Kubuntu Desktop Guide

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Abstract

The Kubuntu Desktop Guide aims to explain to the reader how to configure and use the Kubuntu desktop.

Credits and License

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About This Guide
1. Conventions

The following notes will be used throughout the book:

- A note presents interesting, sometimes technical, pieces of information related to the surrounding discussion.

- A tip offers advice or an easier way of doing something.

- A caution alerts the reader to potential problems and helps avoid them.

- A warning advises the reader of a hazard that may arise in a given scenario.

Cross-reference conventions for print will be displayed as follows:

- Links to other documents or websites will look like this [http://www.ubuntu.com].

PDF, HTML, and XHTML versions of this document will use hyperlinks to handle cross-referencing.

Type conventions will be displayed as follows:

- File names or paths to directories will be shown in monospace.

- Commands that you type at a Terminal command prompt will be shown as:
  command to type

- Options that you click, select, or choose in a user interface will be shown in monospace type.

Menu selections, mouse actions, and keyboard short-cuts:

- A sequence of menu selections will be displayed as follows: File → Open

- Mouse actions shall assume a right-handed mouse configuration. The terms “click” and “double-click” refer to using the left mouse button. The term “right-click” refers to using the right mouse button. The term “middle-click” refers to using the middle mouse button, pressing down on the scroll wheel, or pressing both the left and right buttons simultaneously, based on the design of your mouse.

- Keyboard shortcut combinations will be displayed as follows: Ctrl-N. Where the conventions for “Control”, “Shift,” and “Alternate” keys will be Ctrl, Shift, and Alt, respectively, and shall mean the first key is to be held down while pressing the second key.
2. Contributing and Feedback

This book is developed by the Ubuntu Documentation Team [https://wiki.ubuntu.com/DocumentationTeam]. You can contribute to this document by sending ideas or comments to the Ubuntu Documentation Team mailing list. Information about the team, its mailing lists, projects, etc. can be found on the Ubuntu Documentation Team Website [https://wiki.ubuntu.com/DocumentationTeam].

If you see a problem with this document, or would like to make a suggestion, you can simply file a bug report at the Ubuntu Bugtracker [https://launchpad.net/products/ubuntu-doc/+bugs]. Your help is vital to the success of our documentation!

Many thanks,

- Your Ubuntu Documentation Team
Chapter 1. Introduction

This chapter provides some background information about Kubuntu, obtaining Kubuntu and finding help with Kubuntu.
1. About Kubuntu

Thank you for your interest in Kubuntu 6.06.1 LTS - the Dapper Drake release.

Kubuntu is an entirely open source operating system built around the Linux kernel. The Kubuntu community is built around the ideals enshrined in the Ubuntu Philosophy [http://www.ubuntu.com/ubuntu/philosophy]: that software should be available free of charge, that software tools should be usable by people in their local language and despite any disabilities, and that people should have the freedom to customize and alter their software in whatever way they see fit. For those reasons:

• Kubuntu will always be free of charge, and there is no extra fee for the "enterprise edition," we make our very best work available to everyone on the same Free terms.
• Kubuntu includes the very best in translations and accessibility infrastructure that the Free Software community has to offer, to make Kubuntu usable for as many people as possible.
• Kubuntu is released regularly and predictably; a new release is made every six months. You can use the current stable release or explore the current development release. Each release is supported for at least 18 months.
• Kubuntu is entirely committed to the principles of open source software development; we encourage people to use open source software, improve it, and pass it on.

The Kubuntu community is comprised of developers, programmers, testers, tech-writers, documentation testers, translators, and most importantly, the people who use Kubuntu every day. We invite you to join this community and help make Kubuntu the operating system you, your family, your friends, and your colleagues will love to use. Help us translate Kubuntu into your language, try it on new and unusual hardware, improve the experience of other users with hints, tips, and FAQs, or help to shape the direction Kubuntu is headed by providing feedback about the software you love most.

Find out more at the Kubuntu website [http://www.kubuntu.org].

1.1. About the Name

Kubuntu is based on the Ubuntu system, but with the latest KDE packages. Kubuntu means "towards humanity" in Bemba. Kubuntu is pronounced "koo-boon-too".

Ubuntu is a South African ethical ideology focusing on people's allegiances and relations with each other. The word comes from the Zulu and Xhosa languages. Ubuntu (pronounced "oo-BOON-too") is seen as a traditional African concept, is regarded as one of the founding principles of the new republic of South Africa and is connected to the idea of an African Renaissance.

A rough translation of the principle of Ubuntu is "humanity towards others". Another translation could be: "the belief in a universal bond of sharing that connects all humanity".

A person with ubuntu is open and available to others, affirming of others, does not feel threatened that others are able and good, for he or she has a proper self-assurance
that comes from knowing that he or she belongs in a greater whole and is diminished when others are humiliated or diminished, when others are tortured or oppressed.

—Archbishop Desmond Tutu

As a platform based on GNU/Linux, the Kubuntu operating system brings the spirit of ubuntu to the software world.

### 1.2. Free Software

The Kubuntu project is entirely committed to the principles of open source software development; people are encouraged to use open source software, improve it, and pass it on. This means that Kubuntu is and will always be free of charge.

However, this means more than just being available at zero cost. The philosophy of Free Software is that people should be free to use software in all the ways that are "socially useful". "Free software" not only means that you shouldn't have to pay for it, it also means that you should be able to use the software in any way you wish. The code that makes up Free Software is available for anyone to download, change, fix, and use in any way. So apart from the fact that Free Software is often available without charge, this freedom also has technical advantages: when programs are developed, the hard work of others can be used and built upon. This cannot happen with non-free Software, and when programs are developed, they have to start from scratch. For this reason the development of Free Software is fast, efficient and exciting!

You can find out more about the philosophy of Free Software [here](http://www.gnu.org/philosophy/).

### 1.3. The Difference

There are many different operating systems based on GNU/Linux: Debian, SUSE, Gentoo, RedHat, and Mandriva for example. Kubuntu is yet another contender in what is already a highly competitive world. So what makes Kubuntu different?

Based on Debian, one of the most widely acclaimed, technologically advanced, and well-supported distributions, Kubuntu aims to create a distribution that provides an up-to-date and coherent Linux system for desktop and server computing. Kubuntu includes a number of carefully selected packages from the Debian distribution and retains its powerful package management system, which allows easy installation and clean removal of programs. Unlike most distributions that ship with a large amount of software that may or may not be of use, Kubuntu's list of packages is reduced to a number of important applications of high quality.

By focusing on quality, Kubuntu produces a robust and feature-rich computing environment that is suitable for use in both home and commercial environments. The project takes the time required to focus on finer details and is able to release a version featuring the latest and greatest of today's software once every 6 months. Kubuntu is available in flavors for the i386 (386/486/Pentium(I/II/III/IV) and Athlon/Duron/Sempron processors), x86_64 (Athlon64, Opteron, and new 64-bit Intel processors), and PowerPC (iBook/Powerbook, G4 and G5) architectures.
1.4. Long-Term Support

Every Kubuntu release is supported for at least 18 months with security and other updates. Kubuntu 6.06.1 LTS is a special enterprise-ready release, and is supported for 3 years on the desktop, and 5 years on the server. The development process of Kubuntu 6.06.1 LTS was slightly longer than usual to concentrate on a number of areas:

- Quality Assurance
- Localisation
- Certification

As a result, it will be possible to rely on Kubuntu 6.06.1 LTS for a longer period than usual. Therefore this release of Kubuntu is referred to as "LTS" or "Long-Term Support".

1.5. The Desktop

The default desktop environment for Kubuntu is KDE [http://www.kde.org/], a leading UNIX and Linux desktop suite and development platform.

Another leading UNIX and Linux desktop is Gnome [http://www.gnome.org/]. Kubuntu does not make use of the Gnome desktop by default. However, the Ubuntu [http://www.ubuntu.com] project offers Kubuntu users a choice between these two excellent desktop environments. Thanks to the efforts of the Ubuntu team, Kubuntu users are able to install and use the Gnome desktop easily on their system. The Gnome desktop can be found in and downloaded from the main Ubuntu archive. The easiest way to get a working install of Ubuntu is `sudo apt-get install ubuntu-desktop`. This will install the different packages required and set everything up correctly.

After everything is installed, one can choose which environment to use: either KDE or Gnome.

1.6. Version and Release Numbers

The Kubuntu version numbering scheme is based on the date we release a version of the distribution. The version number comes from the year and month of the release rather than reflecting the actual revision of the software. So, our first release (Hoary Hedgehog) was in April 2005, so its version was 5.04. The second release (Breezy Badger) was in October 2005, so its version number was 5.10. This version (Dapper Drake) was released in June 2006, so its version number is 6.06.1 LTS.

1.7. Backing and Support

Kubuntu is maintained by a quickly growing community. The project is sponsored by Canonical Ltd. [http://www.canonical.com], a holding company founded by Mark Shuttleworth. Canonical employs the core Ubuntu developers and offers support and consulting services for Ubuntu.

Canonical Ltd also sponsors a number of other open source software projects, more information about which can be found on the Canonical website [http://www.canonical.com].
1.8. What is Linux?

The Linux kernel [http://www.kernel.org], pronounced "lee-nucks" is the heart of the Kubuntu operating system. A kernel is an important part of any operating system, providing the communication bridge between hardware and software.

Linux was brought to life in 1991 by a Finnish student named Linus Torvalds. At the time, it would run only on i386 systems, and was essentially an independently created clone of the UNIX kernel, intended to take advantage of the then-new i386 architecture.

Nowadays, thanks to a substantial amount of development effort by people all around the world, Linux runs on virtually every modern architecture.

The Linux kernel has gained an ideological importance as well as a technical one. There is an entire community of people who believe in the ideals of Free Software and spend their time helping to make open source technology as good as it can be.

