

ADMINISTRASI DAN PENGELOLAAN JARINGAN



Disusun Oleh :

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Nim : A22.2020.02813

Kel : 3301

JURUSAN D3 TEKNIK INFORMATIKA

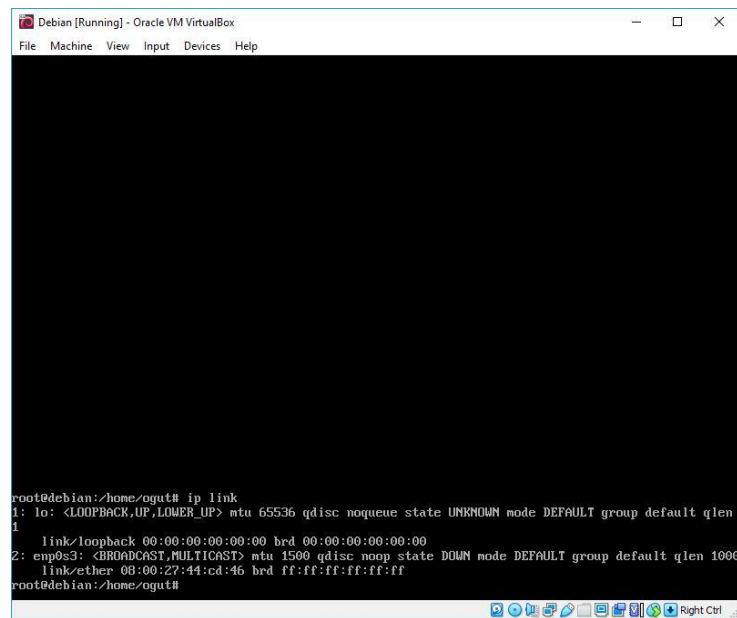
FAKULTAS ILMU KOMPUTER

UNIVERSITAS DIAN NUSWANTORO SEMARANG

TAHUN AJARAN 2021/2022

Langkah langkah pembuatan interface

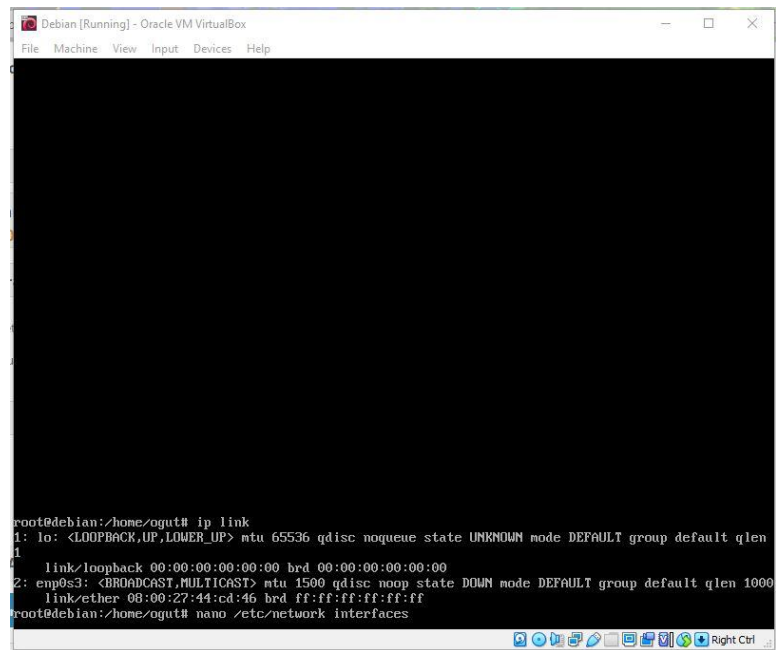
1. Untuk mengetest apk dengan klik link



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

root@debian:/home/ogut# ip link
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN mode DEFAULT group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
2: enp0s3: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN mode DEFAULT group default qlen 1000
    link/ether 08:00:27:44:cd:46 brd ff:ff:ff:ff:ff:ff
root@debian:/home/ogut#
```

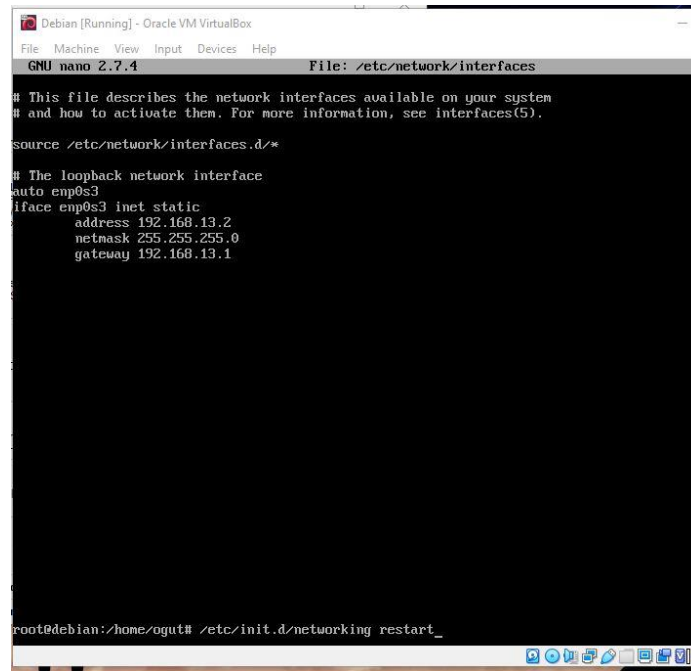
2. Untuk menulis interface dapat dengan cara nano /etc/network/interfaces



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

