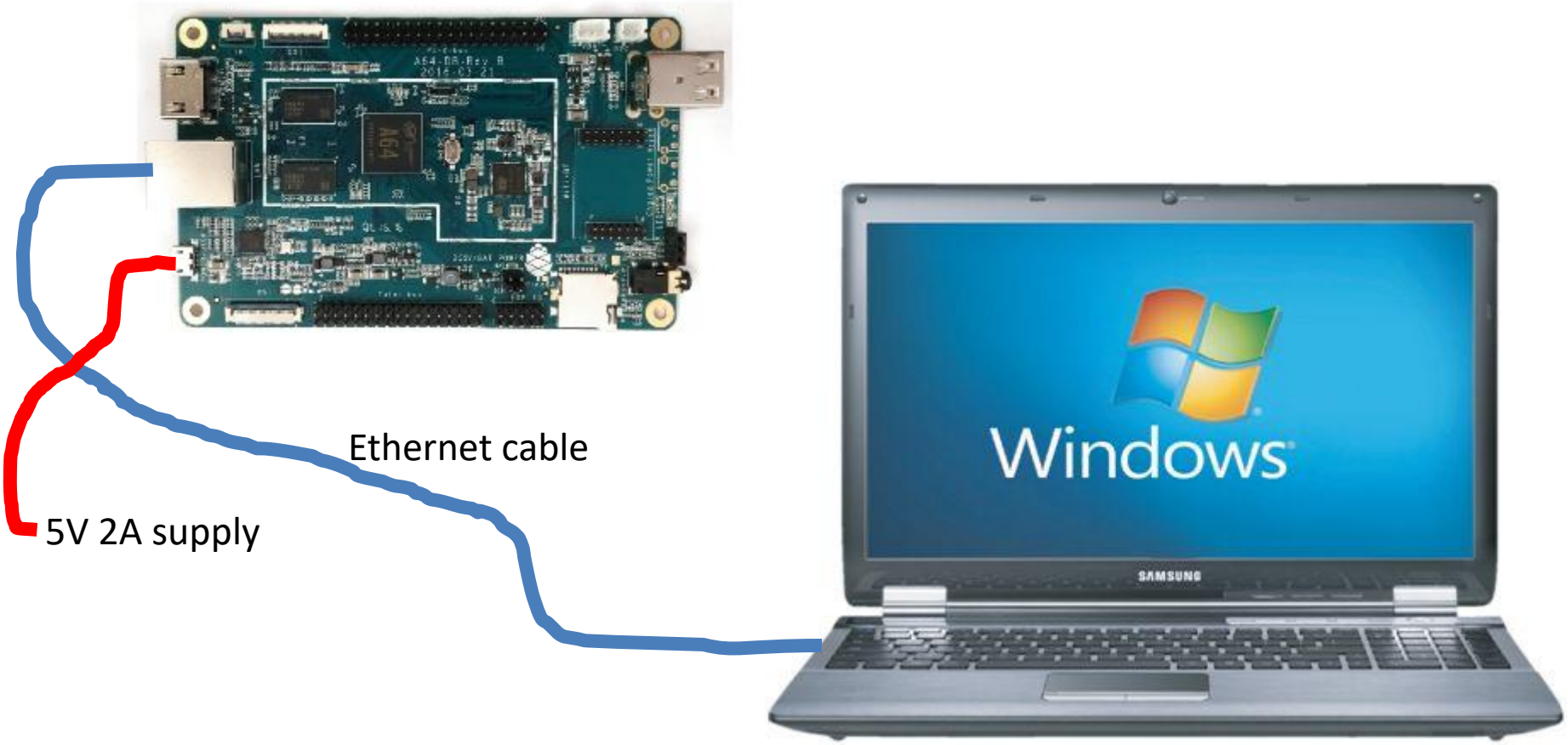
Pine64 controlled from Windows



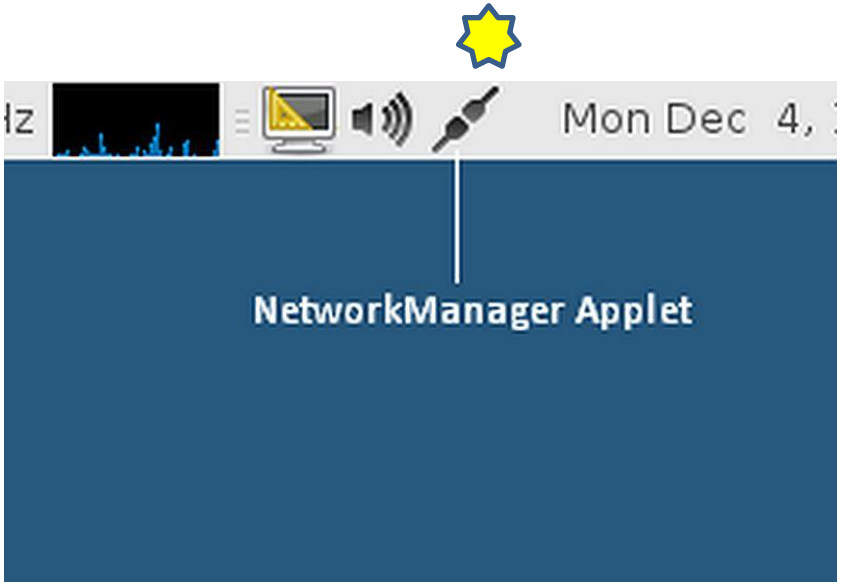
Presentation by Eric S. Clarke 8/12/2017

Requirements to set up Pine64

- Pine64 SBC module running Debian Mate Linux
- 5V 2A P/S for Pine64
- HDMI display screen
- USB Keyboard
- USB Mouse
- Ethernet cable
- Crossover wired if PC is 100Base T or less Ethernet.

