

PRAKTIKUM SISTEM OPERASI MODUL 12

Remastering Ubuntu



Disusun oleh :

Risyma Muti' S.A

L200210228

Program Studi Teknik Informatika

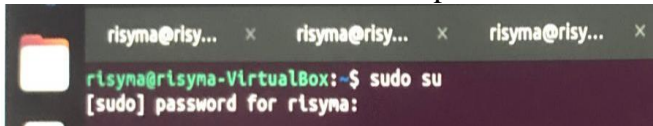
Fakultas Komunikasi dan Informatika

Universitas Muhammadiyah Surakarta Tahun 2023

BAB 1

CARA REMASTERING UBUNTU

1. Buka file Ubuntu yang akan digunakan untuk *remastering*.
2. Buka terminal pada Ubuntu.
3. Ketik *sudo su* lalu masukkan password anda.



4. Lalu ketik *sudo apt update*, tunggu proses update hingga selesai.

```
root@shela-VirtualBox:/home/shela# sudo apt update
Hit:1 http://id.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://id.archive.ubuntu.com/ubuntu jammy-updates InRelease [114 kB]
Get:3 http://id.archive.ubuntu.com/ubuntu jammy-backports InRelease [99,8 kB]
Get:4 http://id.archive.ubuntu.com/ubuntu jammy-updates/main i386 Packages [400 kB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:6 http://id.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [791 kB]
Get:7 http://id.archive.ubuntu.com/ubuntu jammy-updates/main amd64 DEP-11 Metadata [97,1 kB]
Get:8 http://id.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [515 kB]
Hit:9 https://ppa.launchpadcontent.net/cubic-wizard/release/ubuntu jammy InRelease
Get:10 http://id.archive.ubuntu.com/ubuntu jammy-updates/restricted i386 Packages [26,0 kB]
Get:11 http://id.archive.ubuntu.com/ubuntu jammy-updates/universe i386 Packages [557 kB]
Get:12 http://id.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [781 kB]
Get:13 http://id.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 DEP-11 Metadata [258 kB]
Get:14 http://id.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 DEP-11 Metadata [940 B]
Get:15 http://id.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 DEP-11 Metadata [11,4 kB]
Get:16 http://security.ubuntu.com/ubuntu jammy-security/main amd64 DEP-11 Metadata [41,6 kB]
Get:17 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 DEP-11 Metadata [13,3 kB]
Fetched 3.815 kB in 6s (679 kB/s)
```

5. Setelah itu ketik *sudo apt upgrade*.

```
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
217 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@shela-VirtualBox:/home/shela# sudo apt -y install cubic
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
cubic is already the newest version (2022.12-74-release-202212012321-ubuntu22.04.1).
The following package was automatically installed and is no longer required:
  systemd-hwe-hwdb
Use 'sudo apt autoremove' to remove it.
0 upgraded, 0 newly installed, 0 to remove and 217 not upgraded.
```

6. Untuk melakukan *remastering* kita menggunakan aplikasi *Cubic*, untuk menginstall aplikasi tersebut kita mengetikkan *sudo apt-add-repository ppa:cubic-wizard/release*.

```
Repository: 'deb https://ppa.launchpadcontent.net/cubic-wizard/release/ubuntu/ jammy main'
Description:
PPA for Cubic release branch

  ///
 ///
///
///
///
///
///
///
///
///
Custom Ubuntu ISO Creator

Cubic (Custom Ubuntu ISO Creator) is a GUI wizard to create a customized Ubuntu Live ISO image.

More info: https://launchpad.net/cubic
More info: https://launchpad.net/~cubic-wizard/+archive/ubuntu/release
Adding repository.
Press [ENTER] to continue or Ctrl-c to cancel.
Found existing deb entry in /etc/apt/sources.list.d/cubic-wizard-ubuntu-release-jammy.list
Adding deb entry to /etc/apt/sources.list.d/cubic-wizard-ubuntu-release-jammy.list
Found existing deb-src entry in /etc/apt/sources.list.d/cubic-wizard-ubuntu-release-jammy.list
Adding disabled deb-src entry to /etc/apt/sources.list.d/cubic-wizard-ubuntu-release-jammy.list
Adding key to /etc/apt/trusted.gpg.d/cubic-wizard-ubuntu-release.gpg with fingerprint B7579F80E494ED3406A59DF9081525E2B4F1283B
Hit:1 http://id.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://id.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://id.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu jammy-security InRelease
Hit:5 https://ppa.launchpadcontent.net/cubic-wizard/release/ubuntu jammy InRelease
Reading package lists... Done
```

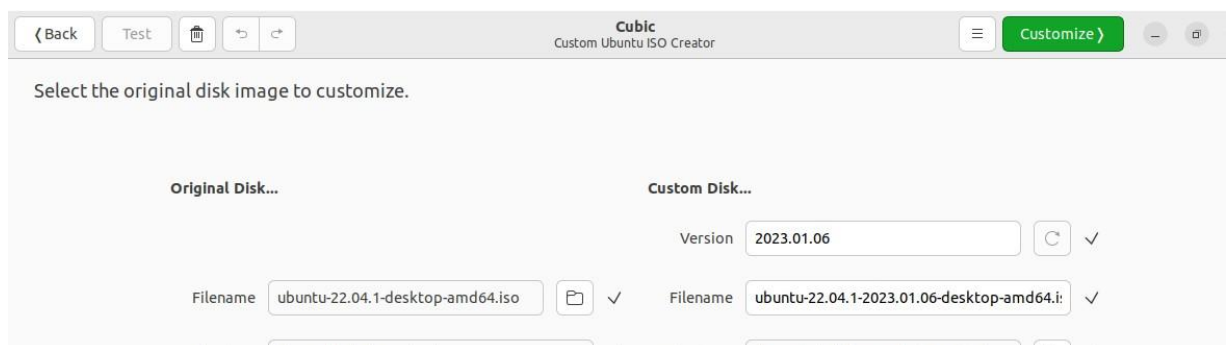
7. Setelah itu masukkan kode *sudo apt -y install cubic*, dimana kode ini digunakan untuk menginstall aplikasi *Cubic*. Tunggu hingga proses instalasi selesai.

```
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
cubic is already the newest version (2022.12-74-release-202212012321-ubuntu22.04.1).
The following package was automatically installed and is no longer required:
  systemd-hwe-hwdb
Use 'sudo apt autoremove' to remove it.
```

