



SEKOLAH TINGGI MANAJEMEN INFORMATIKA DAN KOMPUTER MUHAMMADIYAH JAKARTA

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Tanda tangan
Mahasiswa

Rhayeksa
Dewangga
Setiawan

1. uptodate, new version, dan lebih canggih

2. **NAT** : OS Virtual atau guest akan memiliki IP yang sama dengan host. Jika host terkoneksi dengan internet, maka secara otomatis guest juga akan terkoneksi dengan internet. NAT pada Virtual Box sama dengan NAT di jaringan fisik.

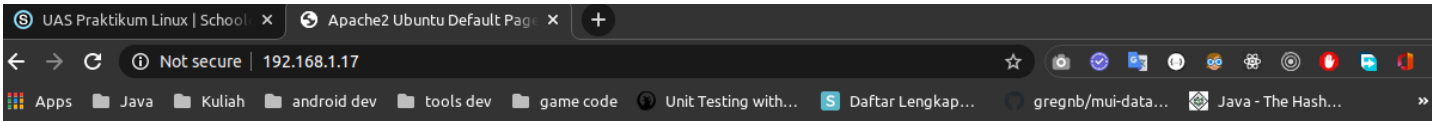
Bridged-adapter : Guest terhubung ke jaringan fisik dari host, Jadi guest seakan-akan muncul sebagai komputer fisik di jaringan yang terhubung dengan host. Guest akan terlihat di jaringan luar sama seperti host.

3. `angga@rhayeksa:~$ sudo apt install apache2`

```
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib/systemd/system/apache-htcacheclean.service.
Processing triggers for ufw (0.36-6) ...
Processing triggers for systemd (245.4-4ubuntu3.2) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9) ...
angga@rhayeksa:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.1.17 netmask 255.255.255.0 broadcast 192.168.1.255
    inet6 fe80::a00:27ff:fe7:8a97 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:f7:8a:97 txqueuelen 1000 (Ethernet)
    RX packets 11855 bytes 3325473 (3.3 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 1689 bytes 126200 (126.2 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

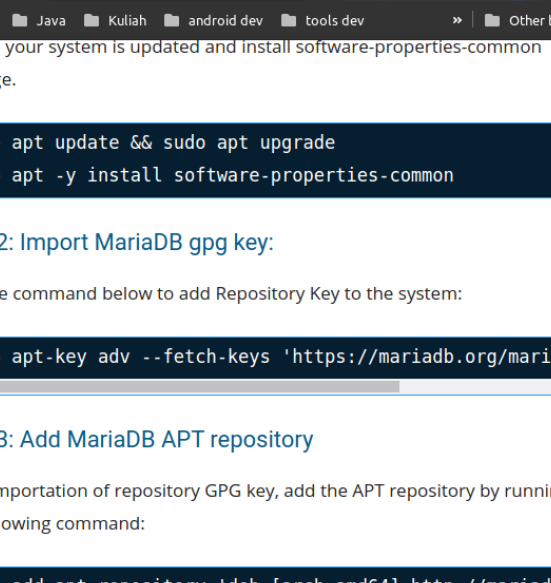
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 116 bytes 9542 (9.5 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 116 bytes 9542 (9.5 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

angga@rhayeksa:~$ _
```



```
angga@rhayeksa:~$ sudo apt install php7.4
```

```
angga@rhayeksa:~$ php -v
PHP 7.4.3 (cli) (built: May 26 2020 12:24:22) ( NTS )
Copyright (c) The PHP Group
Zend Engine v3.4.0, Copyright (c) Zend Technologies
    with Zend OPcache v7.4.3, Copyright (c), by Zend Technologies
angga@rhayeksa:~$ _
```



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Ensure your system is updated and install software-properties-common package.

```
sudo apt update && sudo apt upgrade
sudo apt -y install software-properties-common
```

Step 2: Import MariaDB gpg key:

Run the command below to add Repository Key to the system:

```
sudo apt-key adv --fetch-keys 'https://mariadb.org/mariadb...
```

Step 3: Add MariaDB APT repository

After importation of repository GPG key, add the APT repository by running the following command:

```
sudo add-apt-repository 'deb [arch=amd64] http://mariadb.mi...
```