Pine64 network settings for fixed IP 1

- Open NetworkManager Applet on Debian Mate (top right hand side of screen) by right clicking the icon shown below:-



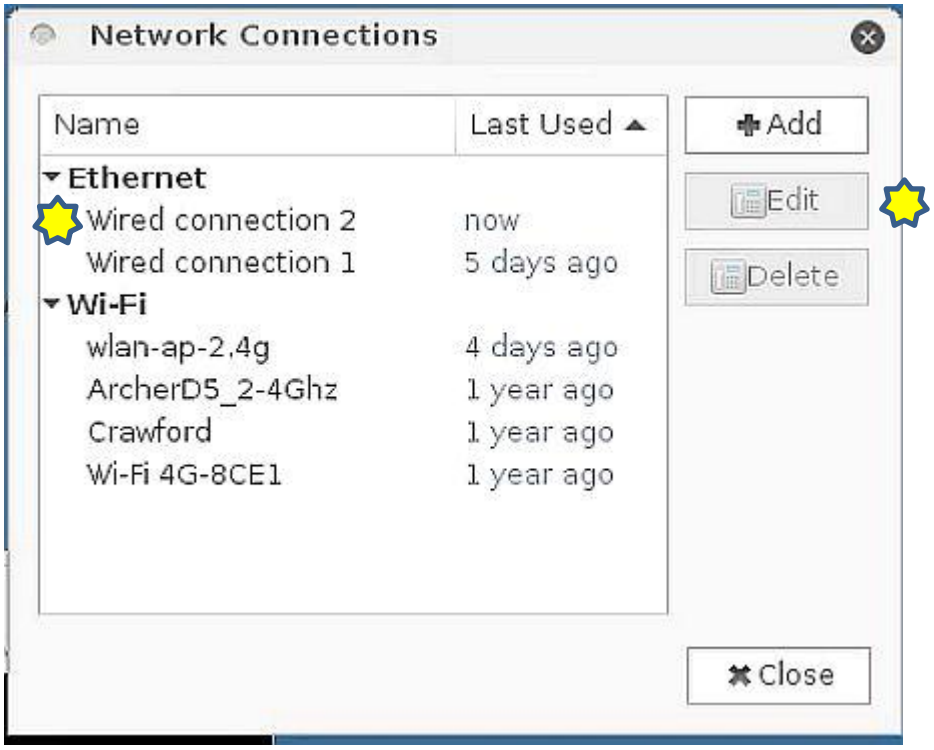
This can only be done using an HDMI screen, mouse and keyboard attached to the Pine64

- Now select “Edit Connections”

  This will take you to the settings area

Pine64 network settings for fixed IP 2

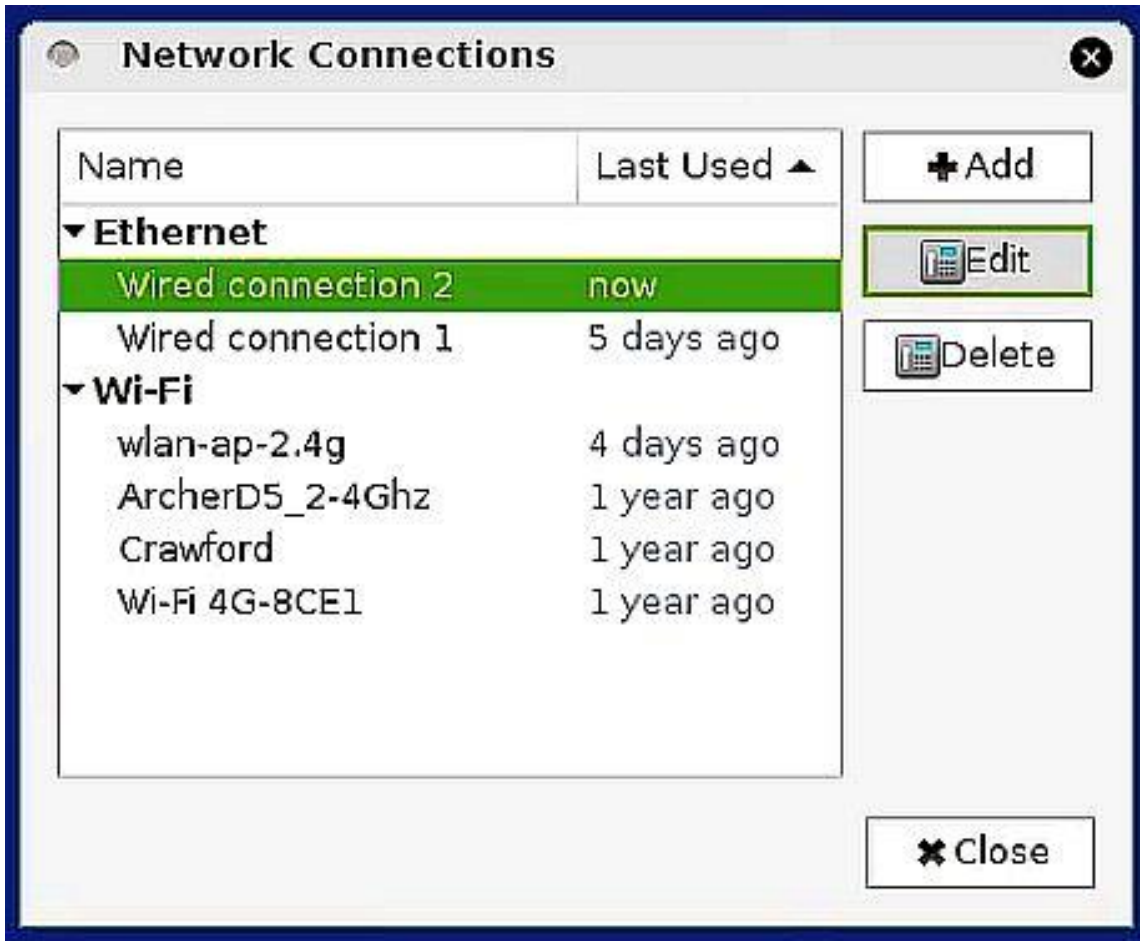
- The following list of network connections can now be edited



