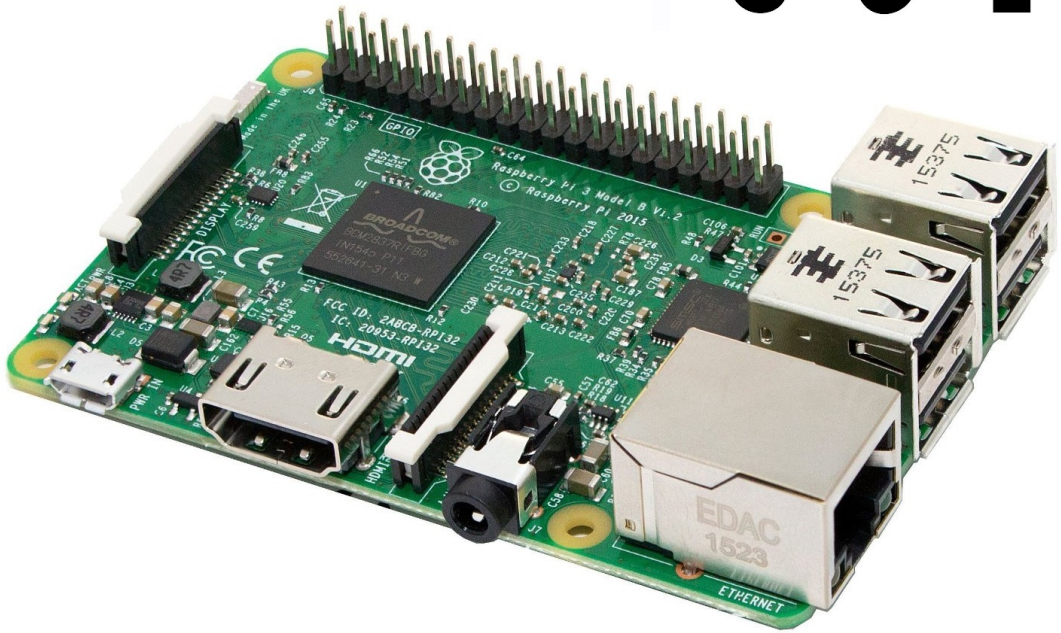
Configuring Wifi on Raspberry Pi: headless way



https://jim79.github.io

Configure to wifi : headless (Method1)

https://jim79.github.io

- Open text editor Use a plain text editor like notepad++ rather than a Word Processor

  If using Windows you need to make sure the text file uses Linux/Unix style line breaks

  In Notepad++ set the following (“Edit” > “EOL Conversion” > “UNIX/OSX Format”. “UNIX” is then shown in the status bar

- Write the following script into the file. Edit the “wifi-name” and wifi-password with your wifi name and password

  ctrl_interface=DIR=/var/run/wpa_supplicant GROUP=netdev

  country=<Insert 2 letter ISO 3166-1 country code here>

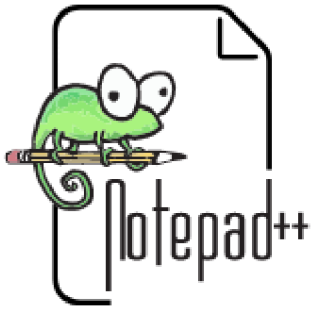
  update_config=1

  network={

  ssid="<Name of your wireless LAN>"

  psk="<Password for your wireless LAN>"

  }



https://notepad-plus-plus.org/downloads/

Configure to wifi : headless (Method1)

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- Save the file as *wpa_supplicant.conf*
- Put this file onto the boot folder of the SD card
- When the Raspberry Pi boots for the first time
  - it will copy that file into the correct location in the Linux root file system and use those settings to start up wireless networking

Creating default user in headless mode

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- Create a file called userconf or userconf.txt in the boot partition of the SD card
- This file should contain a single line of text consisting of username:encrypted-password
- <desired username>:encrypted- password
- If your desired user name is pi,

  pi:<encrypted- password>

Creating default user in headless mode

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- You can create the encrypted password using openssl
  - For instance to encrypt your password ‘raspberry’, enter in the terminal

    echo raspberry | openssl passwd -6 -stdin

    And we get the encrypted representation of the password below

    6JyfCNXDuUtIPcKzl$4XogJWqxHhYOqhL9AbebdZwx95jfcVlkSgaCnkEdib.o.qHZ4qT.abPMJ8oFKZ8a0Jd/YpKw3WDqwl8Muwcac1
- Copy and paste the encrypted password after the colon (:) in the userconf file as shown below

  pi:6JyfCNXDuUtIPcKzl$4XogJWqxHhYOqhL9AbebdZwx95jfcVlkSgaCnkEdib.o.qHZ4qT.abPMJ8oFKZ8a0Jd/YpKw3WDqwl8Muwcac1
- Paste the userconf file into the boot partition of the SD card

Boot into pi

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- Now eject the SD card from PC
- Insert the SD card into Rpi and power it
- Wait for a 3-4 minutes, Rpi would connect to the Wifi
- You would be able to SSH to Rpi as the user ‘pi’ with password ‘raspberry’