

# **Laporan Praktikum 12**

## **Pengantar Open Source dan Aplikasi**

**“Manajemen Software dan Repository Distro Linux”**



Muhammad Azhar Rasyad

0110217029

Teknik Informatika 1

**Sekolah Tinggi Teknologi Terpadu Nurul Fikri**  
**2017**

# **Modul XII Manajemen Software dan Repository Distro Linux**

## **A. Tujuan**

1. Mampu menambah dan menghapus program di Linux melalui menu di desktop.
2. Mampu menambah dan menghapus program di Linux melalui terminal dengan perintah apt-get, dpkg, dan lain-lain.
3. Mampu mengubah konfigurasi repositori yang dipilih, melalui desktop maupun terminal.

## **B. Teori Singkat**

Menurut saya teori singkat mengenai modul ini, yaitu :

Untuk memudahkan dalam melakukan instalasi, menghapus, upgrade dan konfigurasi software, Ubuntu menggunakan kumpulan tool software yang disebut dengan sistem manajemen paket.

Sistem manajemen paket memiliki database software yang disebut repositori dimana software individu disusun menjadi kumpulan software yang disebut paket. Paket - paket ini berisi informasi penting tentang software itu sendiri, seperti nama software, deskripsi, versi, nama vendor, dan daftar berbagai ketergantungan agar software tersebut dapat diinstall dengan tepat. Sistem manajemen paket di Ubuntu disebut dengan Advanced Packaging Tool atau apt.

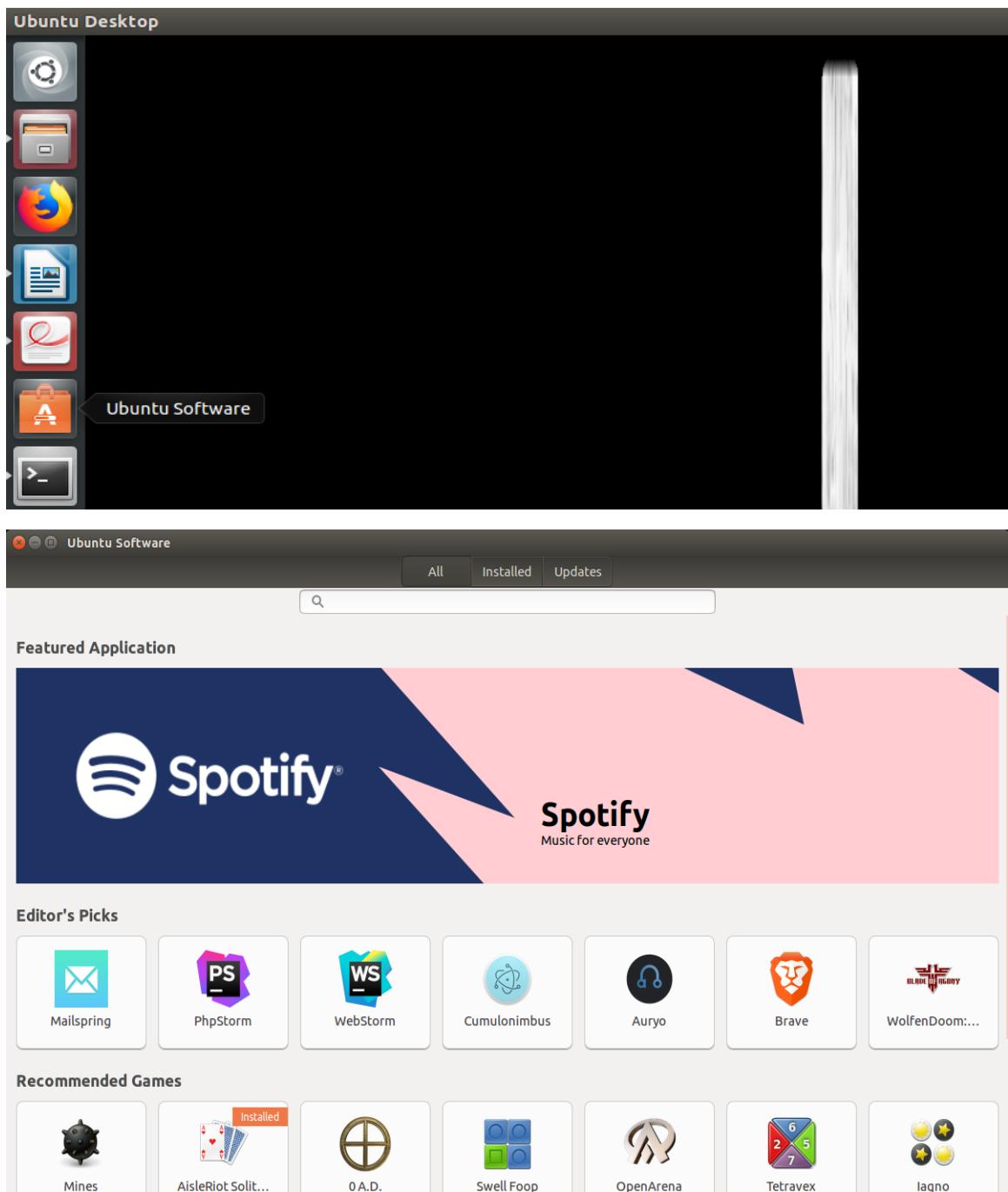
Untuk mengakses repositori di Ubuntu dapat menggunakan dua buah tool yaitu Ubuntu Software Center yang berbasis GUI dan apt-get yang berbasis command line. Disamping menggunakan sistem manajemen paket yang berbasis repositori, untuk menginstall software di Ubuntu juga dapat dilakukan secara manual menggunakan perintah dpkg.

## C. Langkah – langkah Praktikum

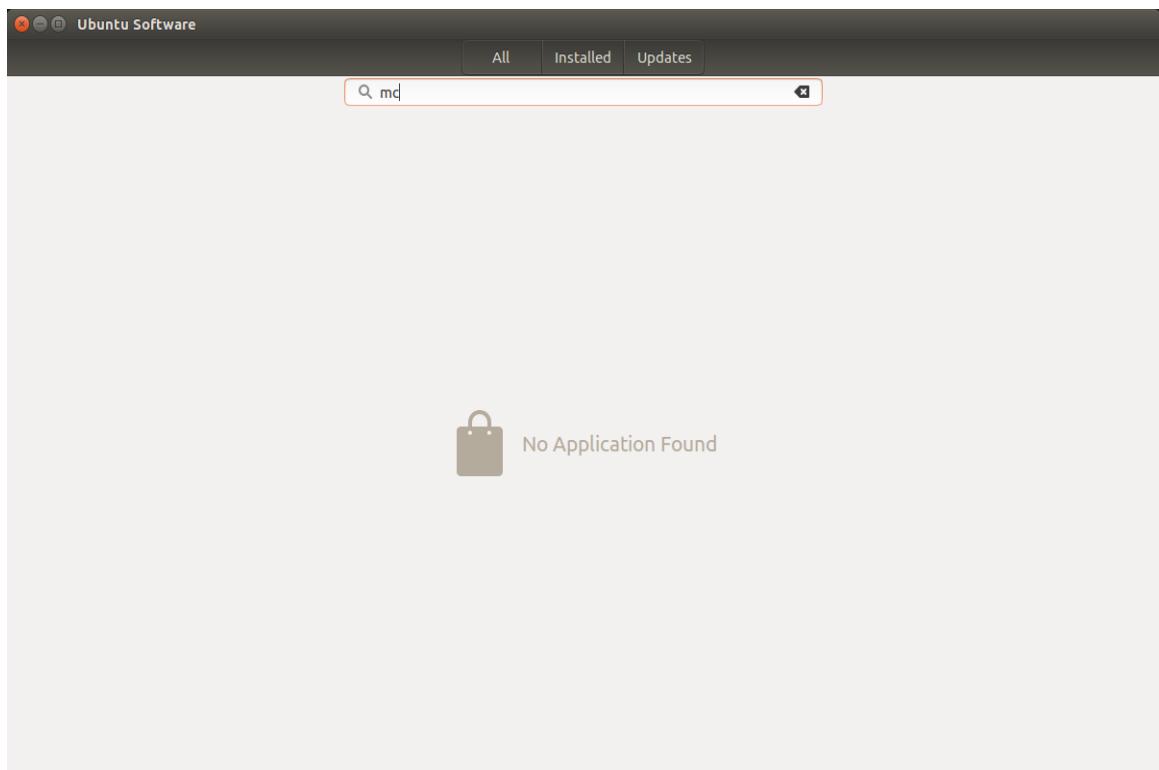
### 1. Ubuntu Software Center

#### Install paket software

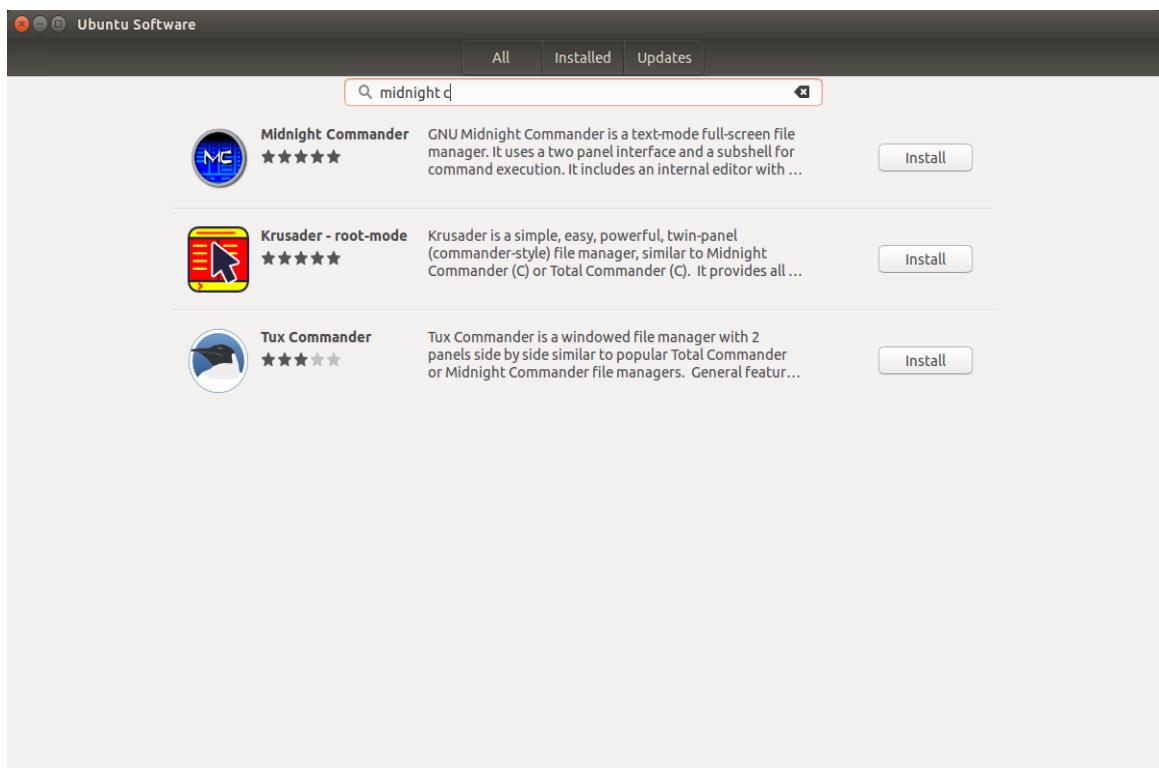
- Jalankan Ubuntu Software Center dengan cara klik ikon Ubuntu Software Center yang ada di Launcher.



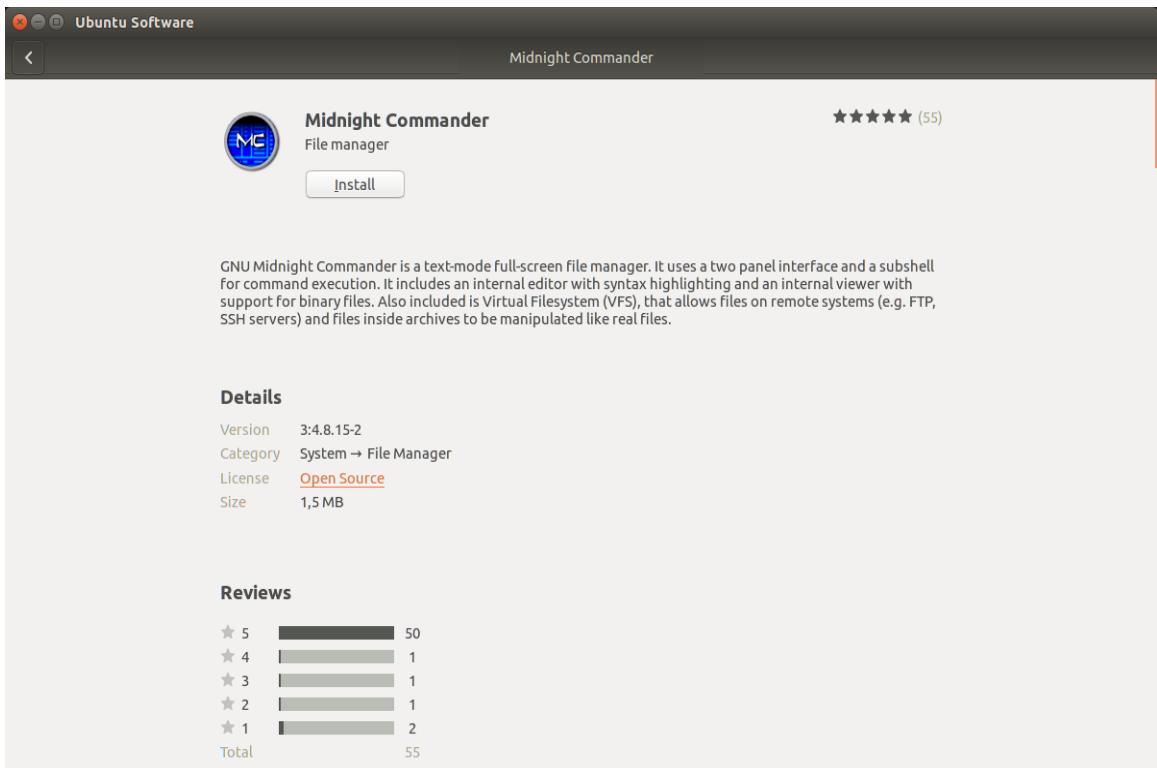
- Pada kolom pencarian, ketikkan mc.



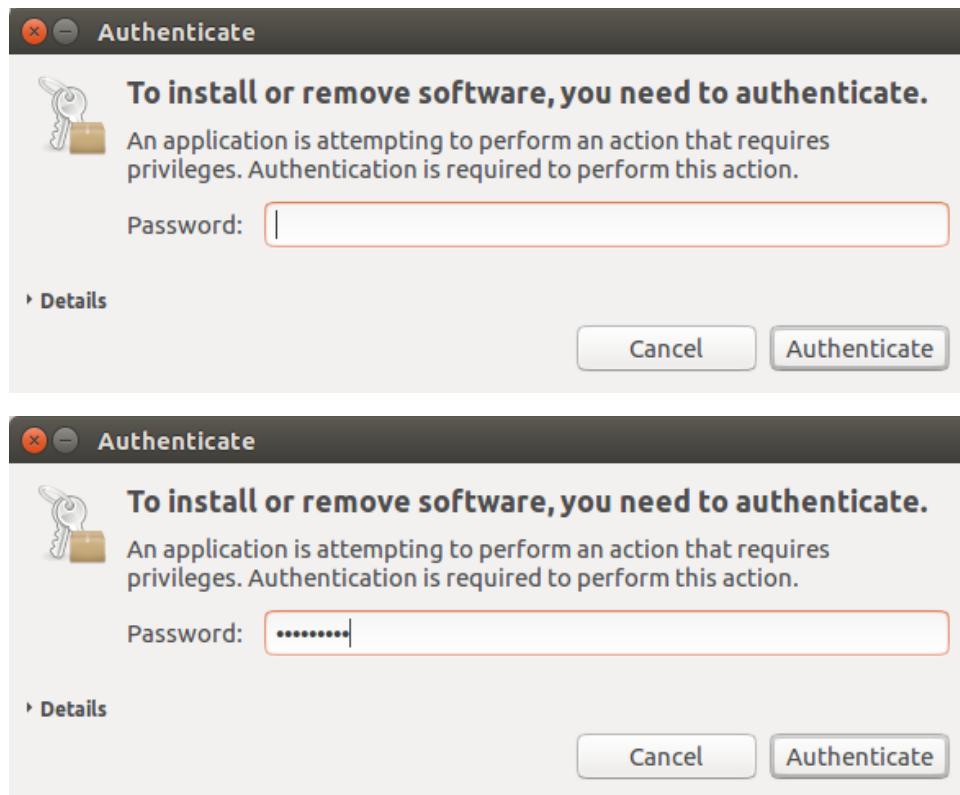
Jika saat diketikkan mc tidak ada hasil maka ketikkan midnight

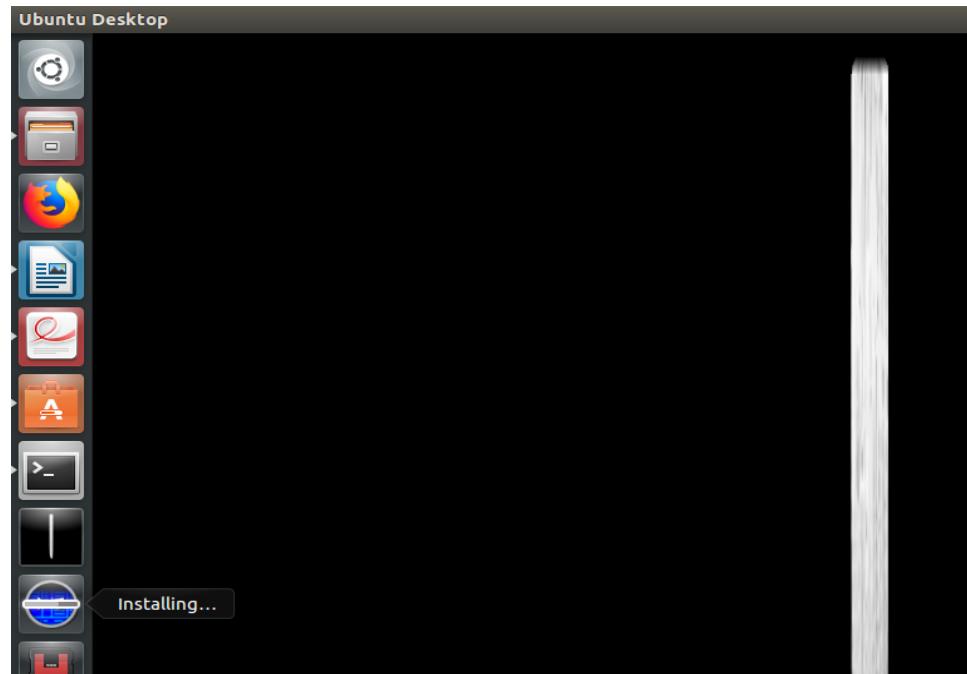
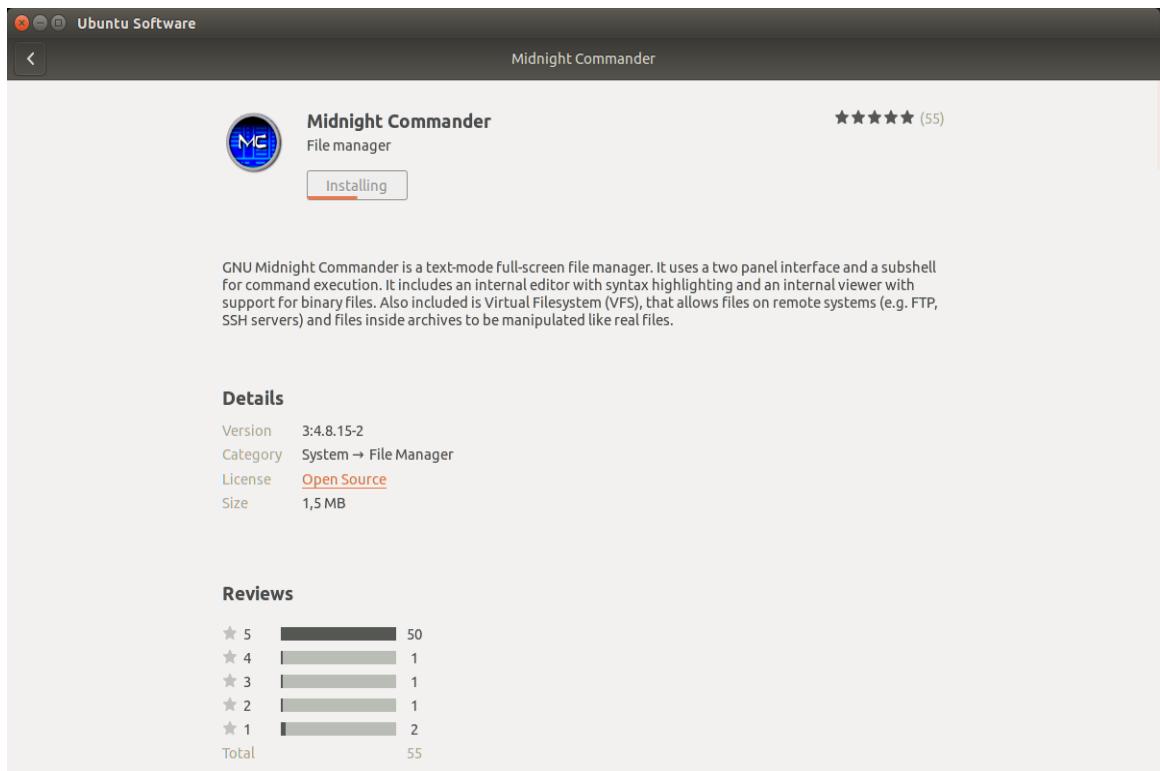


- Dari hasil pencarian pilih Midnight Commander kemudian klik tombol Install.