root@debian:/home/ogut# ip link
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN mode DEFAULT group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
2: enp0s3: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN mode DEFAULT group default qlen 1000
    link/ether 08:00:27:44:cd:46 brd ff:ff:ff:ff:ff:ff
root@debian:/home/ogut# nano /etc/network/interfaces
```

3. Lalu di restart



```
Debian [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
GNU nano 2.7.4 File: /etc/network/interfaces

# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

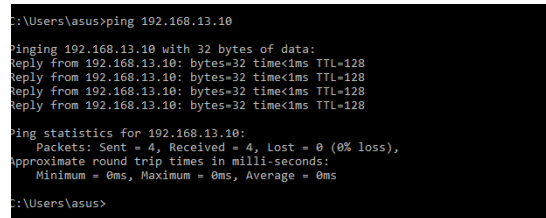
source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

# The ethernet interface
auto eth0
iface eth0 inet static
    address 192.168.13.2
    netmask 255.255.255.0
    gateway 192.168.13.1

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

4. Untuk mengetest jaringan menggunakan cmd lalu di ping



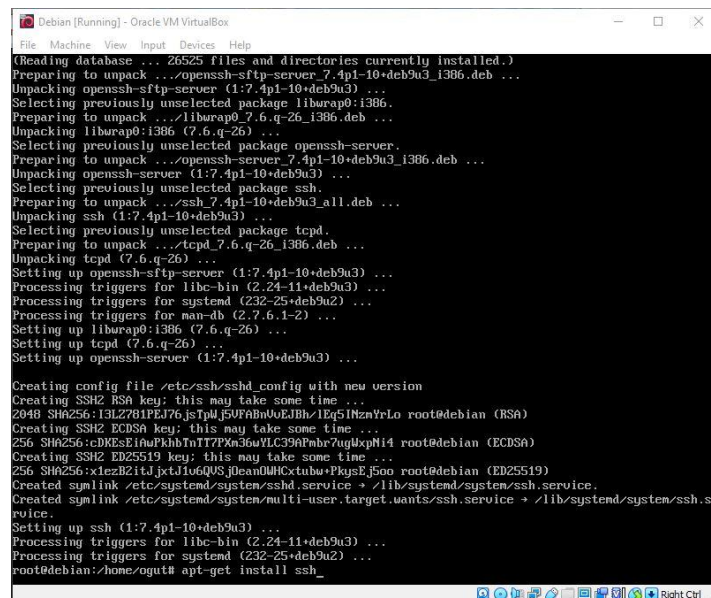
```
C:\Users\asus>ping 192.168.13.10

