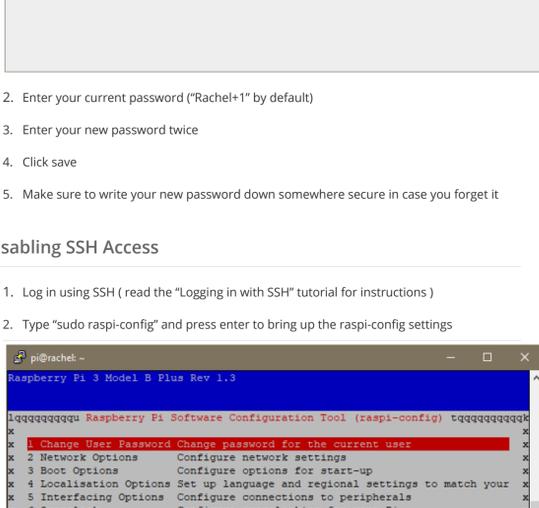


## Securing Your RACHEL-Pi

Many settings are left open with default passwords for easy access on new installations. It's important to change some of these settings and to set your own unique passwords to be sure only administrators can access admin settings

### Change the RACHEL admin password

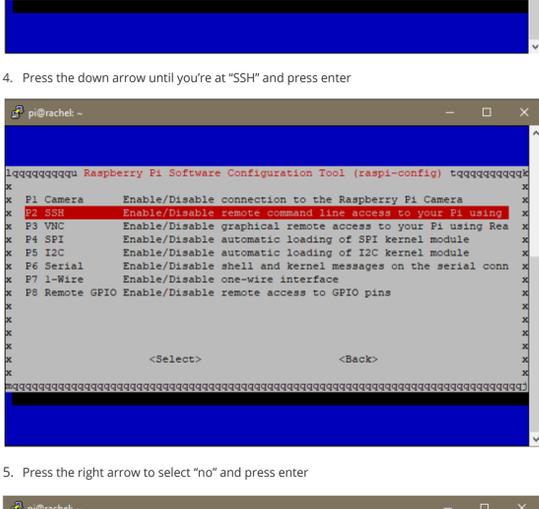
1. Log in to the RACHEL admin settings and navigate to the "Settings" tab



2. Enter your current password ("RACHEL" by default)
3. Enter your new password twice
4. Click save
5. Make sure to write your new password down somewhere secure in case you forget it

### Disabling SSH Access

1. Log in using SSH (read the "Logging in with SSH" tutorial for instructions)
2. Type "sudo raspi-config" and press enter to bring up the raspi-config settings



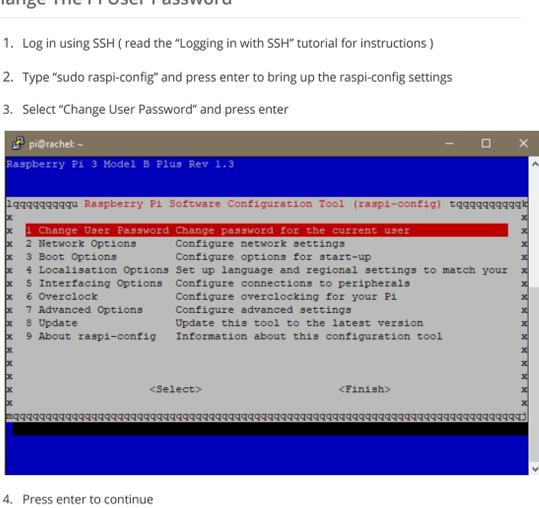
3. Press the down arrow until you're at "Interfacing Options" and press enter



4. Press the down arrow until you're at "SSH" and press enter



6. SSH should now be disabled. Press enter to continue



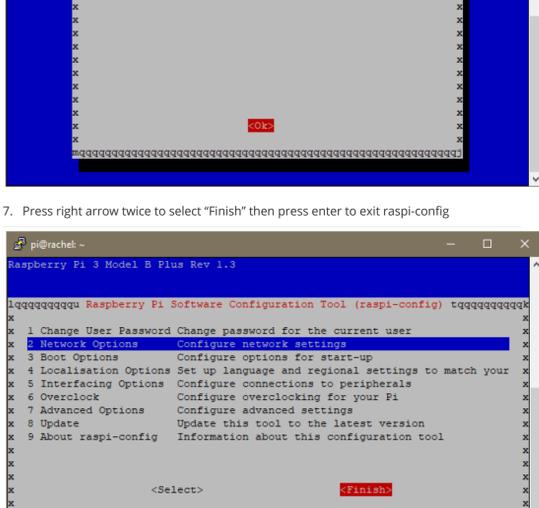
7. Press the right arrow twice to highlight "Finish" and press enter to exit raspi-config