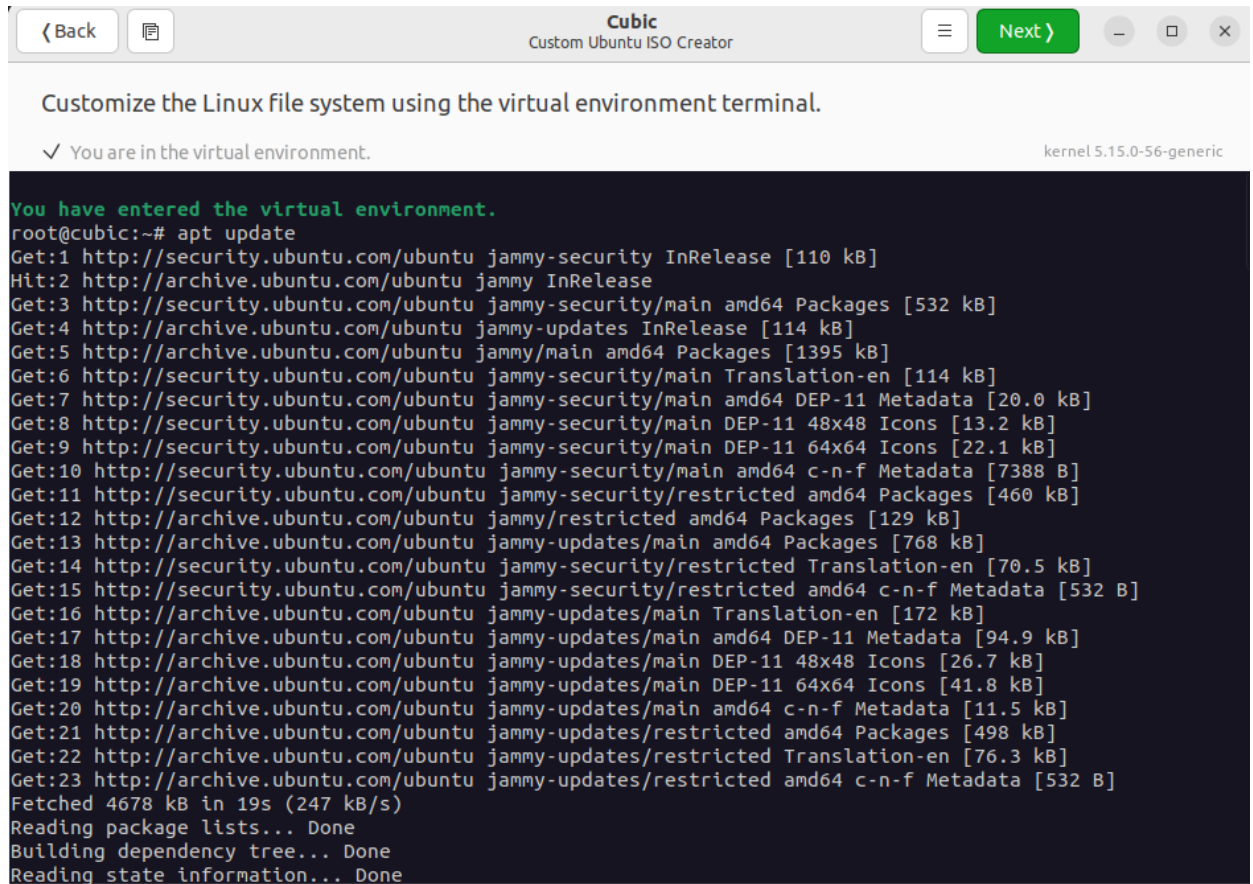
8. Jika proses instalasi *Cubic* selesai kita akan diarahkan untuk memilih folder yang akan digunakan dalam *remastering*.



9. Lalu memilih original disk yang akan di customize dan mengatur informasi disk baru yang akan dibuat. Cd



10. Jika sudah terminal dari Cubic akan terbuka. Ketik *apt update*, dan tunggu hingga proses selesai.



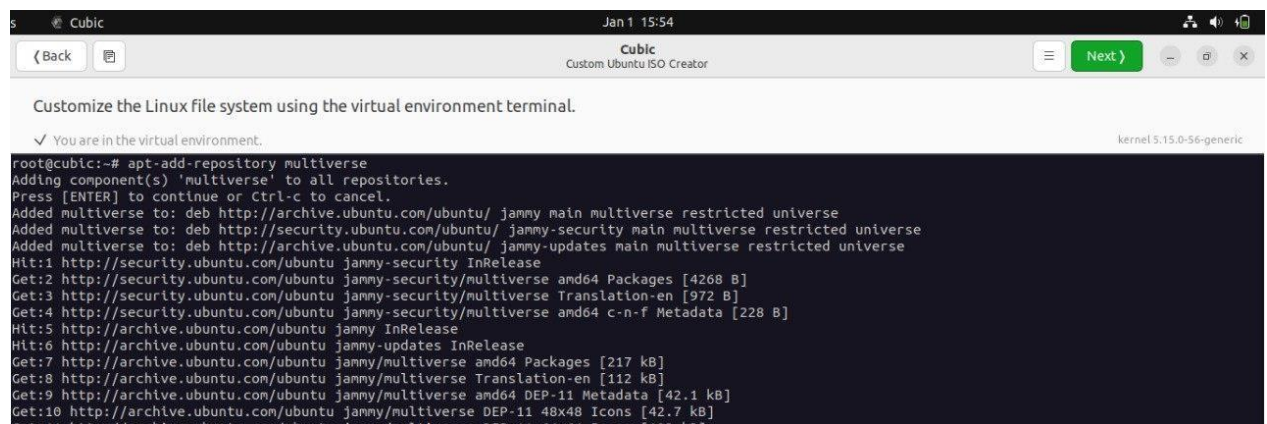
The screenshot shows the Cubic Custom Ubuntu ISO Creator application window. The title bar includes a 'Back' button, a file icon, the text 'Cubic Custom Ubuntu ISO Creator', a menu icon, a 'Next >' button, and standard window controls. The main content area has a header 'Customize the Linux file system using the virtual environment terminal.' and a status bar indicating '✓ You are in the virtual environment.' and 'kernel 5.15.0-56-generic'. A terminal window is open, displaying the following text:

```
You have entered the virtual environment.
root@cubic:~# apt update
Get:1 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Hit:2 http://archive.ubuntu.com/ubuntu jammy InRelease
Get:3 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [532 kB]
Get:4 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [114 kB]
Get:5 http://archive.ubuntu.com/ubuntu jammy/main amd64 Packages [1395 kB]
Get:6 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [114 kB]
Get:7 http://security.ubuntu.com/ubuntu jammy-security/main amd64 DEP-11 Metadata [20.0 kB]
Get:8 http://security.ubuntu.com/ubuntu jammy-security/main DEP-11 48x48 Icons [13.2 kB]
Get:9 http://security.ubuntu.com/ubuntu jammy-security/main DEP-11 64x64 Icons [22.1 kB]
Get:10 http://security.ubuntu.com/ubuntu jammy-security/main amd64 c-n-f Metadata [7388 B]
Get:11 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [460 kB]
Get:12 http://archive.ubuntu.com/ubuntu jammy/restricted amd64 Packages [129 kB]
Get:13 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [768 kB]
Get:14 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [70.5 kB]
Get:15 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 c-n-f Metadata [532 B]
Get:16 http://archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [172 kB]
Get:17 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 DEP-11 Metadata [94.9 kB]
Get:18 http://archive.ubuntu.com/ubuntu jammy-updates/main DEP-11 48x48 Icons [26.7 kB]
Get:19 http://archive.ubuntu.com/ubuntu jammy-updates/main DEP-11 64x64 Icons [41.8 kB]
Get:20 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [11.5 kB]
Get:21 http://archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [498 kB]
Get:22 http://archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [76.3 kB]
Get:23 http://archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 c-n-f Metadata [532 B]
Fetched 4678 kB in 19s (247 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```


11. Ketik *add-apt-repository universe*.