Pinging 192.168.13.10 with 32 bytes of data:
Reply from 192.168.13.10: bytes=32 time<1ms TTL=128
Reply from 192.168.13.10: bytes=32 time<1ms TTL=128
Reply from 192.168.13.10: bytes=32 time<1ms TTL=128
Reply from 192.168.13.10: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.13.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\asus>
```

5. Lalu menginstal ssh

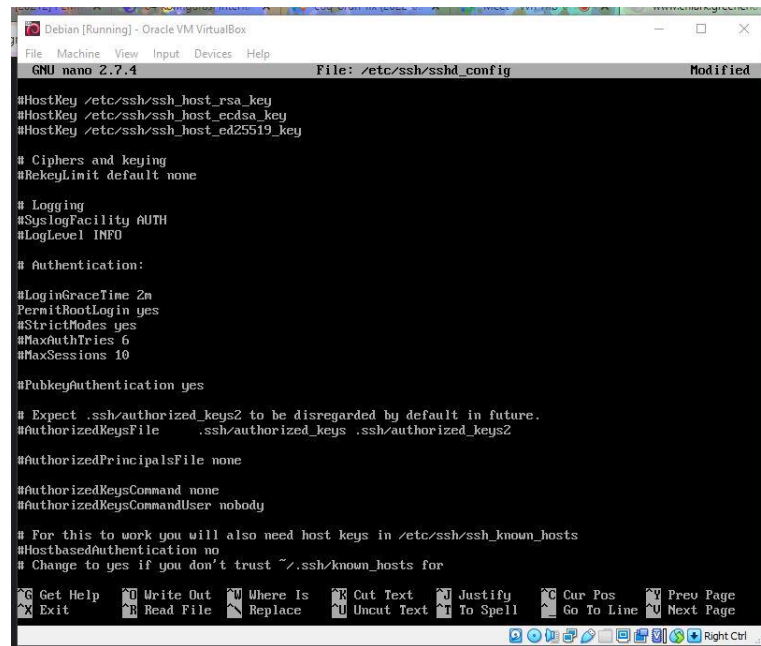


```
Debian [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

(Reading database ... 26525 files and directories currently installed.)
Preparing to unpack .../openssh-sftp-server_7.4p1-10+deb9u3_i386.deb ...
Unpacking openssh-sftp-server (1:7.4p1-10+deb9u3) ...
Selecting previously unselected package libwrap0:i386.
Preparing to unpack .../libwrap0_7.6.q-26_i386.deb ...
Unpacking libwrap0:i386 (7.6.q-26) ...
Selecting previously unselected package openssh-server.
Preparing to unpack .../openssh-server_7.4p1-10+deb9u3_i386.deb ...
Unpacking openssh-server (1:7.4p1-10+deb9u3) ...
Selecting previously unselected package ssh.
Preparing to unpack .../ssh_7.4p1-10+deb9u3_all.deb ...
Unpacking ssh (1:7.4p1-10+deb9u3) ...
Selecting previously unselected package tcpd.
Preparing to unpack .../tcpd_7.6.q-26_i386.deb ...
Unpacking tcpd (7.6.q-26) ...
Setting up openssh-sftp-server (1:7.4p1-10+deb9u3) ...
Processing triggers for libc-bin (2.24-11+deb9u3) ...
Processing triggers for systemd (232-25+deb9u2) ...
Processing triggers for man-db (2.7.6.1-2) ...
Setting up libwrap0:i386 (7.6.q-26) ...
Setting up tcpd (7.6.q-26) ...
Setting up openssh-server (1:7.4p1-10+deb9u3) ...

Creating config file /etc/ssh/sshd_config with new version
Creating SSH2 RSA key; this may take some time ...
2048 SHA256:13L2781PEJ76jsTpMj5UPABuUoEJRh1Eq51NznYrLo root@debian (RSA)
Creating SSH2 ECDSA key; this may take some time ...
256 SHA256:cDKEsE1nuPkhbTnIT7Pm36uVLC39AFmbr7uqUxpNi4 root@debian (ECDSA)
Creating SSH2 ED25519 key; this may take some time ...
256 SHA256:x1ezB2itJjxtJiU6QUSj0ean0UHCxtubu+PkysEj5oo root@debian (ED25519)
Created symlink /etc/systemd/system/ssh.service → /lib/systemd/system/ssh.service.
Created symlink /etc/systemd/system/multi-user.target.wants/ssh.service → /lib/systemd/system/ssh.service.
Setting up ssh (1:7.4p1-10+deb9u3) ...
Processing triggers for libc-bin (2.24-11+deb9u3) ...
Processing triggers for systemd (232-25+deb9u2) ...
root@debian:/home/ogut# apt-get install ssh_
```

6. Lalu agar tidak menggunakan password dapat diganti menghapus porhible-password



```
Debian [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
GNU nano 2.7.4 File: /etc/ssh/sshd_config Modified

#HostKey /etc/ssh/ssh_host_rsa_key
#HostKey /etc/ssh/ssh_host_ecdsa_key
#HostKey /etc/ssh/ssh_host_ed25519_key

