Recommended Software and how to install it.

Date Created 15th March 2020

Reviewed

V3

Description: These notes can be used on the Raspberry Pi 4 Workstation and the Raspbian for PC/Mac operating system

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Open-Source Software

There is a wealth of free quality software available for you all it needs is for you to know where to find it and how to install it. Microsoft, Google, Apple Facebook all use this open source software, they just don't want you to use it, they prefer you to pay them!

Note: Before installing any of this great software you will need to make sure your system is up to date. This is easily done and only takes a few seconds.
Open a terminal and type the commands:

sudo apt-get update

followed by

sudo apt-get upgrade

Now you're ready to go and get some of that great stuff.
We recommend you donate to the developers of any software you find useful, as a thank you. If you can't that's ok but we can all tell people how good/useful their stuff is.

General Interest Tasks

There are some programs that are set as default on Raspbian that I don't think much of so you can remove them and install the ones you prefer.

The Raspberry Pi imager, released March 2020 is perfect to put operating system images onto an sd card.

Install it with

sudo apt install rpi-imager

Internet applications

The internet is a very unsafe place at the best of times. It is not helped by the way big companies steal and use your data. Google Facebook Microsoft all have their own agendas and are far from honest with you about how they collect your data and how they use it. Alternatives are safer and easy to install.

Before you install new software you should first update your existing software list. Do this by opening a terminal and typing the following commands, the text in bold.

sudo apt-get update
Then upgrade any of the software that needs it.
sudo apt-get upgrade
Now you're ready to install any new software you might like to try.

When it comes to browsing the best and safest Browser to use is **FireFox**

sudo apt install firefox-esr

For Email the De Facto standard is **ThunderBird**. I use this because not only does it handle your email but it also has calendars, tasks, events and to do lists.

sudo apt install thunderbird

For MultiMedia work

Shotwell is good for organising your Photos. It is very easy to use and has some very useful features

sudo apt install shotwell

OpenShot is ideal for Video Editing. Pupils can come up with good movies from photos as well as videos. There are a lot of tutorials that help this work.

sudo apt install openshot

For Graphics work the standard is **GIMP** web designers tell me this is a much better alternative than other paid for programs.

sudo apt install gimp
For Audio work Audacity seems to be the program of choice.
sudo apt install audacity

Taking Screen Shots

Taking screen shots is an essential task for teachers, especially if you write tutorials or instructional documents. Raspbian has scrot installed by default for this task. It’s a very basic screen snipping tool but there are easier ways of doing things!

Gnome Screen Shot

This is a easy to use piece of software just made for the job. This can be installed in the usual way, first update your software list
sudo apt-get update
Then upgrade any of the software that needs it
sudo apt-get upgrade
Now you’re ready to install any new software you might like to try.

To install gnome screenshot open a terminal and type

sudo apt-get install gnome-screenshot

That’s it,were you expecting something harder?

Doing techie stuff

Storage managers

For looking at your storage devices we recommend gparted. Probably the Carlsberg of drive manager software.
To install, (after updating your system: See first page) open a terminal and type

sudo apt-get install gparted

For fixing issues when using Microsoft generated files use the exfat tools. To install these open a terminal and type:

sudo apt install exfat-fuse exfat-utils

Remote Working

Accessing files on a remote computer is often done using the File Transfer Protocol or FTP
FTP file transfer is used for getting images for the Raspbian operating system.

sudo apt install filezilla

Secure Shell SSH. This is a way of connecting to and giving commands to a remote computer. It is like opening a terminal on the remote computer. It is often used to do things like updating a server without the usual keyboard mouse and monitor. The Raspberry Pi RACHEL is an example.
The best program for this is Putty

sudo apt install putty

DataBase and Web Development.

LibreOffice has its own database program called Base. This is great for teaching about databases but for advanced work you may prefer to use programs like MariaDB. Often this sort of work is usually done in conjunction with a web server. This is work of an advanced nature so you will find it challenging to setup and use these programs.

To install a Linux, Apache, MySQL and PHP (LAMP) server on Raspbian

sudo apt install apache2

For Database Training in the use of SQL (Structured Query Language) there is SQLlite. This can be installed by opening a terminal and typing:

sudo apt install sqlite3

MariaDB is a preferred solution to MySQL can be installed with 2lines of commands.

Remember this is not easy work and I suggest a lot of reading before you start!

sudo apt install mariadb-server mariadb-client mariadbclient-dev

sudo pip3 mysqlclient

Project Management

ProjectLibre is the best Project software I have used on Linux. The Tutorial Notes are on our website giakonda.org.uk/resources
It behaves as microsoft project and is compatible with it.
Open a terminal and make sure the workstation is up to date

sudo apt update
sudo apt upgrade

Then on a single line type:

sudo wget http://downloads.sourceforge.net/project/projectlibre/ProjectLibre/1.5.7/ projectlibre_1.5.7-1 .deb

Note: The exact name of the file will change. The file above was correct as of 08/03/2020. You can go to https://sourceforge.net/projects/projectlibre/ To find the latest file and use that filename.