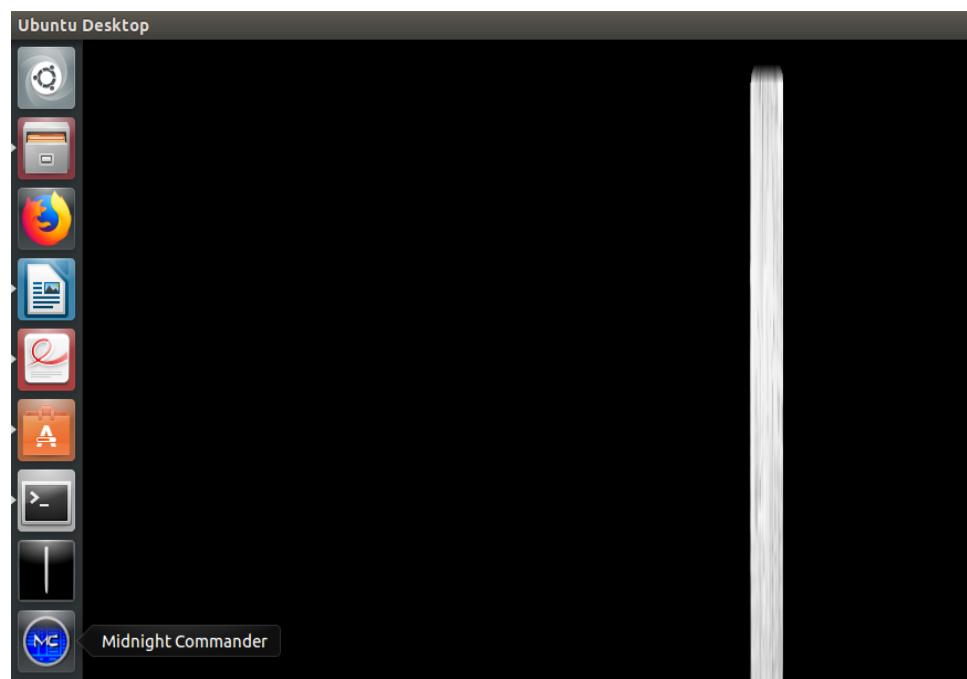


- Ketikkan password pada window otentikasi yang muncul.





Jika sudah selesai installing maka akan tampil pada Launcher



Berikut adalah isi dari aplikasi Midnight Commander

```
mc [mazharrasyad@mazharrasyad]:~
```

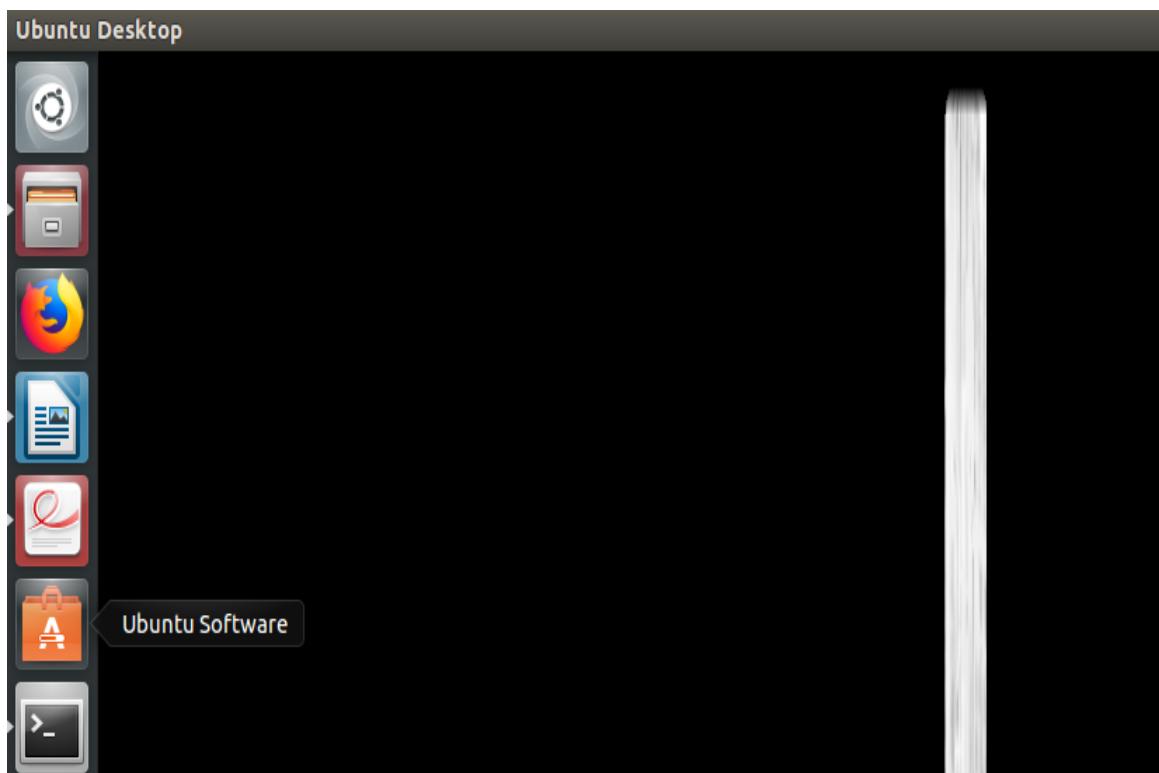
Left	File	Command	Options	Right	
.[^]>	.[^]>	.[^]>	.[^]>	.[^]>	
.n Name	Size	Modify time	.n Name	Size	Modify time
/. .	UP--DIR	Des 23 21:32	/. .	UP--DIR	Des 23 21:32
/.adobe	4096	Nov 5 17:39	/.adobe	4096	Nov 5 17:39
/.cache	4096	Des 23 21:38	/.cache	4096	Des 23 21:38
/.compiz	4096	Nov 5 17:13	/.compiz	4096	Nov 5 17:13
/.config	4096	Des 23 21:38	/.config	4096	Des 23 21:38
/.gconf	4096	Des 23 05:45	/.gconf	4096	Des 23 05:45
/.gnupg	4096	Des 23 19:09	/.gnupg	4096	Des 23 19:09
/.kde	4096	Nov 19 05:55	/.kde	4096	Nov 19 05:55
/.local	4096	Nov 5 17:01	/.local	4096	Nov 5 17:01
/.macromedia	4096	Nov 5 17:39	/.macromedia	4096	Nov 5 17:39
/.mozilla	4096	Nov 18 19:51	/.mozilla	4096	Nov 18 19:51
/.remmina	4096	Des 17 10:21	/.remmina	4096	Des 17 10:21
/.ssh	4096	Des 12 15:17	/.ssh	4096	Des 12 15:17
/.wine	4096	Des 7 07:28	/.wine	4096	Des 7 07:28
/.{data1}	4096	Nov 17 08:05	/.{data1}	4096	Nov 17 08:05
UP--DIR		74G/94G (78%)	UP--DIR		74G/94G (78%)

Hint: We also have a nice manual page.  
mazharrasyad@mazharrasyad:~\$

1Help 2Menu 3View 4Edit 5Copy 6RenMov 7Mkdir 8Delete 9PullDn 10Quit

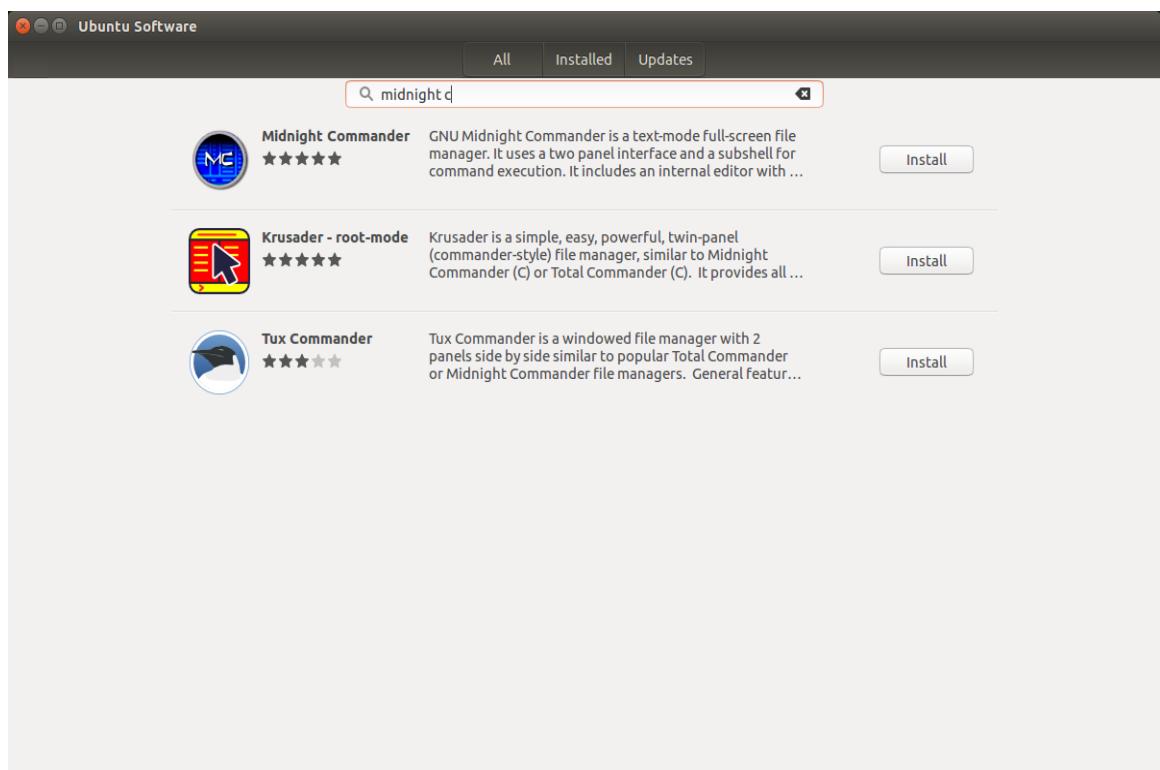
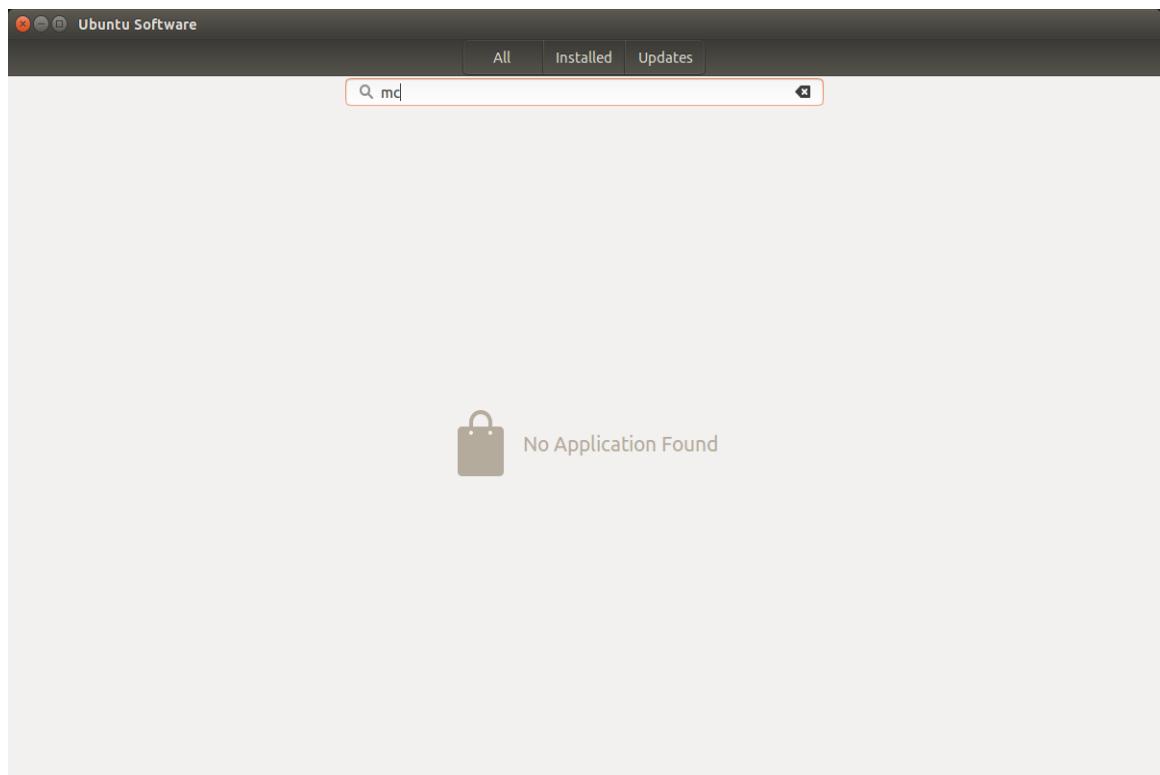
## Uninstall paket software

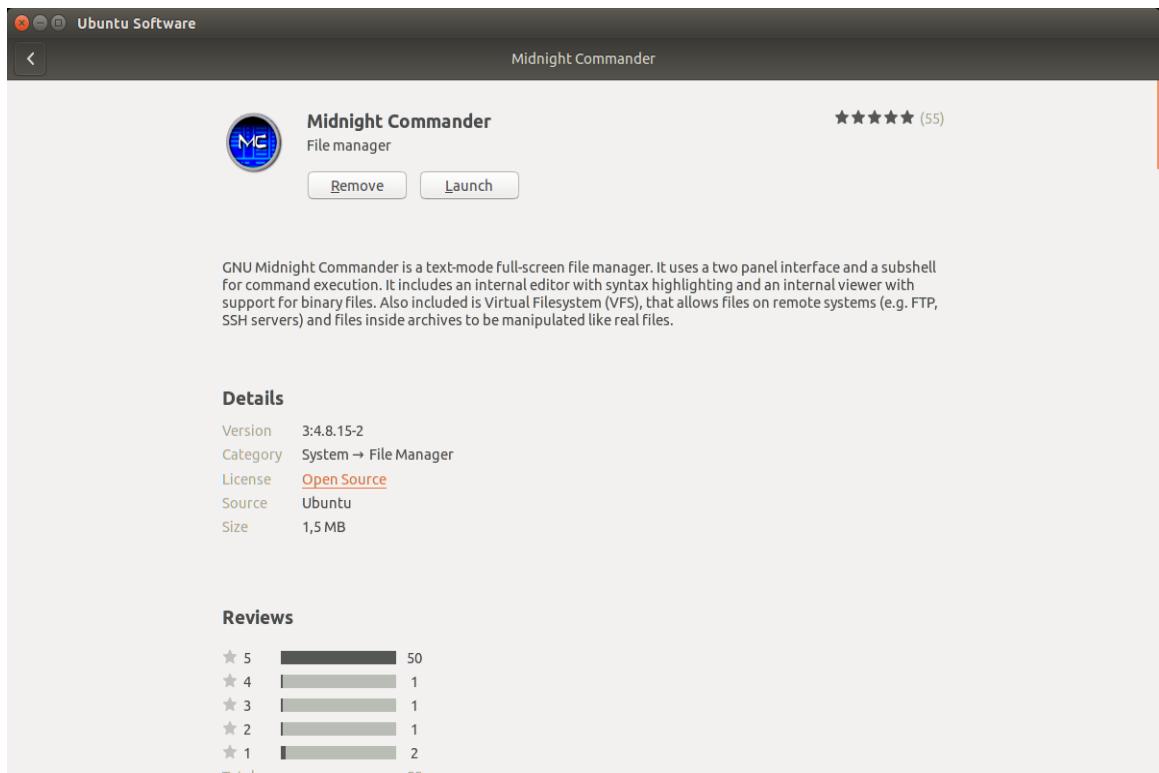
- Jalankan Ubuntu Software Center dengan cara klik ikon Ubuntu Software Center yang ada di Launcher.



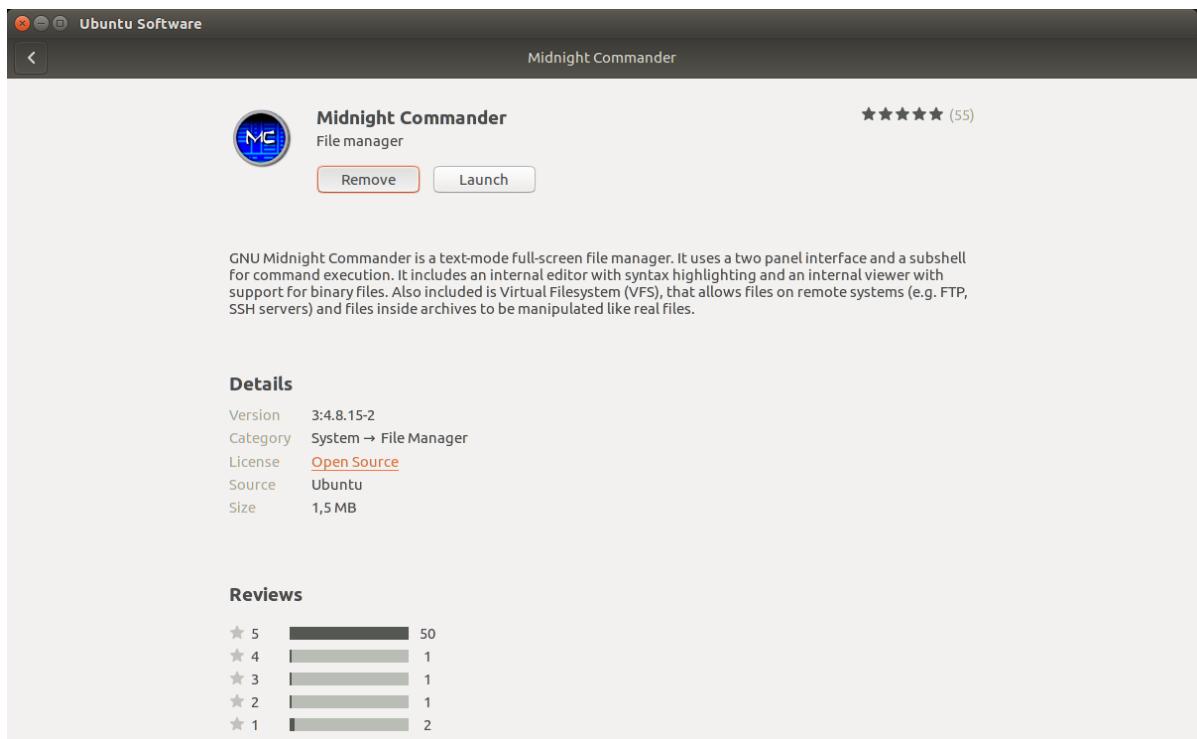
A screenshot of the Ubuntu Software Center window. The title bar says "Ubuntu Software". Below it are tabs for "All", "Installed", and "Updates", with "All" being selected. A search bar is present. The main area shows a "Featured Application" section for Spotify, which has a large blue and pink background image with the Spotify logo and the text "Spotify Music for everyone". Below this is an "Editor's Picks" section with icons for Mailspring, PhpStorm, WebStorm, Cumulonimbus, Auryo, Brave, and WolfenDoom. At the bottom is a "Recommended Games" section with icons for Mines, AisleRiot Solit..., 0 A.D., Swell Foop, OpenArena, Tetravex, and Iagno. The "Installed" tab is highlighted in the top navigation bar.