# Ciphers and keying
#RekeyLimit default none

# Logging
#SyslogFacility AUTH
#LogLevel INFO

# Authentication:

#LoginGraceTime 2m
PermitRootLogin yes
#StrictModes yes
#MaxAuthTries 6
#MaxSessions 10

#PubkeyAuthentication yes

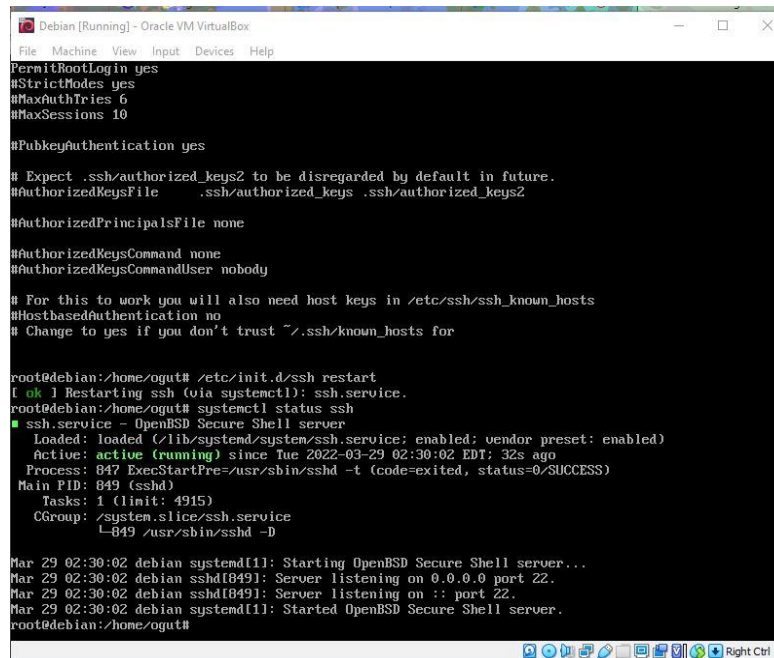
# Expect .ssh/authorized_keys2 to be disregarded by default in future.
#AuthorizedKeysFile .ssh/authorized_keys .ssh/authorized_keys2

#AuthorizedPrincipalsFile none

#AuthorizedKeysCommand none
#AuthorizedKeysCommandUser nobody

# For this to work you will also need host keys in /etc/ssh/ssh_known_hosts
#HostbasedAuthentication no
# Change to yes if you don't trust ~/.ssh/known_hosts for

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



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

PermitRootLogin yes
#StrictModes yes
#MaxAuthTries 6
#MaxSessions 10

#PubkeyAuthentication yes

# Expect .ssh/authorized_keys2 to be disregarded by default in future.
#AuthorizedKeysFile .ssh/authorized_keys .ssh/authorized_keys2

#AuthorizedPrincipalsFile none

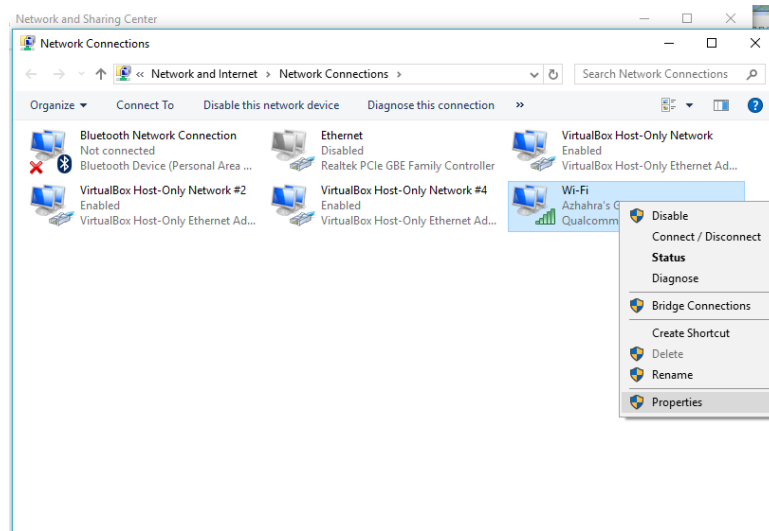
#AuthorizedKeysCommand none
#AuthorizedKeysCommandUser nobody

# For this to work you will also need host keys in /etc/ssh/ssh_known_hosts
#HostbasedAuthentication no
# Change to yes if you don't trust ~/.ssh/known_hosts for

