User Manual

Record a Video and an Audio Using Raspberry Pi

Group 26

Dhirubhai Ambani Institute of Information and Communication Technology
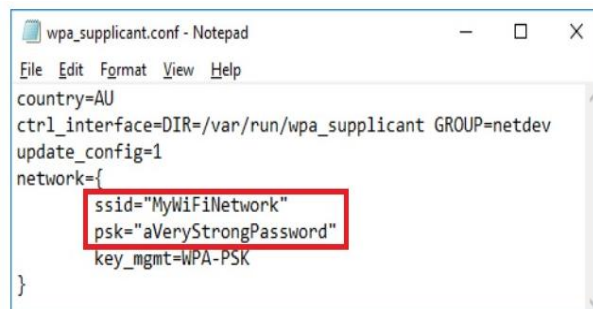
Table of Content

Getting Started

To getting started with pi you need to remember the following points.

- A Raspberry Pi with Wi-Fi onboard.
- A micro SD card with SD adapter.
- A power supply for your Pi; we recommend the **official supply**.
- A computer connected to the same network you wish to connect your Pi too.
- Raspbian Jessie or Jessie Lite, download from the **RPi foundation** (they have a complete installation guide if you run into trouble).
- Install the latest Raspbian Version on the SD Card.
- **PuTTY**, a free SSH program. If you're on OSx or Linux, you can already SSH from your terminal.

Setup Your Wi-Fi Credentials

Insert your SD card with Raspbian into it into your computer and open the SD card from your file explorer - the drive will be labeled **boot**. Within the **boot** directory, **Right-Click** > **New** > **Text Document** and rename the document to **wpa_supplicant.conf** - Make sure that you change the file extension from .txt to .conf - You will be prompted to confirm the extension change.

Connect

Your Pi is now ready for startup. Eject the SD card from your computer and insert it into your Pi. Power up your Pi (we recommend an **official power supply**) and wait a few moments for the initial boot to complete. On your computer, open up **PuTTY**.
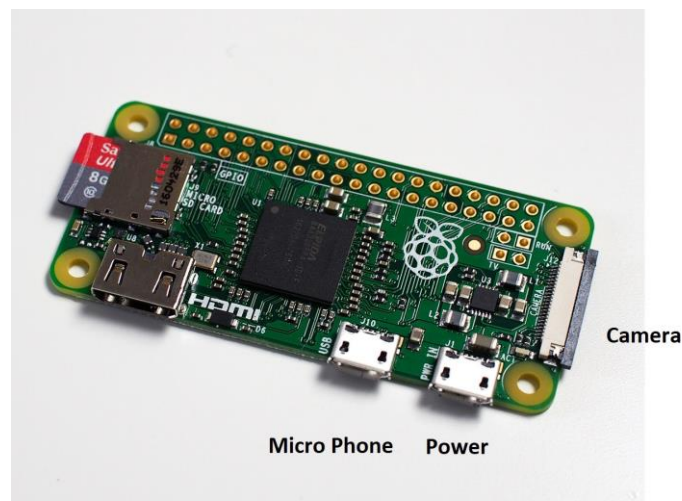
We know that the default hostname (the name of the machine) for a fresh Raspbian install is **raspberrypi**, so in the *Host Name, (or IP address)* field enter **raspberrypi**. This searches for machines on that name on the local network. Once a connection is established, you'll be prompted by PuTTY to accept the connection to the new machine. You should see a black terminal prompting for a login. Enter the default username: **pi** and the default password: **raspberry**

Logout

To log out from the raspberry pi one need to give ***sudo shutdown -h now*** command on screen and it will take 30 seconds to shut down.

Working

- After setting up the Wi-Fi in raspberry pi connect the power supply.
- Connect Pi camera module and connect Microphone with the raspberry pi using micro USB to USB converter.
- Run the code and see the outputs.

Checking the Results

To check the result on the local server, use **WinSCP** free available application which shows all file and folders of raspberry pi on windows explorer mode.

Login with the IP of the raspberry pi and provide username as ***pi*** and password as ***raspberry***.