```
root@cubic:~# add-apt-repository universe
Adding component(s) 'universe' to all repositories.
Press [ENTER] to continue or Ctrl-c to cancel.
Added universe to: deb http://archive.ubuntu.com/ubuntu/ jammy universe main restricted
Added universe to: deb http://security.ubuntu.com/ubuntu/ jammy-security universe main restricted
Added universe to: deb http://archive.ubuntu.com/ubuntu/ jammy-updates universe main restricted
Hit:1 http://security.ubuntu.com/ubuntu jammy-security InRelease
Hit:2 http://archive.ubuntu.com/ubuntu jammy InRelease
Get:3 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [622 kB]
Hit:4 http://archive.ubuntu.com/ubuntu jammy-updates InRelease
Get:5 http://archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:6 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [82.9 kB]
Get:7 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 DEP-11 Metadata [13.3 kB]
Get:8 http://security.ubuntu.com/ubuntu jammy-security/universe DEP-11 48x48 Icons [5769 B]
Get:9 http://security.ubuntu.com/ubuntu jammy-security/universe DEP-11 64x64 Icons [12.3 kB]
Get:10 http://security.ubuntu.com/ubuntu jammy-security/universe DEP-11 64x64@2 Icons [29 B]
Get:11 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [11.0 kB]
Get:12 http://archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
```

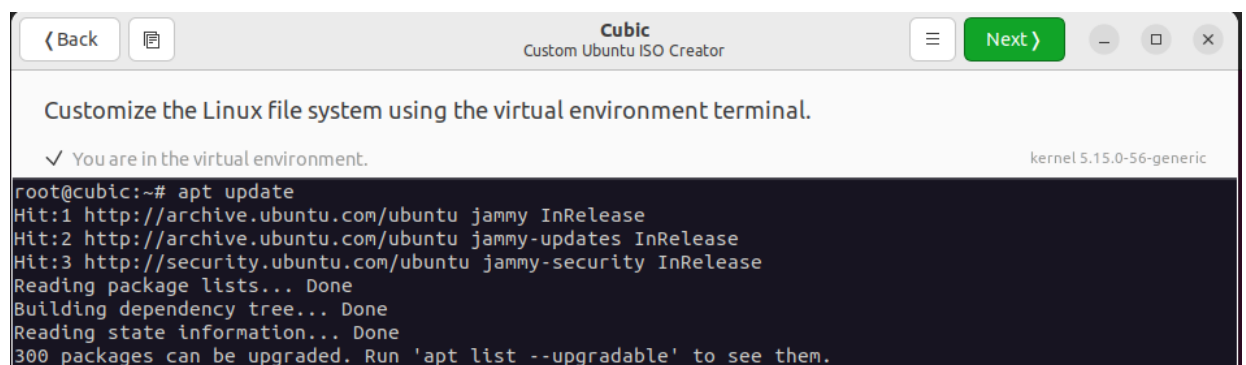
12. Ketik *add-apt-repository multiverse*.



The screenshot shows the Cubic Custom Ubuntu ISO Creator window. The terminal displays the command `apt-add-repository multiverse` and its output, which adds the multiverse repository to the system. The output includes the repository URL, the component 'multiverse', and the packages being added. The window also shows a 'Next >' button and a 'Back' button.

```
root@cubic:~# apt-add-repository multiverse
Adding component(s) 'multiverse' to all repositories.
Press [ENTER] to continue or Ctrl-c to cancel.
Added multiverse to: deb http://archive.ubuntu.com/ubuntu/ jammy main multiverse restricted universe
Added multiverse to: deb http://security.ubuntu.com/ubuntu/ jammy-security main multiverse restricted universe
Added multiverse to: deb http://archive.ubuntu.com/ubuntu/ jammy-updates main multiverse restricted universe
Hit:1 http://security.ubuntu.com/ubuntu jammy-security InRelease
Get:2 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [4268 B]
Get:3 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [972 B]
Get:4 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [228 B]
Hit:5 http://archive.ubuntu.com/ubuntu jammy InRelease
Hit:6 http://archive.ubuntu.com/ubuntu jammy-updates InRelease
Get:7 http://archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:8 http://archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:9 http://archive.ubuntu.com/ubuntu jammy/multiverse amd64 DEP-11 Metadata [42.1 kB]
Get:10 http://archive.ubuntu.com/ubuntu jammy/multiverse DEP-11 48x48 Icons [42.7 kB]
```

13. Ketik *apt update*.



The screenshot shows the Cubic Custom Ubuntu ISO Creator window. The terminal displays the command `apt update` and its output, which updates the package lists and the dependency tree. The output indicates that 300 packages can be upgraded. The window also shows a 'Next >' button and a 'Back' button.

```
root@cubic:~# apt update
Hit:1 http://archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://security.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
300 packages can be upgraded. Run 'apt list --upgradable' to see them.
```

14. Ketik *python3 -V* untuk mengetahui python versi berapa yang terdapat dalam Ubuntu.

```
root@cubic:~# python3 -V
Python 3.10.4
```

15. Lalu kita melakukan install aplikasi yang nantinya akan ditampilkan dalam Ubuntu yang terbaru.

a. Menginstall aplikasi Apache dengan cara *apt install apache2*

```
root@cubic:~# apt install peek
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  ffmpeg gcc-12-base gstreamer1.0-plugins-ugly i965-va-driver intel-media-va-driver liba52-0.7.4 libaacs0 libaom3 libass9
  libavcodec58 libavdevice58 libavfilter7 libavformat58 libavutil56 libbdplus0 libblas3 libbluray2 libbs2b0 libchromaprint1
  libcodec2-1.0 libdav1d5 libdc1394-25 libdecor-0-0 libdecor-0-plugin-1-cairo libdvdread8 libflite1 libgcc-s1 libgfortran5 libgme0
  libgomp1 libgsm1 libigdgmm12 libkeybinder-3.0-0 liblapack3 liblilv-0-0 libmfx1 libmpeg2-4 libmysofa1 libnorm1 libopenal-data
  libopenal1 libopencore-amrnb0 libopencore-amrwb0 libopenmpt0 libpgm-5.3-0 libpocketsphinx3 libpostproc55 libquadmath0
  librabbitmq4 librubberband2 libSDL2-2.0-0 libserd-0-0 libshine3 libsidplay1v5 libsnappy1v5 libsndio7.0 libsoxr0-0 libspatialaudio0
  libssh-gcrypt-4 libssh-4 libssh-gcrypt-4 libstdc++6 libswresample3 libswscale5 libudfread0 libva-drm2 libva-x11-2 libva2
  libvdpau1 libvidstab1.1 libx264-163 libx265-199 libxvidcore4 libzim2 libzmq5 libzvt-common libzvt0 mesa-va-drivers
  mesa-vdpau-drivers ocl-icd-libopencl1 pocketsphinx-en-us va-driver-all vdpau-driver-all
Suggested packages:
  ffmpeg-doc i965-va-driver-shaders libcuda1 libnvcuvid1 libnvidia-encode1 libbluray-bdj libdvdcss2 libportaudio2 serdi
  sndiod-base sndiod sordi openc1-icd gifsli libvdpau-va-gli
The following NEW packages will be installed:
  ffmpeg gstreamer1.0-plugins-ugly i965-va-driver intel-media-va-driver liba52-0.7.4 libaacs0 libaom3 libass9 libavcodec58
  libavdevice58 libavfilter7 libavformat58 libavutil56 libbdplus0 libblas3 libbluray2 libbs2b0 libchromaprint1 libcodec2-1.0
  libdav1d5 libdc1394-25 libdecor-0-0 libdecor-0-plugin-1-cairo libdvdread8 libflite1 libgfortran5 libgme0 libgsm1 libigdgmm12
  libkeybinder-3.0-0 liblapack3 liblilv-0-0 libmfx1 libmpeg2-4 libmysofa1 libnorm1 libopenal-data libopenal1 libopencore-amrnb0
  libopencore-amrwb0 libopenmpt0 libpgm-5.3-0 libpocketsphinx3 libpostproc55 libquadmath0 librabbitmq4 librubberband2 libSDL2-2.0-0
  libserd-0-0 libshine3 libsidplay1v5 libsnappy1v5 libsndio7.0 libsoxr0-0 libspatialaudio0 libssh-gcrypt-4 libssh-4 libssh-gcrypt-4
  libswresample3 libswscale5 libudfread0 libva-drm2 libva-x11-2 libva2 libvdpau1 libvidstab1.1 libx264-163
  libx265-199 libxvidcore4 libzim2 libzmq5 libzvt-common libzvt0 mesa-va-drivers mesa-vdpau-drivers ocl-icd-libopencl1 peek
  pocketsphinx-en-us va-driver-all vdpau-driver-all
The following packages will be upgraded:
  gcc-12-base libgcc-s1 libgomp1 libstdc++6
4 upgraded, 80 newly installed, 0 to remove and 310 not upgraded.
Need to get 88.3 MB of archives.
```

b. Menginstall aplikasi VLC dengan cara *apt install vlc*