- Pada kolom pencarian, ketikkan mc.

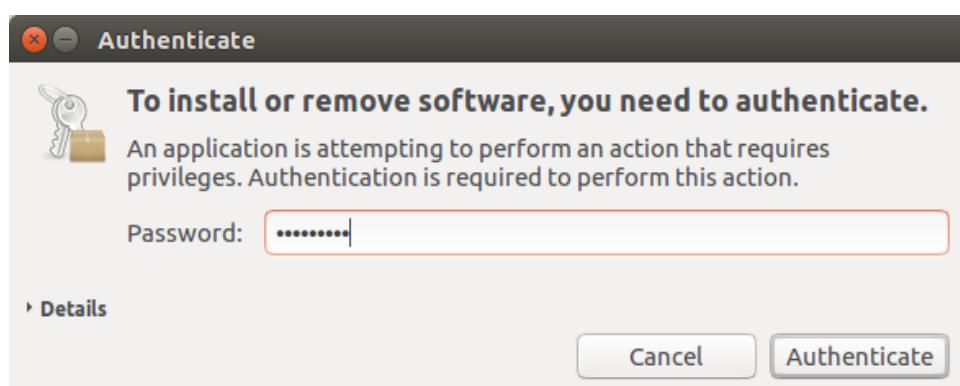
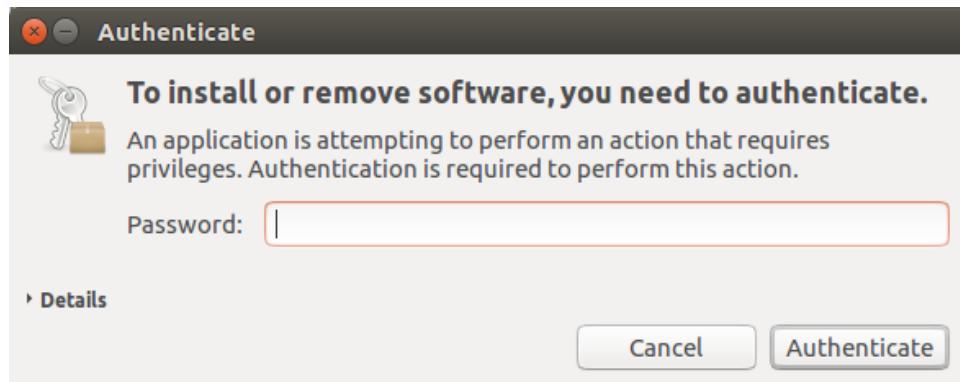




- Dari hasil pencarian pilih Midnight Commander kemudian klik tombol Remove.



- Ketikkan password pada window otentikasi yang muncul.



Ubuntu Software

Midnight Commander

**Midnight Commander**  
File manager

★ ★ ★ ★ ★ (55)

Removing

GNU Midnight Commander is a text-mode full-screen file manager. It uses a two panel interface and a subshell for command execution. It includes an internal editor with syntax highlighting and an internal viewer with support for binary files. Also included is Virtual Filesystem (VFS), that allows files on remote systems (e.g. FTP, SSH servers) and files inside archives to be manipulated like real files.

**Details**

Version	3:4.8.15-2
Category	System → File Manager
License	<a href="#">Open Source</a>
Source	Ubuntu
Size	1,5 MB

**Reviews**

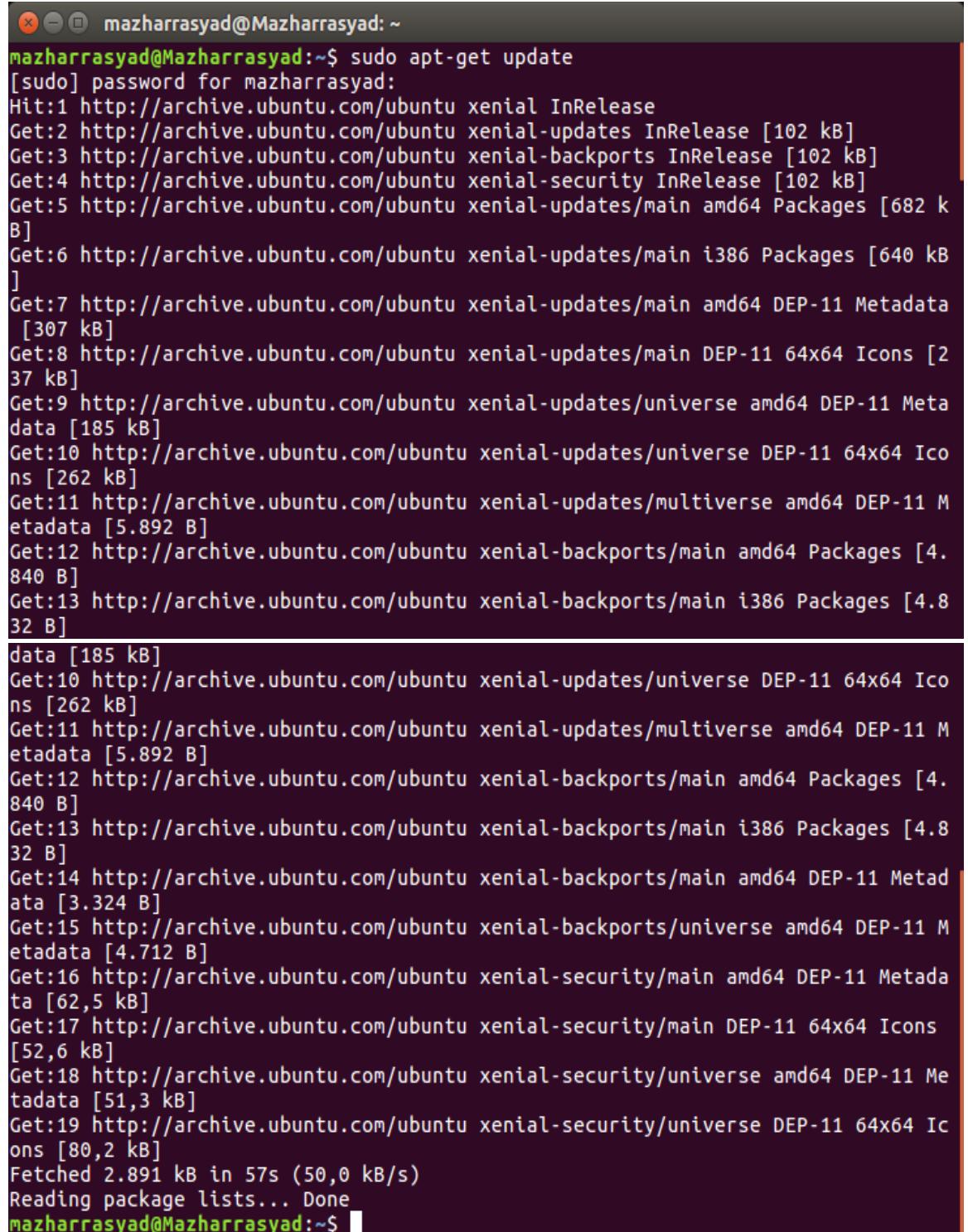
Rating	Count
★ 5	50
★ 4	1
★ 3	1
★ 2	1
★ 1	2

## 2. Apt-get

- **Update daftar paket repositori**

```
$ sudo apt-get update
```

Mengupdate daftar paket repositori.

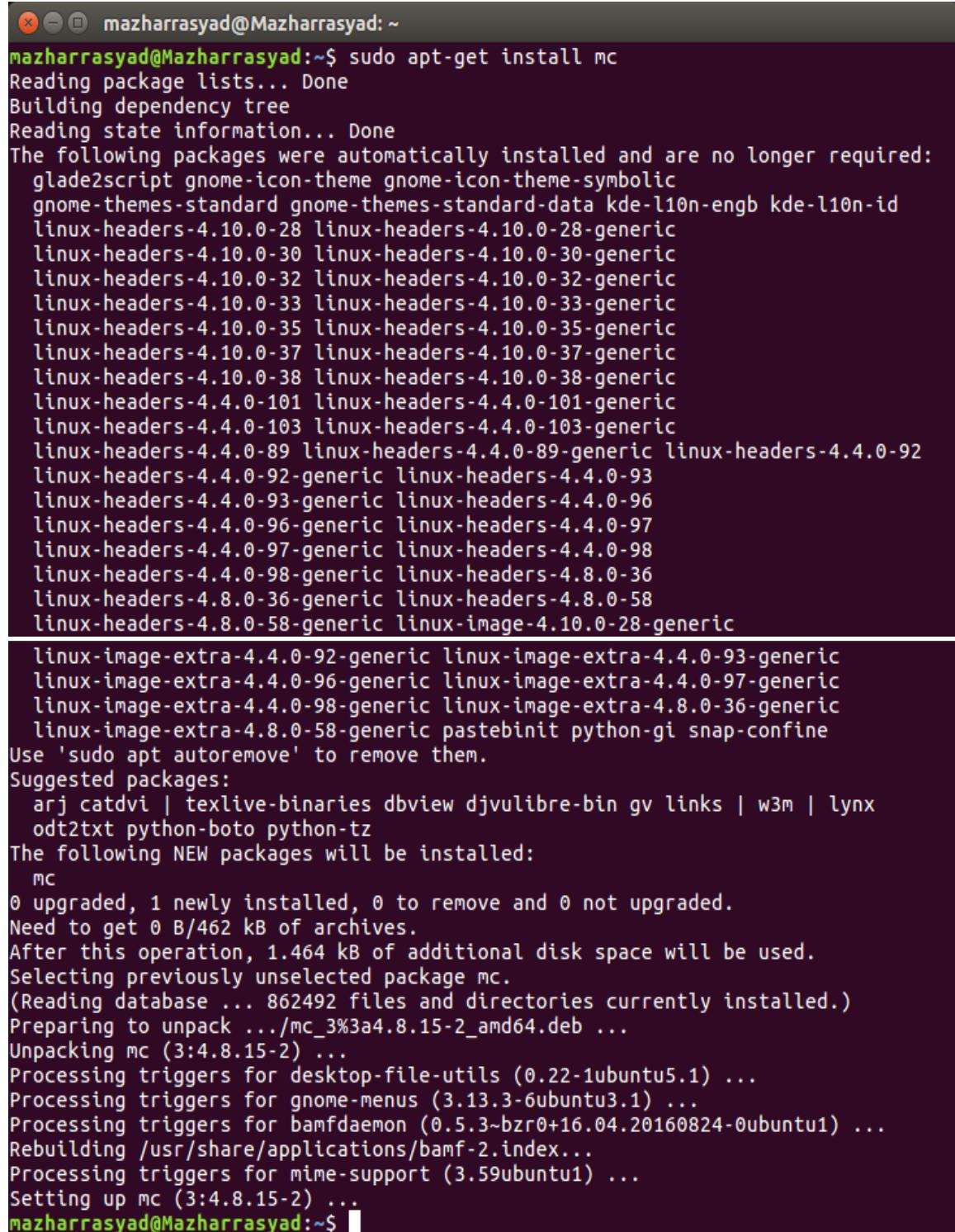


```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo apt-get update
[sudo] password for mazharrasyad:
Hit:1 http://archive.ubuntu.com/ubuntu xenial InRelease
Get:2 http://archive.ubuntu.com/ubuntu xenial-updates InRelease [102 kB]
Get:3 http://archive.ubuntu.com/ubuntu xenial-backports InRelease [102 kB]
Get:4 http://archive.ubuntu.com/ubuntu xenial-security InRelease [102 kB]
Get:5 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 Packages [682 kB]
Get:6 http://archive.ubuntu.com/ubuntu xenial-updates/main i386 Packages [640 kB]
Get:7 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 DEP-11 Metadata [307 kB]
Get:8 http://archive.ubuntu.com/ubuntu xenial-updates/main DEP-11 64x64 Icons [237 kB]
Get:9 http://archive.ubuntu.com/ubuntu xenial-updates/universe amd64 DEP-11 Metadata [185 kB]
Get:10 http://archive.ubuntu.com/ubuntu xenial-updates/universe DEP-11 64x64 Icons [262 kB]
Get:11 http://archive.ubuntu.com/ubuntu xenial-updates/multiverse amd64 DEP-11 Metadata [5.892 kB]
Get:12 http://archive.ubuntu.com/ubuntu xenial-backports/main amd64 Packages [4.840 kB]
Get:13 http://archive.ubuntu.com/ubuntu xenial-backports/main i386 Packages [4.832 kB]
data [185 kB]
Get:10 http://archive.ubuntu.com/ubuntu xenial-updates/universe DEP-11 64x64 Icons [262 kB]
Get:11 http://archive.ubuntu.com/ubuntu xenial-updates/multiverse amd64 DEP-11 Metadata [5.892 kB]
Get:12 http://archive.ubuntu.com/ubuntu xenial-backports/main amd64 Packages [4.840 kB]
Get:13 http://archive.ubuntu.com/ubuntu xenial-backports/main i386 Packages [4.832 kB]
Get:14 http://archive.ubuntu.com/ubuntu xenial-backports/main amd64 DEP-11 Metadata [3.324 kB]
Get:15 http://archive.ubuntu.com/ubuntu xenial-backports/universe amd64 DEP-11 Metadata [4.712 kB]
Get:16 http://archive.ubuntu.com/ubuntu xenial-security/main amd64 DEP-11 Metadata [62,5 kB]
Get:17 http://archive.ubuntu.com/ubuntu xenial-security/main DEP-11 64x64 Icons [52,6 kB]
Get:18 http://archive.ubuntu.com/ubuntu xenial-security/universe amd64 DEP-11 Metadata [51,3 kB]
Get:19 http://archive.ubuntu.com/ubuntu xenial-security/universe DEP-11 64x64 Icons [80,2 kB]
Fetched 2.891 kB in 57s (50,0 kB/s)
Reading package lists... Done
mazharrasyad@mazharrasyad:~$
```

- **Install paket software**

```
$ sudo apt-get install mc
```

Menginstall paket software.

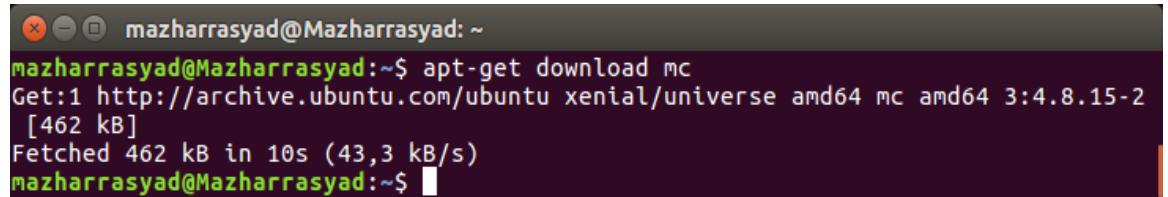


```
mazharrasyad@mazharrasyad:~$ sudo apt-get install mc
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  glade2script gnome-icon-theme gnome-icon-theme-symbolic
  gnome-themes-standard gnome-themes-standard-data kde-l10n-engb kde-l10n-id
  linux-headers-4.10.0-28 linux-headers-4.10.0-28-generic
  linux-headers-4.10.0-30 linux-headers-4.10.0-30-generic
  linux-headers-4.10.0-32 linux-headers-4.10.0-32-generic
  linux-headers-4.10.0-33 linux-headers-4.10.0-33-generic
  linux-headers-4.10.0-35 linux-headers-4.10.0-35-generic
  linux-headers-4.10.0-37 linux-headers-4.10.0-37-generic
  linux-headers-4.10.0-38 linux-headers-4.10.0-38-generic
  linux-headers-4.4.0-101 linux-headers-4.4.0-101-generic
  linux-headers-4.4.0-103 linux-headers-4.4.0-103-generic
  linux-headers-4.4.0-89 linux-headers-4.4.0-89-generic linux-headers-4.4.0-92
  linux-headers-4.4.0-92-generic linux-headers-4.4.0-93
  linux-headers-4.4.0-93-generic linux-headers-4.4.0-96
  linux-headers-4.4.0-96-generic linux-headers-4.4.0-97
  linux-headers-4.4.0-97-generic linux-headers-4.4.0-98
  linux-headers-4.4.0-98-generic linux-headers-4.8.0-36
  linux-headers-4.8.0-36-generic linux-headers-4.8.0-58
  linux-headers-4.8.0-58-generic linux-image-4.10.0-28-generic
  linux-image-extra-4.4.0-92-generic linux-image-extra-4.4.0-93-generic
  linux-image-extra-4.4.0-96-generic linux-image-extra-4.4.0-97-generic
  linux-image-extra-4.4.0-98-generic linux-image-extra-4.8.0-36-generic
  linux-image-extra-4.8.0-58-generic pastebinit python-gi snap-confine
Use 'sudo apt autoremove' to remove them.
Suggested packages:
  arj catdvi | texlive-binaries dbview djvuibre-bin gv links | w3m | lynx
  odt2txt python-boto python-tz
The following NEW packages will be installed:
  mc
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 0 B/462 kB of archives.
After this operation, 1.464 kB of additional disk space will be used.
Selecting previously unselected package mc.
(Reading database ... 862492 files and directories currently installed.)
Preparing to unpack .../mc_3%3a4.8.15-2_amd64.deb ...
Unpacking mc (3:4.8.15-2) ...
Processing triggers for desktop-file-utils (0.22-1ubuntu5.1) ...
Processing triggers for gnome-menus (3.13.3-6ubuntu3.1) ...
Processing triggers for bamfdaemon (0.5.3~bzr0+16.04.20160824-0ubuntu1) ...
Rebuilding /usr/share/applications/bamf-2.index...
Processing triggers for mime-support (3.59ubuntu1) ...
Setting up mc (3:4.8.15-2) ...
mazharrasyad@mazharrasyad:~$
```

- **Download paket software tanpa install**

```
$ apt-get download mc
```

Mendownload paket software mc

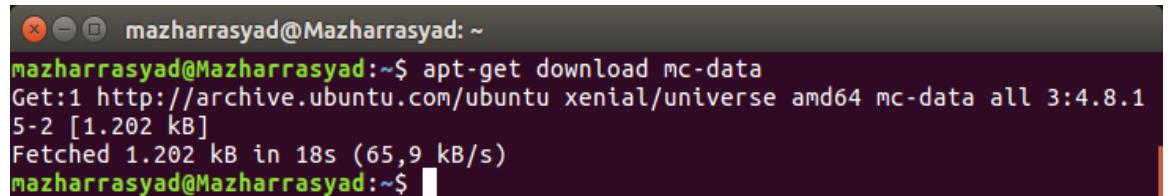


```
mazharryad@mazharryad:~$ apt-get download mc
Get:1 http://archive.ubuntu.com/ubuntu xenial/universe amd64 mc amd64 3:4.8.15-2
[462 kB]
Fetched 462 kB in 10s (43,3 kB/s)
mazharryad@mazharryad:~$
```