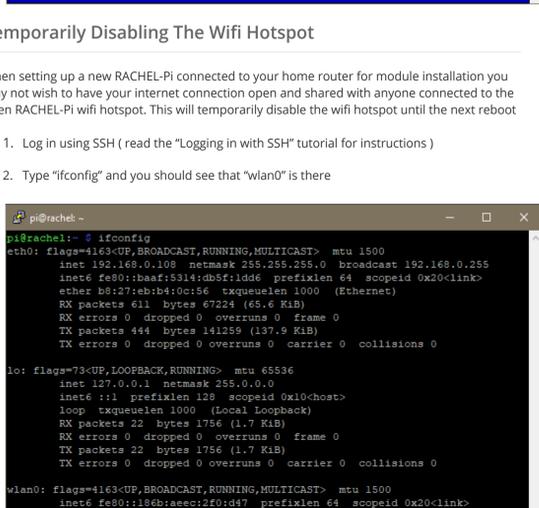
8. SSH will now be disabled the next time you reboot your device. To enable SSH again at any time see the tutorial "Login in with SSH"

### Change The Pi User Password

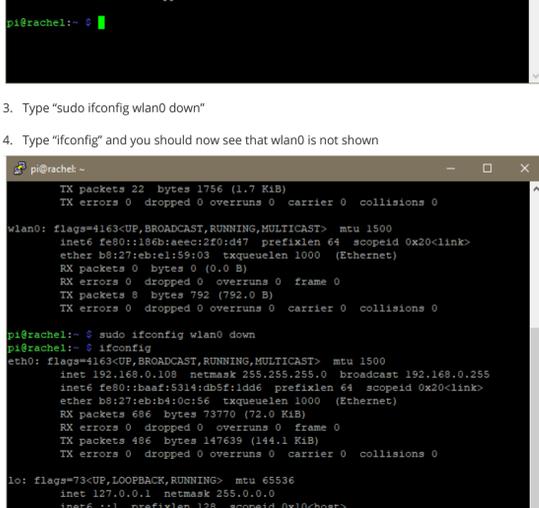
1. Log in using SSH (read the "Logging in with SSH" tutorial for instructions)
2. Type "sudo raspi-config" and press enter to bring up the raspi-config settings
3. Select "Change User Password" and press enter



4. Press enter to continue



5. Enter your new password and press enter. When prompted, retype the same password



6. Your password should now be successfully changed. Press enter to continue

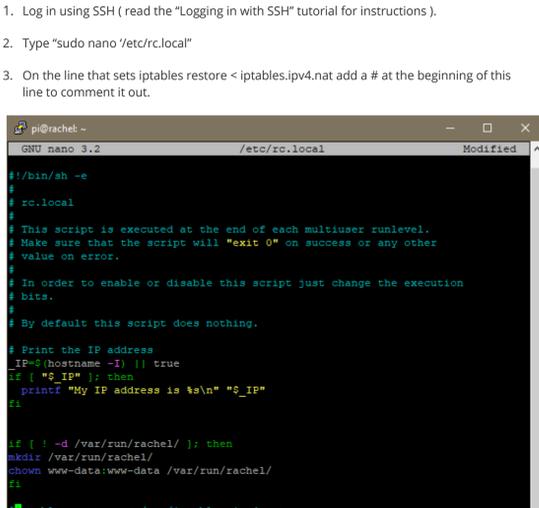


7. Press right arrow twice to select "Finish" then press enter to exit raspi-config

### Temporarily Disabling The Wifi Hotspot

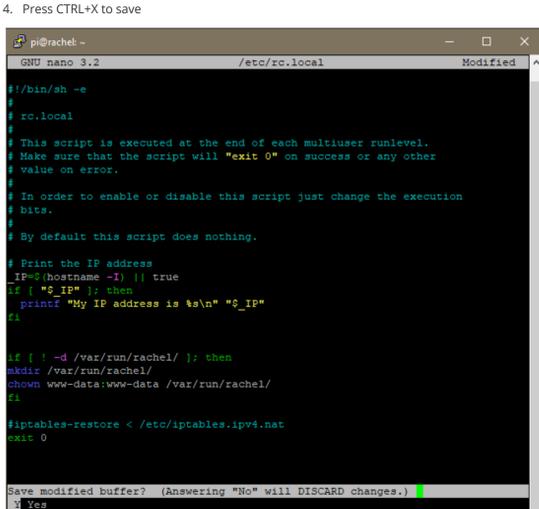
When setting up a new RACHEL-Pi connected to your home router for module installation you may not wish to have your internet connection open and shared with anyone connected to the open RACHEL-Pi wifi hotspot. This will temporarily disable the wifi hotspot until the next reboot

1. Log in using SSH (read the "Logging in with SSH" tutorial for instructions)
2. Type "ifconfig" and you should see that "wlan0" is there



