Raspberry Pi Multi Room Music Player

Done By

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 • Introduction

We are going to try and make a Multi room music player which will be set in every room in the house which is all connected to one device which is the Raspberry Pi.

**Introduction**

Computer

Home network

Raspberry Pi

SD card

AC Adaptor

Micro USB cable

HDMI cable

DAC

Amplifier

Speakers

**Step 1**

First of all we need to setup your Logitech account and install the Logitech Media Server on the computer contains your music collection. This computer should always be on when you want to play music. The LMS and instructions can be found at http://www.mysqueezebox.com/download

Once installed setup your library

Also login to your squeezebox account otherwise you cannot see your music on the player.

**Step 2**

 Now we'll setup the Raspberry Pi, to do this you'll need to have Raspbian installed. You can buy a Pi with Raspbian pre-installed or you can use a 2GB or larger SD card that you already have.

I am using an SD card I already have. Plug the SD card into your computer and download the latest Raspbian http://downloads.raspberrypi.org/raspbian\_latest

I'm using windows so I unzipped the file and used win32diskimager (http://sourceforge.net/projects/win32diskimager) to write the Raspbian image to the SD card.

Ok now we have Raspbian installed it's time to get our Pi up and running, plug in your SD card, Wi-Fi dongle, USB keyboard, Ethernet cable to your router, HDMI to your monitor and lastly the micro USB cable to the power socket. The first time you boot up you'll end up with the configuration tool on the screen.

**Step 3**

 Things you need to change are:
• Expand the filesystem so Raspbian utilises the entire SD card
• Change your password
• Set your language, region and time zone

Now the advanced options:
• Change your hostname so you can recognise your Pi on the network.
• Enable SSH so you can access your PI from a computer on your network.
• Select finish which might restart your Pi.

If you are in the US or Australia like me you will want to change the keyboard layout to US.
To do this you’ll need to change a file entering the command:

Use the arrow keys to move the cursor and change the gb to us.
Now save the file by pressing ctrl + X and Y to save changes

now to update your Pi, type the following commands:

Press y to download larger updates.

**Step 4**

 Now press F6 to select your DAC and use the up arrow to set the volume to maximum.

Now press Esc to exit and use the following command to save your changes

We’ll need to install some extra sound libraries to play different music formats

Install guide

 • Insert the SD card into your SD card reader and check which drive letter was assigned. You can easily see the drive letter (for example G:) by looking in the left column of Windows Explorer. You can use the SD Card slot (if you have one) or a cheap SD adaptor in a USB port.

 • Download the Win32DiskImager utility from the Sourceforce Project page (it is also a zip file); you can run this from a USB drive.

 • Extract the executable from the zip file and run the Win32DiskImager utility; you may need to run the utility as administrator. Right-click on the file, and select Run as administrator.

 • Select the image file you extracted above.

 • Select the drive letter of the SD card in the device box. Be careful to select the correct drive; if you get the wrong one you can destroy your data on the computer's hard disk! If you are using an SD card slot in your computer and can't see the drive in the Win32DiskImager window, try using a cheap SD adaptor in a USB port.

 • Click Write and wait for the write to complete.

 • Exit the imager and eject the SD card.