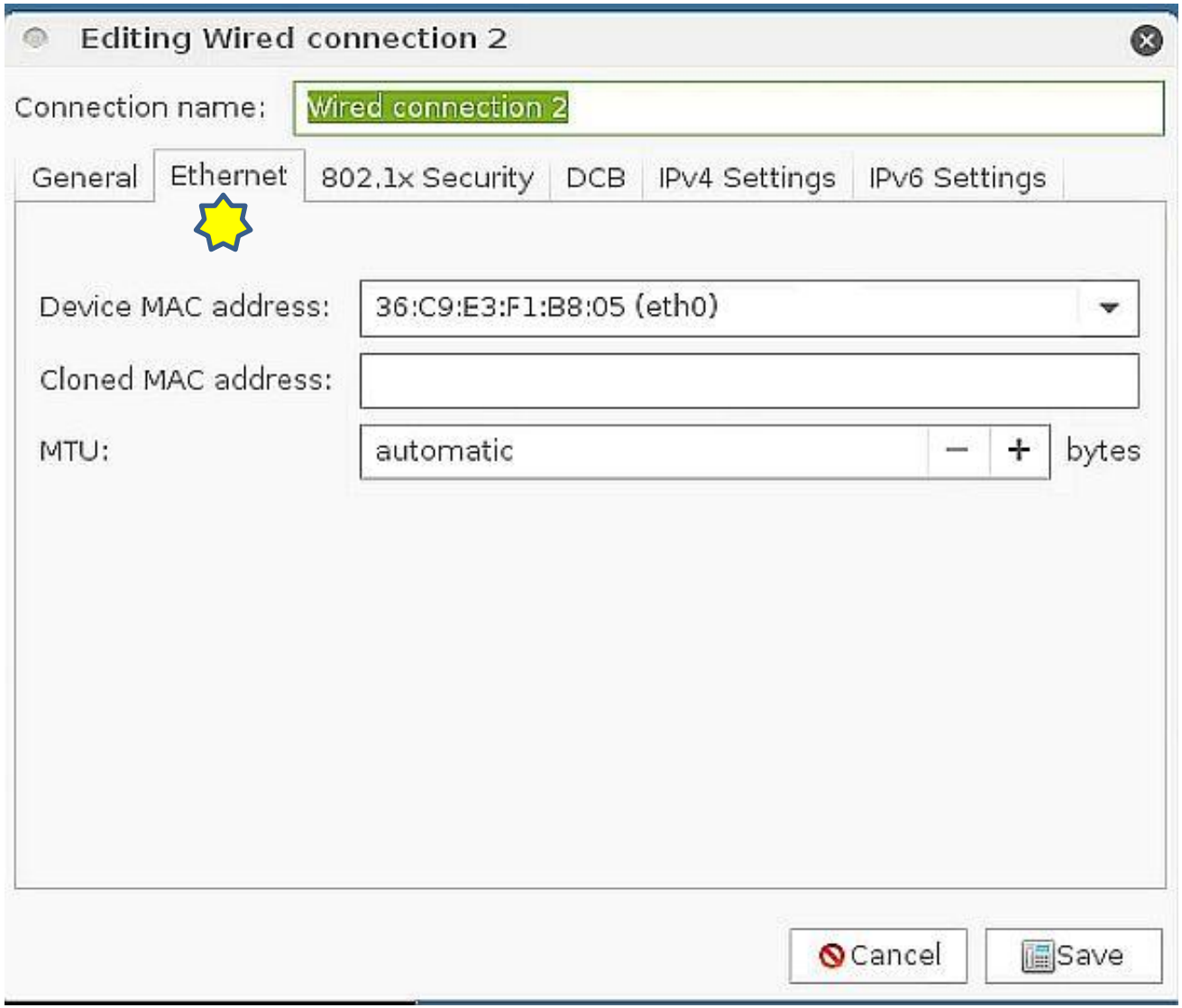
- Select the connection item and click “Edit”

Pine64 network settings for fixed IP 3

- Now item is selected.