```
o such file or directory"
root@cubic:~# apt install vlc
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  i965-va-driver intel-media-va-driver liba52-0.7.4 libaacs0 libaom3 libaribb24-0 libass9 libavcodec58 libavformat58 libavutil56
  libbdplus0 libbluray2 libcdcb2 libchromaprint1 libcodec2-1.0 libdav1d5 libdc1394-25 libdca0 libdouble-conversion3 libdvbpsi10
  libdvnav4 libdvdread8 libebml5 libfaad2 libgme0 libgsm1 libigdgmm12 libixml10 libkate1 liblua5.2-0 libmad0 libmatroska7 libmd4c0
  libmfx1 libmpcdec6 libmpeg2-4 libmysofa1 libnorm1 libopenmpt-modplug1 libopenmpt0 libpcre2-16-0 libpgm-5.3-0 libplacebo192
  libpostproc55 libprotobuf-lite23 libproxy-tools libqt5core5a libqt5dbus5 libqt5gui5 libqt5network5 libqt5svg5 libqt5widgets5
  libqt5x11extras5 librabbitmq4 libresid-builder0c2a libSDL-image1.2 libSDL1.2debian libshine3 libsidplay2 libsnappy1v5 libsndio7.0
  libspatialaudio0 libsr1.4-gnutls libssh-gcrypt-4 libssh2-1 libswresample3 libswscale5 libudfread0 libupnp13 libva-drm2
  libva-wayland2 libva-x11-2 libva2 libvdpau1 libvlc-bin libvlc5 libvlccore9 libx264-163 libx265-199 libxcb-composite0
  libxcb-xinerama0 libxcb-xinput0 libxvidcore4 libzmq5 libzvt-common libzvt0 mesa-va-drivers mesa-vdpau-drivers
  ocl-icd-libopencl1 qt5-gtk-platformtheme qttranslations5-l10n va-driver-all vdpau-driver-all vlc-bin vlc-data vlc-l10n
  vlc-plugin-access-extra vlc-plugin-base vlc-plugin-notify vlc-plugin-qt vlc-plugin-samba vlc-plugin-skins2
  vlc-plugin-video-output vlc-plugin-video-splitter vlc-plugin-visualization
Suggested packages:
  i965-va-driver-shaders libcuda1 libnvcuvid1 libnvidia-encode1 libbluray-bdj libdvdcss2 qt5-image-formats-plugins qtwayland5
  sndiod openc1-icd libvdpau-va-gli vlc-plugin-fluidsynth vlc-plugin-jack vlc-plugin-svg
The following NEW packages will be installed:
  i965-va-driver intel-media-va-driver liba52-0.7.4 libaacs0 libaom3 libaribb24-0 libass9 libavcodec58 libavformat58 libavutil56
  libbdplus0 libbluray2 libcdcb2 libchromaprint1 libcodec2-1.0 libdav1d5 libdc1394-25 libdca0 libdouble-conversion3 libdvbpsi10
  libdvnav4 libdvdread8 libebml5 libfaad2 libgme0 libgsm1 libigdgmm12 libixml10 libkate1 liblua5.2-0 libmad0 libmatroska7 libmd4c0
  libmfx1 libmpcdec6 libmpeg2-4 libmysofa1 libnorm1 libopenmpt-modplug1 libopenmpt0 libpcre2-16-0 libpgm-5.3-0 libplacebo192
  libpostproc55 libprotobuf-lite23 libproxy-tools libqt5core5a libqt5dbus5 libqt5gui5 libqt5network5 libqt5svg5 libqt5widgets5
  libqt5x11extras5 librabbitmq4 libresid-builder0c2a libSDL-image1.2 libSDL1.2debian libshine3 libsidplay2 libsnappy1v5 libsndio7.0
  libspatialaudio0 libsr1.4-gnutls libssh-gcrypt-4 libssh2-1 libswresample3 libswscale5 libudfread0 libupnp13 libva-drm2
  libva-wayland2 libva-x11-2 libva2 libvdpau1 libvlc-bin libvlc5 libvlccore9 libx264-163 libx265-199 libxcb-composite0
  libxcb-xinerama0 libxcb-xinput0 libxvidcore4 libzmq5 libzvt-common libzvt0 mesa-va-drivers mesa-vdpau-drivers
```


- c. Menginstall aplikasi Geany dengan cara *apt install geany*.

```
root@cubic:~# apt install geany
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  geany-common
Suggested packages:
  libvte9 doc-base
The following NEW packages will be installed:
  geany geany-common
0 upgraded, 2 newly installed, 0 to remove and 310 not upgraded.
Need to get 3298 kB of archives.
After this operation, 12.1 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu jammy/universe amd64 geany-common all 1.38-1 [2057 kB]
Get:2 http://archive.ubuntu.com/ubuntu jammy/universe amd64 geany amd64 1.38-1 [1241 kB]
Fetched 3298 kB in 14s (233 kB/s)
ERROR couldn't connect to zsys daemon: connection error: desc = "transport: Error while dialing dial unix /run/zsysd.sock: connect: n
o such file or directory"
Selecting previously unselected package geany-common.
(Reading database ... 209071 files and directories currently installed.)
Preparing to unpack .../geany-common_1.38-1_all.deb ...
Unpacking geany-common (1.38-1) ...
Selecting previously unselected package geany.
Preparing to unpack .../geany_1.38-1_amd64.deb ...
Unpacking geany (1.38-1) ...
Setting up geany-common (1.38-1) ...
Setting up geany (1.38-1) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu3) ...
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
```

- d. Menginstall aplikasi Brasero dengan cara *apt install brasero*.