A terminal window titled "mazharryad@mazharryad:~". It shows the command "apt-get download mc" being run. The output indicates that it is getting file 1 from "http://archive.ubuntu.com/ubuntu xenial/universe amd64 mc amd64 3:4.8.15-2" with a size of 462 kB. The fetch is completed in 10 seconds at a rate of 43.3 kB/s.

```
$ apt-get download mc-data
```

Mendownload paket software mc-data

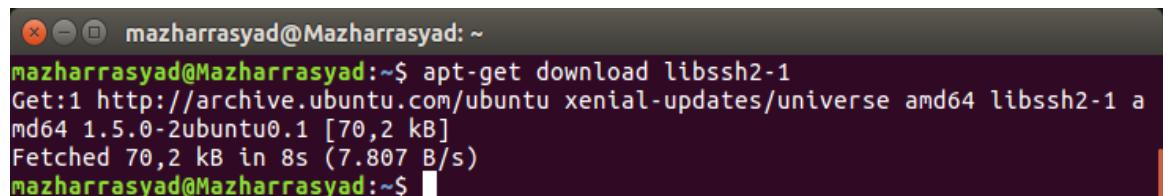


```
mazharryad@mazharryad:~$ apt-get download mc-data
Get:1 http://archive.ubuntu.com/ubuntu xenial/universe amd64 mc-data all 3:4.8.1
5-2 [1.202 kB]
Fetched 1.202 kB in 18s (65,9 kB/s)
mazharryad@mazharryad:~$
```

A terminal window titled "mazharryad@mazharryad:~". It shows the command "apt-get download mc-data" being run. The output indicates that it is getting file 1 from "http://archive.ubuntu.com/ubuntu xenial/universe amd64 mc-data all 3:4.8.1 5-2" with a size of 1.202 kB. The fetch is completed in 18 seconds at a rate of 65.9 kB/s.

```
$ apt-get download libssh2-1
```

Mendownload paket software libssh2-1



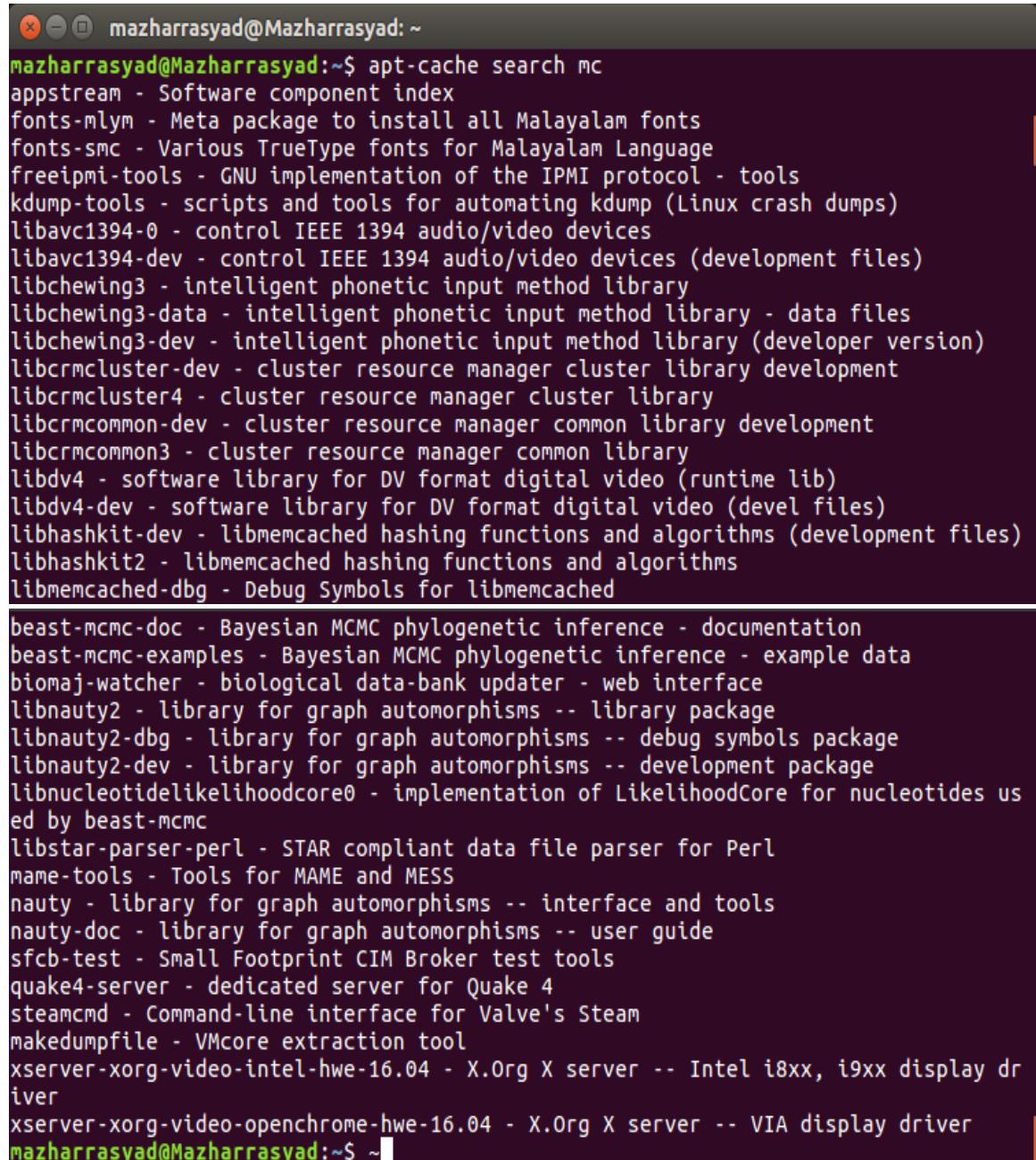
```
mazharryad@mazharryad:~$ apt-get download libssh2-1
Get:1 http://archive.ubuntu.com/ubuntu xenial-updates/universe amd64 libssh2-1 a
md64 1.5.0-2ubuntu0.1 [70,2 kB]
Fetched 70,2 kB in 8s (7.807 B/s)
mazharryad@mazharryad:~$
```

A terminal window titled "mazharryad@mazharryad:~". It shows the command "apt-get download libssh2-1" being run. The output indicates that it is getting file 1 from "http://archive.ubuntu.com/ubuntu xenial-updates/universe amd64 libssh2-1 amd64 1.5.0-2ubuntu0.1" with a size of 70,2 kB. The fetch is completed in 8 seconds at a rate of 7.807 B/s.

- **Query cache APT**

```
$ apt-cache search mc
```

Mencari suatu paket



```
mazharrasyad@mazharrasyad:~$ apt-cache search mc
appstream - Software component index
fonts-mlym - Meta package to install all Malayalam fonts
fonts-smc - Various TrueType fonts for Malayalam Language
freeipmi-tools - GNU implementation of the IPMI protocol - tools
kdump-tools - scripts and tools for automating kdump (Linux crash dumps)
libavc1394-0 - control IEEE 1394 audio/video devices
libavc1394-dev - control IEEE 1394 audio/video devices (development files)
libchewing3 - intelligent phonetic input method library
libchewing3-data - intelligent phonetic input method library - data files
libchewing3-dev - intelligent phonetic input method library (developer version)
libcrmcluster-dev - cluster resource manager cluster library development
libcrmcluster4 - cluster resource manager cluster library
libcrmcommon-dev - cluster resource manager common library development
libcrmcommon3 - cluster resource manager common library
libdv4 - software library for DV format digital video (runtime lib)
libdv4-dev - software library for DV format digital video (devel files)
libhashkit-dev - libmemcached hashing functions and algorithms (development files)
libhashkit2 - libmemcached hashing functions and algorithms
libmemcached-dbg - Debug Symbols for libmemcached
beast-mcmc-doc - Bayesian MCMC phylogenetic inference - documentation
beast-mcmc-examples - Bayesian MCMC phylogenetic inference - example data
biomaj-watcher - biological data-bank updater - web interface
libnauty2 - library for graph automorphisms -- library package
libnauty2-dbg - library for graph automorphisms -- debug symbols package
libnauty2-dev - library for graph automorphisms -- development package
libnucleotidelikelihoodcore0 - implementation of LikelihoodCore for nucleotides used by beast-mcmc
libstar-parser-perl - STAR compliant data file parser for Perl
mame-tools - Tools for MAME and MESS
nauty - library for graph automorphisms -- interface and tools
nauty-doc - library for graph automorphisms -- user guide
sfcb-test - Small Footprint CIM Broker test tools
quake4-server - dedicated server for Quake 4
steamcmd - Command-line interface for Valve's Steam
makedumpfile - VMcore extraction tool
xserver-xorg-video-intel-hwe-16.04 - X.Org X server -- Intel i8xx, i9xx display driver
xserver-xorg-video-openchrome-hwe-16.04 - X.Org X server -- VIA display driver
mazharrasyad@mazharrasyad:~$ ~
```

```
$ apt-cache show mc
```

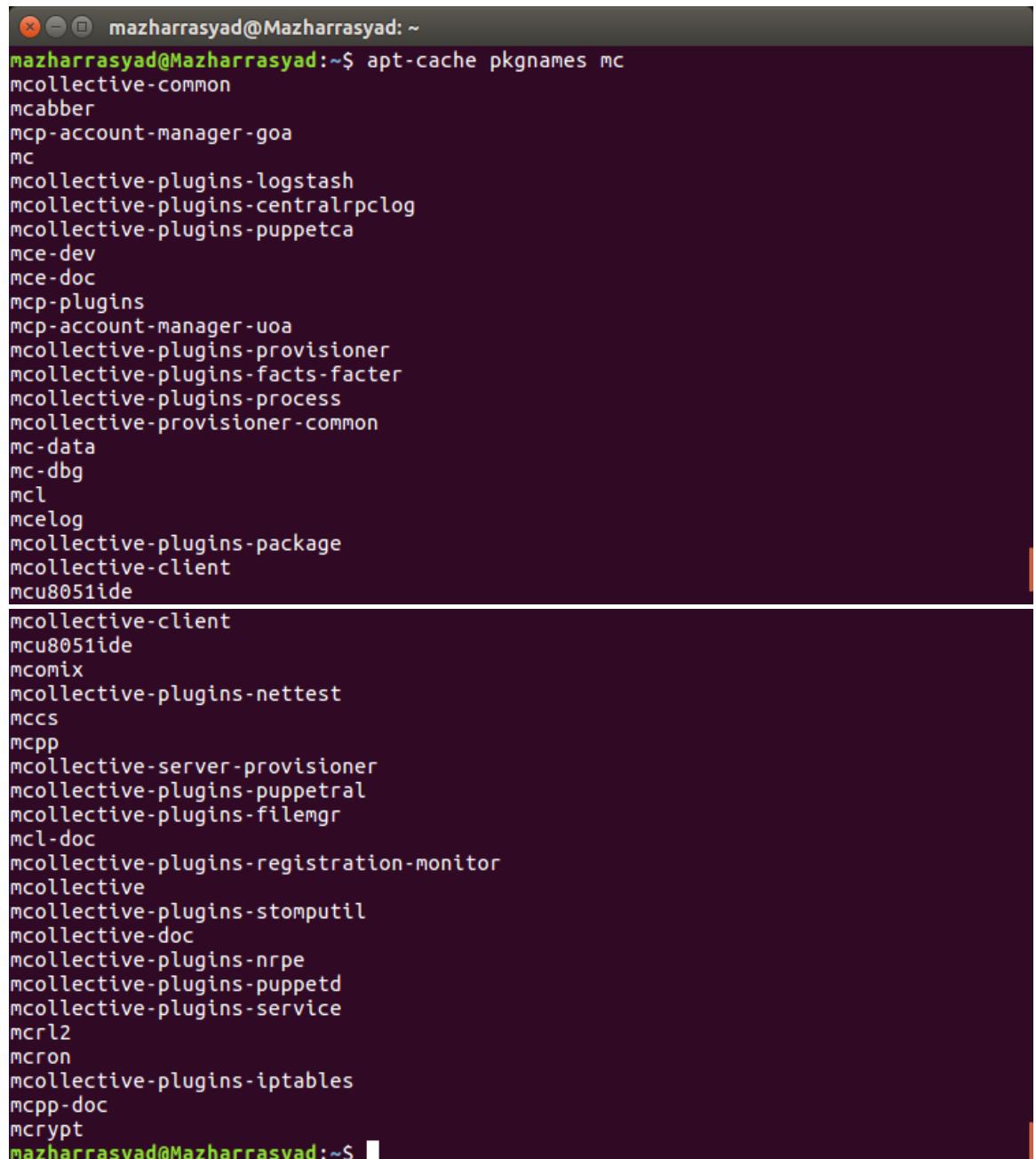
Menampilkan informasi mengenai suatu paket

```
mazharrysyad@mazharrysyad:~$ apt-cache show mc
Package: mc
Priority: optional
Section: universe/utils
Installed-Size: 1430
Maintainer: Ubuntu Developers <ubuntu-devel-discuss@lists.ubuntu.com>
Original-Maintainer: Debian MC Packaging Group <pkg-mc-devel@lists.alioth.debian.org>
Architecture: amd64
Version: 3:4.8.15-2
Provides: mcedit
Depends: e2fslibs (>= 1.37), libc6 (>= 2.15), libglib2.0-0 (>= 2.35.9), libgpm2 (>= 1.20.4), libslang2 (>= 2.2.4), libssh2-1 (>= 1.2.5), mc-data (= 3:4.8.15-2)
Recommends: mime-support, perl, unzip
Suggests: arj, bzip2, catdvi | texlive-binaries, dbview, djvu-libre-bin, file, genisoimage, gv, imagemagick, links | w3m | lynx, odt2txt, poppler-utils, python, python-boto, python-tz, xpdf | pdf-viewer, zip
Filename: pool/universe/m/mc/mc_4.8.15-2_amd64.deb
Size: 462158
MD5sum: 41403e8b9e864a79b6939957d5fc357d
SHA1: 8b6e8a92efdf4d1aea007f10c7496ed286edda26
Suggests: arj, bzip2, catdvi | texlive-binaries, dbview, djvu-libre-bin, file, genisoimage, gv, imagemagick, links | w3m | lynx, odt2txt, poppler-utils, python, python-boto, python-tz, xpdf | pdf-viewer, zip
Filename: pool/universe/m/mc/mc_4.8.15-2_amd64.deb
Size: 462158
MD5sum: 41403e8b9e864a79b6939957d5fc357d
SHA1: 8b6e8a92efdf4d1aea007f10c7496ed286edda26
SHA256: 60f56b01b0398724ea4acf00fab92d2415ad62506b061d8eb88d036089a39487
Description-en: Midnight Commander - a powerful file manager
  GNU Midnight Commander is a text-mode full-screen file manager. It
  uses a two panel interface and a subshell for command execution. It
  includes an internal editor with syntax highlighting and an internal
  viewer with support for binary files. Also included is Virtual
  Filesystem (VFS), that allows files on remote systems (e.g. FTP, SSH
  servers) and files inside archives to be manipulated like real files.
Description-md5: 252a5c5aeeb7425db45357d4ab8aa55f
Homepage: http://www.midnight-commander.org
Bugs: https://bugs.launchpad.net/ubuntu/+filebug
Origin: Ubuntu

mazharrysyad@mazharrysyad:~$
```

```
$ apt-cache pkgnames mc
```

Menampilkan paket yang dikenal oleh APT (Advanced Packaging Tool)

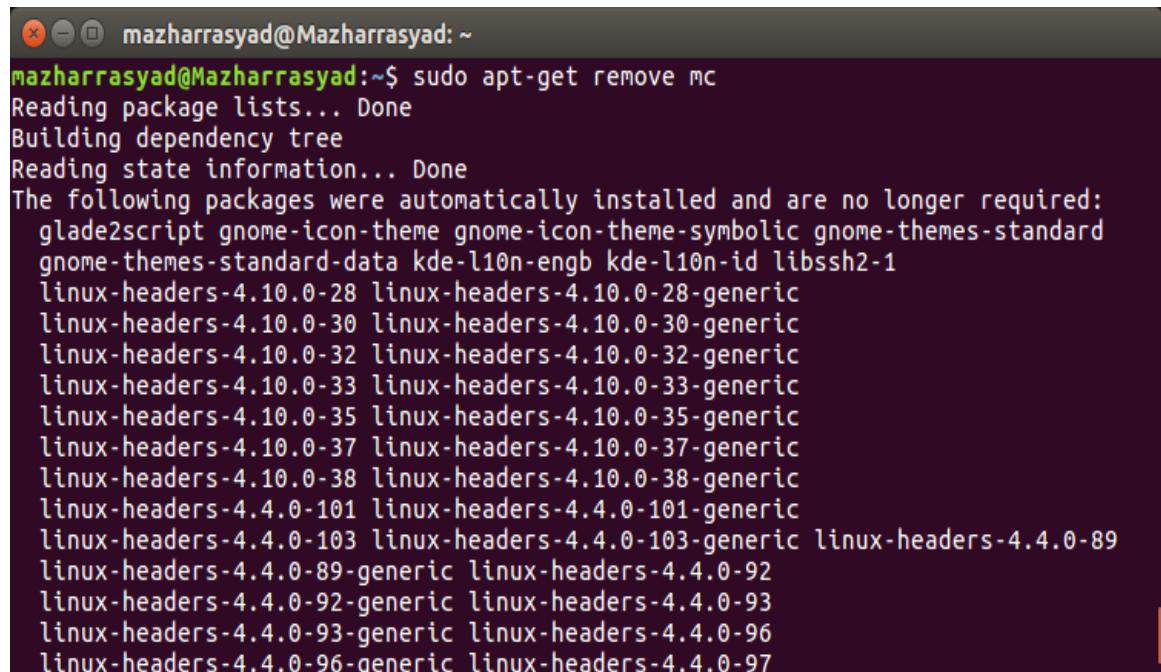


```
mazharrysyad@mazharrysyad: ~
mazharrysyad@mazharrysyad:~$ apt-cache pkgnames mc
mcollective-common
mcabber
mcp-account-manager-goa
mc
mcollective-plugins-logstash
mcollective-plugins-centralrpclog
mcollective-plugins-puppetca
mce-dev
mce-doc
mcp-plugins
mcp-account-manager-uoa
mcollective-plugins-provisioner
mcollective-plugins-facts-facter
mcollective-plugins-process
mcollective-provisioner-common
mc-data
mc-dbg
mcl
mcelog
mcollective-plugins-package
mcollective-client
mcu8051ide
mcollective-client
mcu8051ide
mcomix
mcollective-plugins-nettest
mccs
mcpp
mcollective-server-provisioner
mcollective-plugins-puppetral
mcollective-plugins-filemgr
mcl-doc
mcollective-plugins-registration-monitor
mcollective
mcollective-plugins-stomputil
mcollective-doc
mcollective-plugins-nrpe
mcollective-plugins-puppetd
mcollective-plugins-service
mcrl2
mcron
mcollective-plugins-iptables
mcpp-doc
mcrypt
mazharrysyad@mazharrysyad:~$
```