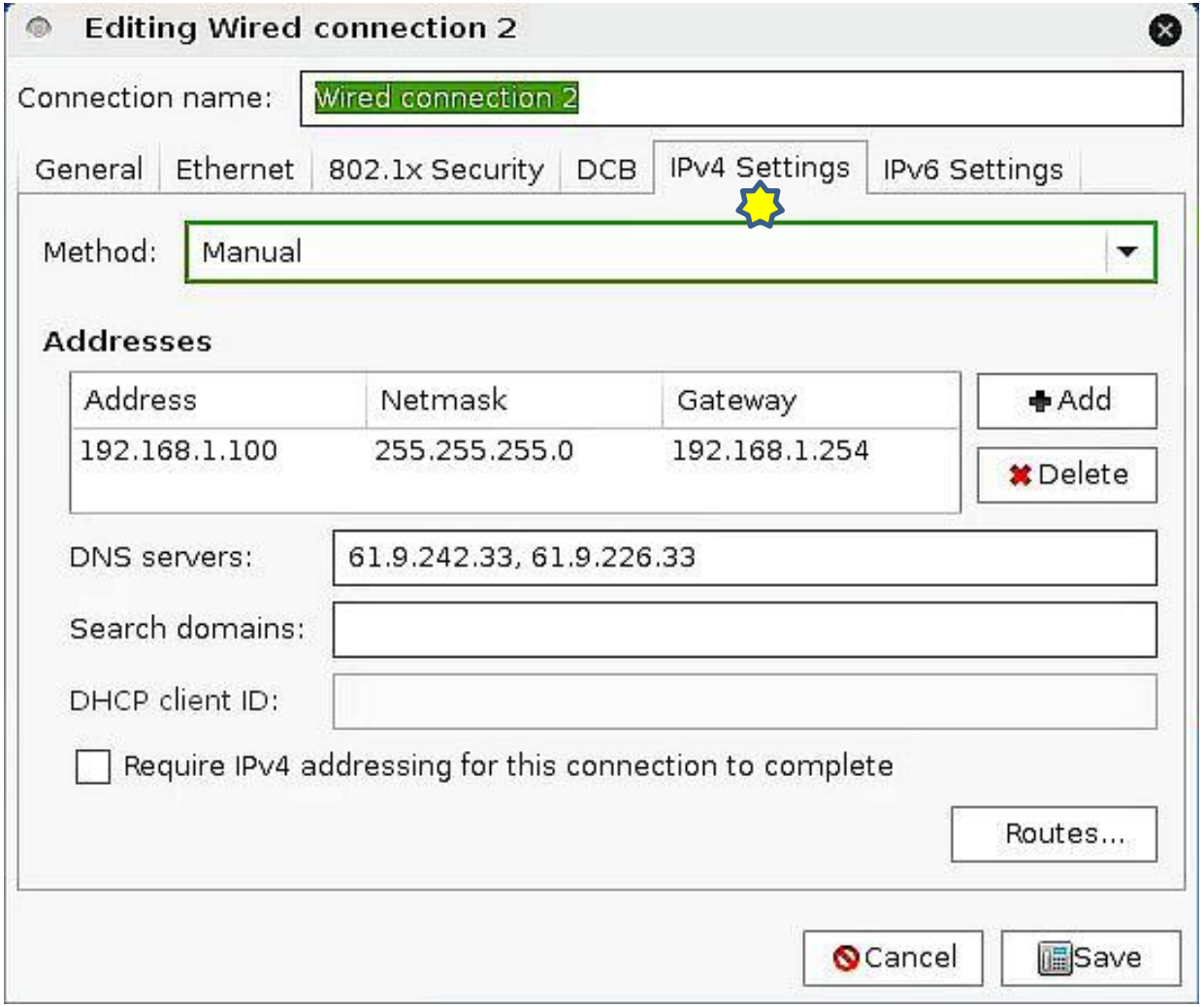


Pine64 network settings for fixed IP 4



Pine64 network settings for fixed IP 5

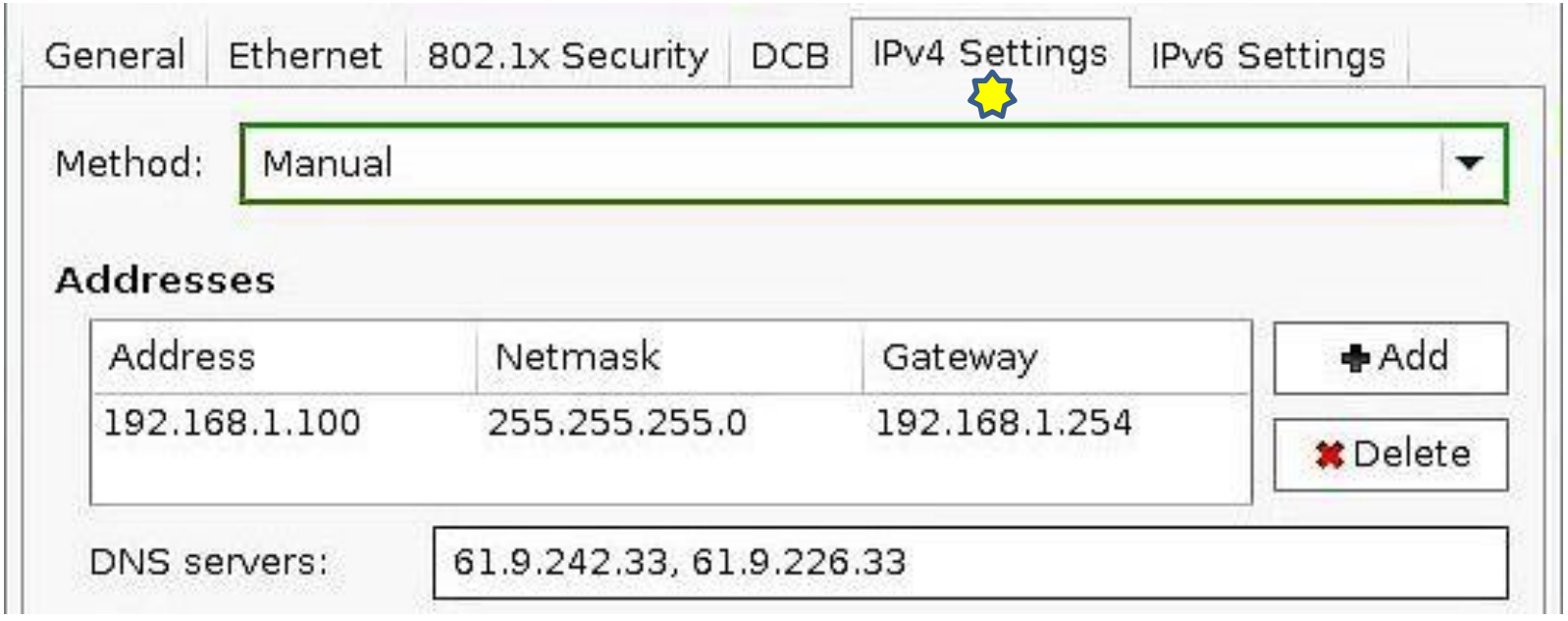
Click on IPv4 tab will display the form as below:-



Pine64 network settings for fixed IP 6

1 – change “Method” of connection from DHCP to Manual.
2 – Enter address IP (well clear of your modem/router range settings).
3 – Enter the usual Netmask setting 255.255.255.0.
4 – Enter your Gateway (modem/router internet gateway address).
5 – Enter your prefered DNS server IP addresses and Save these settings.

Note: 4 and 5 are only required if you intend to use the pine64 to connect to the internet through a modem/router or WiFi hotspot



Network Settings on Windows PC 1

These instructions are for Windows 10 but they are very similar to Windows 8 & 7, right back to XP.

1 – Select the Network Icon on task bar.

2 – Change adapter options.