```
root@cubic:~# apt install brasero
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  brasero-cdrkit brasero-common cdrdao dvdauthor growisofs libbrasero-media3-1 libburn4 libisofs6 libjte2 libperl4-corelibs-perl
  nautilus-extension-brasero wodim
Suggested packages:
  vcdimager libdvcss2 readon gstreamer1.0-plugins-bad cdrkit-doc
The following NEW packages will be installed:
  brasero brasero-cdrkit brasero-common cdrdao dvdauthor growisofs libbrasero-media3-1 libburn4 libisofs6 libjte2
  libperl4-corelibs-perl nautilus-extension-brasero wodim
0 upgraded, 13 newly installed, 0 to remove and 310 not upgraded.
Need to get 3465 kB of archives.
After this operation, 17.1 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libburn4 amd64 1.5.4-1 [162 kB]
Get:2 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libjte2 amd64 1.22-3build1 [27.0 kB]
Get:3 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libisofs6 amd64 1.5.4-1 [210 kB]
Get:4 http://archive.ubuntu.com/ubuntu jammy/universe amd64 brasero-common all 3.12.3-1 [1577 kB]
Get:5 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libbrasero-media3-1 amd64 3.12.3-1 [395 kB]
Get:6 http://archive.ubuntu.com/ubuntu jammy/universe amd64 brasero amd64 3.12.3-1 [186 kB]
Get:7 http://archive.ubuntu.com/ubuntu jammy/universe amd64 growisofs amd64 7.1-14build1 [61.6 kB]
Get:8 http://archive.ubuntu.com/ubuntu jammy/universe amd64 wodim amd64 9:1.1.11-3.2ubuntu1 [296 kB]
Get:9 http://archive.ubuntu.com/ubuntu jammy/universe amd64 brasero-cdrkit amd64 3.12.3-1 [37.0 kB]
Get:10 http://archive.ubuntu.com/ubuntu jammy/universe amd64 dvdauthor amd64 0.7.2-1build2 [182 kB]
Get:11 http://archive.ubuntu.com/ubuntu jammy/main amd64 libperl4-corelibs-perl all 0.004-2 [37.4 kB]
Get:12 http://archive.ubuntu.com/ubuntu jammy/universe amd64 nautilus-extension-brasero amd64 3.12.3-1 [15.8 kB]
Get:13 http://archive.ubuntu.com/ubuntu jammy/universe amd64 cdrdao amd64 1:1.2.4-2 [278 kB]
Fetched 3465 kB in 15s (234 kB/s)
ERROR couldn't connect to zsys daemon: connection error: desc = "transport: Error while dialing dial unix /run/zsysd.sock: connect: n
```


e. Menginstall aplikasi Inkscape dengan cara *apt install inkscape*.

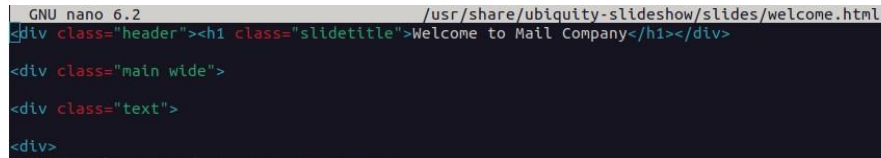
```
root@cubic:~# apt install inkscape
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  fig2dev gawk gsf fonts imagemagick imagemagick-6-common imagemagick-6.q16 lib2geom1.1.0 libde265-0 libfftw3-double3 libgsl27
  libgslcblas0 libheif1 libilmbase25 libimage-magick-perl libimage-magick-q16-perl libjxr-tools libjxr0 liblqr-1-0
  libmagick++-6.q16-8 libmagickcore-6.q16-6 libmagickcore-6.q16-6-extra libmagickwand-6.q16-6 libnetpbm10 libopenexr25 libpotrace0
  libsigsegv2 libwmf-bin netpbm python3-bs4 python3-html5lib python3-lxml python3-numpy python3-scour python3-soupsieve
  python3-webencodings
Suggested packages:
  xfig gawk-doc imagemagick-doc autotrace curl enscript gimp gnuplot grads graphviz hp2xx html2ps mplayer povray radiance
  texlive-base-bin ufraw-batch dia inkscape-tutorials libsvg-perl pstoeedit python3-uniconvertor ruby libfftw3-bin libfftw3-dev
  gsl-ref-psdoc | gsl-doc-pdf | gsl-doc-info | gsl-ref-html python3-genshi python-lxml-doc gcc gfortran python-numpy-doc
  python3-dev python3-pytest
The following NEW packages will be installed:
  fig2dev gawk gsf fonts imagemagick imagemagick-6-common imagemagick-6.q16 inkscape lib2geom1.1.0 libde265-0 libfftw3-double3
  libgsl27 libgslcblas0 libheif1 libilmbase25 libimage-magick-perl libimage-magick-q16-perl libjxr-tools libjxr0 liblqr-1-0
  libmagick++-6.q16-8 libmagickcore-6.q16-6 libmagickcore-6.q16-6-extra libmagickwand-6.q16-6 libnetpbm10 libopenexr25 libpotrace0
  libsigsegv2 libwmf-bin netpbm python3-bs4 python3-html5lib python3-lxml python3-numpy python3-scour python3-soupsieve
  python3-webencodings
0 upgraded, 36 newly installed, 0 to remove and 310 not upgraded.
Need to get 34.4 MB of archives.
After this operation, 147 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu jammy/main amd64 libsigsegv2 amd64 2.13-1ubuntu3 [14.6 kB]
Get:2 http://security.ubuntu.com/ubuntu jammy-security/main amd64 python3-numpy amd64 1:1.21.5-1ubuntu22.04.1 [3467 kB]
Get:3 http://archive.ubuntu.com/ubuntu jammy/main amd64 gawk amd64 1:5.1.0-1build3 [447 kB]
Get:4 http://archive.ubuntu.com/ubuntu jammy/universe amd64 imagemagick-6-common all 8:6.9.11.60+dfsg-1.3build2 [64.4 kB]
Get:5 http://archive.ubuntu.com/ubuntu jammy/main amd64 libfftw3-double3 amd64 3.3.8-2ubuntu8 [770 kB]
12% [5 libfftw3-double3 422 kB/770 kB 55%] 15.8 kB/s 31min 36s
```

16. Setelah itu kita mengganti icon

17. Lalu masuk ke Cubic lagi dan edit beberapa fitur dengan cara:

```
root@cubic:~# nano /etc/lsb-release
root@cubic:~# nano /etc/issue
root@cubic:~# nano /etc/issue.net
root@cubic:~# nano /usr/share/ubiquity-slideshow/slides/welcome.html
root@cubic:~#
```

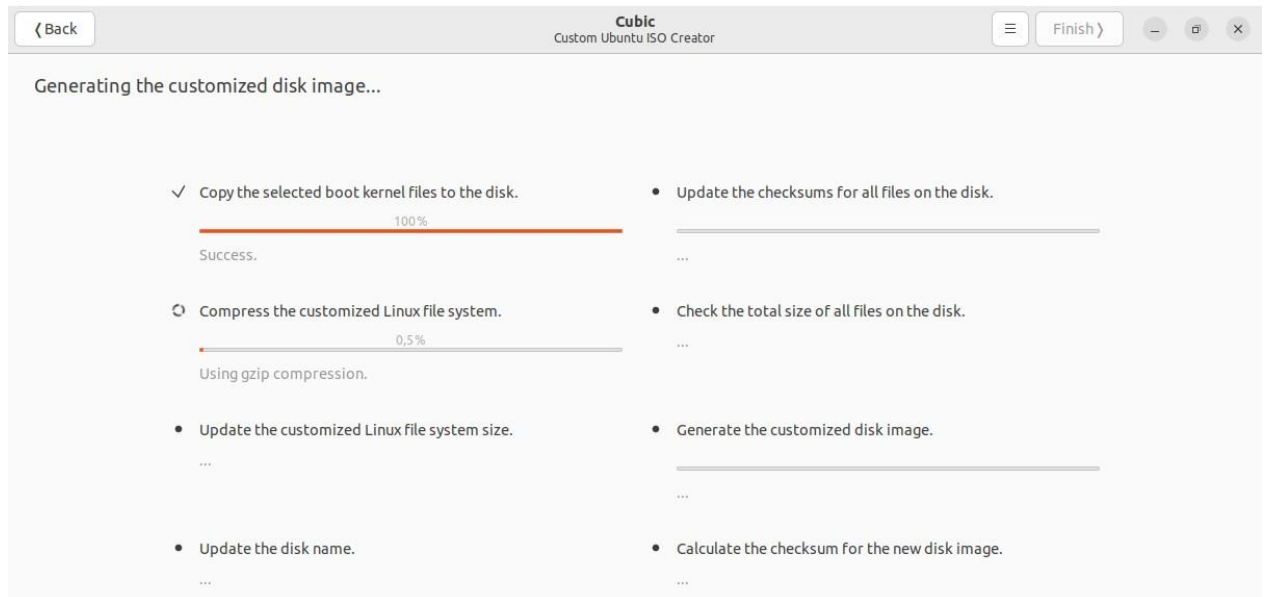
18. Untuk *nano /usr/share/ubiquity-slideshow/slides/welcome.html*, kami mengubah beberapa kata yang akan ditampilkan | class : D”. jangan lupa setelah selesai mengganti save dan keluar dengan cara ctrl+x.