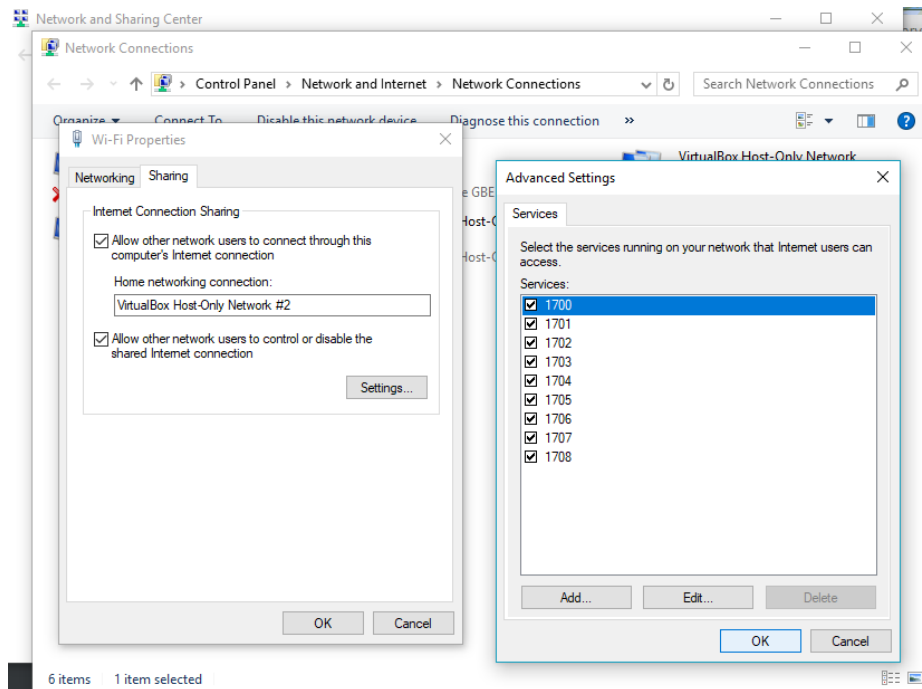
root@debian:/home/ogut# /etc/init.d/ssh restart
[ ok ] Restarting ssh (via systemctl): ssh.service.
root@debian:/home/ogut# systemctl status ssh
ssh.service - OpenBSD Secure Shell server
Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enabled)
Active: active (running) since Tue 2022-03-29 02:30:02 EDT; 32s ago
Process: 847 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
Main PID: 849 (sshd)
Tasks: 1 (limit: 4915)
CGroup: /system.slice/ssh.service
└─849 /usr/sbin/sshd -D

Mar 29 02:30:02 debian systemd[1]: Starting OpenBSD Secure Shell server...
Mar 29 02:30:02 debian sshd[849]: Server listening on 0.0.0.0 port 22.
Mar 29 02:30:02 debian sshd[849]: Server listening on :: port 22.
Mar 29 02:30:02 debian systemd[1]: Started OpenBSD Secure Shell server.
root@debian:/home/ogut#
```

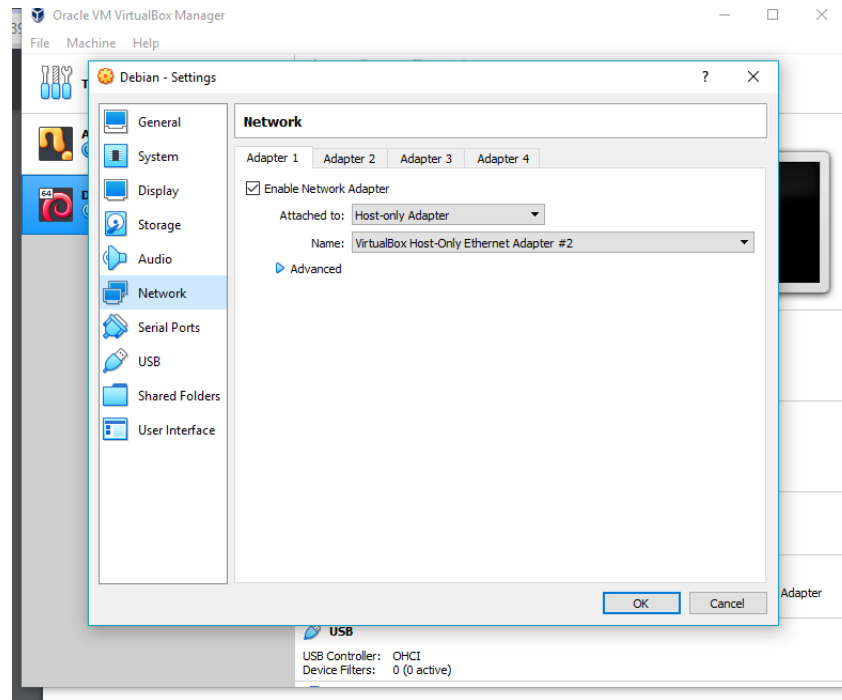
7. Instal konfigurasi



8. Atur konfigurasi



9. Ubah Network dalam virtualbox menjadi host only - adapter



10. Instal samba menggunakan apt-get instal samba

