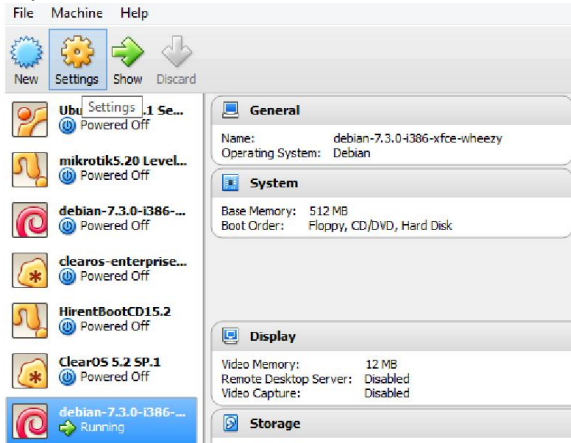


Tutorial Sharing internet pada VirtualBox dan install samba.

I. Tahapan Konfigurasi Network Sistem Operasi

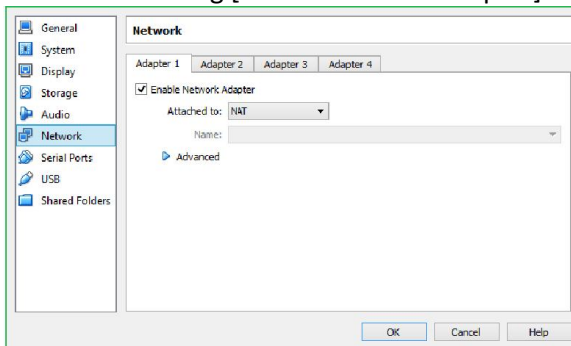
Pada tahapan ini pastikan sistem operasi tidak pada kondisi **running** alias Harus **Power Off**. Pilih Sistem Operasi yang akan di setting networknya, pada tutorial sistem operasi yang di pilih ada debian 7.3.0



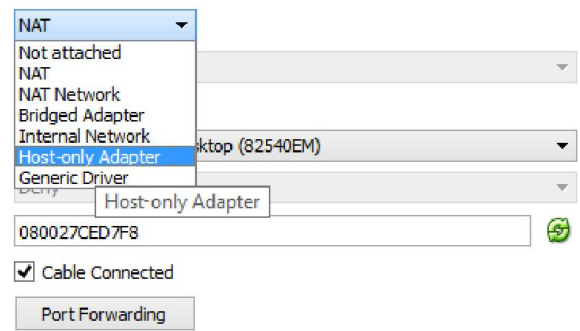
Pilih tombol [Setting]



Pilih [Network], berikut adalah tampilan awal :
Kemudian centang [Enable Network Adapter]

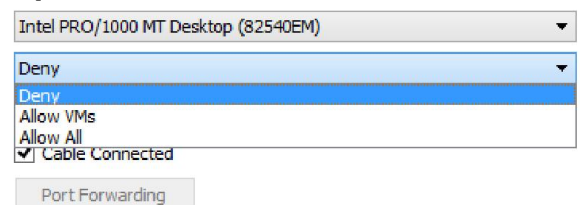


Pada [Attached to] arahkan ke [Host-only Adapter].

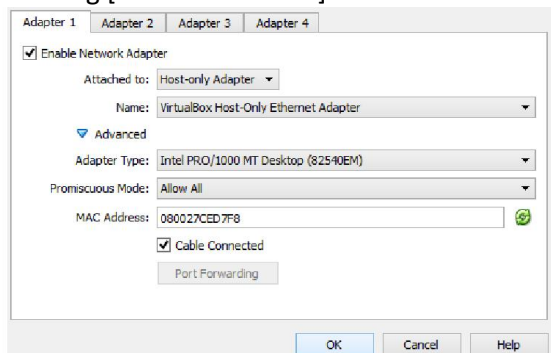


Klik [Advance]

Pada [Promiscuous Mode] Arahkan ke [Allow All].



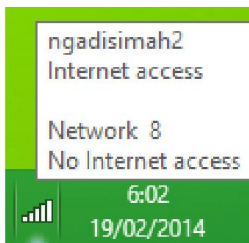
Berikut tampilan Setting Network, dan lakukan centang [Cable Connected].



