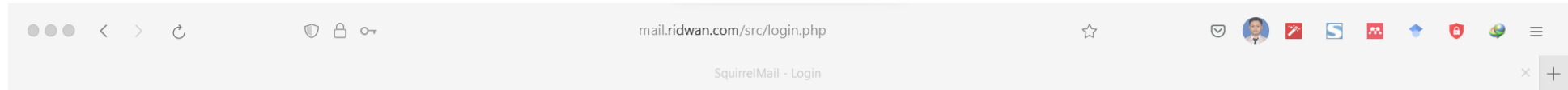


Sign Out

You have been successfully signed out.

[Click here to log back in.](#)

KONFIGURASI DEBIAN



SquirrelMail version 1.4.23 [SVN]
By the SquirrelMail Project Team

SquirrelMail Login

Name:

Password:

KONFIGURASI DEBIAN

mail.ridwan.com/src/webmail.php

SquirrelMail 1.4.23 [SVN]

Current Folder: **INBOX** [Sign Out](#)

[Compose](#) [Addresses](#) [Folders](#) [Options](#) [Search](#) [Help](#) [SquirrelMail](#)

[Toggle All](#) Viewing Messages: **1 to 2** (2 total)

Move Selected To: Transform Selected Messages:

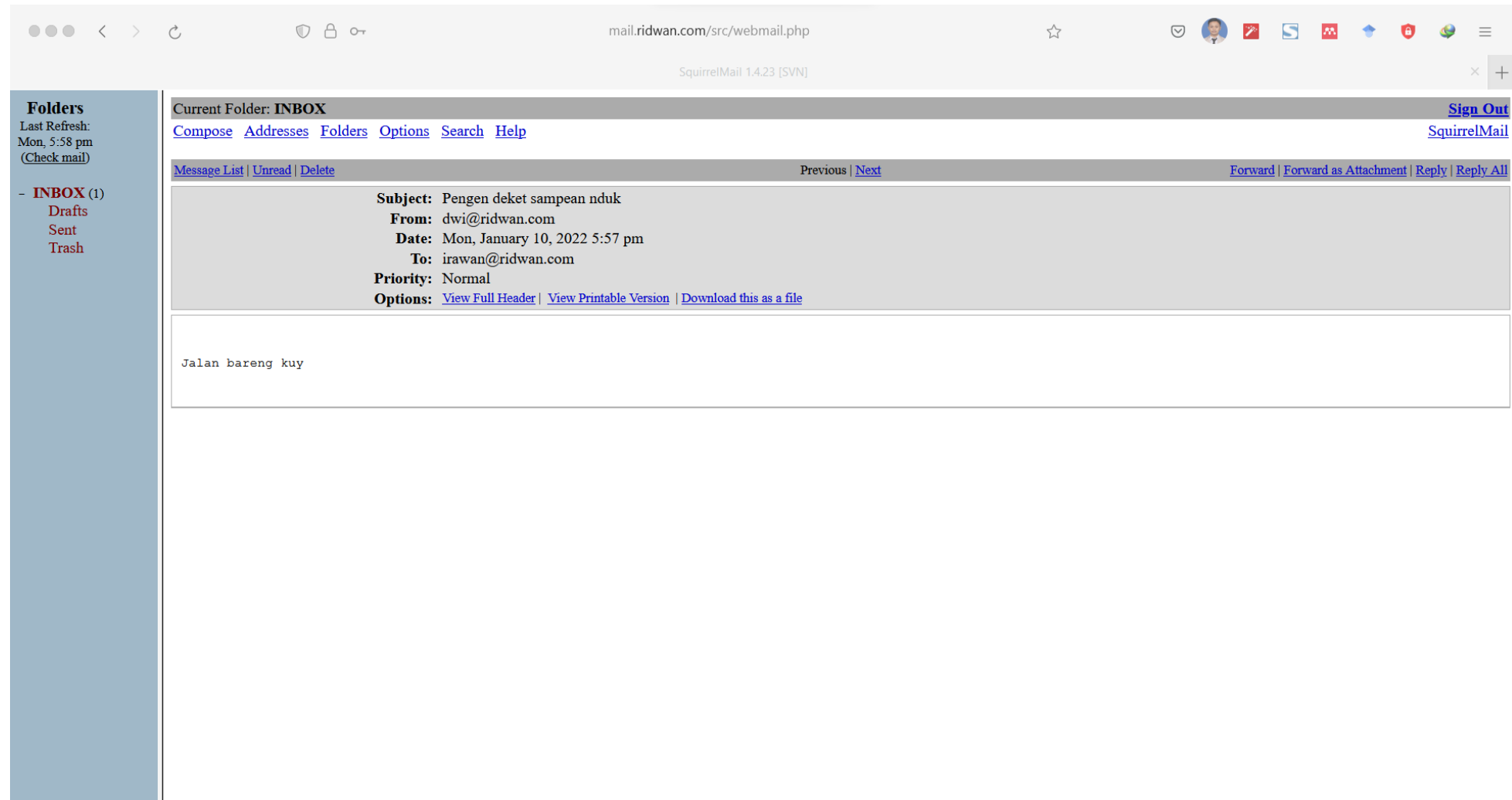
From	Date	Subject
☐ dwi@ridwan.com	5:57 pm	Pengen deket sampean nduk
☐ dwi@ridwan.com	5:42 pm	(no subject)

[Toggle All](#) Viewing Messages: **1 to 2** (2 total)

Folders
Last Refresh: Mon, 5:58 pm
(Check mail)

- **INBOX** (1)
- Drafts
- Sent
- Trash

KONFIGURASI DEBIAN



KONFIGURASI DEBIAN



Sign Out

You have been successfully signed out.

[Click here to log back in.](#)

Terima Kasih

XII TKJ