People in this community gave rise to initiatives such as Ubuntu, standards committees that shape the development of the Internet, organizations like the Mozilla Foundation, responsible for creating Mozilla Firefox, and countless other software projects from which you've certainly benefited in the past.

The spirit of open source, commonly attributed to Linux, is influencing software developers and users everywhere to drive communities with common goals.

1.9. What is GNU?

The GNU Project, pronounced "guh-noo", was launched in 1984 to develop a complete UNIX-style operating system which is comprised of Free Software: the GNU system. Variants of the GNU operating system, which use the Linux kernel, are now widely used; though these systems are often referred to as "Linux", they are more accurately called GNU/Linux systems.

The GNU project is closely linked to the philosophy of free software, which is central to the projects that derive from it, such as Ubuntu. The concept of Free Software is explained at Section 1.2, “Free Software” [p. 19].
2. Getting Kubuntu

There are a number of methods you may use to obtain a copy of Kubuntu, all of which are described on the Kubuntu Web site download page [http://releases.ubuntu.com/kubuntu/].

The first method is to download an ISO image from a mirror server near you and make an CD to install Kubuntu. Two types of CDs are available:

- **Desktop CD** - the desktop CD allows you to try Kubuntu without changing your computer at all, and at your option to install it permanently later. This type of CD is what most people will want to use.

- **Text-mode install CD** - the text-mode install CD allows you to perform certain specialist installations of Kubuntu. This type of CD is intended for cases such as creating pre-configured OEM systems or setting up automated deployments; it can also be used as a package source for upgrading older installations.

If you don't have a CD burner or you have limited or expensive bandwidth, we can send you pressed copies of the "Desktop CD" free of charge. You may request CDs via Shipit [http://shipit.ubuntu.com], the Ubuntu CD Distribution System.

Ordered CDs may take several weeks to leave the warehouse before being shipped, and can take several months to arrive.

Another method of obtaining Kubuntu is to join a local Linux Users Group (LUG) and ask if somebody with Kubuntu would mind making a Kubuntu CD for you. Normally, you will have to replace the CDs used for the duplication and reimburse any postage or delivery costs.

If you do not know of an LUG near you, a list can be found at Linux Users Groups Worldwide [http://lugww.counter.li.org/].
3. Getting Help

There are a number of places from which you can obtain help with your Kubuntu desktop system, these include:

3.1. KDE Help Center

Kubuntu comes with an inbuilt help system, which can be accessed by choosing K Menu → Help from the desktop menu system. The KDE Help Center is the central location to all documentation available on your system.

A good place to start off learning more about KDE is the KDE Quickstart Guide [help:/khelpcenter/quickstart/index.html], which will familiarize you with some of the basic features of KDE.

3.2. Help with an Application

The easiest way to find help about an application is to read its handbook which is accessible from the Help menu in the application's toolbar.

3.3. Find Help Online

- The Ubuntu Documentation Website [http://help.ubuntu.com] contains HTML and PDF versions of this guide, and other guides produced by the Ubuntu Documentation Team for Ubuntu and Kubuntu.
- You can buy this guide in book form from our Lulu store [http://www.lulu.com/ubuntu-doc]. You will only pay for the price of printing and postage.
- The Ubuntu Wiki [https://wiki.ubuntu.com/UserDocumentation] - this contains many other community maintained guides
- Mailing Lists [http://lists.ubuntu.com/archives/kubuntu-users/] - here you can ask questions by email, and receive answers from the mailing list community.
- IRC chat: irc.freenode.net channel kubuntu - chat in realtime with the Kubuntu community.

For more information, visit the How to Get Help [https://wiki.ubuntu.com/HowToGetHelp] wiki page.
Chapter 2. Linux Basics

This chapter introduces you to basic concepts which are useful to when getting started with a Kubuntu system.
1. Directories and File Systems

In Linux and Unix everything is a file. Directories are files, files are files, and devices are files. Devices are usually referred to as nodes; however, they are still files.

Linux and Unix file systems are organized in a hierarchical, tree-like structure. The highest level of the file system is the / or root directory. All other files and directories exist under the root directory. For example, /home/jebediah/cheeses.odt shows the correct full path to the cheeses.odt file that exists in the jebediah directory, which is under the home directory, which in turn is under the root (/) directory.

Underneath the root (/) directory is a set of important directories common to most Linux distributions. The following is a listing of common directories that are directly under the root (/) directory:

- /bin - important binary applications
- /boot - boot configuration files, kernels, and other files needed at boot time
- /dev - the device files
- /etc - configuration files, startup scripts, etc.
- /home - home directories for different users
- /initrd - used when creating a customized initrd boot process
- /lib - system libraries
- /lost+found - provides a lost+found system for files that exist under the root (/) directory
- /media - automatically mounted (loaded) partitions on your hard drive and removable media such as CDs, digital cameras, etc.
- /mnt - manually mounted filesystems on your hard drive
- /opt - provides a location for optional (3rd party) applications to be installed
- /proc - special dynamic directory that maintains information about the state of the system, including currently running processes
- /root - root user's home directory, pronounced "slash-root"
- /sbin - important system binaries
- /srv - can contain files that are served to other systems
- /sys - system files
- /tmp - temporary files
- /usr - applications and files that are mostly available for all users to access
- /var - variable files such as logs and databases
2. Permissions

All of the files on a Linux system have permissions that allow or prevent others from viewing, modifying or executing them. The superuser "root" has the ability to access any file on the system. Each file has access restrictions, user restrictions, and an owner/group association.

Every file is secured by the following three layers of permissions, in order of importance:

- **user**
  - applies to the user who is the owner of the file

- **group**
  - applies to the group that is associated with the file

- **other**
  - applies to all other users

Inside each of the three sets of permissions are the actual permissions. The permissions, along with the way they apply differently to files and directories, are outlined below:

- **read**
  - files can be displayed/opened
  - directory contents can be displayed

- **write**
  - files can be edited or deleted
  - directory contents can be modified

- **execute**
  - executable files can be run as a program
  - directories can be entered

To view and edit the permissions on files and directories, open the System Menu → Home Folder, right-click on a file or directory, then select Properties. The permissions are found under the Permissions tab and allow for the editing of all permission levels, if you are the owner of the file. Advanced permission settings (such as in the Advanced Permissions tab) are outside of the scope of this guide.
3. Root And Sudo

The root user in GNU/Linux is the user which has administrative access to your system. Normal users do not have this access for security reasons. However, Kubuntu does not include the root user. Instead, administrative access is given to individual users, who may use the "sudo" application to perform administrative tasks. The first user account you created on your system during installation will, by default, have access to sudo. You can restrict and enable sudo access to users with the Users and Groups application (see Section 6, “Users and Groups” [p. 22] for more information).

When you run an application that requires root privileges, sudo will ask you to input your normal user password. This ensures that rogue applications cannot damage your system, and serves as a reminder that you are about to perform administrative actions which require you to be careful!

To use sudo when using the command line, simply type "sudo" before the command you wish to run. Sudo will then prompt you for your password.

Sudo will remember your password for a set amount of time (15 minutes by default). This feature was designed to allow users to perform multiple administrative tasks without being asked for a password each time.

- Be careful when doing administrative tasks -- you might damage your system!

Some other tips for using sudo:
- To use a "root" terminal, type "sudo -i" at the command line
- The entire group of default graphical configuration tools in Kubuntu already uses sudo, so you will be prompted for your password if needed using kdesu, which is a graphical frontend to sudo.
- For more information on the sudo program and the absence of a root user in Kubuntu, read the sudo page [https://wiki.ubuntu.com/RootSudo] on the Ubuntu wiki.

3.1. Start a Program Manually with Root Privileges

Sometimes it is necessary to run a program with root privileges. This is easy to do with the Run Command dialog.

- Please be careful while running applications with root privileges as you may damage your system. See Section 3, “Root And Sudo” [p. 1§] for more details.

1. Open the Run Command dialog by typing: Alt-F2
2. Enter the name of the program you wish to run, prefixed with kdesu and press Enter. For example, to launch the file manager Konqueror with root privileges, type

kdesu konqueror
4. Terminal

Working at the command line is not as daunting a task as you would think. There is no special knowledge needed to use the command line as it is a program like everything else. Most things in Linux can be done using the command line. Although there are graphical tools for most programs, sometimes they are just not enough. This is where the command line comes in handy.

The terminal is often called the command prompt or the shell. In days gone by, this was the way the user interacted with the computer; however, Linux users have found that the use of the shell can be quicker than a graphical method and still holds some merit today. Here you will learn how to use the terminal.

The original use of the terminal was as a file browser, and indeed it is still used as a file browser. You can use the terminal as a file browser to navigate your files and undo the changes that have been made.

4.1. Starting the Terminal

The Konsole can be started by choosing K-menu → System → Konsole (Terminal Program) from the Desktop menu system.

4.2. Common Commands

View Directories: - ls
   The ls (LiSt) lists files in different colors with full formatted text

Create Directories: - mkdir (directory name)
   The mkdir (MaKeDiReCtory) command will create a directory.

Change Directories: - cd (/directory/location)
   The cd (Change Directory) command will change from your current directory to any directory you specify.

Copy Files/Directories: - cp (file or directory name) (to directory or filename)
   The cp (CoPy) command will copy any files you specify. The cp -r command will copy any directories you specify.

Remove Files/Directories: - rm (file or directory name)
   The rm (ReMove) command will delete any filename you specify. The rm -r command will remove any directory you specify, and all its contents.

Move/Rename Files/Directories: - mv (file or directory name)
   The mv (MoVe) command will move/rename any file or directory you specify.

Find Files/Directories: - locate (file or directory name)
   The locate command will search for any filename you specify. It uses an index of the files on your system to work quickly. To update this index, run the command sudo updatedb. This command is run automatically each day if you leave your computer on. It needs to be run with administrative privileges (see Section 3, “Root And Sudo” [p. 18]).
You can also use wildcards to match one or more files, such as "*" (for all files) or "?" (to match one character).