- **Uninstall paket software**

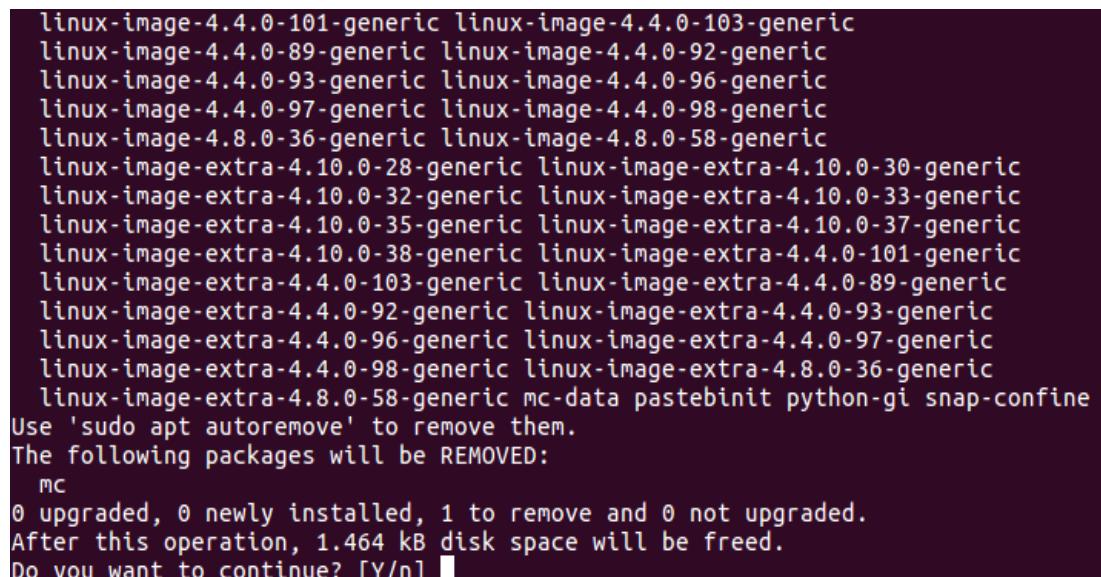
```
$ sudo apt-get remove mc
```

Menguninstall paket software



```
mazharryad@mazharryad:~$ sudo apt-get remove mc
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  glade2script gnome-icon-theme gnome-icon-theme-symbolic gnome-themes-standard
  gnome-themes-standard-data kde-l10n-engb kde-l10n-id libssh2-1
  linux-headers-4.10.0-28 linux-headers-4.10.0-28-generic
  linux-headers-4.10.0-30 linux-headers-4.10.0-30-generic
  linux-headers-4.10.0-32 linux-headers-4.10.0-32-generic
  linux-headers-4.10.0-33 linux-headers-4.10.0-33-generic
  linux-headers-4.10.0-35 linux-headers-4.10.0-35-generic
  linux-headers-4.10.0-37 linux-headers-4.10.0-37-generic
  linux-headers-4.10.0-38 linux-headers-4.10.0-38-generic
  linux-headers-4.4.0-101 linux-headers-4.4.0-101-generic
  linux-headers-4.4.0-103 linux-headers-4.4.0-103-generic linux-headers-4.4.0-89
  linux-headers-4.4.0-89-generic linux-headers-4.4.0-92
  linux-headers-4.4.0-92-generic linux-headers-4.4.0-93
  linux-headers-4.4.0-93-generic linux-headers-4.4.0-96
  linux-headers-4.4.0-96-generic linux-headers-4.4.0-97
```

Saat menguninstall paket software akan ada proses verifikasi Y untuk setuju atau N untuk tidak setuju.



```
linux-image-4.4.0-101-generic linux-image-4.4.0-103-generic
linux-image-4.4.0-89-generic linux-image-4.4.0-92-generic
linux-image-4.4.0-93-generic linux-image-4.4.0-96-generic
linux-image-4.4.0-97-generic linux-image-4.4.0-98-generic
linux-image-4.8.0-36-generic linux-image-4.8.0-58-generic
linux-image-extra-4.10.0-28-generic linux-image-extra-4.10.0-30-generic
linux-image-extra-4.10.0-32-generic linux-image-extra-4.10.0-33-generic
linux-image-extra-4.10.0-35-generic linux-image-extra-4.10.0-37-generic
linux-image-extra-4.10.0-38-generic linux-image-extra-4.4.0-101-generic
linux-image-extra-4.4.0-103-generic linux-image-extra-4.4.0-89-generic
linux-image-extra-4.4.0-92-generic linux-image-extra-4.4.0-93-generic
linux-image-extra-4.4.0-96-generic linux-image-extra-4.4.0-97-generic
linux-image-extra-4.4.0-98-generic linux-image-extra-4.8.0-36-generic
  linux-image-extra-4.8.0-58-generic mc-data pastebinit python-gi snap-confine
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
  mc
0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.
After this operation, 1.464 kB disk space will be freed.
Do you want to continue? [Y/n] 
```

```
linux-image-extra-4.10.0-38-generic linux-image-extra-4.4.0-101-generic
linux-image-extra-4.4.0-103-generic linux-image-extra-4.4.0-89-generic
linux-image-extra-4.4.0-92-generic linux-image-extra-4.4.0-93-generic
linux-image-extra-4.4.0-96-generic linux-image-extra-4.4.0-97-generic
linux-image-extra-4.4.0-98-generic linux-image-extra-4.8.0-36-generic
linux-image-extra-4.8.0-58-generic mc-data pastebinit python-gi snap-confine
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
  mc
0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.
After this operation, 1.464 kB disk space will be freed.
Do you want to continue? [Y/n] y
(Reading database ... 862579 files and directories currently installed.)
Removing mc (3:4.8.15-2) ...
Processing triggers for desktop-file-utils (0.22-1ubuntu5.1) ...
Processing triggers for gnome-menus (3.13.3-6ubuntu3.1) ...
Processing triggers for bamfdaemon (0.5.3~bzr0+16.04.20160824-0ubuntu1) ...
Rebuilding /usr/share/applications/bamf-2.index...
Processing triggers for mime-support (3.59ubuntu1) ...
mazharryad@mazharryad:~$
```

\$ sudo apt-get purge mc

Menguninstall paket software berikut file konfigurasinya

```
mazharryad@mazharryad:~$ sudo apt-get purge mc
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  glade2script gnome-icon-theme gnome-icon-theme-symbolic gnome-themes-standard
  gnome-themes-standard-data kde-l10n-engb kde-l10n-id libssh2-1
  linux-headers-4.10.0-28 linux-headers-4.10.0-28-generic
  linux-headers-4.10.0-30 linux-headers-4.10.0-30-generic
  linux-headers-4.10.0-32 linux-headers-4.10.0-32-generic
  linux-headers-4.10.0-33 linux-headers-4.10.0-33-generic
  linux-headers-4.10.0-35 linux-headers-4.10.0-35-generic
  linux-headers-4.10.0-37 linux-headers-4.10.0-37-generic
  linux-headers-4.10.0-38 linux-headers-4.10.0-38-generic
  linux-headers-4.4.0-101 linux-headers-4.4.0-101-generic
  linux-headers-4.4.0-103 linux-headers-4.4.0-103-generic linux-headers-4.4.0-89
  linux-headers-4.4.0-89-generic linux-headers-4.4.0-92
  linux-headers-4.4.0-92-generic linux-headers-4.4.0-93
  linux-headers-4.4.0-93-generic linux-headers-4.4.0-96
  linux-headers-4.4.0-96-generic linux-headers-4.4.0-97
  linux-headers-4.4.0-97-generic linux-headers-4.4.0-98
```

```
linux-image-4.10.0-37-generic linux-image-4.10.0-38-generic
linux-image-4.4.0-101-generic linux-image-4.4.0-103-generic
linux-image-4.4.0-89-generic linux-image-4.4.0-92-generic
linux-image-4.4.0-93-generic linux-image-4.4.0-96-generic
linux-image-4.4.0-97-generic linux-image-4.4.0-98-generic
linux-image-4.8.0-36-generic linux-image-4.8.0-58-generic
linux-image-extra-4.10.0-28-generic linux-image-extra-4.10.0-30-generic
linux-image-extra-4.10.0-32-generic linux-image-extra-4.10.0-33-generic
linux-image-extra-4.10.0-35-generic linux-image-extra-4.10.0-37-generic
linux-image-extra-4.10.0-38-generic linux-image-extra-4.4.0-101-generic
linux-image-extra-4.4.0-103-generic linux-image-extra-4.4.0-89-generic
linux-image-extra-4.4.0-92-generic linux-image-extra-4.4.0-93-generic
linux-image-extra-4.4.0-96-generic linux-image-extra-4.4.0-97-generic
linux-image-extra-4.4.0-98-generic linux-image-extra-4.8.0-36-generic
linux-image-extra-4.8.0-58-generic mc-data pastebinit python-gi snap-confine
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
  mc*
0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.
After this operation, 0 B of additional disk space will be used.
Do you want to continue? [Y/n] ■
linux-image-4.4.0-97-generic linux-image-4.4.0-98-generic
linux-image-4.8.0-36-generic linux-image-4.8.0-58-generic
linux-image-extra-4.10.0-28-generic linux-image-extra-4.10.0-30-generic
linux-image-extra-4.10.0-32-generic linux-image-extra-4.10.0-33-generic
linux-image-extra-4.10.0-35-generic linux-image-extra-4.10.0-37-generic
linux-image-extra-4.10.0-38-generic linux-image-extra-4.4.0-101-generic
linux-image-extra-4.4.0-103-generic linux-image-extra-4.4.0-89-generic
linux-image-extra-4.4.0-92-generic linux-image-extra-4.4.0-93-generic
linux-image-extra-4.4.0-96-generic linux-image-extra-4.4.0-97-generic
linux-image-extra-4.4.0-98-generic linux-image-extra-4.8.0-36-generic
linux-image-extra-4.8.0-58-generic mc-data pastebinit python-gi snap-confine
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
  mc*
0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.
After this operation, 0 B of additional disk space will be used.
Do you want to continue? [Y/n] y
(Reading database ... 862491 files and directories currently installed.)
Removing mc (3:4.8.15-2) ...
Purging configuration files for mc (3:4.8.15-2) ...
mazharrasyad@mazharrasyad:~$ ■
```

\$ sudo apt-get autoremove

Menguninstall paket software yang diinstall oleh paket lain dan sudah tidak diperlukan lagi.

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ sudo apt-get autoremove
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages will be REMOVED:
  libssh2-1 mc-data
0 upgraded, 0 newly installed, 2 to remove and 0 not upgraded.
After this operation, 5.800 kB disk space will be freed.
Do you want to continue? [Y/n] ■
```

```
mazharryad@mazharryad: ~
mazharryad@mazharryad:~$ sudo apt-get autoremove
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages will be REMOVED:
  libssh2-1 mc-data
0 upgraded, 0 newly installed, 2 to remove and 0 not upgraded.
After this operation, 5.800 kB disk space will be freed.
Do you want to continue? [Y/n] y
(Reading database ... 290536 files and directories currently installed.)
Removing libssh2-1:amd64 (1.5.0-2ubuntu0.1) ...
Removing mc-data (3:4.8.15-2) ...
Processing triggers for libc-bin (2.23-0ubuntu9) ...
Processing triggers for man-db (2.7.5-1) ...
Processing triggers for hicolor-icon-theme (0.15-0ubuntu1) ...
Processing triggers for doc-base (0.10.7) ...
Processing 1 removed doc-base file...
Registering documents with scrollkeeper...
mazharryad@mazharryad:~$
```

### 3. dpkg

- **Install paket software**

```
$ sudo dpkg -i libssh2-1_1.4.3-2_amd64.deb
```

Menginstall paket deb libssh2-1 dengan perintah dpkg

```
mazharryad@mazharryad: ~
mazharryad@mazharryad:~$ sudo dpkg -i libssh2-1_1.4.3-2_amd64.deb
dpkg: error processing archive libssh2-1_1.4.3-2_amd64.deb (--install):
 cannot access archive: No such file or directory
Errors were encountered while processing:
 libssh2-1_1.4.3-2_amd64.deb
mazharryad@mazharryad:~$
```

```
mazharryad@mazharryad: ~
mazharryad@mazharryad:~$ ls
Desktop          libssh2-1_1.5.0-2ubuntu0.1_amd64.deb  Pictures
Documents        mc_3%3a4.8.15-2_amd64.deb           Public
Downloads        mc-data_3%3a4.8.15-2_all.deb       Templates
examples.desktop Music                           Videos
mazharryad@mazharryad:~$
```

```
mazharryad@mazharryad: ~
mazharryad@mazharryad:~$ sudo dpkg -i libssh2-1_1.5.0-2ubuntu0.1_amd64.deb
(Reading database ... 290278 files and directories currently installed.)
Preparing to unpack libssh2-1_1.5.0-2ubuntu0.1_amd64.deb ...
Unpacking libssh2-1:amd64 (1.5.0-2ubuntu0.1) over (1.5.0-2ubuntu0.1) ...
Setting up libssh2-1:amd64 (1.5.0-2ubuntu0.1) ...
Processing triggers for libc-bin (2.23-0ubuntu9) ...
mazharryad@mazharryad:~$
```

```
$ sudo dpkg -i mc-data_4.8.1-2ubuntu1_all.deb
```

Menginstall paket deb mc-data dengan perintah dpkg

```
mazharrasyad@mazharrasyad:~$ sudo dpkg -i mc-data_4.8.1-2ubuntu1_all.deb
dpkg: error processing archive mc-data_4.8.1-2ubuntu1_all.deb (--install):
cannot access archive: No such file or directory
Errors were encountered while processing:
 mc-data_4.8.1-2ubuntu1_all.deb
mazharrasyad@mazharrasyad:~$ 

mazharrasyad@mazharrasyad:~$ ls
Desktop          libssh2-1_1.5.0-2ubuntu0.1_amd64.deb  Pictures
Documents        mc_3%3a4.8.15-2_amd64.deb       Public
Downloads        mc-data_3%3a4.8.15-2_all.deb    Templates
examples.desktop Music                           Videos
mazharrasyad@mazharrasyad:~$ 

mazharrasyad@mazharrasyad:~$ sudo dpkg -i mc-data_3%3a4.8.15-2_all.deb
Selecting previously unselected package mc-data.
(Reading database ... 290278 files and directories currently installed.)
Preparing to unpack mc-data_3%3a4.8.15-2_all.deb ...
Unpacking mc-data (3:4.8.15-2) ...
Setting up mc-data (3:4.8.15-2) ...
Processing triggers for doc-base (0.10.7) ...
Processing 1 added doc-base file...
Registering documents with scrollkeeper...
Processing triggers for hicolor-icon-theme (0.15-0ubuntu1) ...
Processing triggers for man-db (2.7.5-1) ...
mazharrasyad@mazharrasyad:~$ 
```

```
$ sudo dpkg -i mc_4.8.1-2ubuntu1_i386.deb
```

Menginstall paket deb mc dengan perintah dpkg

```
mazharrasyad@mazharrasyad:~$ sudo dpkg -i mc_4.8.1-2ubuntu1_i386.deb  
dpkg: error processing archive mc_4.8.1-2ubuntu1_i386.deb (--install):  
cannot access archive: No such file or directory  
Errors were encountered while processing:  
 mc_4.8.1-2ubuntu1_i386.deb  
mazharrasyad@mazharrasyad:~$
```

```
mazharrasyad@mazharrasyad:~$ ls  
Desktop          libssh2-1_1.5.0-2ubuntu0.1_amd64.deb  Pictures  
Documents        mc_3%a4.8.15-2_amd64.deb           Public  
Downloads        mc-data_3%a4.8.15-2_all.deb       Templates  
examples.desktop Music                           Videos  
mazharrasyad@mazharrasyad:~$
```

```
mazharrasyad@mazharrasyad:~$ sudo dpkg -i mc_3%3a4.8.15-2_amd64.deb
Selecting previously unselected package mc.
(Reading database ... 290537 files and directories currently installed.)
Preparing to unpack mc_3%3a4.8.15-2_amd64.deb ...
Unpacking mc (3:4.8.15-2) ...
Setting up mc (3:4.8.15-2) ...
Processing triggers for desktop-file-utils (0.22-1ubuntu5.1) ...
Processing triggers for gnome-menus (3.13.3-6ubuntu3.1) ...
Processing triggers for bamfdaemon (0.5.3~bzr0+16.04.20160824-0ubuntu1) ...
Rebuilding /usr/share/applications/bamf-2.index...
Processing triggers for mime-support (3.59ubuntu1) ...
mazharrasyad@mazharrasyad:~$
```

- **Query paket software**

```
$ dpkg-query -l
```

## Menampilkan query paket software

```
mazharrasyad@mazharrasyad:~$ dpkg-query -l
Desired=Unknown/Install/Remove/Purge/Hold
| Status=Not/Inst/Conf-files/Unpacked/half-conf/Half-inst/trig-aWait/Trig-pend
||/ Err?=(none)/Reinst-required (Status,Err: uppercase=bad)
||/ Name          Version      Architecture Description
+++-+-----+-----+-----+-----+-----+-----+
ii  a11y-profile-m 0.1.10-0ubuntu1  amd64      Accessibility Profile Manager - U
ii  account-plugin 0.12+16.04.2   all        GNOME Control Center account plug
ii  account-plugin 0.12+16.04.2   all        GNOME Control Center account plug
ii  account-plugin 0.12+16.04.2   all        GNOME Control Center account plug
ii  accountsservic 0.6.40-2ubuntu1  amd64      query and manipulate user account
ii  acl            2.2.52-3       amd64      Access control list utilities
ii  acpi-support    0.142         amd64      scripts for handling many ACPI ev
ii  acpid           1:2.0.26-1ubuntu1  amd64      Advanced Configuration and Power
ii  activity-log-m 0.9.7-0ubuntu1  amd64      blacklist configuration user inte
ii  adduser          3.113+nmu3ubuntu1  all        add and remove users and groups
ii  adium-theme-ub  0.3.4-0ubuntu1  all        Adium message style for Ubuntu
ii  adwain-icon-t   3.18.0-2ubuntu1  all        default icon theme of GNOME (smal
ii  aircrack-ng     1:1.2-0~beta1  amd64      wireless WEP/WPA cracking utiliti
ii  aisleriot        1:3.18.2-1ubuntu1  amd64      GNOME solitaire card game collect
ii  alsa-base        1.0.25+dfsg-0       all        ALSA driver configuration files
ii  alsa-utils       1.1.0-0ubuntu1  amd64      Utilities for configuring and usi
ii  anacron          2.3-23         amd64      cron-like program that doesn't go
ii apg              2.2.3.dfsg.1   amd64      Automated Password Generator - St
ii  app-install-da   15.10          all        Ubuntu applications (data files)
```