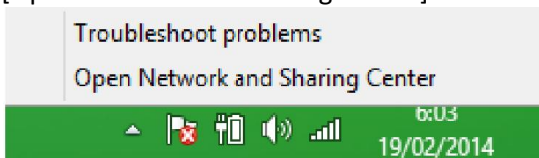
Kemudian Klik tombol (OK).

II. Tahapan Konfigurasi Wifi

Pastikan Icon Wireless sudah di aktifkan.



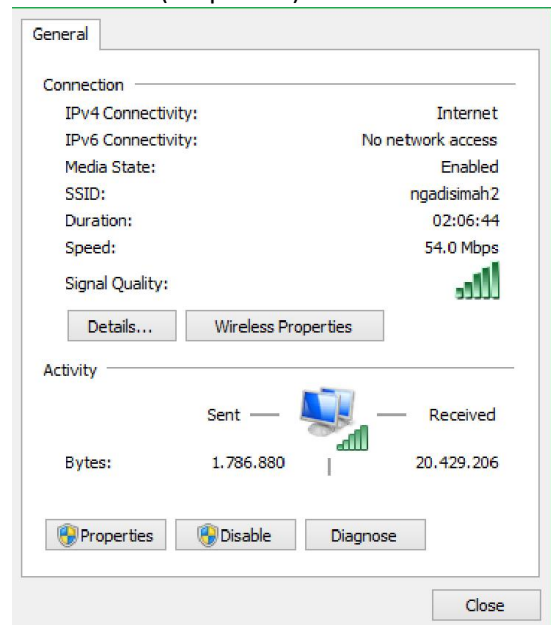
Klik kanan pada icon Wireless, kemudian pilih [Open Network and Sharing Center]



Klik [Wi-Fi] untuk sharing internet.

Access type: Internet
HomeGroup: Ready to create
Connections: Wi-Fi (ngadisimah2)

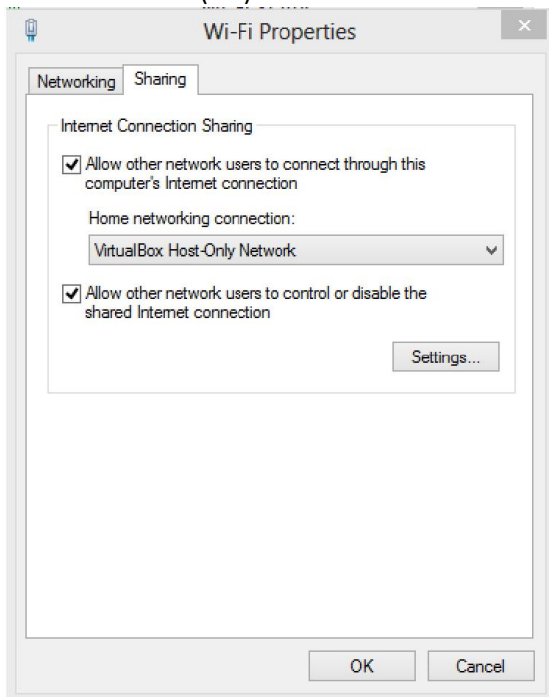
Pilih tombol (Properties)



Tutorial Sharing internet pada VirtualBox dan install samba.

Tampilan Awal (Properties) – pilih menu [Sharing].

- Centang [Allow other network users to ...].
- Pada menu [Home networking connection :] arahkan pada [VirtualBox Host-Only Network].
- Kemudian klik (OK).