4.3. Switch to Console mode

The usual method of command-line access in Kubuntu is to start a terminal (see Section 4.1, “Starting the Terminal” [p. 19] above), however sometimes it is useful to switch to the real console:

1. Use the Ctrl+Alt+F1 shortcut keys to switch to the first console.
2. To switch back to Desktop mode, use the Ctrl+Alt+F7 shortcut keys.

There are six consoles available. Each one is accessible with the shortcut keys Ctrl+Alt+F1 to Ctrl+Alt+F6.

4.4. Disable the beep sound in Terminal mode

1. Start a Konsole session, select: K-menu → System → Konsole (Terminal Program) from the desktop menu system.
2. Settings → Bell → None
5. Text Editing

All of the configurations and settings in Linux are saved in text files. Even though you most often can edit configurations through the graphical interface, you may occasionally have to edit them by hand.

Kate is the default Kubuntu text editor, which can be launched by clicking K-menu → Utilities → Kate (Advanced Text Editor) from the desktop menu system.

At times in this guide, Kate is run from the command line using kdesu, as most configuration files require root privileges to alter them. It is recommended that you also run kdesu from the command line when shown in this guide.

If you need to use a text editor from the command line, you can use nano, which is a simple to use text editor. When running it from the command line, always use the following command, which ensures that the editor will not introduce line breaks:

```
nano -w
```

For more information about how to use nano, refer to the guide on the wiki [https://wiki.ubuntu.com/NanoHowto].

There are also quite a few other terminal-based editors available in Kubuntu, popular ones include VIM and Emacs (the pros and cons of each are cause for much friendly debate within the Linux community). These are often more complex to use than nano, but are also more powerful.
6. Users and Groups

To add users or groups to your system, you can use the Users And Groups application located in K-menu → System Settings → Users and Groups.

You will need to change into the "Administrator Mode" to make changes to Users and Groups.

To add a new user, click on New..., fill in the data fields then click OK. To edit the properties of each user, click the Modify... button located in the main Users window.

To add a new group, select the Groups tab and click New.... Choose a name for the new group and, if you want, change the default value for the Group ID. If you try to allocate a Group ID that is in use, the system will warn you.

You can add users to the newly created group by selecting a user from the left menu and clicking on the Add button. Removing a user from a group is as simple as adding one: select the user from the right menu then click Remove. When you are ready, click OK and the new group with its users, if inserted, will be created.

To edit the properties of a group, from within the Groups main window, choose a group name and click on the Modify... button.

To remove a user or a group from the system, select the user or group you want to delete and click Delete....
Chapter 3. Adding, Removing and Updating Applications

This chapter is a complete guide to adding, removing and updating applications on a Kubuntu system.
1. Introduction

There are several ways to manage your applications in Kubuntu. In order to add or remove applications you need to use a package manager. The following package managers are described in this chapter:

- Add/Remove Programs - this is the simplest way to manage programs.
- Adept - this graphical program provides an advanced way of managing programs;
- APT - this is a powerful command line program to manage programs.

You may also wish to increase the number of programs available to install through your package managers. Not all the programs that exist for Kubuntu are available by default. You may have to add extra repositories in order to make them available: that is also described in this chapter.

Finally, this chapter explains how to update your system.

You can only have one package management application running at a time. For example, if you are running Add/Remove Programs and try to launch Adept, it will fail with an error. Close the running application before you relaunch the new one.
2. Add/Remove Programs

Add/Remove Programs is a simple graphical way of installing and removing applications in Kubuntu. To launch Add/Remove Programs, choose K Menu → Add/Remove Programs from the desktop menu system.

Running Add/Remove Programs requires administrative privileges (see Section 3, “Root And Sudo” [p. 18]).

To install new applications select the category on the left, then check the box of the applications you want to install. Click Apply and your chosen programs will be downloaded and installed automatically, as well as installing any additional applications that are required. The default selection is restricted to the KDE suite, but GNOME applications can be installed by selecting them from the dropdown menu at the top.

Alternatively, if you know the name of the program you want, use the Search tool at the top.

Software from additional repositories may be installed by enabling the Show: unsupported and Show: proprietary software checkboxes if they are enabled in your repository list. For more information, see see Section 6, “Managing Repositories” [p. 29].
3. Adept Package Manager

Adept is a graphical frontend to the APT package management system for the K Desktop Environment (KDE). Adept provides an easy-to-use interface with which users can perform software management operations.

Adept can be started from the K menu system or the command line. In order to start Adept, you will be required to provide your password.

To start Adept from the menu system select K Menu → System → Adept (Package Manager).

To start Adept from the command line:

```
kdesu adept
```

Both methods require that you enter your password. This will run Adept with root privileges which will be required in order to perform the requested operations. It is therefore advised that you use Adept with caution since improper usage could lead to the removal, deletion, or corruption of software packages that are required to preserve system integrity.

For more help with using Adept, please refer to the Adept Handbook [help:/adept/index.html].
4. APT

APT (Advanced Packaging Tool) is a powerful package management system, on which the graphical programs Add/Remove Programs and Adept are based. APT automatically handles dependencies and performs other operations on system packages to allow the installation of the desired packages.

Running APT requires administrative privileges (see Section 3, “Root And Sudo” [p. 18]).

Some common commands that can be used with APT:

- Install packages:
  
  `sudo apt-get install packagename`

- Remove packages:
  
  `sudo apt-get remove packagename`

- Search for packages:
  
  `apt-cache search keyword`

- Retrieve new lists of available packages:
  
  `sudo apt-get update`

- Upgrade system with available updates:
  
  `sudo apt-get dist-upgrade`

- List further commands and options:
  
  `apt-get help`

For further information about the use of APT, you can read the comprehensive Debian APT User Manual [http://www.debian.org/doc/user-manuals#apt-howto].
5. Manual Installation

Although the preferred method of installing programs is via the package managers described in Chapter 3, Adding, Removing and Updating Applications [p. 23], you can also download and install individual package files containing software. There are many different kinds of Linux package files. Most of these are associated with the package managers of specific Linux distributions.

If you find a packaged application that you wish to install, it is recommended that you check if there is a native Kubuntu package of the application available through a package manager, and that you install that version instead. This guarantees that the program is completely compatible with your system. If there is no package available through the package manager, you can install it manually. The installation procedure depends on the type of package file.

5.1. Install/Uninstall .deb files

The package files associated with Kubuntu have the .deb suffix because of Kubuntu's close relation to the Debian GNU/Linux distribution. You can download and install individual .deb files. You will need administrative privileges to do this (see Section 3, “Root And Sudo” [p. 18]).

1. To install a .deb file, simply Right click on the .deb file, and choose Kubuntu Package Menu → Install Package.
2. Alternatively, you can also install a .deb file by opening a terminal and typing:
   
   ```
   sudo dpkg -i package_file.deb
   ```
3. To uninstall a .deb file, remove it using Adept, or type:
   
   ```
   sudo apt-get remove package_name
   ```

5.2. Convert .rpm files to .deb files

Another type of package files is Red Hat Package Manager Files which have the .rpm suffix. It is not recommended to install these on an Kubuntu system. In almost all cases, a native Kubuntu .deb package is available. However, if absolutely necessary, an .rpm file can be converted to a .deb package using the program alien.

1. Install the alien program (Chapter 3, Adding, Removing and Updating Applications [p. 23]).
2. Run the following command in a terminal, with administrative privileges:
   
   ```
   sudo alien package_file.rpm
   ```

5.3. Install from Source

Files with the .tar.gz or .tar.bz2 suffix are package files known as tarballs or source packages which are widely used in Linux. If there is no native Kubuntu package available in any of the Kubuntu repositories, you can try to compile the package from source. For tips on compiling software, look at the Compiling Software [https://wiki.ubuntu.com/CompilingSoftware] page on the Ubuntu Wiki.
6. Managing Repositories

6.1. What are Repositories?

There are thousands of programs freely available to install on Kubuntu. These programs are stored in software archives (repositories) and are made available for installation over the Internet. This makes it very easy to install new programs in Linux, and it is also very secure, because each program you install is built specially for Kubuntu and checked before it is installed. To organize the software, Kubuntu repositories are categorized into four groups: Main, Restricted, Universe, and Multiverse.

The rationale used to determine which software goes into which category is based on two factors:

• The level of support software development teams provide for a program
• The level of compliance the program has to the Free Software Philosophy
  [http://www.ubuntu.com/ubuntu/philosophy]

You can find more information about the Repositories available on the Ubuntu website [http://www.ubuntu.com/ubuntu/components].

The standard Kubuntu Install CD contains some software from the Main and Restricted categories. Once your system is made aware of the Internet-based locations for these repositories, many more programs are made available for installation. Using the software package management tools already installed on your system, you can search for, install and update any piece of software directly over the Internet, without the need for the CD.

6.2. Removing the CD-ROM Repository

The Kubuntu Install CD-ROM is included in the repositories after installation. This can cause Adept to ask for the CD-ROM when installing packages. It is possible to disable this repository so that Adept relies solely on the internet repositories.

To disable the CD-ROM repository:

1. Start Adept by choosing K Menu → System → Adept (Package Manager) from the Desktop menu system.
2. Select View → Manage Repositories in the Adept package manager window.
3. Find the repository line that starts with "cdrom:“, right click the line, and select Disable.
4. Click Apply to save your changes, and then exit using Close.

6.3. Adding Extra Repositories

To enable the extra repositories:

1. Start Adept by choosing K Menu → System → Adept (Package Manager) from the Desktop menu system.
2. Select View → Manage Repositories in the Adept package manager window.

3. To enable the *Universe* repository, find the repository line with the Universe Component, and right click the line and select Enable.

