

Setting up your System

This book presumes you are using the Linux operating system with either a KDE or Gnome desktop. Specific set-up instructions for common architectures are at <http://www.ubiubi.org/CProgrammingInLinux/>

If you are using the KDE desktop you will have Konqueror or Dolphin as the File Manager and kate or kedit for an editor

In Gnome you would probably use Nautilus and gedit

You need to be familiar with the idea of doing some things as “super user” so that you have access permission to copy or edit certain files. This is normally done by prefacing the Linux command with “sudo” and providing the password, as in this example:

```
“sudo cp hello3 /srv/www/cgi-bin/hello3”
```

which copies the file “hello3” to the area where the Apache server locates common gateway interface or cgi programs.



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In KDE “kdesu konqueror” would open a file manager as super user.

In Gnome “gnomesu nautilus” would open a file manager as super user.

You will need to have installed the following packages:

package	Ubuntu	Open Suse
C development libraries	build-essential	Base Development (pattern)
Apache web server	apache2	Web and LAMP Server (pattern)
Apache development libraries	apache2-prefork-dev	apache2-devel
MySQL server, client and development libraries	mysql-server libmysqlclient-dev	libmysqlclient-devel
GD and development libraries	libgd2-xpm libgd2-xpm-dev	gd gd-devel

Throughout the text you will see references to the folder **cgi-bin**. The location of this will vary between Linux distributions. By default this folder used for web programs is:

OpenSuse: **/srv/www/cgi-bin**

Ubuntu: **/usr/lib/cgi-bin**

To place programs there you need superuser rights, so it may be better to create a folder inside your own home/*****/public_html/cgi-bin directory and change the **ScriptAlias** and associated **Directory** references inside the Apache configuration files (OpenSuse) **/etc/apache2/default-server.conf** or (Ubuntu) **/etc/apache2/sites-available/default**.