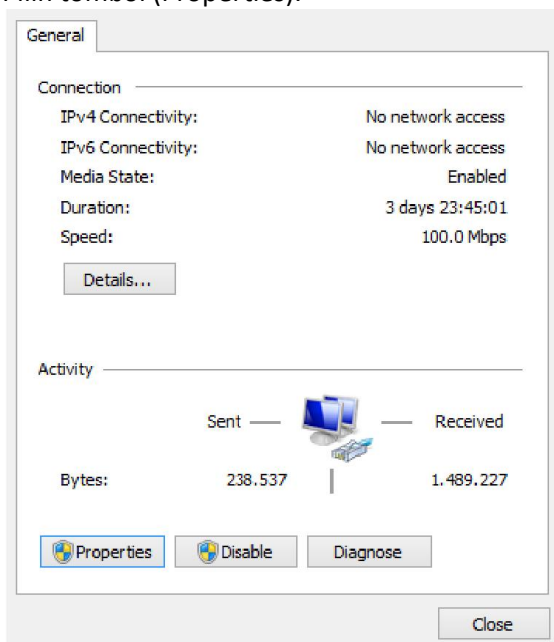


III. Tahapan setting **VirtualBox Host-Only Adapter**

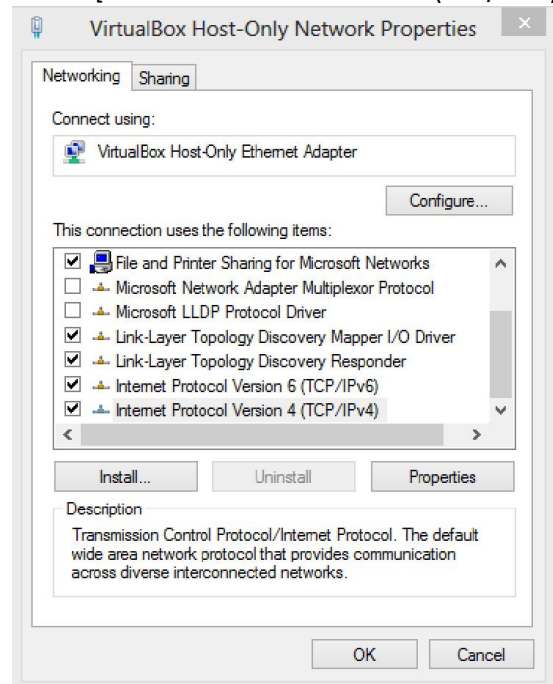
Kembali pada tampilan Open Network and Sharing Center.

Access type: No network access
Connections: VirtualBox Host-Only Network

Tampilan Awal VirtualBox Host-Only Network. Pilih tombol (Properties).

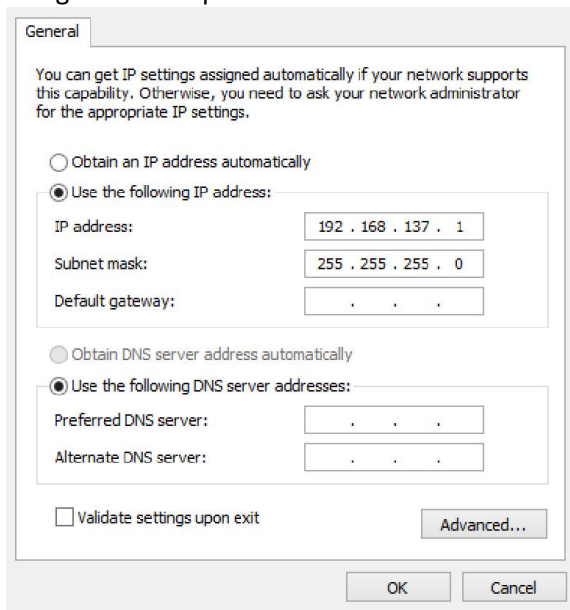


Klik 2X [Internet Protocol Version 4 (TCP/IPv4)]



Tampilan [Internet Protocol Version 4 (TCP/IPv4)].

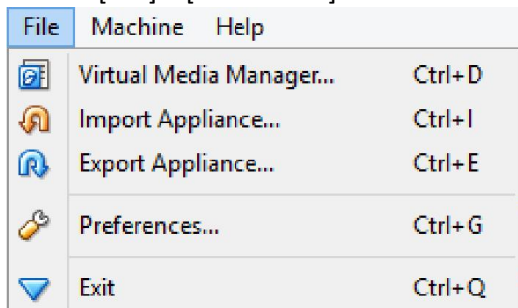
Isikan IP Address dan Subnet masknya seperti berikut. Kemudian klik tombol (OK). Untuk mengkonfirmasi perintah.