Command execution output:

```

ubuntu server [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Processing triggers for systemd (245.4-4ubuntu3.2) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for dbus (1.12.16-2ubuntu2.1) ...
angga@rhayeksa:~$ sudo apt -y install software-properties-
software-properties-common software-properties-gtk software-properties-qt
angga@rhayeksa:~$ sudo apt -y install software-properties-common
Display all 71010 possibilities? (y or n)
angga@rhayeksa:~$ sudo apt -y install software-properties-common
Reading package lists... Done
Building dependency tree
Reading state information... Done
software-properties-common is already the newest version (0.98.9.2).
software-properties-common set to manually installed.
The following packages were automatically installed and are no longer required:
adwaita-icon-theme at-spi2-core fontconfig gtk-update-icon-cache hicolor-icon-theme
libadwaita-1-0 libappindicator3-1 libatk-bridge2.0-0 libatk1.0-0 libatk1.0-data
libatspi2.0-0 libauthen-sasl-perl libcairo-gobject2 libcairo2 libcgl-fast-perl libcolord2
libcolord2 libdata-dump-perl libdialog1 libdbusmenu-glib4 libdbusmenu-gtk3-4
libencode-locale-perl libepoxy0 libevent-core-2.1-7 libfcgi-perl libfile-basedir-perl
libfile-desktopentry-perl libfile-listing-perl libfile-mimeinfo-perl libfont-afm-perl
libgdk-pixbuf2.0-0 libgdk-pixbuf2.0-bin libgdk-pixbuf2.0-common libgraphite2-3 libgtk-3-0
libgtk-3-bin libgtk-3-common libharfbuzz0b libhtml-form-perl libhtml-format-perl
libhtml-parser-perl libhtml-tagset-perl libhtml-template-perl libhtml-tree-perl
libhttp-cookies-perl libhttp-daemon-perl libhttp-date-perl libhttp-message-perl
libhttp-negotiate-perl libio-html-perl libio-socket-ssl-perl libio-stringy-perl
libipc-system-simple-perl libjbig0 liblwp-mediatypes-perl liblwp-protocol-https-perl
libmailtools-perl libmecab2 libnet-dbus-perl libnet-http-perl libnet-smtp-ssl-perl
libnet-ssleay-perl libpango-1.0-0 libpangocairo-1.0-0 libpangoft2-1.0-0 libpixman-1-0
librest-0-7-0 librsvg2-2 librsvg2-common libsoup-gnome2.4-1 libthai-data libthai0
libtie-ixhash-perl libtiff5 libtimedate-perl libtiny-perl libu2f-udev liburi-perl
libwayland-cursor0 libwayland-egl1 libwayland-server0 libwebp6 libxwayland-perl
libwww-robotrules-perl libxml1-protocol-perl libxcb-render0 libxcb-shm0 libxcursor1
libxml1-parser-perl libxml2-twig-perl libxml-xpathengine-perl libxss1 mecab-ipadic
mecab-ipadic-utf8 mecab-utils perl-openssl-defaults ubuntu-mono x11-xserver-utils x
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
angga@rhayeksa:~$ _

```

```

... Success!

By default, MariaDB comes with a database named 'test' that anyone can
access. This is also intended only for testing, and should be removed
before moving into a production environment.

Remove test database and access to it? [Y/n] y
- Dropping test database...
... Success!
- Removing privileges on test database...
... Success!

Reloading the privilege tables will ensure that all changes made so far
will take effect immediately.

Reload privilege tables now? [Y/n] y
... Success!

Cleaning up...

All done! If you've completed all of the above steps, your MariaDB
installation should now be secure.

Thanks for using MariaDB!
angga@rhayeksa:~$ mysql -u root
ERROR 1698 (28000): Access denied for user 'root'@'localhost'
angga@rhayeksa:~$ mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 56
Server version: 10.5.5-MariaDB-1:10.5.5+maria~focal mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]>

```

4. ketik commend ifconfig, bila seperti ini maka ifconfig belum terinstall, sekarang install dengan commend yang di sarankan yakni sudo apt install net-tools

```

angga@rhayeksa:~$ ifconfig

Command 'ifconfig' not found, but can be installed with:

sudo apt install net-tools

angga@rhayeksa:~$ _

```

setelah proses instalasi selesai ketik commend ifconfig kembali maka akan muncul IP komputer kita

```
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  net-tools
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 196 kB of archives.
After this operation, 864 kB of additional disk space will be used.
Get:1 http://id.archive.ubuntu.com/ubuntu focal/main amd64 net-tools amd64 1.60+git20180626.aebd88e-1ubuntu1 [196 kB]
Fetched 196 kB in 1s (210 kB/s)
Selecting previously unselected package net-tools.
(Reading database ... 121943 files and directories currently installed.)
Preparing to unpack .../net-tools_1.60+git20180626.aebd88e-1ubuntu1_amd64.deb ...
Unpacking net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Setting up net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Processing triggers for man-db (2.9.1-1) ...
angga@rhayeksa:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
    inet 192.168.1.17  netmask 255.255.255.0  broadcast 192.168.1.255
    inet6 fe80::a00:27ff:fe7f:8a97  prefixlen 64  scopeid 0x20<link>
    ether 08:00:27:f7:8a:97  txqueuelen 1000  (Ethernet)
    RX packets 8501  bytes 821807 (821.8 KB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 442  bytes 38938 (38.9 KB)
    TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
    inet 127.0.0.1  netmask 255.0.0.0
    inet6 ::1  prefixlen 128  scopeid 0x10<host>
    loop txqueuelen 1000  (Local Loopback)
    RX packets 102  bytes 8122 (8.1 KB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 102  bytes 8122 (8.1 KB)
    TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

angga@rhayeksa:~$ _
```

5. Vim : - Sulit untuk memulai dan menguasai. Mode pengeditan dan perintah akan membingungkan pemula.

- Pemulihan sesi
- Layar terpisah
- Perluasan tab
- Perintah penyelesaian
- Pewarnaan sintaks

Nano : - Mudah digunakan dan dikuasai.

- Nano memiliki sebagian besar pintasan yang tercantum di bagian bawah jendela, membuatnya sangat mudah digunakan.
- Fungsi pencarian
- Cari dan ganti
- Perintah "Goto line"
- Lakukan otomatis

Emacs : - Copy/paste yang sama untuk semua file.

- Emacs menyimpan semua Argument history, seperti perintah - perintah apa saja yang digunakan, file - file apa saja yang dibuka, apa saja yang di search.
- Jika kita menggunakan banyak kustomisasi, biasanya memulai instance baru memakan waktu.