   Adding this repository will mean that the majority of the Free Software universe will be available to install on your system. This software is supported by a carefully selected group of volunteers within the Kubuntu Community, but is not supported by the core Kubuntu development team and may not include security updates.

4. To enable the *Multiverse* repository, find the repository lines (two of them) with the Universe Component, and click the word "universe". Edit the entry so that it reads "universe multiverse". Right click the line and select Enable to enable it if it is not already enabled.

   Adding this repository will mean that software which has been classified as *non-free* will be available to install on your system. This software may not be permitted in some jurisdictions. When installing each package from this repository, you should verify that the laws of your country permit you to use it. Again, this software may not include security updates.

5. Click Apply to save your changes, and then exit using Close.
7. Updates

Sometimes the Kubuntu developers release feature and security updates for applications and packages within the Kubuntu system.

When these updates are available, Kubuntu will inform you with a red warning icon in the system tray. To update your system, click the red button, enter your password and click Fetch List of Updates.

The Adept Updater program will list the available updates: to download and install these updates click Apply Updates. Kubuntu will then download and install the available updates from the Internet.

When Adept Updater has finished updating your system, close the pop-up window by clicking the Quit button.

After installing some important updates, it may be necessary to restart your computer. If so, Kubuntu will inform you with a pop up and an icon in your system tray.
Chapter 4. Common Tasks

This chapter contains information on common tasks that you might want to perform on your computer.
1. Music

1.1. Playing Audio CDs

When you insert an Audio CD into Kubuntu, the system will recognize it, mount it, and start the KDE Daemon. Choose Play to start playing the CDs in KSCD. If you are connected to the Internet, KSCD will retrieve the CD artist, title, and track data from freedb.org [http://freedb.org]. You can also retrieve information from other sources by clicking on the Extras.

To start KSCD manually, choose K-Menu → Multimedia → KsCD (CDPlayer).

To play the CD, click the Play button. To play a particular track, select the track from the drop down list at the top.

1.2. Ripping Audio CDs

1. When you insert an Audio CD into Kubuntu, the system will recognize it, mount it, and start the KDE Daemon. Choose Extract and Encode audio tracks to launch KaudioCreator.

2. To start KaudioCreator manually, choose K-Menu → Multimedia → KAudioCreator (CD Ripper) from the desktop menu system.

3. Inside KaudioCreator, you will be greeted with the list of songs, in order of their track number. If the CD you are ripping is an original CD (not a mix/back-up disk), then most of the song titles should be detected automatically if you are connected to the Internet. If not, click the disk in the top left hand corner to try again.

4. Select what tracks you want to rip, or all of them by pressing Select all tracks.

5. To begin the ripping process, press the Rip Selection in the toolbar. When the ripping process has started, you can watch your progress by pressing the Jobs tab. By default, the files rip into /home/username/ogg directory, and are in the Ogg Vorbis (ogg) format. They are neatly sorted by artist, followed by album, and lastly song.

6. When you are done ripping your CD tracks, press the eject button to eject your CD-Rom.

💡 You can use the preferences window to control where the extracted audio files are stored on your computer, the filename of extracted audio files, and the file format and codec used for the files. In the main window, choose Settings → Configure KAudioCreator....

KAudioCreator can extract audio files to the following formats:

- **Ogg Vorbis** - Ogg Vorbis is a patent-free lossy audio compression format which typically produces higher quality and greater compression than MP3. See the Vorbis website [http://www.vorbis.com/faq/] for more information.

- **FLAC** - FLAC is the Free Lossless Audio Codec. It can compress audio files up to 50% without removing any information from the audio stream. For more information on this format, see the FLAC homepage [http://flac.sourceforge.net/] on sourceforge.net.
• **WAV** - Wav is an uncompressed audio format, which can be compressed into OGG Vorbis or a codec of your choice. It is often used while working on sound in applications like Audacity, before being compressed.

You can also extract CD audio files to the proprietary non-free **MP3** format by using the lame encoder. See the [KAudioCreator Handbook](http://docs.kde.org/stable/en/kdemultimedia/kaudiocreator/index.html) ([Offline Help](help:/kaudiocreator/index.html)).

### 1.3. Playing and Organizing Music Files

Kubuntu does not directly support the **MP3** format, because it is restricted by patents and proprietary rights. Instead Kubuntu supports the **Ogg Vorbis** format out of the box, a completely free, open and non-patented format. Ogg Vorbis files also sound better then MP3 files of the same file size and are supported by many popular music players (a list of players is [here](http://wiki.xiph.org/index.php/PortablePlayers)).

You can still play your old MP3 files by installing MP3 support (see **Section 3, “Multimedia Codecs”** [p. 38](#)). Instructions for other formats, such as Windows Media Audio (wma/wmv) and other patent encumbered formats can be found on the Ubuntu Wiki [http://wiki.ubuntu.com/RestrictedFormats].

The default music application on your Kubuntu system is the AmaroK Music Player, a music management and playback application that looks like iTunes. When you first start AmaroK, it will scan your home directory for any supported music files you have and add it to the database. To start AmaroK, choose K-Menu → Multimedia → AmaroK (Audio Player).

AmaroK has an inbuilt ID3 tag editor that can edit the metadata on your OGG and other music files. Please see the [amaroK handbook](http://docs.kde.org/stable/en/extragear-multimedia/amarok/index.html) ([Offline Help](help:/amarok/index.html)) for details on how to edit the metadata.

### 1.4. Using your iPod

You can play music directly off your iPod with AmaroK. Simply plug your iPod into the computer, and open AmaroK.

To transfer music files to and from an iPod, you can use AmaroK as well. Please see the [amaroK handbook](http://docs.kde.org/stable/en/extragear-multimedia/amarok/index.html) ([Offline Help](help:/amarok/index.html)) on how to manage media files in your iPod.

### 1.5. Edit Audio Files

Audacity is a free, open source software for recording and editing sounds. To use Audacity:
1. Install the audacity package from the *Universe* repository (see Section 6, “Managing Repositories” [p. 29]).

2. To run Audacity, choose K-Menu → Multimedia → Audacity.

3. For further help about using Audacity, consult the program's help by choosing Help → Contents.
2. Video

Many video formats can be played in Kubuntu using free codecs found in the repositories. This includes formats such as MPEG and other common video formats. To install further codec support see Section 3, “Multimedia Codecs” [p. 38].

In Kubuntu, videos can be played with the Kaffeine Media Player. Some features of Kaffeine include custom playlists, DVD playback and more. You can start Kaffeine by clicking: K-Menu → Multimedia → Kaffeine (Media Player).

2.1. DVD Playback

The legal status of this library is not fully clear. In some countries it is possible that the use of this library to play or copy DVDs is not permitted by law. Verify that you are within your rights in using it.

The movie players provided in Kubuntu are capable of reading DVDs that are not encrypted. However, most commercial DVDs are encrypted with CSS (Content Scrambling System) and currently, for legal reasons, it is not possible to include support for these DVDs in Kubuntu. However it is possible to enable support as follows:

1. Install the libdvdread3 package (see Section 6, “Managing Repositories” [p. 29]).

You will need to use Adept Package Manager to install this package

2. Type the following command into a terminal prompt:

```
sudo /usr/share/doc/libdvdread3/examples/install-css.sh
```

2.2. RealPlayer 10

1. Install the libstdc++5 package (see Chapter 3, Adding, Removing and Updating Applications [p. 23]).

You will need to use Adept Package Manager to install this package

2. Download the Realplayer package from here [ftp://ftp.nerim.net/debian-marillat/pool/main/r/realplay/realplayer_10.0.6-0.0_i386.deb] only if you have a i386 machine. Debian packages are not available for PowerPC or AMD64 architectures. However, you can try to see if a player is available on the Helix Player [https://player.helixcommunity.org/] Community Site.

3. Install the package you have downloaded (see Section 5.1, “Install/Uninstall .deb files” [p. 28]).

4. To run Real Player 10, choose K-Menu → Multimedia → RealPlayer 10 (Media Player).
2.3. Video Editing

Kino is an advanced video editor. It features excellent integration with IEEE-1394 (Firewire) for capture, VTR control, and recording back of the camera. It captures video to disk in Raw DV and AVI format, in both type-1 DV and type-2 DV (separate audio stream) encoding. For more information, see the Kino website [http://www.kinodv.org/article/static/2]. To use it:

1. Install the kino package (see Chapter 3, Adding, Removing and Updating Applications [p. 23]).
2. To run Kino, choose Applications → Sound & Video → Kino Video Editor.
3. Multimedia Codecs

Codecs for playing non-free formats are not included in Kubuntu by default. You can get support for the extra codecs by installing the libxine-extracodecs package from the Multiverse repository (see Section 6, “Managing Repositories” [p. 29]).

Some of these packages may not be permitted in some countries: you should verify that you are permitted to use them before installing them.

Due to patent and copyright restrictions, some codecs are not included at all in Kubuntu. For more information on these, go to https://wiki.ubuntu.com/RestrictedFormats.
4. Burning and Ripping CDs/DVDs

4.1. Burning a Photo or Data CD/DVD
1. Launch k3b by choosing K-Menu → Multimedia → k3b (CD and DVD Burning)
2. Follow the steps to burn a data CD
   [help:/k3b/cdcopyhowto.html] in the K3B handbook.

4.2. Burning an Audio CD/DVD
1. If you want to burn mp3 files into audio CDs, you will need to install the libk3b2-mp3 package from the Universe repository (see Section 6, “Managing Repositories” [p. 29]).
2. Launch k3b by choosing K-Menu → Multimedia → k3b (CD and DVD Burning)
3. Follow the steps to burn an audio CD
   [help:/k3b/audiocdcddating.html] in the K3B handbook.