```
mazharryad@mazharryad: ~
ii  xserver-xorg-v 1:7.7+16ubun amd64          X.Org X server -- output driver m
ii  xserver-xorg-v 1:3.0-0ubunt amd64          X.Org X server -- AMDGPU display
ii  xserver-xorg-v 1:7.9.0-0ubu amd64          X.Org X server -- AMD/ATI display
ii  xserver-xorg-v 1:0.4.4-1bui amd64          X.Org X server -- fbdev display d
ii  xserver-xorg-v 2:2.99.917+g amd64          X.Org X server -- Intel i8xx, i9x
ii  xserver-xorg-v 1:1.0.14-0ub amd64          X.Org X server -- Nouveau display
ii  xserver-xorg-v 0.1.5-2build amd64          X.Org X server -- QXL display dri
ii  xserver-xorg-v 1:7.9.0-0ubu amd64          X.Org X server -- AMD/ATI Radeon
ii  xserver-xorg-v 1:2.3.4-1bui amd64          X.Org X server -- VESA display dr
ii  xserver-xorg-v 1:13.2.1-1bu amd64          X.Org X server -- VMware display
ii  xterm      322-1ubuntu1 amd64              X terminal emulator
ii  xtrans-dev 1:3.5-1    all                  X transport library (development
ii  xul-ext-ubufox 3.4-0ubuntu0 all           Ubuntu modifications for Firefox
ii  xz-utils     5.1.1alpha2 amd64          XZ-format compression utilities
ii  yelp        3.18.1-1ubun amd64          Help browser for GNOME
ii  yelp-xsl     3.18.1-1    all             XSL stylesheets for the yelp help
ii  zeitgeist-core 0.9.16-0ubun amd64          event logging framework - engine
ii  zeitgeist-data 0.9.16-0ubun amd64          event logging framework - passive
ii  zenity       3.18.1.1-1ub amd64          Display graphical dialog boxes fr
ii  zenity-common 3.18.1.1-1ub all           Display graphical dialog boxes fr
ii  zip          3.0-11     amd64          Archiver for .zip files
ii  zlib1g:amd64 1:1.2.8.dfsg amd64          compression library - runtime
ii  zlib1g:i386   1:1.2.8.dfsg i386          compression library - runtime
ii  zlib1g-dev:amd 1:1.2.8.dfsg amd64          compression library - development
mazharryad@mazharryad:~$
```

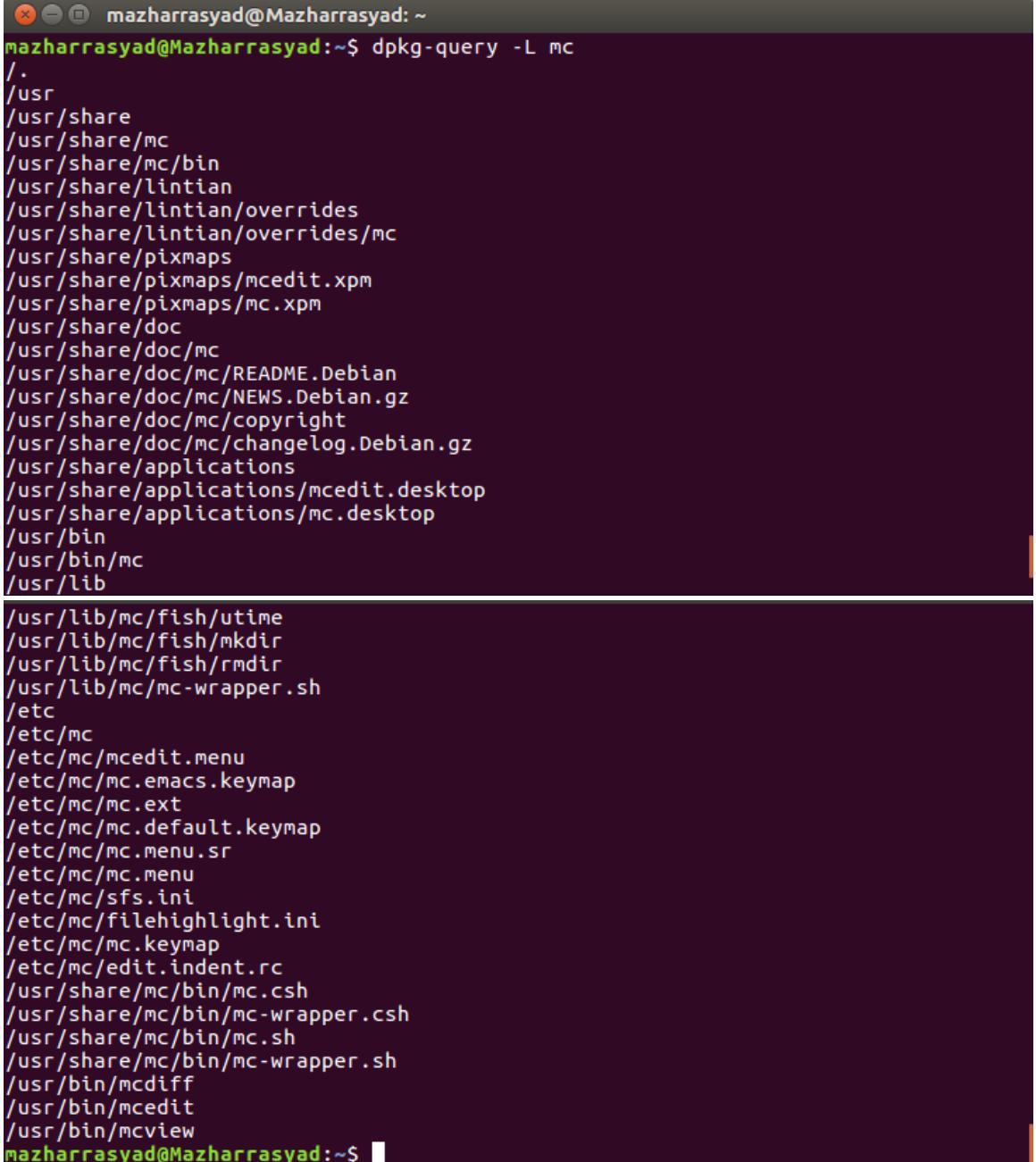
\$ dpkg-query -l mc

Menampilkan seluruh paket atau berdasarkan pola tertentu

```
mazharryad@mazharryad: ~
mazharryad@mazharryad:~$ dpkg-query -l mc
Desired=Unknown/Install/Remove/Purge/Hold
| Status=Not/Inst/Conf-files/Unpacked/half-conf/Half-inst/trig-aWait/Trig-pend
|| Err?=(none)/Reinst-required (Status,Err: uppercase=bad)
||/ Name          Version       Architecture Description
+++-=====-=====-=====-=====-=====-=====
ii  mc            3:4.8.15-2  amd64       Midnight Commander - a powerful f
mazharryad@mazharryad:~$
```

```
$ dpkg-query -L mc
```

Menampilkan daftar file yang berasal dari suatu paket mc



```
mazharryad@mazharryad: ~
mazharryad@mazharryad:~$ dpkg-query -L mc
/.
/usr
/usr/share
/usr/share/mc
/usr/share/mc/bin
/usr/share/lintian
/usr/share/lintian/overrides
/usr/share/lintian/overrides/mc
/usr/share/pixmaps
/usr/share/pixmaps/mcedit.xpm
/usr/share/pixmaps/mc.xpm
/usr/share/doc
/usr/share/doc/mc
/usr/share/doc/mc/README.Debian
/usr/share/doc/mc/NEWS.Debian.gz
/usr/share/doc/mc/copyright
/usr/share/doc/mc/changelog.Debian.gz
/usr/share/applications
/usr/share/applications/mcedit.desktop
/usr/share/applications/mc.desktop
/usr/bin
/usr/bin/mc
/usr/lib
/usr/lib/mc/fish/utime
/usr/lib/mc/fish/mkdir
/usr/lib/mc/fish/rmdir
/usr/lib/mc/mc-wrapper.sh
/etc
/etc/mc
/etc/mc/mcedit.menu
/etc/mc/mc.emacs.keymap
/etc/mc/mc.ext
/etc/mc/mc.default.keymap
/etc/mc/mc.menu.sr
/etc/mc/mc.menu
/etc/mc/sfs.ini
/etc/mc/filehighlight.ini
/etc/mc/mc.keymap
/etc/mc/edit.indent.rc
/usr/share/mc/bin/mc.csh
/usr/share/mc/bin/mc-wrapper.csh
/usr/share/mc/bin/mc.sh
/usr/share/mc/bin/mc-wrapper.sh
/usr/bin/mcdiff
/usr/bin/mcedit
/usr/bin/mcview
mazharryad@mazharryad:~$
```

```
$ dpkg-query -L mc-data
```

Menampilkan daftar file yang berasal dari suatu paket mc-data

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ dpkg-query -L mc-data
/.
/usr
/usr/share
/usr/share/doc-base
/usr/share/doc-base/mc-faq
/usr/share/locale
/usr/share/locale/nb
/usr/share/locale/nb/LC_MESSAGES
/usr/share/locale/nb/LC_MESSAGES/mc.mo
/usr/share/locale/pl
/usr/share/locale/pl/LC_MESSAGES
/usr/share/locale/pl/LC_MESSAGES/mc.mo
/usr/share/locale/ka
/usr/share/locale/ka/LC_MESSAGES
/usr/share/locale/ka/LC_MESSAGES/mc.mo
/usr/share/locale/el
/usr/share/locale/el/LC_MESSAGES
/usr/share/locale/el/LC_MESSAGES/mc.mo
/usr/share/locale/szl
/usr/share/locale/szl/LC_MESSAGES
/usr/share/locale/szl/LC_MESSAGES/mc.mo
/usr/share/locale/fi
/usr/share/man/sr/man1
/usr/share/man/sr/man1/mc.1.gz
/usr/share/man/hu
/usr/share/man/hu/man1
/usr/share/man/hu/man1/mc.1.gz
/usr/share/man/man1
/usr/share/man/man1/mcedit.1.gz
/usr/share/man/man1/mc.1.gz
/usr/share/man/man1/mcview.1.gz
/usr/share/man/es
/usr/share/man/es/man1
/usr/share/man/es/man1/mc.1.gz
/usr/share/man/ru
/usr/share/man/ru/man1
/usr/share/man/ru/man1/mc.1.gz
/usr/share/doc/mc/FAQ.gz
/usr/share/doc/mc/ABOUT-NLS.gz
/usr/share/doc/mc/AUTHORS
/usr/share/doc/mc/TODO.gz
/usr/share/doc/mc/README.gz
/usr/share/doc/mc/HACKING.gz
/usr/share/man/man1/mcdiff.1.gz
mazharrasyad@mazharrasyad:~$
```

```
$ dpkg-query -S /usr/bin/mc
```

Menampilkan paket yang memiliki suatu file di /usr/bin/mc

```
mazharrasyad@mazharrasyad: ~
mazharrasyad@mazharrasyad:~$ dpkg-query -S /usr/bin/mc
mc: /usr/bin/mc
mazharrasyad@mazharrasyad:~$
```

```
$ dpkg-query -S /bin/ls
```

Menampilkan paket yang memiliki suatu file di /bin/ls

```
mazharrysyad@mazharrysyad:~$ dpkg-query -S /bin/ls
coreutils: /bin/ls
mazharrysyad@mazharrysyad:~$
```

```
$ dpkg-query -p mc
```

Menampilkan informasi mengenai suatu paket mc

```
mazharrysyad@mazharrysyad:~$ dpkg-query -p mc
dpkg-query: package 'mc' is not available
Use dpkg --info (= dpkg-deb --info) to examine archive files,
and dpkg --contents (= dpkg-deb --contents) to list their contents.
mazharrysyad@mazharrysyad:~$
```

```
$ dpkg-query -p mc-data
```

Menampilkan informasi mengenai suatu paket mc-data

```
mazharrysyad@mazharrysyad:~$ dpkg-query -p mc-data
dpkg-query: package 'mc-data' is not available
Use dpkg --info (= dpkg-deb --info) to examine archive files,
and dpkg --contents (= dpkg-deb --contents) to list their contents.
mazharrysyad@mazharrysyad:~$
```

- **Uninstall paket software**

```
$ sudo dpkg -r mc
```

Menguninstall paket software mc

```
mazharrysyad@mazharrysyad:~$ sudo dpkg -r mc
(Reading database ... 290624 files and directories currently installed.)
Removing mc (3:4.8.15-2) ...
Processing triggers for desktop-file-utils (0.22-1ubuntu5.1) ...
Processing triggers for gnome-menus (3.13.3-6ubuntu3.1) ...
Processing triggers for bamfdaemon (0.5.3~bzr0+16.04.20160824-0ubuntu1) ...
Rebuilding /usr/share/applications/bamf-2.index...
Processing triggers for mime-support (3.59ubuntu1) ...
mazharrysyad@mazharrysyad:~$
```

```
$ sudo dpkg -r mc-data
```

Menguninstall paket software mc-data

```
mazharrasyad@mazharrasyad:~$ sudo dpkg -r mc-data
(Reading database ... 290536 files and directories currently installed.)
Removing mc-data (3:4.8.15-2) ...
Processing triggers for man-db (2.7.5-1) ...
Processing triggers for hicolor-icon-theme (0.15-0ubuntu1) ...
Processing triggers for doc-base (0.10.7) ...
Processing 1 removed doc-base file...
Registering documents with scrollkeeper...
mazharrasyad@mazharrasyad:~$
```

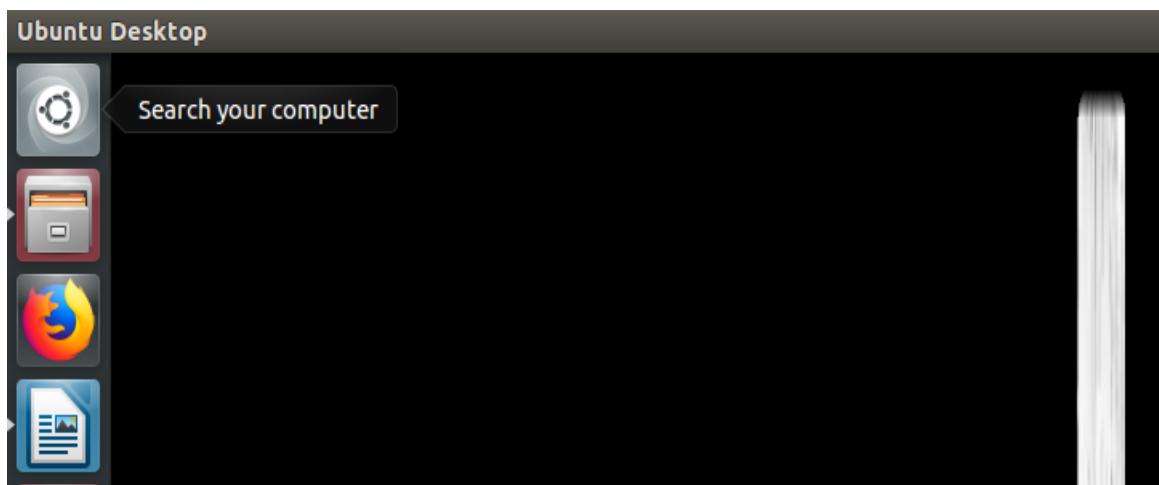
```
$ sudo dpkg -r libssh2-1
```

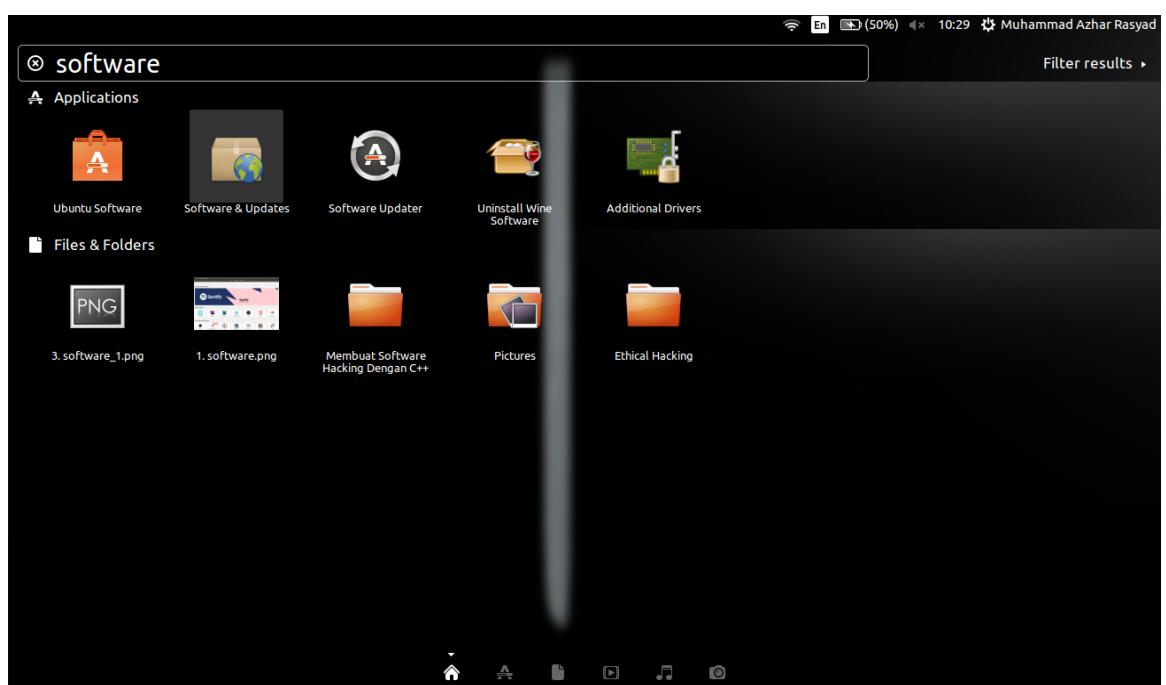
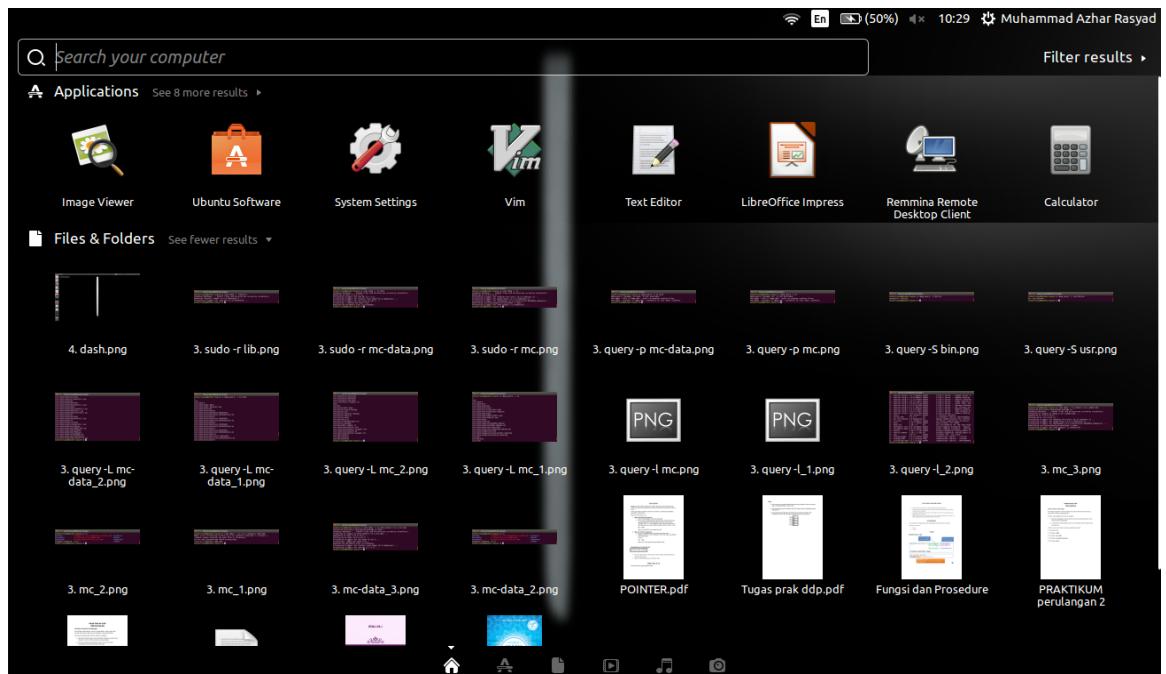
Menguninstall paket software libssh2-1

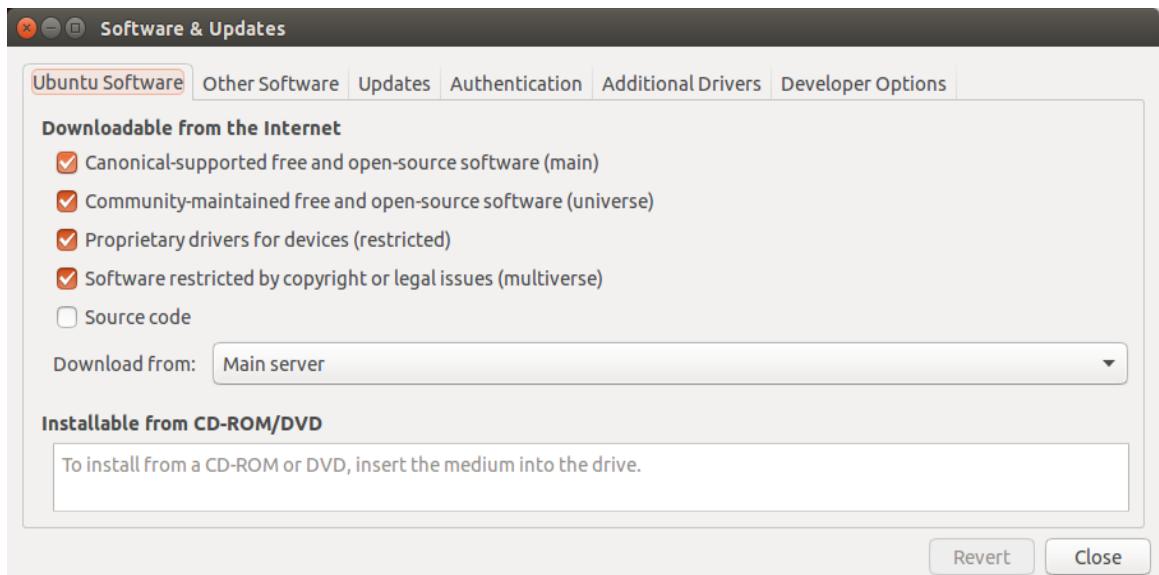
```
mazharrasyad@mazharrasyad:~$ sudo dpkg -r libssh2-1
(Reading database ... 290277 files and directories currently installed.)
Removing libssh2-1:amd64 (1.5.0-2ubuntu0.1) ...
Processing triggers for libc-bin (2.23-0ubuntu9) ...
mazharrasyad@mazharrasyad:~$
```

## 4. Mengubah Server Repository

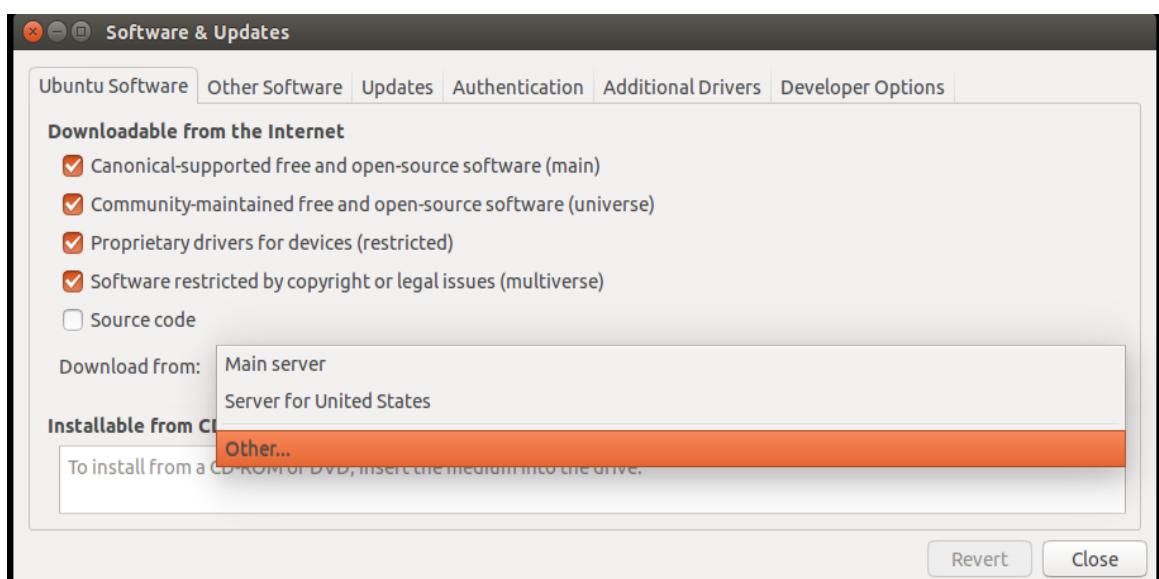
- Jalankan Software & Updates dengan cara klik ikon Dash pada Launcher. Kemudian pada kolom pencarian, ketikkan software lalu pilih Software & Updates.