IV. Tahapan konfigurasi Network pada VirtualBox

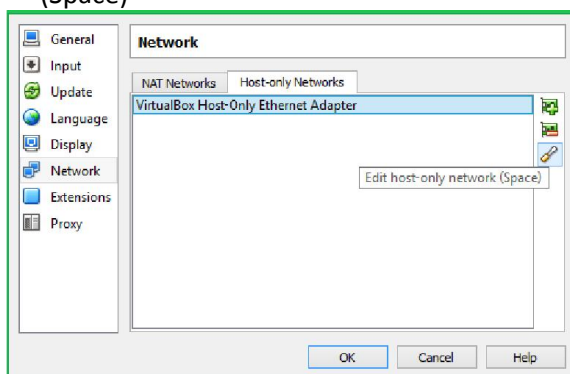
Kembali pada tampilan awal menu utama virtualBox.

- Pilih [File] – [Preferences..]



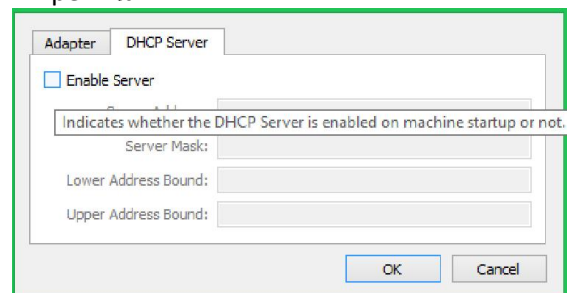
Pilih [Network]

- Pilih menu Host-only Adapter
- Klik icon kunci untuk Edit Host-only network (Space)



Klik [DHCP Server]

- Unchecklist pada [Enable Server]
- Klik tombol (OK). untuk menjalankan perintah.



Tutorial Sharing internet pada VirtualBox dan install samba.

V. Tahapan Konfigurasi Network pada Sistem Operasi

Jalankan sistem operasi dengan menekan tombol [Start]



Tunggu beberapa menit untuk proses booting, hingga muncul tampilan berikut :

- Masukkan user "root" dan passwordnya.

```
Debian GNU/Linux 7 debian tty1
debian login: root
Password:
Last login: Wed Feb 19 05:55:29 WIB 2014 on tty1
Linux debian 3.2.0-4-486 #1 Debian 3.2.51-1 i686

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.
root@debian:~#
```

Pindah direktory ke network dengan perintah **cd /etc/network/**

```
root@debian:~# cd /etc/network/
root@debian:/etc/network#
```

Buka file interfaces dengan editor nano seperti berikut :

```
root@debian:/etc/network# nano interfaces
```

Berikan tanda pagar (#) pada baris script allow-hotplug eth0

```
# The primary network interface
#allow-hotplug eth0_
iface eth0 inet dhcp
```

Tambahkan script seperti screen shot berikut :

```
# The primary network interface
#allow-hotplug eth0
auto eth0
iface eth0 inet static
    address 192.168.137.2
    netmask 255.255.255.0
    gateway 192.168.137.1_
```

VI. Tahapan konfigurasi nameserver

Buka file **resolv.conf** dengan editor nano

```
root@debian:/etc/network# nano /etc/resolv.conf
```

Tambahkan DNS google dan ip address virtual komputer host seperti berikut :

```
GNU nano 2.2.6 File: /etc/resolv.conf
nameserver 8.8.8.8
nameserver 8.8.4.4
nameserver 192.168.137.1_
```

Simpan dengan perintah **ctrl+o** dan keluar editor dengan perintah **ctrl+x**.