4.3. Rip a DVD with K3B
1. Install the following packages
   transcode
   libxvidcore4
   sox
   mjpegtools
   toolame
   libdvdread
   from the Universe and Multiverse repository (see Section 6, “Managing Repositories” [p. 29]).
2. Launch k3b by choosing K-Menu → Multimedia → k3b (CD and DVD Burning)
3. Follow the steps to Rip a DVD and Encode it
   [help:/k3b/howtos.html#videointroduction] in the K3B handbook.

4.4. Generate MD5 Checksum files
   • To save the md5sum of file.iso to a file, run:

   md5sum file.iso > file.iso.md5

4.5. Check MD5 checksum of an ISO image
1. Assuming that file.iso and file.iso.md5 are in the same folder.
2. md5sum -c file.iso.md5
4.6. Mount/unmount Image (ISO) files without burning to CD

1. To mount Image (ISO) file

   sudo mkdir /media/iso
   sudo modprobe loop
   sudo mount file.iso /media/iso/ -t iso9660 -o loop

2. To unmount Image (ISO) file

   sudo umount /media/iso/
5. Internet

5.1. Connecting to the Internet

To connect to the Internet, do the following:

1. If you have a Modem or ADSL connection, read Section 4.5, “Modems” first.
2. K-Menu → System Settings → Network Settings
3. Click on the Administrator Mode... and enter your user password to gain administrator privileges.
4. Select the Network Interfaces tab. Select the interface to configure from the list, then click the Configure Interface... button.
5. Enter the relevant details of the connection like DHCP or Static IP address, or the wireless network name (in case of a wireless connection). Click OK to accept the settings.
6. Sometimes it may be necessary to configure the DNS settings. If needed, select the Domain Name System tab to add edit or delete DNS Servers in the DNS Servers list.

To activate or deactivate network connections, do the following:

1. K-Menu → System Settings → Network Settings
2. Click on the Administrator Mode... and enter your user password to gain administrator privileges.
3. Select the Network Interfaces tab. Select the interface to enable/disable from the list, then click the Enable Interface or the Disable Interface button.

5.2. Browse Network Computers

1. To view computers on the network, choose System Menu → Remote Places from the Kicker (the taskbar).
2. You may need to enter a username and password, and a domain. You should obtain these from your network administrator.

Windows PCs sharing files on a local network can be found in Samba Shares.

5.3. Web Browser

Kubuntu comes with a very powerful web browser, file management tool and network browser, called Konqueror. Konqueror can support all major web protocols, and allows basic plugins for Macromedia Flash, and Real Media. When you first start up Kubuntu, Konqueror will be in the bottom panel (known as the "kicker"). It may also be invoked through the K-menu by clicking K-Menu → Internet → Web Browser (Konqueror)
Alternatively, the powerful and secure Mozilla Firefox web browser may be obtained in addition to Konqueror. Mozilla Firefox features tabbed browsing, pop-up blocking, in-built search facilities, live bookmarks and more. Also supported are popular plug-ins such as Java, Macromedia Flash, and Real Player just to name a few. Mozilla Firefox is not installed in Kubuntu by default. Mozilla Firefox can be obtained by installing the firefox package (see Chapter 3, Adding, Removing and Updating Applications [p. 23]).

After installation, it can be launched from K-Menu → Internet → Firefox Web Browser from the desktop menu system.

 Mozilla Firefox has many Extensions available. Konqueror, on the other, is much more tightly integrated into KDE.

5.3.1. Macromedia Flash for Konqueror

The following instructions are only for i386 computers.

1. To view flash graphics from the Konqueror web browser, you need to install the flashplugin-nonfree package from the Multiverse repository (see Chapter 3, Adding, Removing and Updating Applications [p. 23]).

2. To download and install the plugin, enter the following command in a terminal:

   `sudo update-flashplugin`

3. The plug-in will be available the next time you start Konqueror.

5.3.2. How do I change Konqueror back to the default KDE profiles?

Kubuntu comes with a simplified Konqueror profile to make things more user friendly compared to default KDE. To get back to the default KDE profiles:

1. Open a terminal by choosing K-Menu → System → Konsole (Terminal Program) from the desktop menu system.

2. Execute the following commands

   `sudo rm -r /usr/share/kubuntu-default-settings/kde-profile/default/share/apps/konqueror`
   `sudo cp /usr/share/apps/konqueror/konqueror-orig.rc /usr/share/apps/konqueror/konqueror.rc`

5.4. Email

The Kontact groupware suite can handle all your email, contacts, calendar events, todo lists, newsgroups, notes and RSS/Atom feeds. Kontact can be launched by clicking K-Menu → Office → Personal Information Manager (Kontact) from the desktop menu system.

Alternatively, the Mozilla Thunderbird email client is available. To install this popular email client, install the mozilla-thunderbird package (see Chapter 3, Adding, Removing and Updating Applications [p. 23]).
To start Thunderbird, choose K-Menu → Internet → Thunderbird Mail Client from the desktop menu system.

5.4.1. Change the preferred email client to Mozilla Thunderbird

2. In the User Account, click the Preferred Applications and click the Email Client and select the Use a different email client option.
3. In the Use a different email client text box, type `mozilla-thunderbird %s`, then click Apply to save your settings.

5.5. News Readers

5.5.1. Akregator Feed Reader

Akregator is a fast and intuitive feed reader program which is installed by default in Kubuntu.

Akregator can be launched as a standalone application by choosing K-menu → Internet → Akregator (RSS Feed Reader) from the Desktop Menu System.

Akregator is also available as a Kontakt Component. Launch Kontakt by choosing K-menu → Office → Kontakt (Personal Information Manager) from the Desktop Menu System. Click the Feeds button on the sidebar at the left to access and configure the News Reader.

5.5.2. Knode News Reader

The default newsreader for Kubuntu applications is in the Kontakt application. It provides the capability to install and download your favorite newsgroups and manage their content. However, the news reader component is not installed by default.

1. Install the knode package from the Universe repository (see Section 6, “Managing Repositories” [p. 29]).
2. Launch Kontakt by choosing K-menu → Office → Kontakt (Personal Information Manager) from the Desktop Menu System.
3. Click the News button on the sidebar at the left to access and configure the News Reader.

5.6. Web Development

5.6.1. Quanta Plus

Quanta Plus is a powerful editor for web designers and programmers. Quanta Plus supports many programming and markup languages, and includes many utilities for designers and programmers.

1. Install the Quanta Plus package (see Chapter 3, Adding, Removing and Updating Applications [p. 23]).
2. To start Quanta Plus, choose K-Menu → Development → Web Development → Quanta Plus (Web Development Environment)

5.6.2. NVU Web Authoring System

NVU is a WYSIWYG (What You See Is What You Get) graphical web design application, similar to Dreamweaver.

1. Install the nvu package from the Universe repository (see Section 6, “Managing Repositories” [p. 29]).

2. To start Nvu, choose K-Menu → Development → Nvu from the desktop menu system.

5.7. Chat

5.7.1. Kopete

Kopete is the default instant messenger client in Kubuntu. With Kopete you can talk to people who use: AIM/ICQ, Gadu-Gadu, Groupwise, IRC, Jabber, MSN, SMS and Yahoo. The ability to use one client instead of one per network is a great benefit and allows you to have all of your buddies in one window. To start Kopete, choose K-menu → Internet → Kopete (Instant Messenger) from the desktop menu system.

5.7.2. Konversation

Konversation is a client for the Internet Relay Chat (IRC) protocol. It has a clean and easy to use interface. To start Konversation, choose K-menu → Internet → Konversation (Instant Messenger) from the desktop menu system.

5.8. Peer To Peer

5.8.1. BitTorrent

No default bit torrent capability is installed with Kubuntu. However, you may install Ktorrent from the universe repositories. Be sure that the universe repository is enabled and download it via Adept (See Section 6, “Managing Repositories” [p. 29]).

5.8.2. aMule File Sharing Client

aMule is a peer to peer (P2P) application for the ed2k network, from which you can download a variety of files.

1. Install the amule package from the Universe repository (see Section 6, “Managing Repositories” [p. 29]).

2. To open aMule, choose K-menu → Internet → amule from the desktop menu system.
5.8.3. Apollon

Apollon is an easy to use peer to peer client for the KDE Desktop. It supports the Gnutella, OpenFT, and FastTrack networks. This makes installing applications like Limewire redundant.

1. Install Apollon and gift packages from the Universe repository (see Section 6, “Managing Repositories” [p. 29]).

2. Configure the giFT daemon by, opening a Konsole and run the command `gift-setup`
   and follow the instructions on the screen.
   
   Make sure you enable the OpenFT and Gnutella plugins by typing `OpenFT:Gnutella` in the plugin section.

3. See the following files for examples:
   1. `$HOME/.giFT/giftd.conf` [../sample/giftd.conf]
   2. `$HOME/.giFT/OpenFT/OpenFT.conf` [../sample/OpenFT.conf]
   3. `$HOME/.giFT/Gnutella/Gnutella.conf` [../sample/Gnutella.conf].
6. Office

6.1. OpenOffice.org Suite

OpenOffice.org is a suite of applications to support word processing, presentations, spreadsheets, drawing and complex math documents. The suite is the open source equivalent of the Microsoft Office Suite. For details about the OpenOffice.org, visit the OpenOffice.org homepage [http://www.openoffice.org].