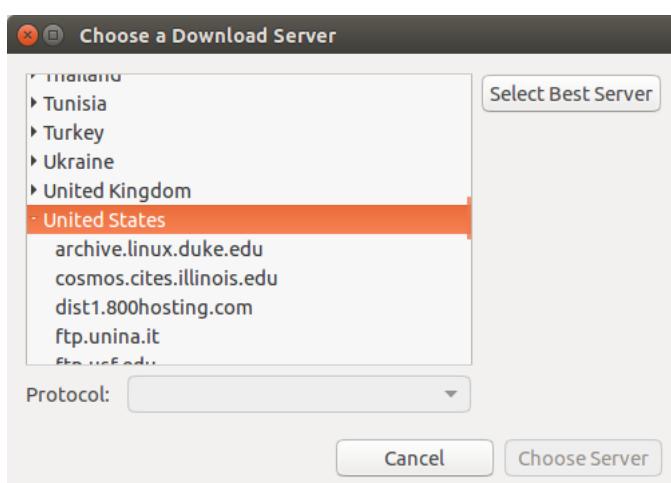




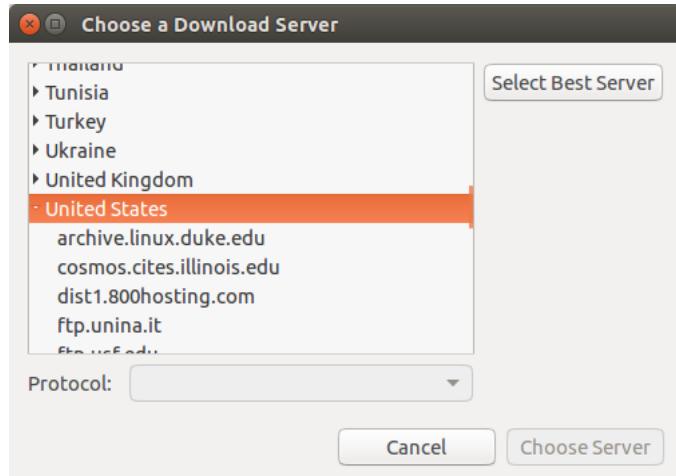
- Pada window Software & Updates, klik menu dropdown Download from:, kemudian pilih Other... dari daftar.



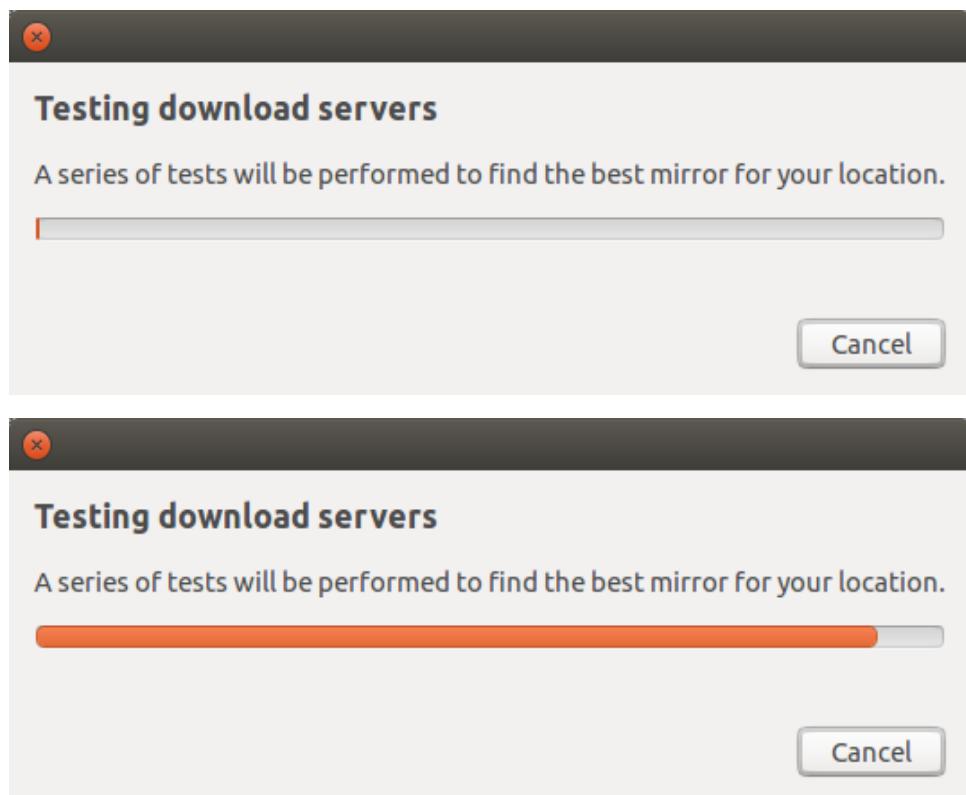
Maka akan tampil sebagai berikut



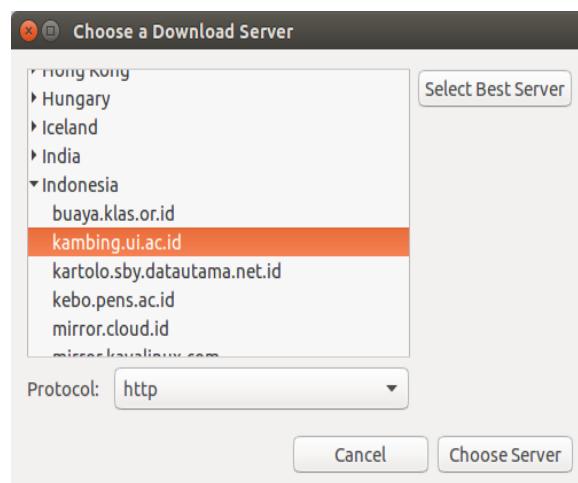
- Klik tombol Select Best Server untuk menampilkan pilihan server yang lokasinya dekat dengan kita. Kemudian pilih kambing.ui.ac.id lalu klik tombol Choose Server.



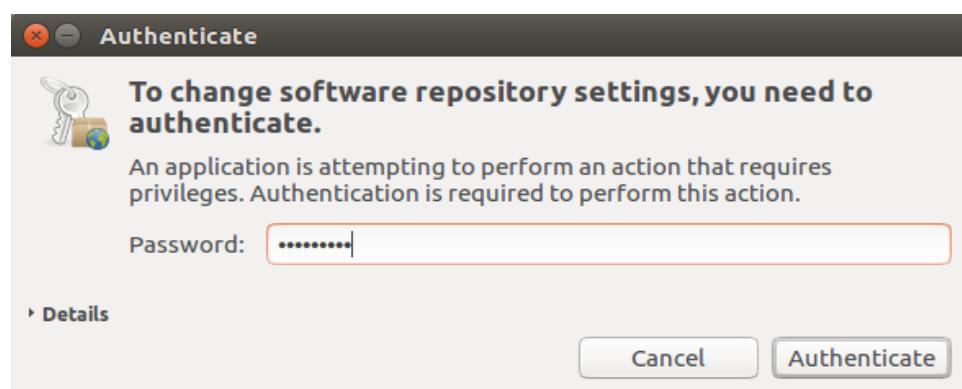
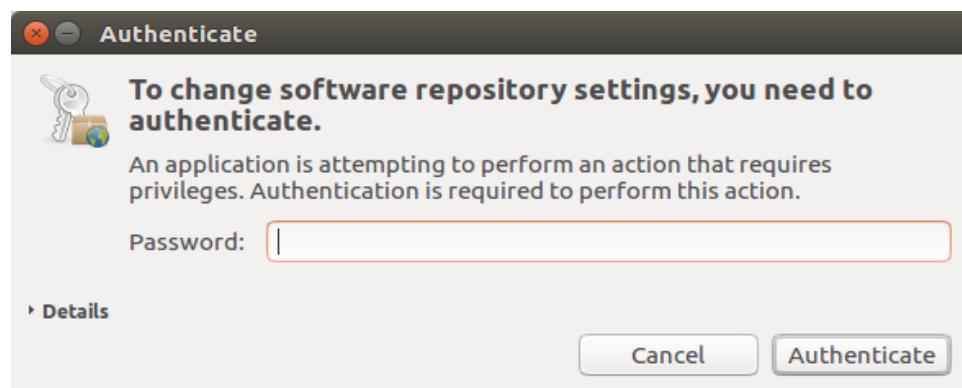
Jika sudah klik tombol Select Best Server maka akan terjadi proses seperti berikut dan tunggu hingga prosesnya selesai.



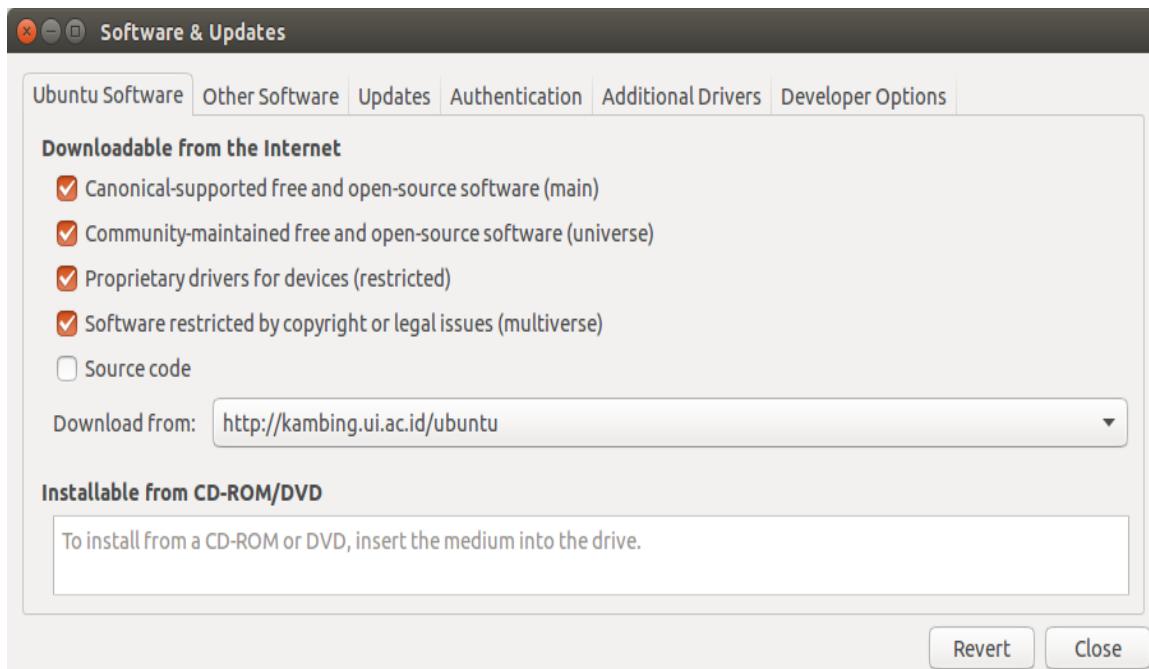
Maka akan tampil sebagai berikut



- Ketikkan password pada window otentikasi yang muncul.

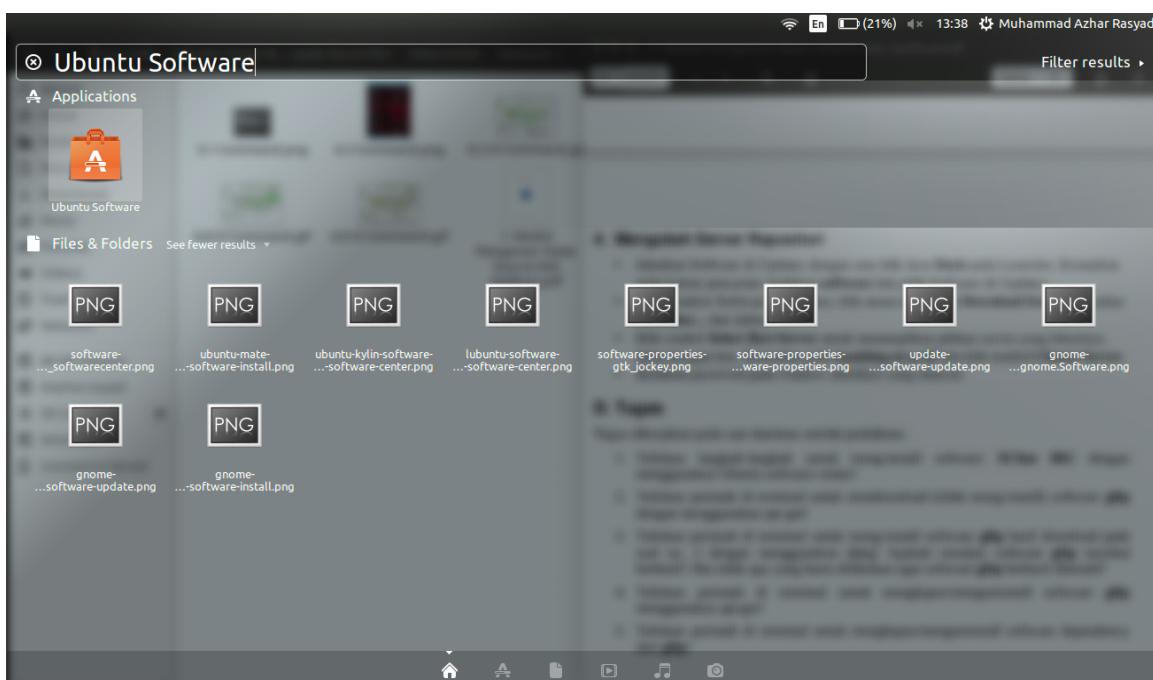


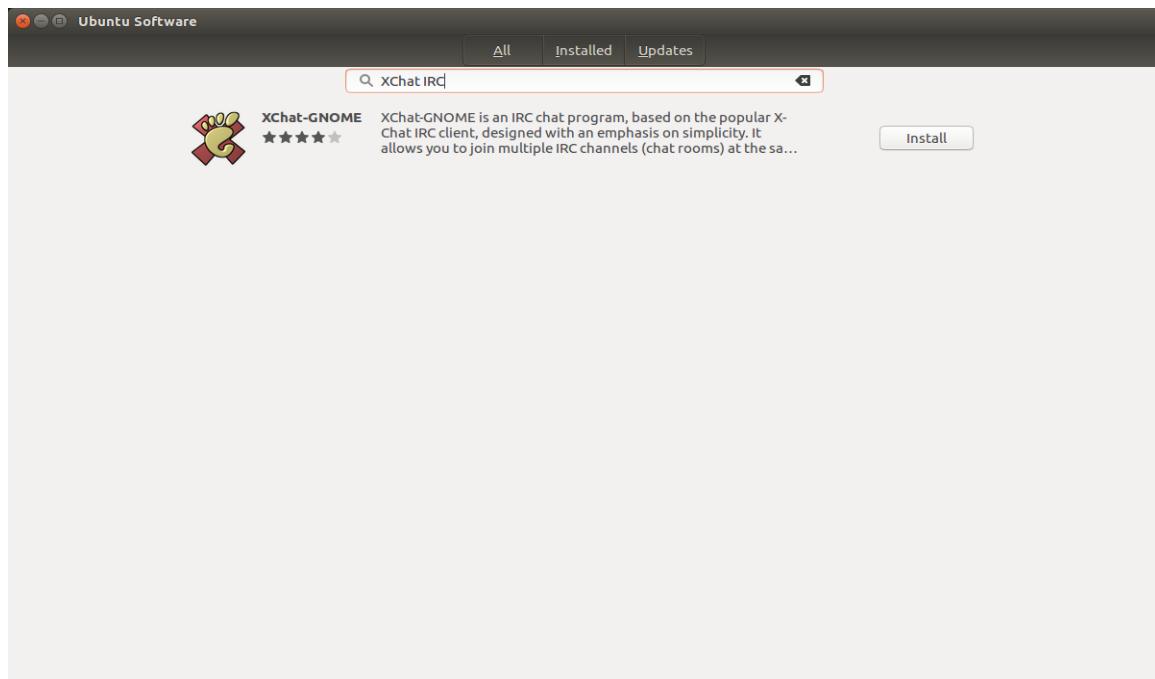
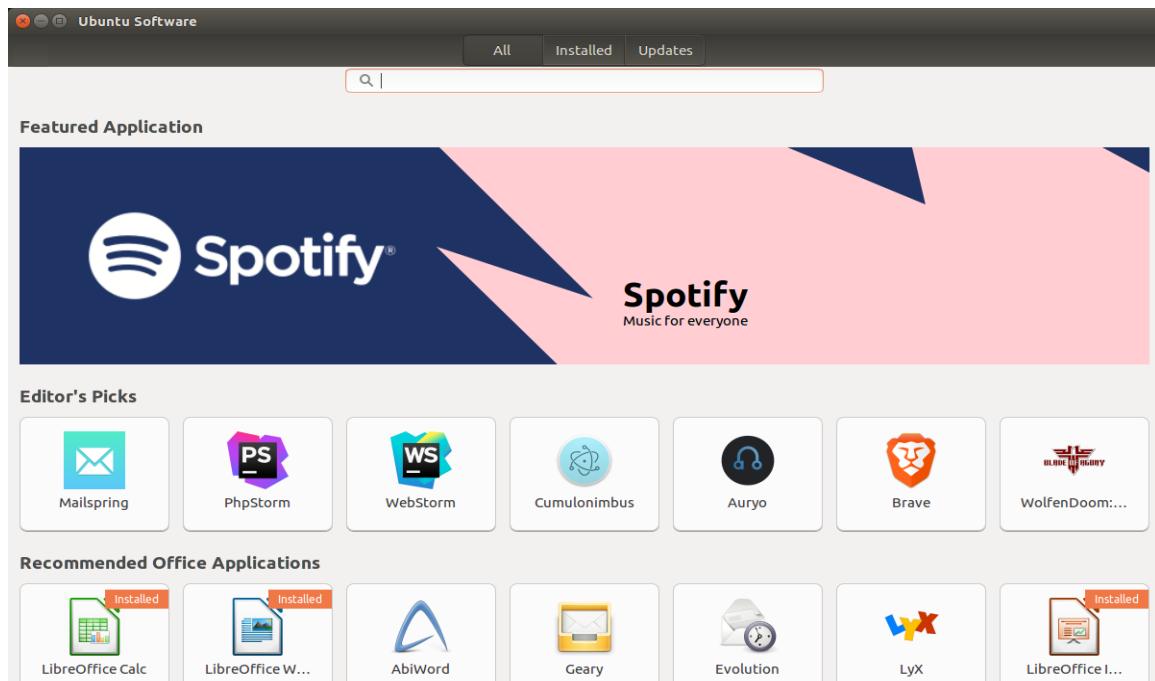
Hasilnya akan seperti gambar berikut