Tampilan Script Keseluruhan seperti berikut :

```
GNU nano 2.2.6 File: interfaces Modified
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
#allow-hotplug eth0
auto eth0
iface eth0 inet static
    address 192.168.137.2
    netmask 255.255.255.0
    gateway 192.168.137.1_

^G Get Help ^O WriteOut ^R Read File ^N Prev Page ^K Cut Text ^D Cur Pos
^C Exit ^J Justify ^W Where Is ^L Next Page ^U UnCut Text ^T To Spell
```

Simpan dengan perintah **ctrl+o** kemudian [enter]

Kemudian keluar dengan perintah **ctrl+x**.

```
File Name to Write: interfaces_
^G Get Help M-D DOS Format
^C Cancel M-M Mac Format
```

Restart networking dengan perintah : **/etc/init.d/networking restart**

```
root@debian:/etc/network# /etc/init.d/networking restart
[....] Running /etc/init.d/networking restart is deprecated because it may not
unwamble some interfaces... [done]!
[ OK ] Reconfiguring network interfaces...done.
root@debian:/etc/network#
```

Uji koneksi dengan dengan komputer host dengan perintah :

Ping 192.168.137.1

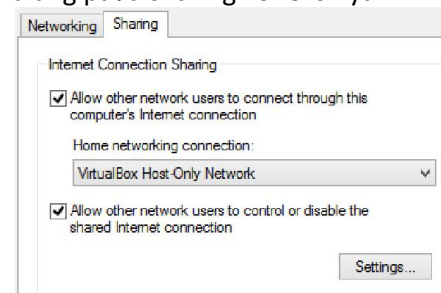
```
root@debian:/etc/network# ping 192.168.137.1
PING 192.168.137.1 (192.168.137.1) 56(84) bytes of data:
64 bytes from 192.168.137.1: icmp_req=1 ttl=64 time=1.15 ms
64 bytes from 192.168.137.1: icmp_req=2 ttl=64 time=0.705 ms
64 bytes from 192.168.137.1: icmp_req=3 ttl=64 time=0.691 ms
64 bytes from 192.168.137.1: icmp_req=4 ttl=64 time=0.693 ms
64 bytes from 192.168.137.1: icmp_req=5 ttl=64 time=0.671 ms
64 bytes from 192.168.137.1: icmp_req=6 ttl=64 time=0.716 ms
^C
--- 192.168.137.1 ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5013ms
rtt min/avg/max/mdev = 0.671/0.771/1.153/0.173 ms
root@debian:/etc/network#
```

```
File Name to Write: /etc/resolv.conf_
^G Get Help M-D DOS Format
^C Cancel M-M Mac Format
```

Lakukan uji koneksi dengan perintah **ping**

```
root@debian:/etc/network# ping google.com
ping: unknown host google.com
```

Apabila masih "unknow host" maka setting ulang pada sharing koneksinya.



Tutorial Sharing internet pada VirtualBox dan install samba.

Lakukan uji koneksi kembali ke google, dan pastikan replay seperti berikut :

```
root@debian:/etc/network# ping google.com
PING google.com (118.98.36.82) 56(84) bytes of data:
64 bytes from 82.subnet110-98-36.astinet.telkom.net.id (118.98.36.82): icmp_req=1
ttl=50 time=38.8 ms
64 bytes from 82.subnet110-98-36.astinet.telkom.net.id (118.98.36.82): icmp_req=2
ttl=50 time=38.0 ms
64 bytes from 82.subnet110-98-36.astinet.telkom.net.id (118.98.36.82): icmp_req=3
ttl=50 time=38.8 ms
64 bytes from 82.subnet110-98-36.astinet.telkom.net.id (118.98.36.82): icmp_req=4
ttl=50 time=34.8 ms
64 bytes from 82.subnet110-98-36.astinet.telkom.net.id (118.98.36.82): icmp_req=5
ttl=50 time=37.3 ms
^C
--- google.com ping statistics ---
6 packets transmitted, 4 received, 33% packet loss, time 5013ms
rtt min/avg/max/mdev = 34.852/37.490/38.896/1.658 ms
root@debian:/etc/network#
```

VII. Tahapan konfigurasi sources.list

Pindah directory dengan perintah `cd /etc/apt/`

```
root@debian:/etc/network# cd /etc/apt/
root@debian:/etc/apt#
```

Buka file `sources.list` menggunakan editor `nano` seperti berikut :

```
root@debian:/etc/apt# nano sources.list
```