1. Open Office Writer is a fully featured word processor similar to Microsoft Word that can create simple or complex documents. Writer can open most Microsoft Word documents and can save in the .doc format. OpenOffice.org Writer can be launched from K-Menu → Office → OpenOffice.org Writer

2. OpenOffice.org Impress is the functional equivalent of PowerPoint, and provides the capability to create slide presentations. Most PowerPoint files may be opened and edited in Impress. OpenOffice.org Impress can be launched from K-Menu → Office → OpenOffice.org Impress

3. OpenOffice.org Calc is a fully featured spreadsheet program with similar functions found in Microsoft Excel. The module supports multiple spreadsheets, built-in functions and can read most Microsoft Excel documents. OpenOffice.org Calc can be launched from K-Menu → Office → OpenOffice.org Calc

4. OpenOffice.org Draw provides complex functionality to allow the creation of drawings, diagrams, charts, and other business presentations. The program is object oriented and allows for layering of various panes of work. OpenOffice.org Draw can be launched from K-Menu → Office → OpenOffice.org Draw

5. OpenOffice.org Math allows the user to create and assemble math-oriented documents. There are special functions here that allow the creation of mathematical formulas and table nomenclature not easily assembled in the standard Writer application. OpenOffice.org Math can be launched from K-Menu → Office → OpenOffice.org Math

6. OpenOffice.org Base allows the user to manipulate database data from within OpenOffice.org, like Microsoft Access. OpenOffice.org Base can be launched from K-Menu → Office → OpenOffice.org Base

6.2. KMyMoney2 Personal Finance

KMyMoney2 is an excellent personal and/or business cash management application similar to Quicken or Microsoft Money. Quicken QIF import and export is supported within accounts so KMyMoney2 can read files exported from other programs or downloaded from online banking institutions.

1. Install the kmymoney2 package from the Universe repository (see Section 6, “Managing Repositories” [p. 29]).
2. To open Kymoney, choose K-menu → Office → KmyMoney from the Desktop Menu System.

6.3. Kivio Flowchart and Diagram Editor

Kivio is a flowchart and diagram editor for creating and editing organizational charts, flowcharts, ERDs, or other kinds of diagrams. It is analagous to Gnome Dia and Microsoft Visio.

1. Install the kivio package using Adept (see Section 3, “Adept Package Manager” [p. 26]).

2. Launch Kivio, by choosing K-Menu → Office → Kivio
7. Graphics & Drawing

Kubuntu has some very powerful, world-class graphics and drawing applications available.

7.1. Krita

Krita lets you draw, paint, edit images, and much more! Krita includes the functionality and plug-ins of other famous image editing and processing programs.

Krita is installed in Kubuntu by default. Launch Krita by selecting K-Menu → Graphics → Krita (Image Manipulation Program)

More information is available from the Krita homepage. [http://www.koffice.org/krita/]

7.2. Inkscape Vector Graphics Editor

Inkscape is a powerful editor for working with the SVG (Scalable Vector Graphics) format.

1. Install the inkscape package (see Chapter 3, Adding, Removing and Updating Applications [p. 23]).

2. To start Inkscape choose K-Menu → Graphics → InkScape Vector Illustrator

7.3. Blender 3d Modeler

Blender is an integrated 3d suite for modeling, animation, rendering, post-production, interactive creation and playback (games).

1. Install the blender package (see Chapter 3, Adding, Removing and Updating Applications [p. 23]).

2. To start Blender, choose K-Menu → Graphics → Blender 3D Modeler

7.4. Scribus Desktop Publishing Application

1. Install the scribus package (see Section 6, “Managing Repositories” [p. 29]).

2. To install additional templates, install the scribus-template package from the Universe repository (see Section 6, “Managing Repositories” [p. 29]).

3. To start Scribus, choose K-Menu → Office → Scribus (Page Layout)
8. Games

8.1. Frozen-Bubble

In Frozen-Bubble you attempt to shoot bubbles into groups of the same color to cause them to pop.

1. Install the frozen-bubble package from the Universe repository (see Section 6, “Managing Repositories” [p. 29]).
2. To start Frozen-Bubble, choose K-Menu → Games → Arcade → Frozen-Bubble.

8.2. PlanetPenguin Racer

Race Tux, the Linux mascot, down a snow and ice-covered mountain as quickly as possible, avoiding the trees and rocks that will slow you down. Don't forget to grasp all the fish!

Ensure you have hardware accelerated 3D drivers installed for your video card. For more information, see Section 4, “Hardware” [p. 6].

1. Install the planetpenguin-racer package from the Universe repository (see Section 6, “Managing Repositories” [p. 29]).

8.3. Scorched3D

Scorched3D is a 3D remake of Worms/Scorched Earth.

Ensure you have hardware accelerated 3D drivers installed for your video card. For more information, see Section 4, “Hardware” [p. 6].

1. Install the scorched3d package from the Universe repository (see Section 6, “Managing Repositories” [p. 29]).
2. To start Scorched3D, choose K-Menu → Games → Arcade → Scorched 3d.

8.4. Suggested Games

The following is a list of games that fellow Kubuntu users suggest. All of them are available for installation using the Adept Package Manager from the Universe repository (See Section 6, “Managing Repositories” [p. 29]).

- armagetron - 3D Tron-like high speed game
- wesnoth - fantasy turn-based strategy game
- neverball - 3D arcade games: neverball and neverputt
- atlantik - KDE client for Monopoly-like network games
- kdegames - A package containing several small, and addicting games
Common Tasks

- freeciv - Civilization turn based strategy game
- bzflag - a 3D first person tank battle game

There are also two "classic" text based dungeon crawl games:
- Nethack
- Crawl

Remember, these 2 games are text based, which means they MUST be run inside the terminal.

All of these games will install themselves to your KDE menu, but can always run them from the command line by typing in the name of the game, and pressing enter.

8.5. Windows Games

Many games which are available for Windows can be run on Linux through special compatibility layers like Wine and Cedega.

1. For information about Wine, see the Ubuntu wiki [https://wiki.ubuntu.com/Wine].
2. For information about Cedega, see the Ubuntu wiki [https://wiki.ubuntu.com/Cedega].
9. Programming

9.1. Basic Compilers

In order to be able to compile programs, some extra packages are necessary. These can be installed all in one go, as follows:

- Install the build-essential package (see Chapter 3, Adding, Removing and Updating Applications [p. 23]).

9.2. Java Runtime Environment (1.5)

The following instructions are only for i386 and amd64 computers. For PowerPC machines, please look at the Ubuntu Wiki. [https://wiki.ubuntu.com/JavaPPC]

1. Install the sun-java5-bin package from the Multiverse repository (see Section 6, “Managing Repositories” [p. 29]).

2. Some websites require the Java plugin for Mozilla Firefox. To install the java plugin, install the sun-java5-plugin package (for i386 machines) or the j2re-1.4-mozilla-plugin package (for amd64 machines) from the Multiverse repository.

9.3. Development Tools

This section has a list of handy open source development tools for use on Kubuntu such as Integrated Development Environments and powerful Editors. Most of these applications can be installed by using Adept (see Chapter 3, Adding, Removing and Updating Applications [p. 23]).

- KDevelop [http://www.kdevelop.org/] is an IDE for KDE which supports many programming languages.
- Eric [http://www.die-offenbachs.de/detlev/eric3.html] is a full featured Python and Ruby IDE.
- PyQt [http://www.riverbankcomputing.co.uk/pyqt/] is a set of Python bindings for the Qt toolkit.
- IDLE [http://www.python.org/idle/] is the Python IDE built with the Tkinter GUI toolkit.
- MonoDevelop [http://www.monodevelop.com/Main_Page] is an IDE for writing mono/.net applications in C# and other languages.
- Bazaar-NG [http://www.bazaar-ng.org/] is a distributed version control system used for Ubuntu development.
- Eclipse [http://www.eclipse.org/] is an IDE for Java and other programming languages. It forms the basis for closed-source programs such as JBuilder.
- NetBeans [http://www.netbeans.org/index.html] is a Java IDE that features support for CVS and a form builder.
• *Bluefish* [http://bluefish.openoffice.nl/index.html] is a powerful editor for experienced web designers and programmers.

### 9.4. Programming Documentation

This is a list of useful documentation for programming with Kubuntu.

#### 9.4.1. Dive Into Python

*Dive Into Python* is a book on learning how to program in the preferred Kubuntu language, Python. Aimed at programmers with some previous experience, it comes installed with every Kubuntu installation.

You can read *Dive Into Python* [here](file:///usr/share/doc/diveintopython/html/toc/index.html).

#### 9.4.2. Qt3 Documentation

The Qt3 Documentation package provides the complete reference to programming in Qt.

1. Install the qt3-doc package (see *Chapter 3, Adding, Removing and Updating Applications* [p. 23]).
2. To access the documentation, visit *Qt3 Documentation Index* [file:///usr/share/doc/qt3-doc/html/index.html].
Chapter 5. Configuring Your System

This chapter contains information on configuring your system.
1. Desktop Tricks

This section details some tips for using and customizing the desktop. They are mostly tips involving the desktop environment (called KDE), and the file manager (called Konqueror).

1.1. Run programs automatically when KDE starts

1. The easiest way to run programs automatically when KDE starts is to use the Session Management feature of KDE. You can setup KDE exactly the way you'd like it to start every time you login.

2. Choose K-Menu → System Settings → User Account from the Desktop Menu System. Click the Session Manager button on the left. Ensure that the Restore manually saved session checkbox is enabled.

3. Launch all the applications you want running everytime you log in. Once you have everything set to your satisfaction, click choose K-Menu → Save Session. Every time you start KDE, you will return to this configuration.

4. Another method to do this is to copy the desktop entry of the application you want to autostart from /usr/share/applications to the ~/.kde/Autostart directory.

1.2. Login automatically to KDE when the computer starts

It is possible to login a user automatically when the computer boots. This is not recommended for most computers, as it is not secure and may allow other users access to your information.

1. K-Menu → System Setting → Login Manager

2. Click on the Administrator Mode... and enter your user password to gain administrator privileges.

3. Select the Convenience tab. Check the Enable Autologin and select the user to autologin from the drop down menu and select an appropriate time delay.

1.3. Restart KDE without rebooting the computer

1. Save and close all open applications.

2. Use the Ctrl-Alt-Backspace shortcut keys to restart KDE.

3. If Ctrl-Alt-Backspace is disabled, type

   sudo /etc/init.d/kdm restart

(See Section 1.4, “Preventing the Ctrl-Alt-Backspace shortcut keys from restarting X” [p. 5] to disable Ctrl-Alt-Backspace.)