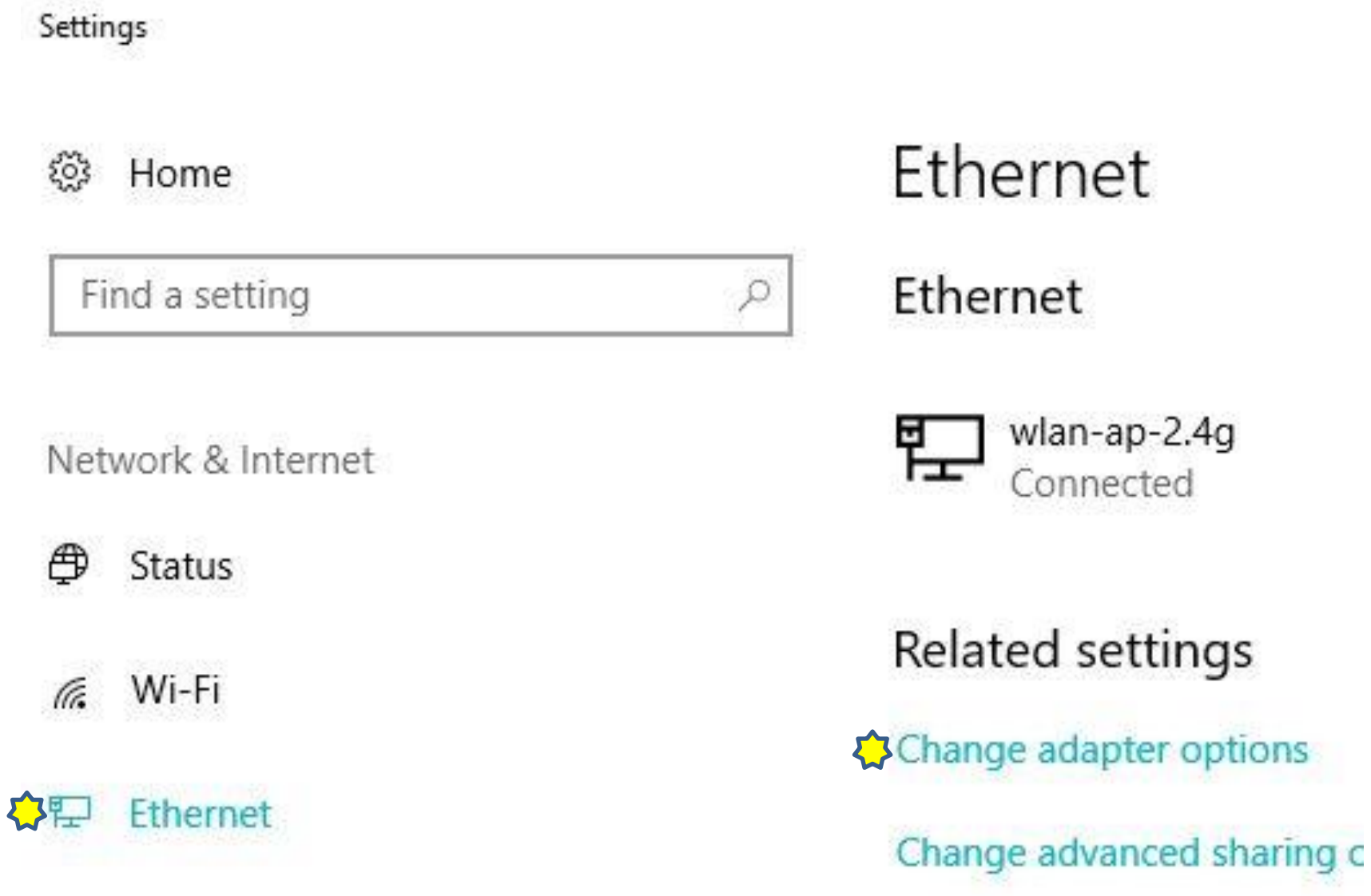
3 – Select the Ethernet controller.

4 – Select “Properties” then TCP/IPv4.

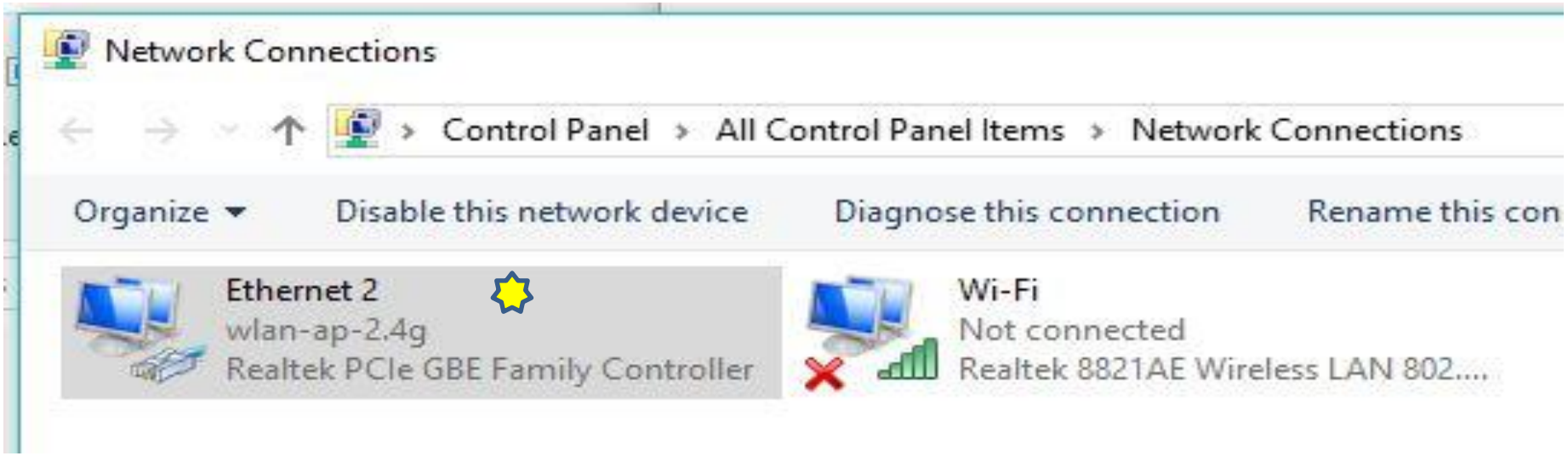
5 – Click on radio button “Use the following IP address”. Enter details.

6 – Click on radio button “Use the following DNS server..” Enter details.