Tampilan script `sources.list` yang belum di edit. Fungsi `sources.list` ini adalah untuk sistem operasi dapat melakukan instalasi paket secara online serta digunakan juga untuk melakukan upgrade sistem operasi.

```
GNU nano 2.2.6 File: sources.list
#
# deb cdrom:[Debian GNU/Linux 7.3.0 _Wheezy_ - Official 1366 xfce-CD Binary-1 2S
# deb cdrom:[Debian GNU/Linux 7.3.0 _Wheezy_ - Official 1366 xfce-CD Binary-1 20S
# deb http://security.debian.org/ wheezy/updates main
# deb-src http://security.debian.org/ wheezy/updates main
# wheezy-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://ftp.debian.org/debian/ wheezy-updates main
# deb-src http://ftp.debian.org/debian/ wheezy-updates main
# deb http://kambing.ui.ac.id/debian/ wheezy main contrib non-free
# deb-src http://kambing.ui.ac.id/debian-security/ wheezy/updates main contrib_non-free
```

VIII. Tahapan update repository

Lakukan update dengan perintah `apt-get update`.

```
root@debian:/etc/apt# apt-get update
Get:1 http://kambing.ui.ac.id wheezy Release.gpg [1,672 B]
Ign http://kambing.ui.ac.id wheezy-update Release.gpg
Ign http://kambing.ui.ac.id wheezy/update Release.gpg
Get:2 http://kambing.ui.ac.id wheezy Release [168 kB]
81% [2 Release 137 kB/168 kB 81%]
```

Sehingga seperti ini, dan tidak ada pesan ignore.

```
Hit http://kambing.ui.ac.id wheezy-updates/non-free Translation-en
Get:5 http://kambing.ui.ac.id wheezy/updates/main 1366 Packages [164 kB]
Get:6 http://kambing.ui.ac.id wheezy/updates/contrib 1366 Packages [14 B]
Get:7 http://kambing.ui.ac.id wheezy/updates/non-free 1366 Packages [14 B]
Get:8 http://kambing.ui.ac.id wheezy/updates/contrib Translation-en [14 B]
Get:9 http://kambing.ui.ac.id wheezy/updates/main Translation-en [30,2 kB]
Get:10 http://kambing.ui.ac.id wheezy/updates/non-free Translation-en [14 B]
Fetched 358 kB in 9s (36,6 kB/s)
Reading package lists... Done
root@debian:/etc/apt#
```

Edit script `sources.list` pada bagian ini untuk ditambahkan pagar (#).

```
# deb cdrom:[Debian GNU/Linux 7.3.0 _Wheezy_ - Official 1366 xfce-CD Binary-1 201S
# deb http://security.debian.org/ wheezy/updates main
# deb-src http://security.debian.org/ wheezy/updates main
```

Sehingga menjadi begini :

```
# deb cdrom:[Debian GNU/Linux 7.3.0 _Wheezy_ - Official 1366 xfce-CD Binary-1 20S
# deb http://security.debian.org/ wheezy/updates main
# deb-src http://security.debian.org/ wheezy/updates main
```

Tambahkan repository lokal agar akses lebih cepat. Scriptnya seperti berikut:

```
# deb http://kambing.ui.ac.id/debian/ wheezy main contrib non-free
# deb http://kambing.ui.ac.id/debian/ wheezy-updates main contrib non-free
# deb http://kambing.ui.ac.id/debian-security/ wheezy/updates main contrib_non-free
```

Sehingga seperti ini:

```
GNU nano 2.2.6 File: sources.list Modified
#
# deb cdrom:[Debian GNU/Linux 7.3.0 _Wheezy_ - Official 1366 xfce-CD Binary-1 2S
# deb cdrom:[Debian GNU/Linux 7.3.0 _Wheezy_ - Official 1366 xfce-CD Binary-1 20S
# deb http://security.debian.org/ wheezy/updates main
# deb-src http://security.debian.org/ wheezy/updates main
# wheezy-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://ftp.debian.org/debian/ wheezy-updates main
# deb-src http://ftp.debian.org/debian/ wheezy-updates main
# deb http://kambing.ui.ac.id/debian/ wheezy main contrib non-free
# deb http://kambing.ui.ac.id/debian/ wheezy-updates main contrib non-free
# deb http://kambing.ui.ac.id/debian-security/ wheezy/updates main contrib_non-free
```