3. Type "sudo ifconfig wlan0 down"

4. Type "ifconfig" and you should now see that wlan0 is not shown

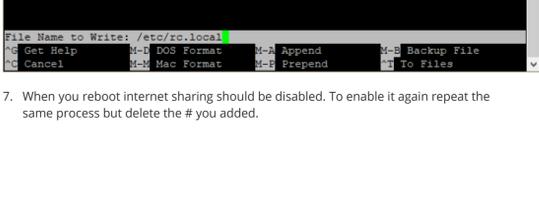


5. As wifi is now temporarily disabled, the RACHEL-Pi hotspot will also be disabled until the RACHEL-Pi is rebooted. At that time it will be automatically enabled again

### Turning Off The Wifi Hotspot

This will disable the wifi hotspot until you manually enable it again, even after rebooting. This is useful if you're testing without the hotspot or using a router to provide wifi instead of the built-in wifi on the Raspberry Pi

1. Log in using SSH (read the "Logging in with SSH" tutorial for instructions)
2. Type "sudo rfkill list" to see that wifi is not blocked



3. Type "sudo rfkill block wifi"

4. Type "rfkill list" and you should now see that wifi is soft blocked



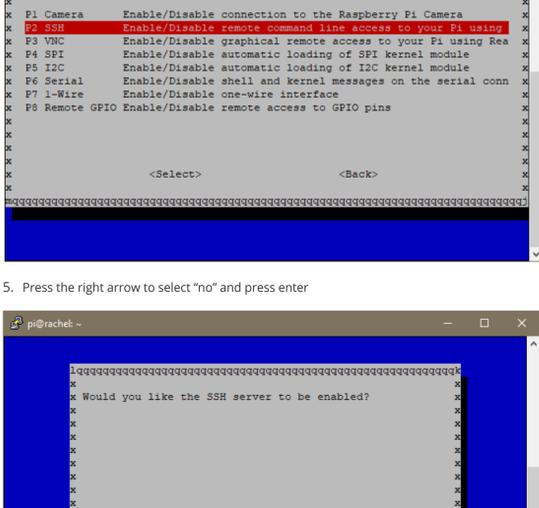
5. The "ifconfig" and you should not see "wlan0" to confirm wifi is now blocked. The RACHEL-Pi hotspot should now be disabled
6. To unblock wifi type "sudo rfkill unblock wifi". Wifi should now be enabled and the hotspot available

### Disable Network Forwarding

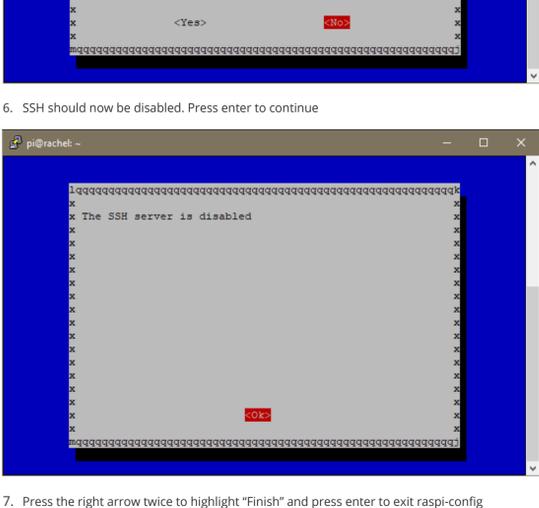
If your RACHEL-Pi is connected to the internet it is automatically sharing it's connection with any users connected to the RACHEL-Pi hotspot. This will disable the internet forwarding feature.

1. Log in using SSH (read the "Logging in with SSH" tutorial for instructions).
2. Type "sudo nano /etc/rc.local"

3. On the line that sets iptables restore < iptables.ipv4.nat add a # at the beginning of this line to comment it out.

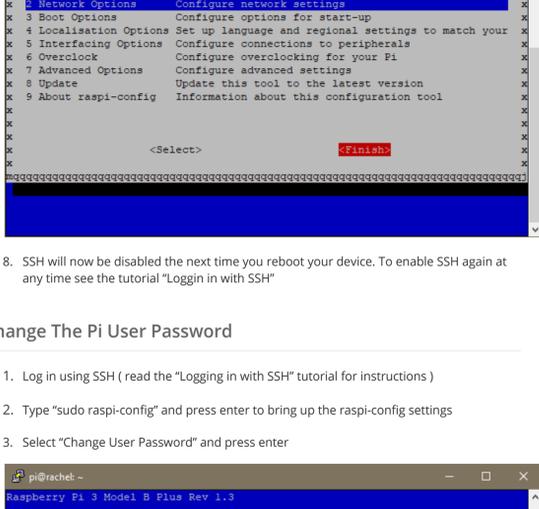


4. Press CTRL+X to save



5. Press y

6. Press Enter, making sure not to change the file name



7. When you reboot internet sharing should be disabled. To enable it again repeat the same process but delete the # you added.