```
GNU nano 6.2 /usr/share/ubiquity-slideshow/slides/welcome.html
<div class="header"><h1 class="slidetitle">Welcome to Mail Company</h1></div>
<div class="main wide">
<div class="text">
<div>
```

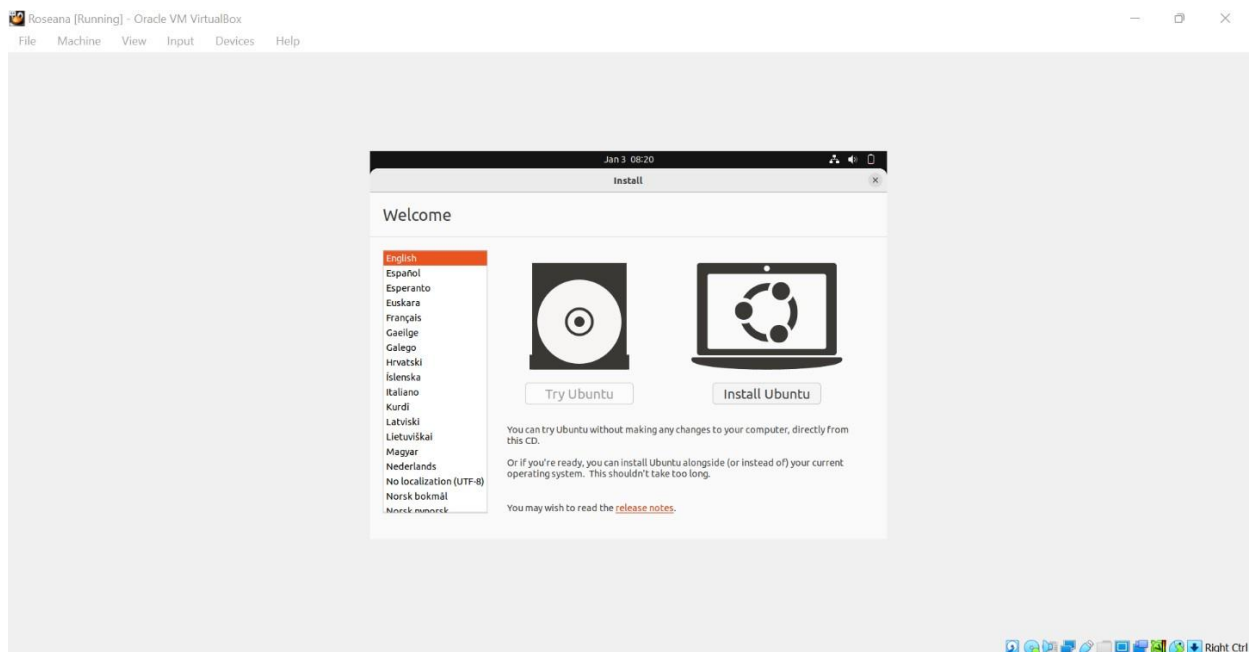
19. Setelah selesai klik next dan tunggu hingga proses selesai
20. Jika proses sudah selesai, masuk keterminal lagi untuk melihat isi folder *remastering* dengan cara ketik *ls*.

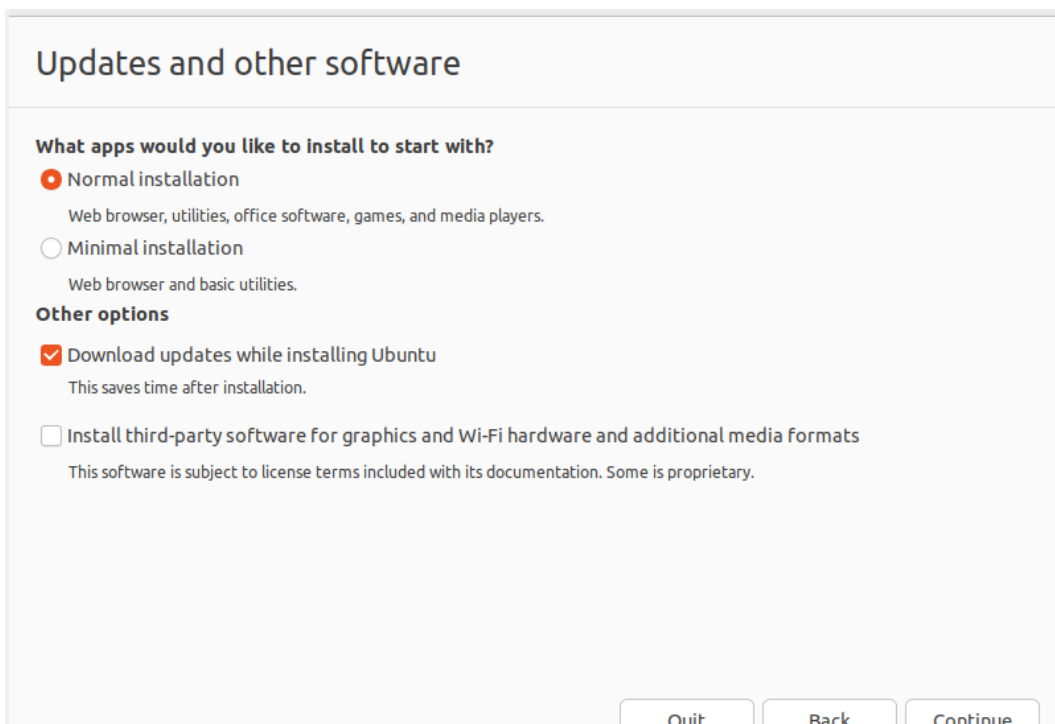
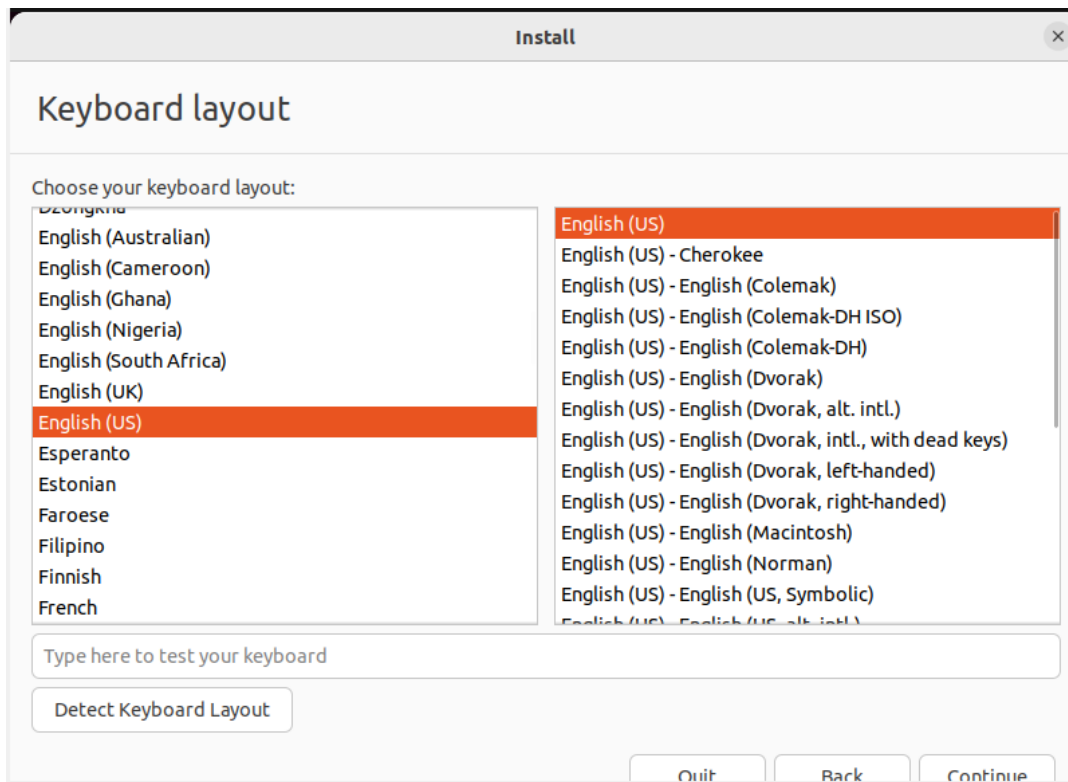
21. Jika program telah selesai pindahkan ISO yang sudah di *remastering* di dalam Ubuntu ke dalam windows untuk melanjutkan tahap berikutnya.