```
Debian [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Setting up tdb-tools (1.3.11-2) ...
update-alternatives: using /usr/bin/tdbbackup.tdbtools to provide /usr/bin/tdbbackup (tdbbackup) in
auto mode
Processing triggers for man-db (2.7.6.1-2) ...
Setting up libtalloc2:i386 (2.1.8-1) ...
Setting up attr (1:2.4.47-2+b2) ...
Setting up libfile-copy-recursive-perl (0.38-1) ...
Setting up libavahi-common-data:i386 (0.6.32-2) ...
Setting up python-talloc (2.1.8-1) ...
Setting up update-inetd (4.44) ...
Setting up python-tdb (1.3.11-2) ...
Setting up libevent0:i386 (0.9.31-1) ...
Setting up libavahi-common3:i386 (0.6.32-2) ...
Setting up libldb1:i386 (2:1.1.27-1+b1) ...
Setting up libavahi-client3:i386 (0.6.32-2) ...
Setting up libcups2:i386 (2.2.1-8+deb9u1) ...
Setting up python-ldb (2:1.1.27-1+b1) ...
Setting up samba-libs:i386 (2:4.5.12+dfsg-2+deb9u1) ...
Setting up samba-libs-modules (2:4.5.12+dfsg-2+deb9u1) ...
Setting up python-samba (2:4.5.12+dfsg-2+deb9u1) ...
Setting up samba-common-bin (2:4.5.12+dfsg-2+deb9u1) ...
Setting up samba-dsdb-modules (2:4.5.12+dfsg-2+deb9u1) ...
Setting up samba (2:4.5.12+dfsg-2+deb9u1) ...
Adding group 'smbshare' (GID 111) ...
Done.
Samba is not being run as an AD Domain Controller, masking samba-ad-dc.service.
Please ignore the following error about deb-systemd-helper not finding samba-ad-dc.service.
Created symlink /etc/systemd/system/multi-user.target.wants/nmbd.service → /lib/systemd/system/nmbd.
service.
Failed to preset unit: Unit file /etc/systemd/system/samba-ad-dc.service is masked.
/usr/bin/deb-systemd-helper: error: systemctl preset failed on samba-ad-dc.service: No such file or
directory
Created symlink /etc/systemd/system/multi-user.target.wants/smbd.service → /lib/systemd/system/smbd.
service.
Processing triggers for libc-bin (2.24-11+deb9u3) ...
Processing triggers for systemd (232-25+deb9u2) ...
root@debian:/home/ogut#
```

11. Cek apakah samba sudah aktif dengan menggunakan /etc/init.d/samba status

```
Debian [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Processing triggers for libc-bin (2.24-11+deb9u3) ...
Processing triggers for systemd (232-25+deb9u2) ...
root@debian:/home/ogut# /etc/init.d/samba status
■ nmdb.service - Samba NMB Daemon
   Loaded: loaded (/lib/systemd/system/nmbd.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2022-04-05 02:13:15 EDT; 1min 48s ago
     Docs: man:nmbd(8)
           man:samba(7)
           man:smb.conf(5)
   Main PID: 1477 (nmbd)
   Status: "nmbd: ready to serve connections..."
   CGroup: /system.slice/nmbd.service
           └─1477 /usr/sbin/nmbd