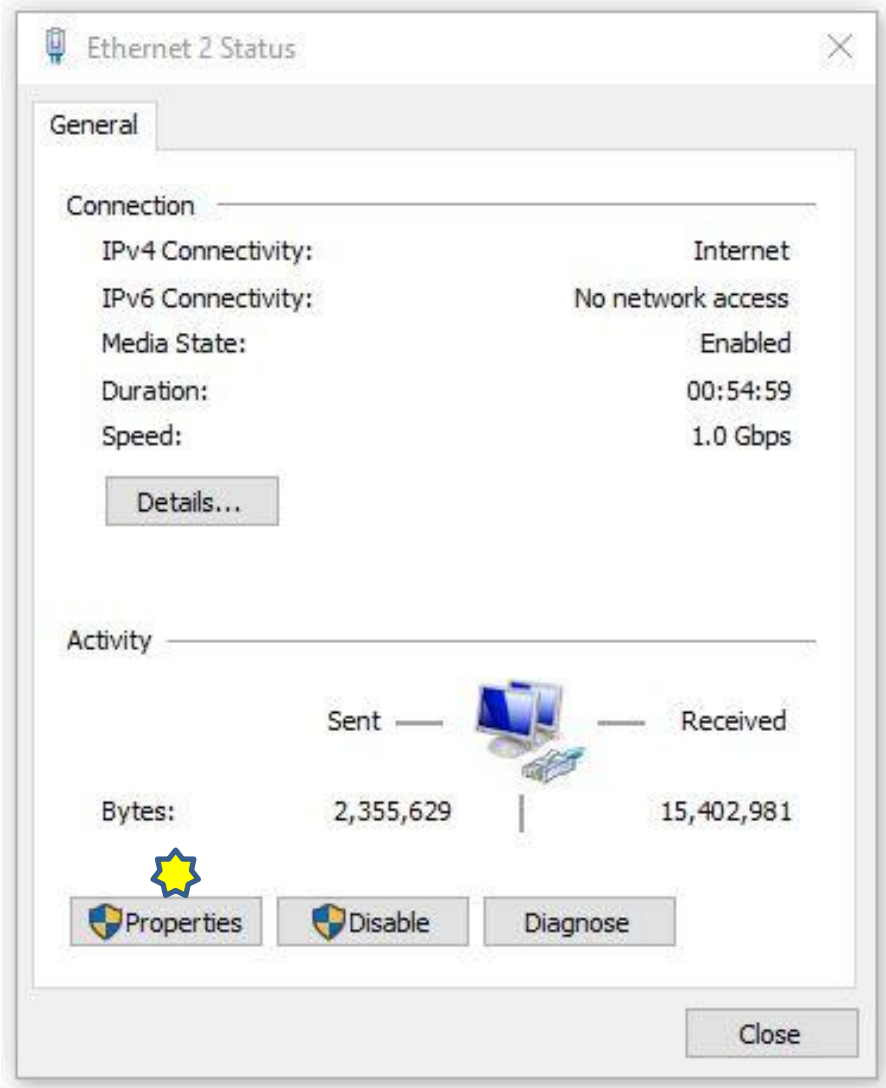
Network Settings on Windows PC 2

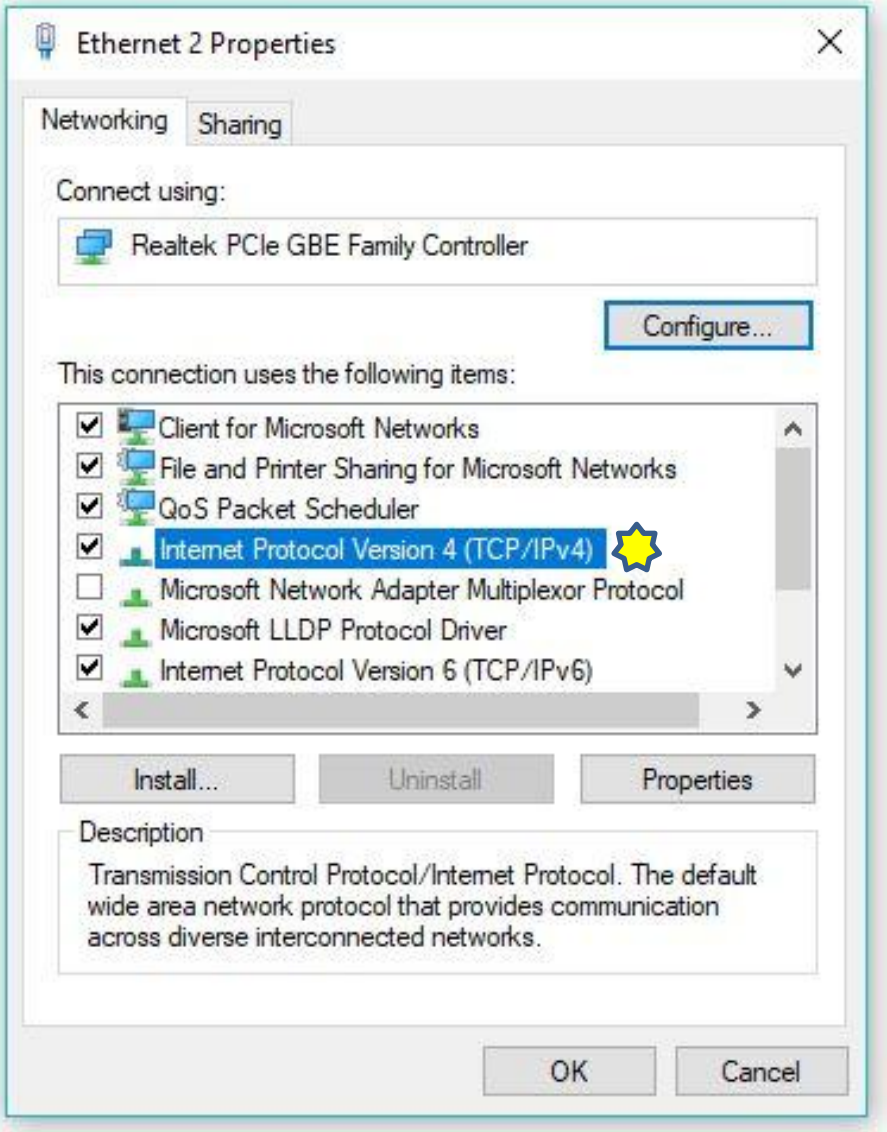