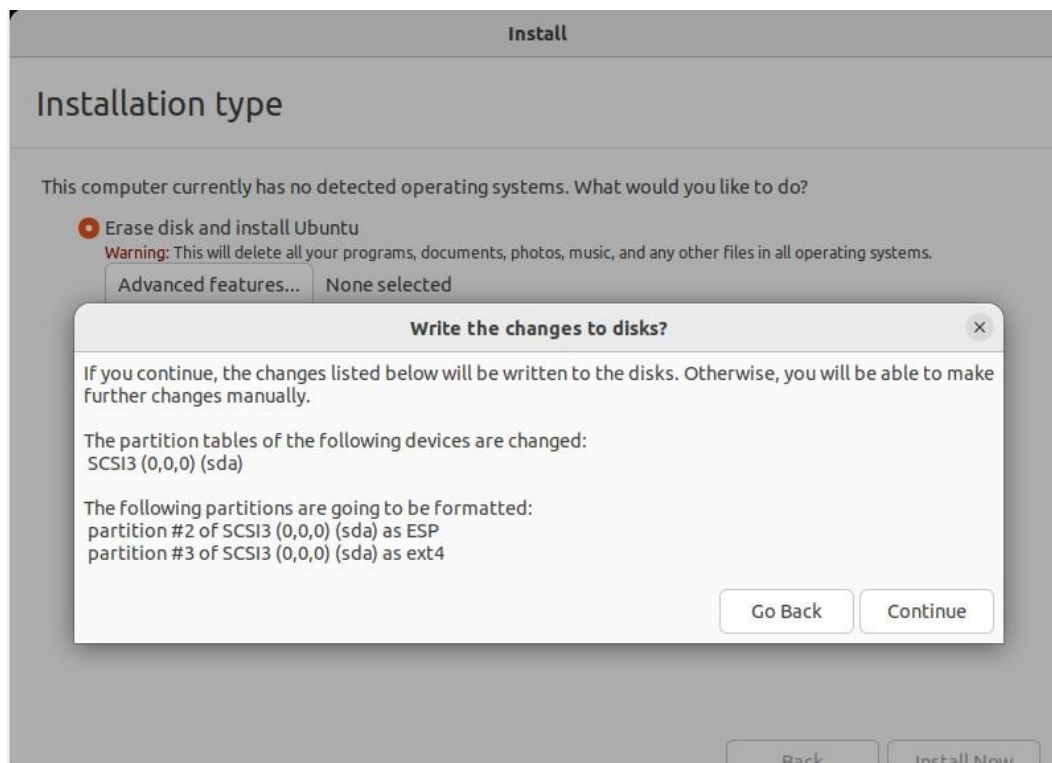
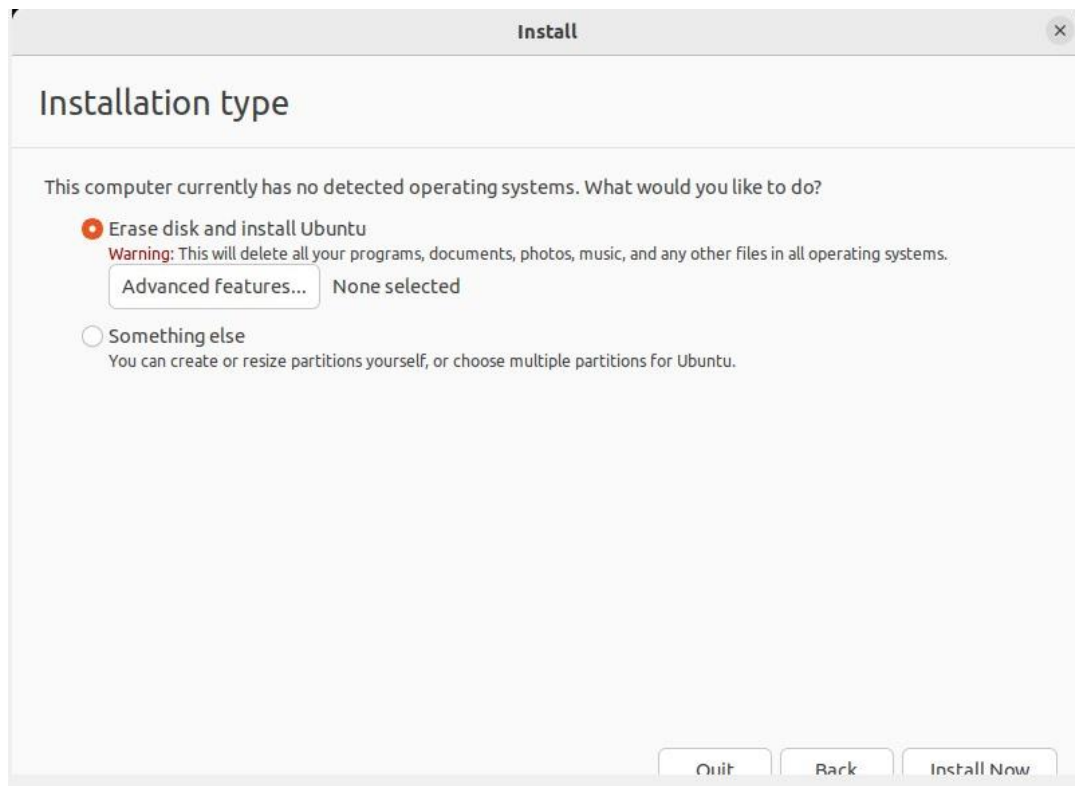


22. Masuk ke virtual box dan buat program Ubuntu baru. Untuk ISO Ubuntu gunakan ISO terbaru yaitu ISO Ubuntu yang sudah di *remastering*.

23. Berikut ini adalah langkah langkah dalam menginstall Ubuntu:

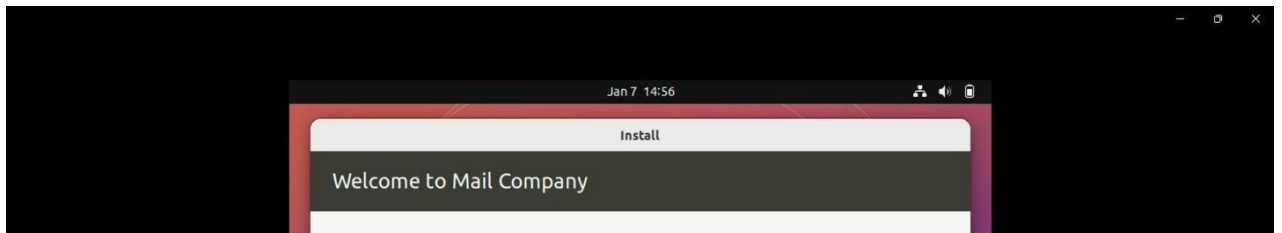




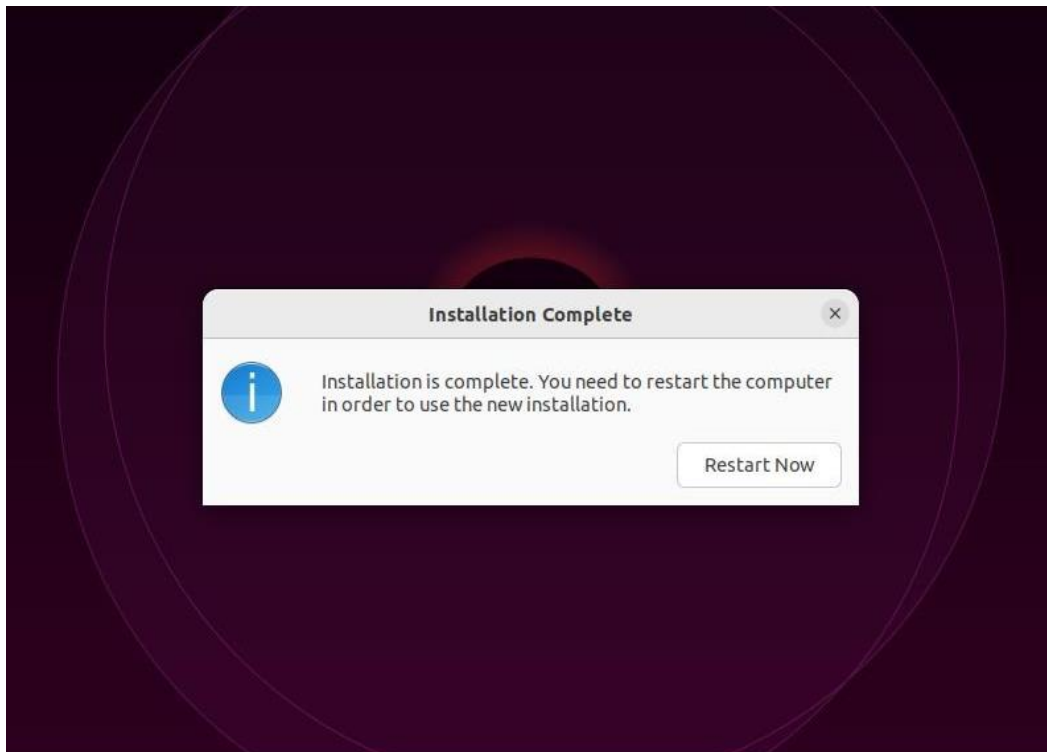


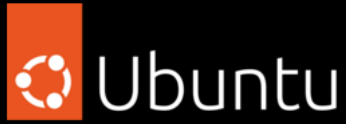


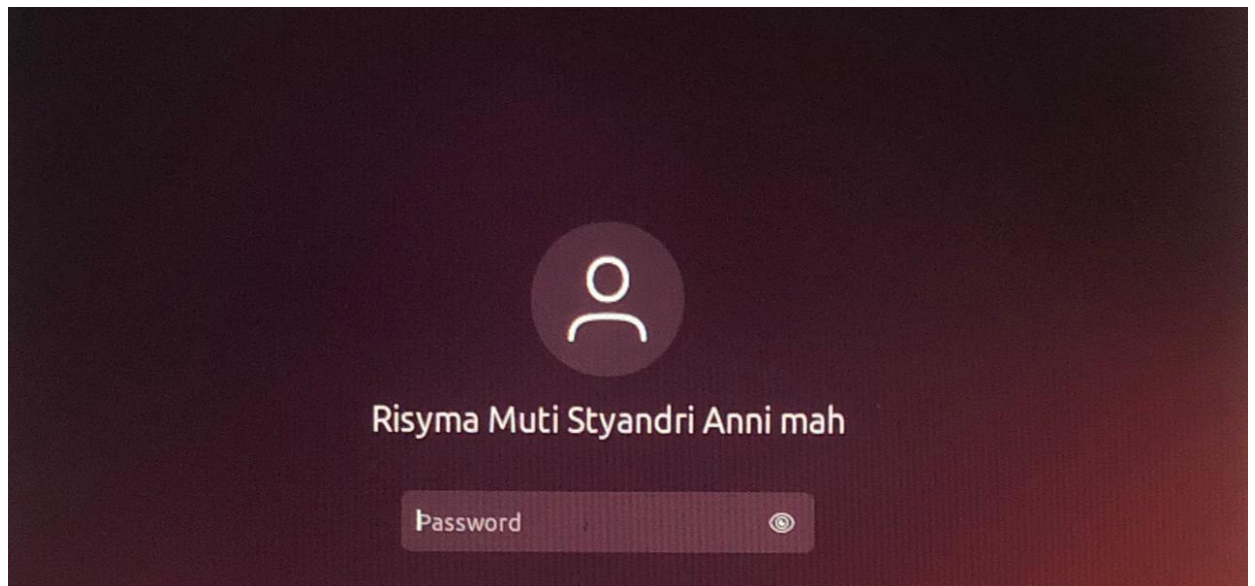
Lalu masuk pada tahap pengisian nama dan juga password yang digunakan untuk masuk ke dalam home Ubuntu.