Apr 05 02:13:15 debian systemd[1]: Starting Samba NMB Daemon...
Apr 05 02:13:15 debian systemd[1]: nmbd.service: Supervising process 1477 which is not our ch#exits.
Apr 05 02:13:15 debian systemd[1]: Started Samba NMB Daemon.
Hint: Some lines were ellipsized, use -l to show in full.
■ smbd.service - Samba SMB Daemon
   Loaded: loaded (/lib/systemd/system/smbd.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2022-04-05 02:13:15 EDT; 1min 48s ago
     Docs: man:smbd(8)
           man:samba(7)
           man:smb.conf(5)
   Main PID: 1439 (smbd)
   Status: "smbd: ready to serve connections..."
   CGroup: /system.slice/smbd.service
           ├─1439 /usr/sbin/smbd
           ├─1440 /usr/sbin/smbd
           ├─1441 /usr/sbin/smbd
           └─1444 /usr/sbin/smbd

Apr 05 02:13:15 debian systemd[1]: Starting Samba SMB Daemon...
Apr 05 02:13:15 debian systemd[1]: smbd.service: Supervising process 1439 which is not our ch#exits.
Apr 05 02:13:15 debian systemd[1]: Started Samba SMB Daemon.
Hint: Some lines were ellipsized, use -l to show in full.
root@debian:/home/ogut#
```

12. Tambahkan di tulisan di nano /etc/samba/smb.conf

```
Debian [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
GNU nano 2.7.4 File: /etc/samba/smb.conf

# Windows clients look for this share name as a source of downloadable
# printer drivers
[print$]
   comment = Printer Drivers
   path = /var/lib/samba/printers
   browseable = yes
   read only = yes
   guest ok = no
# Uncomment to allow remote administration of Windows print drivers.
# You may need to replace 'lpadmin' with the name of the group your
# admin users are members of.
# Please note that you also need to set appropriate Unix permissions
# to the drivers directory for these users to have write rights in it
: write list = root, @lpadmin

[hudinus.net]
path = /home/ara
browseable = yes
writeable = yes
guest ok = no
public = no
read only = no
security = user

^G Get Help ^O Write Out ^W Where Is ^X Cut Text ^J Justify ^C Cur Pos ^V Prev Page
^X Exit ^R Read File ^M Replace ^U Uncut Text ^I To Spell ^_ Go To Line ^N Next Page
```

13. Tambahkan file dengan adduser ara

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

# Windows clients look for this share name as a source of downloadable
# printer drivers
[print$]
comment = Printer Drivers
path = /var/lib/samba/printers
browseable = yes
read only = yes
guest ok = no
# Uncomment to allow remote administration of Windows print drivers.
# You may need to replace 'lpadmin' with the name of the group your
# admin users are members of.
# Please note that you also need to set appropriate Unix permissions
# to the drivers directory for these users to have write rights in it
; write list = root, @lpadmin

[ludinus.net]
path = /home/ara
browseable = yes
writeable = yes
guest ok = no
public = no
read only = no
security = user

root@debian:/home/ogut# adduser ara
adduser: The user `ara' already exists.
root@debian:/home/ogut#
```

14. Setelah itu atur password menggunakan “smbpasswd – (namafile)”

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

[print$]
comment = Printer Drivers
path = /var/lib/samba/printers
browseable = yes
read only = yes
guest ok = no
# Uncomment to allow remote administration of Windows print drivers.
# You may need to replace 'lpadmin' with the name of the group your
# admin users are members of.
# Please note that you also need to set appropriate Unix permissions
# to the drivers directory for these users to have write rights in it
; write list = root, @lpadmin

[ludinus.net]
path = /home/ara
browseable = yes
writeable = yes
guest ok = no
public = no
read only = no
security = user

root@debian:/home/ogut# adduser ara
adduser: The user `ara' already exists.
root@debian:/home/ogut# smbpasswd -a ara
New SMB password:
Retype new SMB password:
root@debian:/home/ogut#
```


15. Restart samba

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

browsable = yes
read only = yes
guest ok = no
# Uncomment to allow remote administration of Windows print drivers.
# You may need to replace 'lpadmin' with the name of the group your
# admin users are members of.
# Please note that you also need to set appropriate Unix permissions
# to the drivers directory for these users to have write rights in it
; write list = root, @lpadmin

[ludinus.net]
path = /home/ara
browsable = yes
writeable = yes
guest ok = no
public = no
read only = no
security = user

root@debian:/home/ogut# adduser ara
adduser: The user 'ara' already exists.
root@debian:/home/ogut# smbpasswd -a ara
New SMB password:
Retype new SMB password:
root@debian:/home/ogut# /etc/init.d/samba restart
[ ok ] Restarting nmbd (via systemctl): nmbd.service.
[ ok ] Restarting smbd (via systemctl): smbd.service.
root@debian:/home/ogut# _
```