1.4. Preventing the Ctrl-Alt-Backspace shortcut keys from restarting X

1. Make a backup copy of your existing /etc/X11/xorg.conf file.
Configuring Your System

1. 

```
sudo cp /etc/X11/xorg.conf /etc/X11/xorg.conf_backup
```

2. **Open** `/etc/X11/xorg.conf` **for editing**.

```
kdesu kate /etc/X11/xorg.conf
```

3. **Add the following lines to the end of the file:**

```
Section "ServerFlags"
Option "DontZap" "yes"
EndSection
```

4. **Save the edited file.** *(an example [../sample/xorg.conf_disablectrlaltbackspacegnome]*)

5. **The change will take effect the next time you log in to KDE. If you want the change to take effect immediately, restart KDE manually.** *(See Section 1.3, “Restart KDE without rebooting the computer” [p. 54]*)

### 1.5. Start a Program Manually

Sometimes it can be useful to start a program manually, for example when the program does not have an entry in the menu. This is easy to do with the Run Command dialog.

1. Open the Run Command dialog by typing: **Alt-F2**
2. Enter the name of the program you wish to run, and press **Enter**.

### 1.6. Automatically turn on **Num Lock** when KDE starts

1. K-Menu → System Setting → Keyboard
2. Under the NumLock on KDE Startup, enable the Turn On checkbox. Click on Apply to save your settings.

The change will take effect the next time you log in to KDE. If you want to test it right away, turn off NumLock and restart KDE (see Section 1.3, “Restart KDE without rebooting the computer” [p. 54]).

### 1.7. Handle help:// links in Firefox

You may want to be able to open the help:// protocol from within Firefox.

1. Start Firefox by choosing K-Menu → Internet → Firefox
2. Type `about:config` in the address bar.
3. Right click on the list, select **New → Boolean Type** `network.protocol-handler.external.help` as Preference Name and **true** as Value
4. Right click again on the list, select **New → String Type** `network.protocol-handler.app.help` as Preference Name and **khelpcenter** as Value
1.8. Edit K-Menu

Kubuntu comes with the KDE Menu Editor, so you can customize your menus and add entries for applications that don't automatically appear after they are installed.

To add a new menu entry:

1. Open KDE Menu Editor by right-clicking on K-menu and choosing Menu Editor.
2. In KDE Menu Editor's left-hand pane, choose the submenu the new entry should appear in.
3. Choose File → New Item. In the New Item window, choose a Name. Then add the Description, Comment, and Command. Select the icon by clicking on Icon. The Command will usually be the package name, Name is what will appear on the menu, and the Comment will appear in the tooltip that appears near the menu entry. Icons are chosen from /usr/share/pixmaps directory by default, or can be chosen from anywhere in your files.

To change the order of menu entries, click and drag the entry in the KDE Menu Editor window.

1.9. Advanced Desktop Applets

Superkaramba is a system for bringing mini programs (desklets) such as weather forecasts, news tickers, system information displays, or music player controls onto your desktop, where they are sitting there in a symbiotic relationship of eye candy and usefulness.

1. Install the superkaramba package from the Universe repository (see Section 6, “Managing Repositories” [p. 29]).
2. Choose: K-Menu → Utilities → Superkaramba

1.10. Install Extra Fonts

This section describes how to install extra fonts from the Kubuntu archives.

1. For international fonts, install the following packages from the Universe repository (see Chapter 3, Adding, Removing and Updating Applications [p. 23]):

   xfonts-intl-arabic
   xfonts-intl-asian
   xfonts-intl-chinese
   xfonts-intl-chinese-big
   xfonts-intl-european
   xfonts-intl-japanese
   xfonts-intl-japanese-big
   xfonts-intl-phonetic

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2. For **Microsoft TrueType core fonts**, install the msttcorefonts package from the *Multiverse* repository (see *Chapter 3, Adding, Removing and Updating Applications [p. 23]*).

3. For **Ghostscript fonts**, install the gsfonts-x11 package (see *Chapter 3, Adding, Removing and Updating Applications [p. 23]*).

4. After installing any new font, rebuild the font information files by typing the following at a terminal prompt:

   ```
   sudo fc-cache -f -v
   ```

   If you prefer to download individual fonts by hand, you can install them easily by opening Konqueror and typing `fonts:///` into the location bar. Then you can install the font, either system-wide or for personal use by dragging and dropping into the respective folders.
2. Files

2.1. Show hidden files and folders in Konqueror
* In Konqueror, use the View → Show Hidden Files to toggle hidden files and folders on and off.

2.2. Change the default file type "Open with" program
1. In Konqueror, right click on the file and choose Open With → Other... from the menu that appears. A list of applications appears.
2. Select the default application you want for the file type. If the application is not on the list, use the Add button to add the application to the list.
3. Select the Remember application association for this type of file checkbox. Click Ok to apply your changes.

2.3. Rename all files in a directory at once
Using the program Krename, it is possible to rename multiple files according to a naming scheme which you define.
1. Install the Krename package from the Universe repository (see Section 6, “Managing Repositories” [p. 29]).
2. Launch Krename by choosing K-menu → Utilities → Krename

2.4. Opening RAR files
1. To open rar files, install the unrar package from the Multiverse repository (see Section 6, “Managing Repositories” [p. 29]).
2. To open a rar file, double click on it.
3. Partitions and Booting

3.1. Graphical Partition Editor

1. Install the qtparted package (see Section 6, “Managing Repositories” [p. 29]).
2. You can run the application with: K-Me> → System → QtParted

3.2. Check disk space usage and view the partition table

1. Launch K-Me> → System Settings → Disks & Filesystems
2. Each partition will be listed under Available Disks and Filesystems details of each partition.

3.3. List mounted devices in a terminal

To list mounted devices in a terminal, run the following command:

```bash
mount
```

The listing shows the device (such as a hard disk partition), the mount point (where you access the files), the filesystem type and the mount options.

This example shows the hda2 hard disk partition mounted as '/', with the filesystem type ext3. The partition is mounted with two options, one to allow the device to be read from and wrote to and the other to remount the device as read only in the event of any errors.

```
/dev/hda2 on / type ext3 (rw,errors=remount-ro)
```

3.4. Mount/Unmount Windows partitions

1. Read Section 3.2, “Check disk space usage and view the partition table” [p. 59]
2. First, make a directory where the partition can be mounted:

```bash
sudo mkdir /mnt/windows
```

3. Next, run the following command to mount an NTFS Windows Partition and allow read-only access:

```bash
sudo mount /dev/hdaX /mnt/windows/ -t ntfs -o ro,umask=0222
```

If your Windows partition uses the FAT32 filesystem, it is safe to allow read-write access to the partition. Run the command

```bash
sudo mount /dev/hdaX /mnt/windows/ -t vfat -o umask=0000
```

instead of the one above.

Replace `/dev/hdaX` with the correct device name for your partition.

4. To unmount the partition, run the following command:
Configuring Your System

3.5. Mount Windows partitions on boot-up
1. Read Section 3.2, “Check disk space usage and view the partition table” [p. 59]
2. First, make a directory where the partition can be mounted:

   ```
   sudo mkdir /mnt/windows
   ```
3. Next, backup your configuration file for mounting drives and open the file in a text editor with administrative privileges:

   ```
   sudo cp /etc/fstab /etc/fstab_backup
   kdesu kate /etc/fstab
   ```
4. If your Windows partition uses the NTFS filesystem, append the following line at the end of file

   ```
   /dev/hdaX /mnt/windows ntfs ro,umask=0222 0 0
   ```

   If your Windows partition uses the FAT32 filesystem, it is safe to allow read-write access to the partition. Append the following line at the end of the file

   ```
   /dev/hdaX /mnt/windows vfat umask=0000 0 0
   ```

   instead of the one above.

   Replace `/dev/hdaX` with the correct device name for your partition.

5. Save the edited file (an example `../sample/fstab_automountntfs`).
6. Read Section 3.6, “Remount /etc/fstab without rebooting” [p. 60].

3.6. Remount /etc/fstab without rebooting

- ```
  sudo mount -a
  ```

3.7. Run a system command automatically at Startup

Sometimes it can be useful to add a custom command to the startup process so that your computer executes it on every boot. To do this:
1. Edit the crontab with administrative privileges (see Section 3, “Root And Sudo” [p. 18]):

   ```
   sudo crontab -e
   ```
2. Insert the following line:

   ```
   @reboot /home/user/command
   ```

   Replace `/home/user/command` with the full path to your command.

3. Save the file and exit.
3.8. Change default Operating System at boot

1. Make a backup of your boot configuration file, and open it in a text editor:

   sudo cp /boot/grub/menu.lst /boot/grub/menu.lst_backup
   kdesu kate /boot/grub/menu.lst

2. Find this line:

   ...
   default 0
   ...

3. Replace with the following line:

   default X_sequence

4. Save the edited file (an example ../sample/menu.list_changedefaultosgrub)

3.9. Making the Boot Menu Visible

By default, the boot menu is hidden and you will need to hit Esc to see the boot menu. By following the following steps, it will be visible by default.

1. Make a backup of your boot configuration file, and open it in a text editor:

   sudo cp /boot/grub/menu.lst /boot/grub/menu.lst_backup
   kdesu kate /boot/grub/menu.lst

2. Find this line

   # hiddenmenu

   and uncomment it by removing the # in front of the line so that it looks like:

   hiddenmenu

   Save the edited file (an example ../sample/menu.list_unhidemenu)

3.10. Change the timeout for boot menu

1. 

   sudo cp /boot/grub/menu.lst /boot/grub/menu.lst_backup
   kdesu kate /boot/grub/menu.lst

2. Find this line

   ...
   timeout 3
   ...