Lalu file akan di copy ke dalam Ubuntu. Sebelumnya kita telah mengganti beberapa kata yang akan ditampilkan dengan menggunakan `nano /usr/share/ubiquity-slideshow/slides/welcome.html`, dan gambar diatas adalah hasil pengeditan.

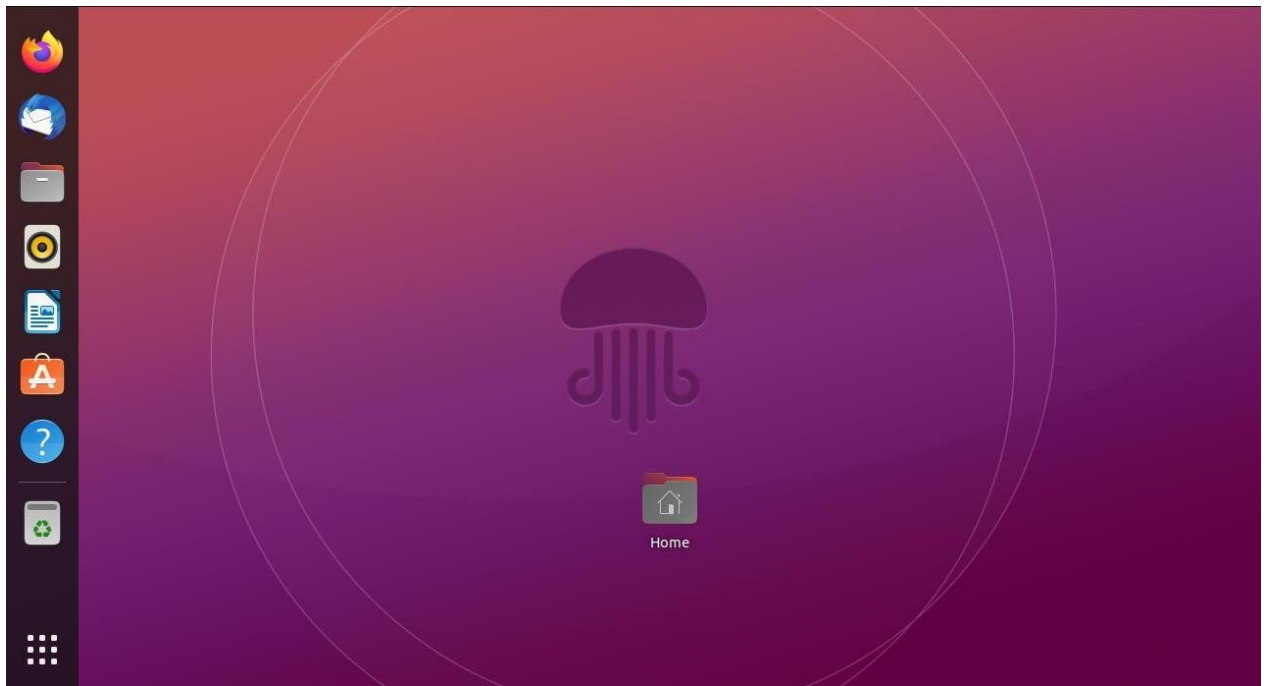






Untuk masuk ke dalam home Ubuntu kita harus memasukkan password yang telah kita tentukan sebelumnya.

24. Inilah tampilan dalam Ubuntu yang telah di *remastering*.



Bisa kita lihat bahwa wallpaper dalam Ubuntu sudah berganti.

25. Berikut ini beberapa aplikasi yang sudah kita install sebelumnya. Ada Peek, VLC, Brasero, Geany, dan Inkscape.