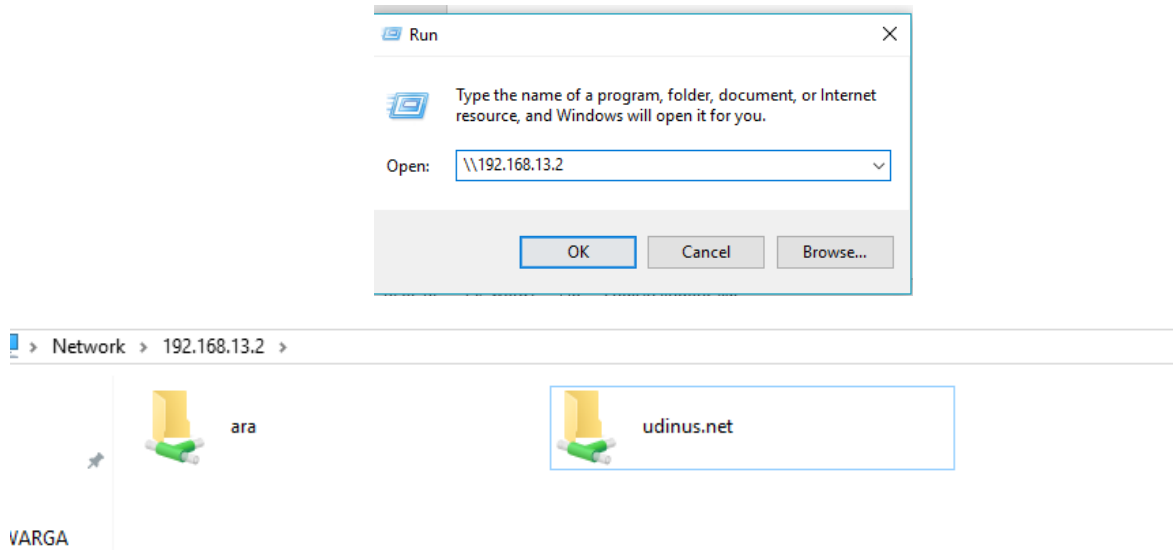
```
Debian [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

root@debian:/home/ogut# /etc/init.d/samba status
■ nmbd.service - Samba NMB Daemon
  Loaded: loaded (/lib/systemd/system/nmbd.service; enabled; vendor preset: enabled)
  Active: active (running) since Tue 2022-04-05 02:18:36 EDT; 20s ago
    Docs: man:nmbd(8)
           man:samba(7)
           man:smb.conf(5)
  Main PID: 1587 (nmbd)
  Status: "nmbd: ready to serve connections..."
    Tasks: 1 (limit: 4915)
  CGroup: /system.slice/nmbd.service
          └─1587 /usr/sbin/nmbd

Apr 05 02:18:36 debian systemd[1]: Starting Samba NMB Daemon...
Apr 05 02:18:36 debian systemd[1]: nmbd.service: Supervising process 1587 which is not our ch#exits
Apr 05 02:18:36 debian systemd[1]: Started Samba NMB Daemon.
Hint: Some lines were ellipsized, use -l to show in full.
■ smbd.service - Samba SMB Daemon
  Loaded: loaded (/lib/systemd/system/smbd.service; enabled; vendor preset: enabled)
  Active: active (running) since Tue 2022-04-05 02:18:36 EDT; 20s ago
    Docs: man:smbd(8)
           man:samba(7)
           man:smb.conf(5)
  Main PID: 1617 (smbd)
  Status: "smbd: ready to serve connections..."
    Tasks: 4 (limit: 4915)
  CGroup: /system.slice/smbd.service
          └─1617 /usr/sbin/smbd
            └─1618 /usr/sbin/smbd
              └─1619 /usr/sbin/smbd
                └─1622 /usr/sbin/smbd

Apr 05 02:18:36 debian systemd[1]: Starting Samba SMB Daemon...
Apr 05 02:18:36 debian systemd[1]: smbd.service: Supervising process 1617 which is not our ch#exits
Apr 05 02:18:36 debian systemd[1]: Started Samba SMB Daemon.
Hint: Some lines were ellipsized, use -l to show in full.
root@debian:/home/ogut# _
```

16. Jika sudah aktif tes file server



Jika sudah muncul maka file server pun bisa digunakan