3. Replace with the following line

   timeout X_seconds
4. Save the edited file (an example [./sample/menu.list_increasedecreasetimeoutgrub])
4. Hardware

4.1. Digital Cameras

Most USB digital cameras will be automatically detected by Kubuntu. Simply plug in and switch on your USB digital camera, Kubuntu will then ask you if you would like to import the photos from your camera. Click on Import, Kubuntu will then show you a preview of your photos. Choose a location to save your photos to, then click on Import. Kubuntu will then save your photos to your hard drive.

If you do not get the auto-import popup with your camera, it might be worth installing digiKam from the Universe repository (see Section 6, “Managing Repositories” [p. 29]). Launch digiKam after installation by choosing K-Menu → Graphics → digiKam (Photo Management) from the desktop menu system.

4.2. 3D Graphic Cards

4.2.1. 3D Nvidia Video Card Driver

1. Install the nvidia-glx package from the Restricted repository (see Chapter 3, Adding, Removing and Updating Applications [p. 23]).

2. 
   
   ```bash
   sudo cp /etc/X11/xorg.conf /etc/X11/xorg.conf_backup
   sudo nvidia-glx-config enable
   ```

3. You may adjust the settings of the new driver by running the application nvidia-settings (see Section 1.5, “Start a Program Manually” [p. 55]). If you wish, add a menu entry for this program (see Section 1.8, “Edit K-Menu” [p. 56]).

4. Read Section 1.3, “Restart KDE without rebooting the computer” [p. 54]

4.2.2. Disable the Nvidia Graphics Logo on Startup

1. Read Section 4.2.1, “3D Nvidia Video Card Driver” [p. 63]

2. 
   
   ```bash
   sudo cp /etc/X11/xorg.conf /etc/X11/xorg.conf_backup
   kdesu kate /etc/X11/xorg.conf
   ```

3. Find this section

   
   ```
   ...  
   Section "Device"  
   Identifier "NVIDIA Corporation NV11 [GeForce2 MX/MX 400]"  
   Driver "nvidia"  
   BusID "PCI:1:0:0"  
   ...  
   ```

4. Add the following line below it

   ```
   Option "NoLogo"
   ```

5. Save the edited file (an example [./sample/xorg.conf_disablenvidialogo])
6. Read Section 1.3, “Restart KDE without rebooting the computer” [p. 54]

4.2.3. 3D ATI Video Card Driver

1. Install the xorg-driver-fglrx package from the Restricted repository (see Chapter 3, Adding, Removing and Updating Applications [p. 23]).

2. `echo fglrx | sudo tee -a /etc/modules`
sudo depmod -a ; sudo modprobe fglrx
sudo cp /etc/X11/xorg.conf /etc/X11/xorg.conf_backup
sudo sed -i -e 's/"ati"/"fglrx"/g' /etc/X11/xorg.conf

3. If you are using an NForce2-based motherboard you will also need to do the following:

   kdesu kate /etc/X11/xorg.conf

   Change “Section "Device"” add the following line:

   `Option  "UseInternalAGPGART" "no"

4. Restart your machine for changes to take effect.

4.3. Wireless Cards

Many wireless cards are automatically detected by Kubuntu during installation. A complete listing of wireless cards which work with Kubuntu can be found on the Ubuntu Wiki [https://wiki.ubuntu.com/HardwareSupportComponentsWirelessNetworkCards]. Please add your wireless card to the list if it works with Kubuntu.

Some cards may not work out of the box with Kubuntu. If this is the case, please look at the Wireless Troubleshooting Guide [https://wiki.ubuntu.com/WirelessTroubleshootingGuide] on the Ubuntu Wiki which is an excellent resource for troubleshooting wireless cards.

All information regarding wireless networking on Kubuntu is collected at Wireless Networking Central [https://wiki.ubuntu.com/WifiDocs] on the Ubuntu Wiki.

4.3.1. List Wireless Devices

1. To list PCI devices:

   `lspci -v`

2. To list USB devices:

   `lsusb -v`

4.4. Configuring Keyboard

4.4.1. Change Keyboard Shortcuts

You might want to modify the default keyboard shortcuts in Kubuntu. To do so, choose K-Menu → System Settings → Regional & Accessibility from the desktop menu system. Select Keyboard Shortcuts button to modify your keyboard shortcuts.
4.4.2. Multiple Keyboard Layouts

You may want to have access to more than one keyboard layout. This is useful if you write in more than one language.

To add new keyboard layouts:

1. Choose: K-Menu → System Settings → Regional & Accessibility → Keyboard Layout
2. In the Layout tab, check the Enable Keyboard Layouts box.
3. Choose the country in which the keyboard layout you want is used, and click Add. The country should appear in the Active Layouts list.
4. Click the country in the Active Layouts list, and choose the appropriate Layout variant for the country selected. This is important for countries where more than one language are commonly spoken.
5. Click on Apply to save your settings.
6. A flag icon should now appear in the system tray showing the current keyboard layout being used. Click the flag icon to switch to the other keyboard layout.

4.4.3. Input Non-latin Characters

Skim is a KDE guipanel to input non-latin characters. To use Skim for input in your native language:

1. Ensure that your language-support package is installed. If you selected your native language during installation, this has already been installed.
2. Press Ctrl-Space to activate it and enter characters.
3. Configure Skim by right clicking the icon in the system tray, and choosing Configure

4.5. Modems

4.5.1. Winmodems

Most winmodems are not supported by Kubuntu by default, but drivers can be found that will enable the use of such modems. First you need to identify what chipset your winmodem is using:

```
wget -c http://linmodems.technion.ac.il/packages/scanModem.gz
gunzip -c scanModem.gz > scanModem
chmod +x scanModem
sudo ./scanModem
kate Modem/ModemData.txt
```

Check the output in Kate, it should list what modem chipset you have. Once you are aware of the chipset you have, see SettingUpModems [https://wiki.ubuntu.com/SettingUpModems] and follow the directions for your modem.
### 4.5.2. ADSL Modems

All PPOE and ADSL modems that use ethernet for the connection (and some that use USB) are supported by Kubuntu. For router-style ADSL modems, just connect it up, configure the modem as per your ISPs instructions and configure networking in Kubuntu. For information on PPPOE modems see [ADSLPPPoE](https://wiki.ubuntu.com/ADSLPPPoE) on the Ubuntu wiki.

### 4.6. Printers

Some printers will be automatically detected by Kubuntu; for those that are not, choose K-Menu → System Settings → Printers then choose Add → Add Printer/Class and run the Printer Install Wizard.

There are some printers that need further setup. Search the databases at [LinuxPrinting.org](http://www.linuxprinting.org/) or check the [Ubuntu Wiki's Printer page](https://wiki.ubuntu.com/HardwareSupportComponentsPrinters) for possible information on your printer.

### 4.7. CDROMs

#### 4.7.1. Speed up CD/DVD-ROM access (enable DMA)

1. Assuming that `/dev/cdrom` is the location of the CD/DVD-ROM
2. ```
sudo hdparm -d1 /dev/cdrom
dsud cp /etc/hdparm.conf /etc/hdparm.conf_backup
kdesu kate /etc/hdparm.conf
```
3. Append the following lines at the end of file

   ```
   /dev/cdrom {
   dma = on
   }
   ```
4. Save the edited file (an example [../sample/hdparm.conf_speedupcddvdrom])

#### 4.7.2. Mount CD/DVD-ROMs and show all hidden and associated files

1. Assuming that `/media/cdrom0/` is the location of CD/DVD-ROM
2. To mount CD/DVD-ROM
   ```
sudo mount /media/cdrom0/ -o unhide
   ```
3. To unmount CD/DVD-ROM
   ```
sudo umount /media/cdrom0/
   ```

#### 4.7.3. Forcefully eject CD/DVD-ROMs manually

- `sudo eject`
5. Networking

5.1. Change the Computer Name
1. K-Menu → System Settings → Network Settings
2. Click on the Administrator Mode... and enter your user password to gain administrator privileges.
3. Select the Domain Name System tab. Enter the name of the computer in the Hostname field.
4. Click Apply, close all open applications and reboot.

5.2. View remote SSH, FTP, and SFTP servers using Konqueror
• In the Location Bar, enter the following:

For SSH, use:

ssh://username@ssh.server.com

For FTP, use:

ftp://username@ftp.server.com

For SFTP, use:

sftp://username@sftp.server.com

Replace username with your username and replace everything after the @ symbol with the server's address. You will be prompted for a password if needed. If there is no username (anonymous) omit the username and the @ symbol.

Alternatively, to specify your password manually, change one of the above like so:

ftp://username:password@ftp.server.com

5.3. Networking Utilities

5.3.1. Guarddog Firewall
A firewall protects a computer system from unauthorized access. It is not normally necessary to install a firewall on a Kubuntu system, because by default, access to the system is closed. However, if you run any services which you allow other computers to access (for example, the Apache web server), it is advisable to install a firewall. Guarddog is a program which allows you to control Linux’s firewall through a graphical interface.
1. Install the Guarddog package from the Universe repository (see Section 6, “Managing Repositories” [p. 29]).
2. After it is installed, run the Guarddog by choosing K-Menu → System → Guarddog
3. Enter your password in the Run as root -KDE su dialog box which pops up.
4. Click the Help in the Firewall Configuration window for details on using Guarddog.

5.3.2. Graphical Network Monitor

Etherape displays network activity among different hosts using circles of varying size.

1. Install the etherape package from the Universe repository (see Section 6, “Managing Repositories” [p. 29]).
2. Choose: K-Menu → Internet → Etherape

5.3.3. Network Traffic Analyzer

Ethereal is a network traffic analyzer/sniffer that captures packets off the network in real time and displays their contents.

1. Install the ethereal package from the Universe repository (see Section 6, “Managing Repositories” [p. 29]).
2. Choose: K-Menu → Internet → Ethereal
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