##### Auto Login and Auto Start in Raspberry Pi

##### Like most people you might have bought the Raspberry Pi to build your own appliance for home or office. The next thing you would do is setup the Raspberry Pi, connect your peripherals and install or develop the necessary software.

##### What you would expect to see at the end of your project is to power on the appliance and it should show you all the magic that you wanted to see.

##### The spoiler comes when the Pi boots to the login prompt and wait for you to enter the username and password. This article explains how to automate some of the tasks in a Raspberry Pi.

##### Auto Login

##### How to automatically login to Raspberry Pi text console as pi user.

##### Step 1: Open a terminal session and edit inittab file.

##### sudo nano /etc/inittab

##### Step 2: Disable the getty program. Navigate to the following line in inittab 1:2345:respawn:/sbin/getty 115200 tty1 And add a # at the beginning of the line to comment it out #1:2345:respawn:/sbin/getty 115200 tty1

##### Step 3: Add login program to inittab. Add the following line just below the commented line1:2345:respawn:/bin/login -f pi tty1 </dev/tty1 >/dev/tty1 2>&1 This will run the login program with pi user and without any authentication

##### Step 4: Save and Exit. Press Ctrl+X to exit nano editor followed by Y to save the file and then press Enter to confirm the filename.

##### Reboot the pi and it will boot straight on to the shell prompt pi@raspberrypi without prompting you to enter username or password. But this isn't enough; you need your Pi to automatically run some command or a script. which is explained in the next section.

##### Run a Script after login

##### Auto running a script

##### Create the script

##### Create a folder to store the script in

##### mkdir ./bin

##### cd ./bin

##### Create the script using the nano text editor

##### sudo nano script\_auto\_run

##### In the nano editor, type this script:

##### #!/bin/bash

##### # Script to start our application

##### echo "Doing autorun script..."

##### sudo /home/pi/projects/my\_project.a &

##### 

##### Replace "sudo /home/pi/projects/my\_project.a &" with the commands you want carried out.  The "&" means do the command in the background.

##### Note that when executing a command without logging is as a user you can't depend on any path or environment variables so you must provide full paths to everything.

##### Save it by pressing Ctrl+X, " Y", ENTER

##### This script needs to be made executable by typing this :

##### sudo chmod 755 script\_auto\_run

##### 

##### You can test the script works by typing

##### /home/pi/bin/script\_auto\_run

##### How to automatically run a script after login. Step 1: Open a terminal session and edit the file /etc/profile sudo nano /etc/profile Step 2: Add the following line to the end of the file . /home/pi/your\_script\_name.sh replace the script name and path with correct name and path of your start-up script. Step 3: Save and Exit Press Ctrl+X to exit nano editor followed by Y to save the file.

##### Auto Start the Desktop (LXDE)

##### How to automatically boot to desktop

##### Step 1: Open a terminal session and run raspi-config

##### sudo raspi-config

##### Step 2: Select Enable Boot to Desktop/Scratch from the menu and press Enter

##### Step 3: Select Desktop Login as user pi at the Graphical Desktop.

##### Step 4: Select <Finish> and Enter, then select <Yes> to reboot.

##### Pi will now boot straight to the Desktop.