Kemudian simpan dengan perintah `ctrl+o` lalu [enter], kemudian keluar dengan perintah `ctrl+x`.

```
File Name to Write: sources.list_
^G Get Help M-D DOS Format
^C Cancel M-M Mac Format
```

IX. Tahapan install samba

Lakukan instalasi samba dengan perintah **apt-get install samba**. Kemudian tekan “Y” untuk melanjutkan instalasi.

```
root@debian:/etc/apt# apt-get install samba
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  dbus libavahi-client3 libavahi-common-data libavahi-common3 libcups2
  libdbus-1-3 libfile-copy-recursive-perl libsystemd-login0 libtalloc2 libtdb1
  libwbclient0 samba-samba-common samba-common-bin tdb-tools update-inetd
Suggested packages:
  dbus-x11 cups-common openssh-inetd inet-superserver smbldap-tools ldb-tools
  ctdb
The following NEW packages will be installed:
  dbus libavahi-client3 libavahi-common-data libavahi-common3 libcups2
  libdbus-1-3 libfile-copy-recursive-perl libsystemd-login0 libtalloc2 libtdb1
  libwbclient0 samba-samba-common samba-common-bin tdb-tools update-inetd
0 upgraded, 16 newly installed, 0 to remove and 12 not upgraded.
Need to get 9,314 kB of archives.
After this operation, 46.4 MB of additional disk space will be used.
Do you want to continue [Y/n]? Y
```

Seperti berikut, ini maksudnya adalah file yang di install berukuran 9MB dan setelah di lakukan install membutuhkan ukuran disk 46 MB.

```
Need to get 9,314 kB of archives.
After this operation, 46.4 MB of additional disk space will be used.
Do you want to continue [Y/n]? Y
```

Tunggu beberapa menit, untuk system melakukan instalasi secara otomatis.

```
Do you want to continue [Y/n]? Y
Get:1 http://kambing.ui.ac.id/debian/ wheezy/main libavahi-common-data 1386 0.6.31-2 [132 kB]
Get:2 http://kambing.ui.ac.id/debian/ wheezy/main libavahi-common3 1386 0.6.31-2 [55.1 kB]
Get:3 http://kambing.ui.ac.id/debian/ wheezy/main libdbus-1-3 1386 1.6.8-1+deb7u4 [176 kB]
Get:4 http://kambing.ui.ac.id/debian/ wheezy/main libavahi-client3 1386 0.6.31-2 [58.7 kB]
4x [4 libavahi-client3 0 B/58.7 kB 0x] 46.2 kB/s 3min 13s
```

Finishing instalasi, seperti berikut :

```
Creating config file /etc/samba/smb.conf with new version
Setting up libfile-copy-recursive-perl (0.38-1) ...
Setting up update-inetd (4.43) ...
Setting up samba (2:3.6.6-6+deb7u2) ...
Generating /etc/default/samba...
Adding group 'sambashare' (GID 106) ...
Done.
update-alternatives: using /usr/bin/smbstatus.samba3 to provide /usr/bin/smbstatu
s (smbstatus) in auto mode
[ OK ] Starting Samba daemons: nmbd smbd.
Setting up samba-common-bin (2:3.6.6-6+deb7u2) ...
update-alternatives: using /usr/bin/nmblookup.samba3 to provide /usr/bin/nmblook
up (nmblookup) in auto mode
update-alternatives: using /usr/bin/net.samba3 to provide /usr/bin/net (net) in
auto mode
update-alternatives: using /usr/bin/testparm.samba3 to provide /usr/bin/testparm
(testparm) in auto mode
Setting up libsystemd-login0:1386 (44-11+deb7u4) ...
Setting up dbus (1.6.8-1+deb7u1) ...
[ OK ] Starting system message bus: dbus.
Setting up tdb-tools (1.2.10-2) ...
update-alternatives: using /usr/bin/tdbbackup.tdbtools to provide /usr/bin/tdbba
ckup (tdbbackup) in auto mode
root@debian:/etc/apt#
```

Selesai dan berikutnya adalah konfigurasi file sharing menggunakan samba.