Install a Realtek RTL8188CU based Wireless LAN (WiFi) 802.11b/g/n network adapter.

- If the Raspberry Pi is powered and not in *halt* mode perform the following at the shell prompt.
- sudo shutdown -h now
- The system will shutdown and halt immediately.

Plug in the USB 2.0 WiFi adapter into the top USB 2.0 socket. I generally use the bottom USB 2.0 socket for my powered USB 2.0 hub.

Repower the Raspberry Pi. The USB 2.0 WiFi adapter should be automatically detected and configured using DHCP.

The easy way to do this is to **startx** and use the **WiFi Config** application link on the default desktop. The **wpa_gui** application window will be displayed with **Adapter**: \rightarrow wlan0 and **Network**: \rightarrow {blank}. The **Current Status** tab displays the **Status**: \rightarrow Inactive. Except for the **Last Message**: , all other fields are blank.

Left-click the Scan button

The *Scan results* application window will additionally be displayed.

• Left-click the *Scan* button on this window also

The scan results will now be populated with WiFi networks your USB 2.0 adapter can 'see'.

Double-click the line corresponding to the desired network SSID
Note: The WiFi network's SSID Broadcast, must be Enabled.

The top three fields should be automatically populated based upon the previously performed scan. Typically your WiFi network should be setup for Authentication: \rightarrow WPA2 Personal (PSK) and Encryption: \rightarrow CCMP.

- Enter the PSK: \rightarrow {your passphrase}
- Left-click the Add button to add the network to you list of networks
- Left-click the Close button to exit the Scan results window

At this point you are now connected to the selected WiFi network.

Back at the wpa_gui window on the *Current Status* tab. Note that for $Adapter: \rightarrow wlan0$ and $Network: \rightarrow your SSID$ all of the additional fields have been populated. Note that this tab supplies you DHCP assigned IP address. Now save the configuration.

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• Left-click File → Save Configuration Ctrl+S

You may now exit the wpa_gui window. wpa_gui will continue to run in background and be available in the tool tray.