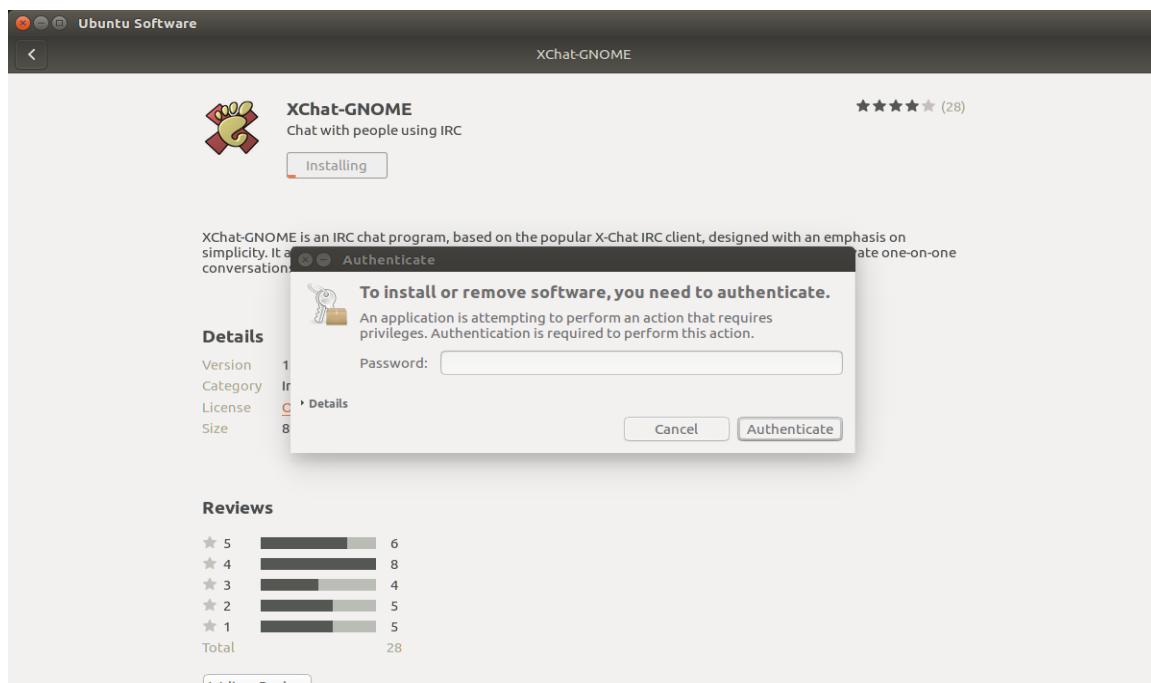
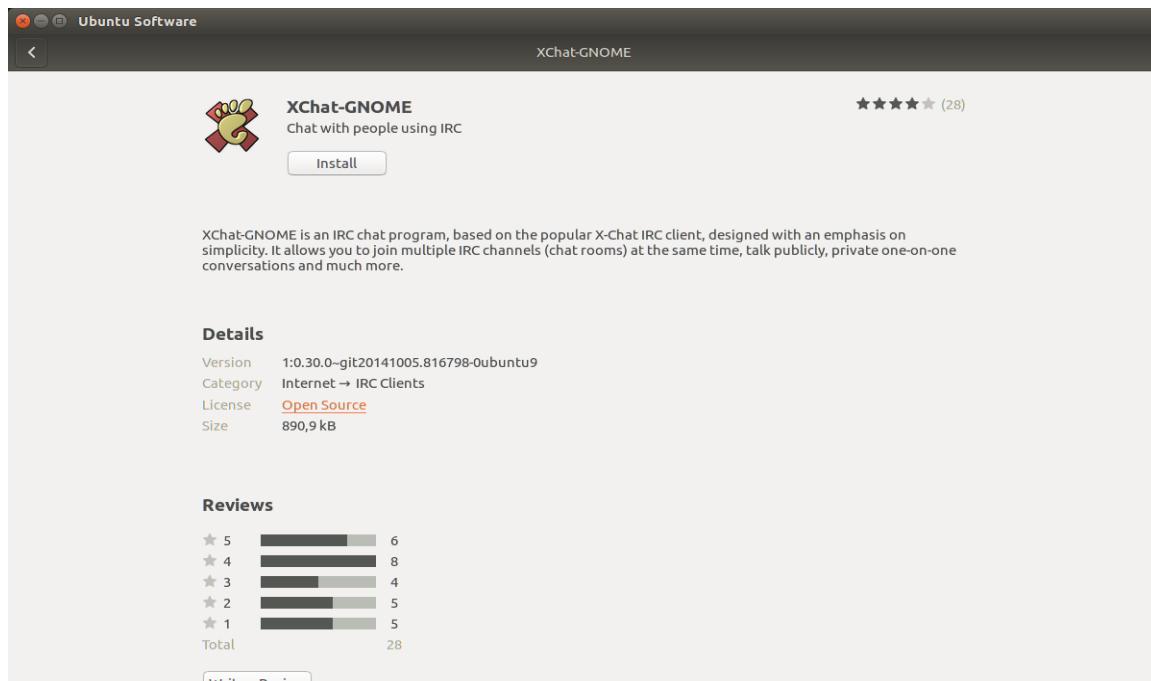


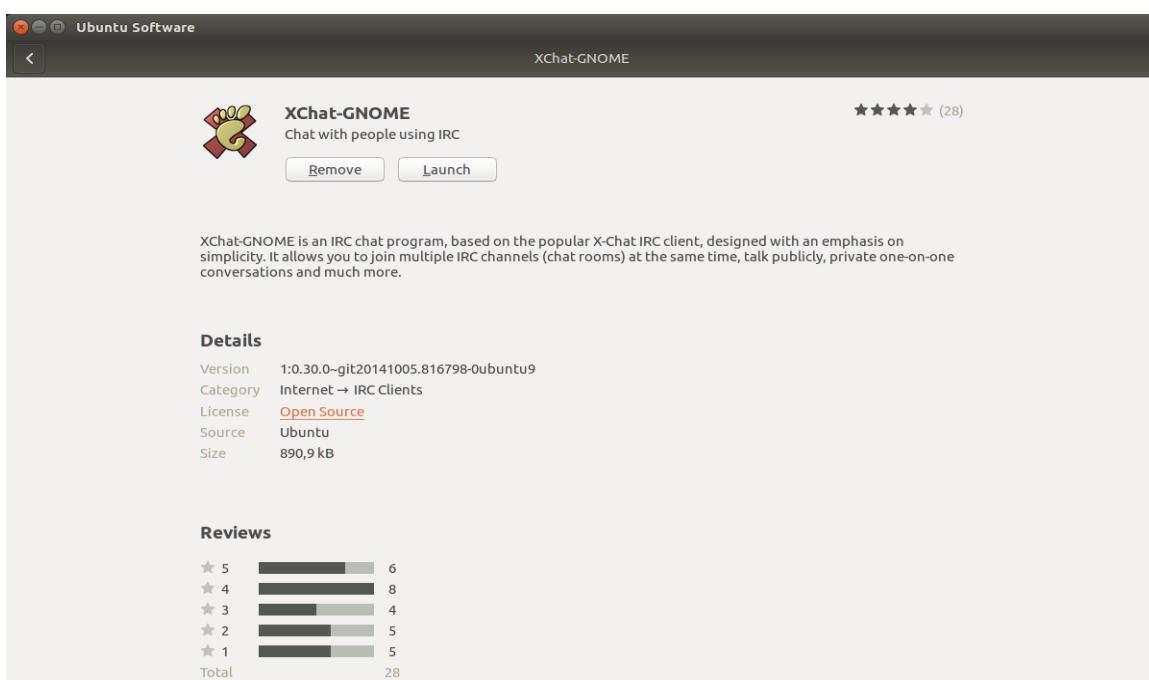
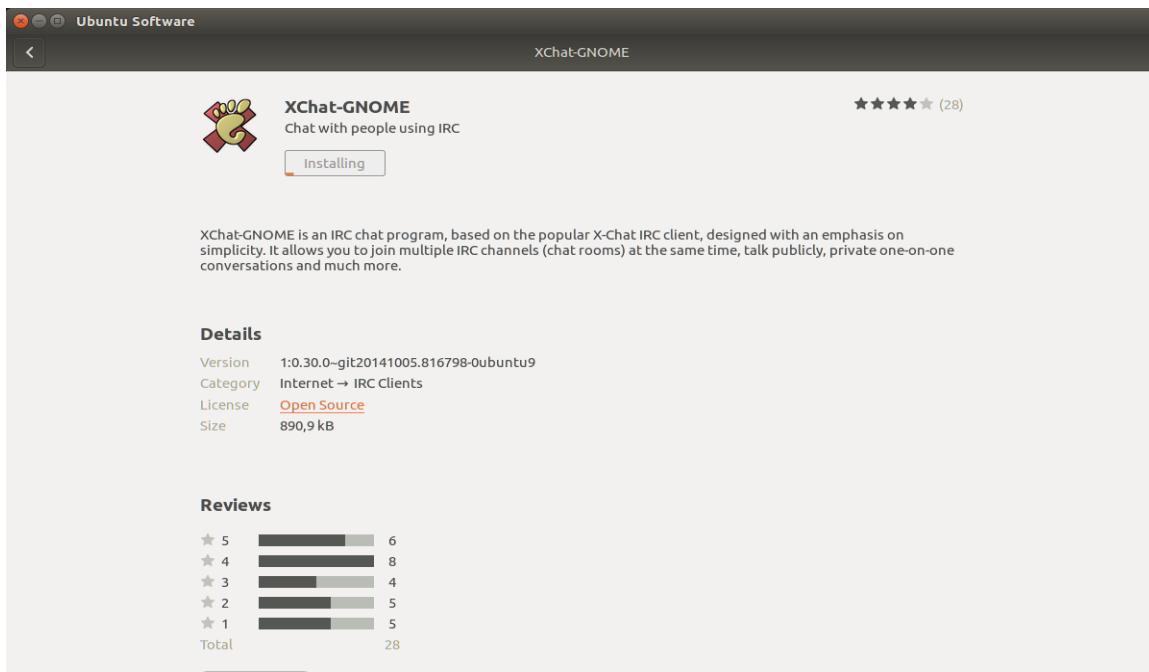
## D. Tugas

1. Tuliskan langkah-langkah untuk meng-install software XChat IRC dengan menggunakan Ubuntu software center!









2. Tuliskan perintah di terminal untuk mendownload (tidak meng-install) software gftp dengan menggunakan apt-get!

```
mazharrasyad@mazharrasyad:~$ apt-get download gftp
Get:1 http://kambing.ui.ac.id/ubuntu xenial/universe amd64 gftp all 2.0.19-4ubuntu2 [1.846 B]
Fetched 1.846 B in 0s (2.178 B/s)
mazharrasyad@mazharrasyad:~$
```

```
mazharrasyad@mazharrasyad:~  
mazharrasyad@mazharrasyad:~$ ls -l  
total 1748  
drwxr-xr-x 2 mazharrasyad mazharrasyad 4096 Des 23 11:52 Desktop  
drwxr-xr-x 2 mazharrasyad mazharrasyad 4096 Nov  5 17:01 Documents  
drwxr-xr-x 2 mazharrasyad mazharrasyad 4096 Des 21 06:01 Downloads  
-rw-r--r-- 1 mazharrasyad mazharrasyad 8980 Nov  5 16:58 examples.desktop  
-rw-r--r-- 1 mazharrasyad mazharrasyad 1846 Feb 14 2014 gftp_2.0.19-4ubuntu2_all.deb  
-rw-r--r-- 1 mazharrasyad mazharrasyad 70234 Feb 16 2017 libssh2-1_1.5.0-2ubuntu0.1_amd64.deb  
-rw-r--r-- 1 mazharrasyad mazharrasyad 462158 Des 22 2015 mc_3%3a4.8.15-2_amd64.deb  
-rw-r--r-- 1 mazharrasyad mazharrasyad 1201920 Des 22 2015 mc-data_3%3a4.8.15-2_all.deb  
drwxr-xr-x 2 mazharrasyad mazharrasyad 4096 Nov  5 17:01 Music  
drwxr-xr-x 7 mazharrasyad mazharrasyad 4096 Des 25 14:53 Pictures  
drwxr-xr-x 2 mazharrasyad mazharrasyad 4096 Nov  5 17:01 Public  
drwxr-xr-x 2 mazharrasyad mazharrasyad 4096 Nov  5 17:01 Templates  
drwxr-xr-x 2 mazharrasyad mazharrasyad 4096 Nov  5 17:01 Videos  
mazharrasyad@mazharrasyad:~$
```

3. Tuliskan perintah di terminal untuk meng-install software gftp hasil download pada soal no. 2 dengan menggunakan dpkg! Apakah instalasi software gftp tersebut berhasil? Jika tidak apa yang harus dilakukan agar software gftp berhasil diinstall?

```
mazharrasyad@mazharrasyad:~  
mazharrasyad@mazharrasyad:~$ sudo dpkg -i gftp_2.0.19-4ubuntu2_all.deb  
[sudo] password for mazharrasyad:  
Selecting previously unselected package gftp.  
(Reading database ... 290389 files and directories currently installed.)  
Preparing to unpack gftp_2.0.19-4ubuntu2_all.deb ...  
Unpacking gftp (2.0.19-4ubuntu2) ...  
dpkg: dependency problems prevent configuration of gftp:  
 gftp depends on gftp-gtk (>= 2.0.19-4ubuntu2); however:  
   Package gftp-gtk is not installed.  
 gftp depends on gftp-text (>= 2.0.19-4ubuntu2); however:  
   Package gftp-text is not installed.  
  
dpkg: error processing package gftp (--install):  
 dependency problems - leaving unconfigured  
Errors were encountered while processing:  
 gftp  
mazharrasyad@mazharrasyad:~$
```

```
mazharrysyad@mazharrysyad:~$ sudo apt-get -f install
Reading package lists... Done
Building dependency tree
Reading state information... Done
Correcting dependencies... Done
The following package was automatically installed and is no longer required:
  xchat-gnome-common
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  gftp-common gftp-gtk gftp-text
The following NEW packages will be installed:
  gftp-common gftp-gtk gftp-text
0 upgraded, 3 newly installed, 0 to remove and 0 not upgraded.
1 not fully installed or removed.
Need to get 634 kB of archives.
After this operation, 4.001 kB of additional disk space will be used.
Do you want to continue? [Y/n] 
```

```
mazharrysyad@mazharrysyad:~$ 
Selecting previously unselected package gftp-gtk.
Preparing to unpack .../gftp-gtk_2.0.19-4ubuntu2_amd64.deb ...
Unpacking gftp-gtk (2.0.19-4ubuntu2) ...
Selecting previously unselected package gftp-text.
Preparing to unpack .../gftp-text_2.0.19-4ubuntu2_amd64.deb ...
Unpacking gftp-text (2.0.19-4ubuntu2) ...
Processing triggers for man-db (2.7.5-1) ...
Processing triggers for desktop-file-utils (0.22-1ubuntu5.1) ...
Processing triggers for gnome-menus (3.13.3-6ubuntu3.1) ...
Processing triggers for bamfdaemon (0.5.3~bzr0+16.04.20160824-0ubuntu1) ...
Rebuilding /usr/share/applications/bamf-2.index...
Processing triggers for mime-support (3.59ubuntu1) ...
Setting up gftp-common (2.0.19-4ubuntu2) ...
Setting up gftp-gtk (2.0.19-4ubuntu2) ...
Setting up gftp-text (2.0.19-4ubuntu2) ...
Setting up gftp (2.0.19-4ubuntu2) ...
mazharrysyad@mazharrysyad:~$ 
```

```
mazharrysyad@mazharrysyad:~$ sudo dpkg -i gftp_2.0.19-4ubuntu2_all.deb
(Reading database ... 290513 files and directories currently installed.)
Preparing to unpack gftp_2.0.19-4ubuntu2_all.deb ...
Unpacking gftp (2.0.19-4ubuntu2) over (2.0.19-4ubuntu2) ...
Setting up gftp (2.0.19-4ubuntu2) ...
mazharrysyad@mazharrysyad:~$ 
```

4. Tuliskan perintah di terminal untuk menghapus/menguninstall software gftp menggunakan apt-get!

```
mazharrasyad@mazharrasyad:~$ sudo apt-get remove gftp
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  gftp-common gftp-gtk gftp-text xchat-gnome-common
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
  gftp
0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.
After this operation, 33,8 kB disk space will be freed.
Do you want to continue? [Y/n] 
```

```
mazharrasyad@mazharrasyad:~$ Do you want to continue? [Y/n] Y
(Reading database ... 290512 files and directories currently installed.)
Removing gftp (2.0.19-4ubuntu2) ...
mazharrasyad@mazharrasyad:~$ 
```

5. Tuliskan perintah di terminal untuk menghapus/menguninstall software dependency dari gftp!

```
mazharrasyad@mazharrasyad:~$ sudo apt-get autoremove
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages will be REMOVED:
  gftp-common gftp-gtk gftp-text xchat-gnome-common
0 upgraded, 0 newly installed, 4 to remove and 0 not upgraded.
After this operation, 4.902 kB disk space will be freed.
Do you want to continue? [Y/n] 
```

```
mazharrasyad@mazharrasyad:~$ Do you want to continue? [Y/n] Y
(Reading database ... 290509 files and directories currently installed.)
Removing gftp-gtk (2.0.19-4ubuntu2) ...
Removing gftp-text (2.0.19-4ubuntu2) ...
Removing gftp-common (2.0.19-4ubuntu2) ...
Removing xchat-gnome-common (1:0.30.0~git20141005.816798-0ubuntu9) ...
Processing triggers for man-db (2.7.5-1) ...
Processing triggers for desktop-file-utils (0.22-1ubuntu5.1) ...
Processing triggers for gnome-menus (3.13.3-6ubuntu3.1) ...
Processing triggers for bamfdaemon (0.5.3~bzr0+16.04.20160824-0ubuntu1) ...
Rebuilding /usr/share/applications/bamf-2.index...
Processing triggers for mime-support (3.59ubuntu1) ...
Processing triggers for libglib2.0-0:amd64 (2.48.2-0ubuntu1) ...
Processing triggers for hicolor-icon-theme (0.15-0ubuntu1) ...
Processing triggers for gconf2 (3.2.6-3ubuntu6) ...
mazharrasyad@mazharrasyad:~$ 
```

## **Kesimpulan**

Jadi untuk memudahkan dalam melakukan instalasi, menghapus, upgrade dan konfigurasi software pada ubuntu untuk mengakses software (repositori) di Ubuntu dapat menggunakan dua buah tool yaitu Ubuntu Software Center yang berbasis GUI dan apt-get yang berbasis command line. Disamping menggunakan sistem manajemen paket yang berbasis repositori, untuk menginstall software di Ubuntu juga dapat dilakukan secara manual menggunakan perintah dpkg.