Network Settings on Windows PC 3

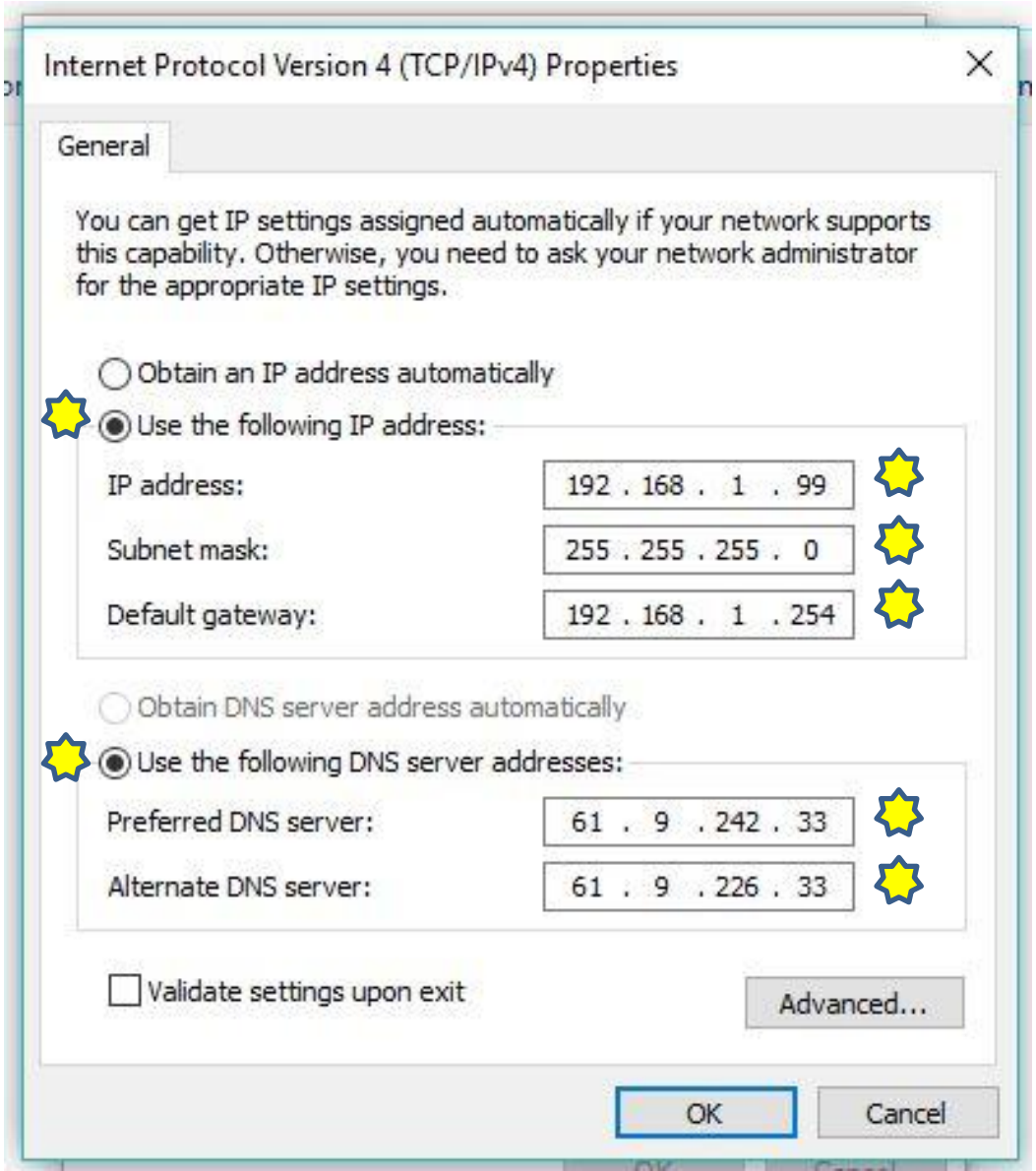


Network Settings on Windows PC 4





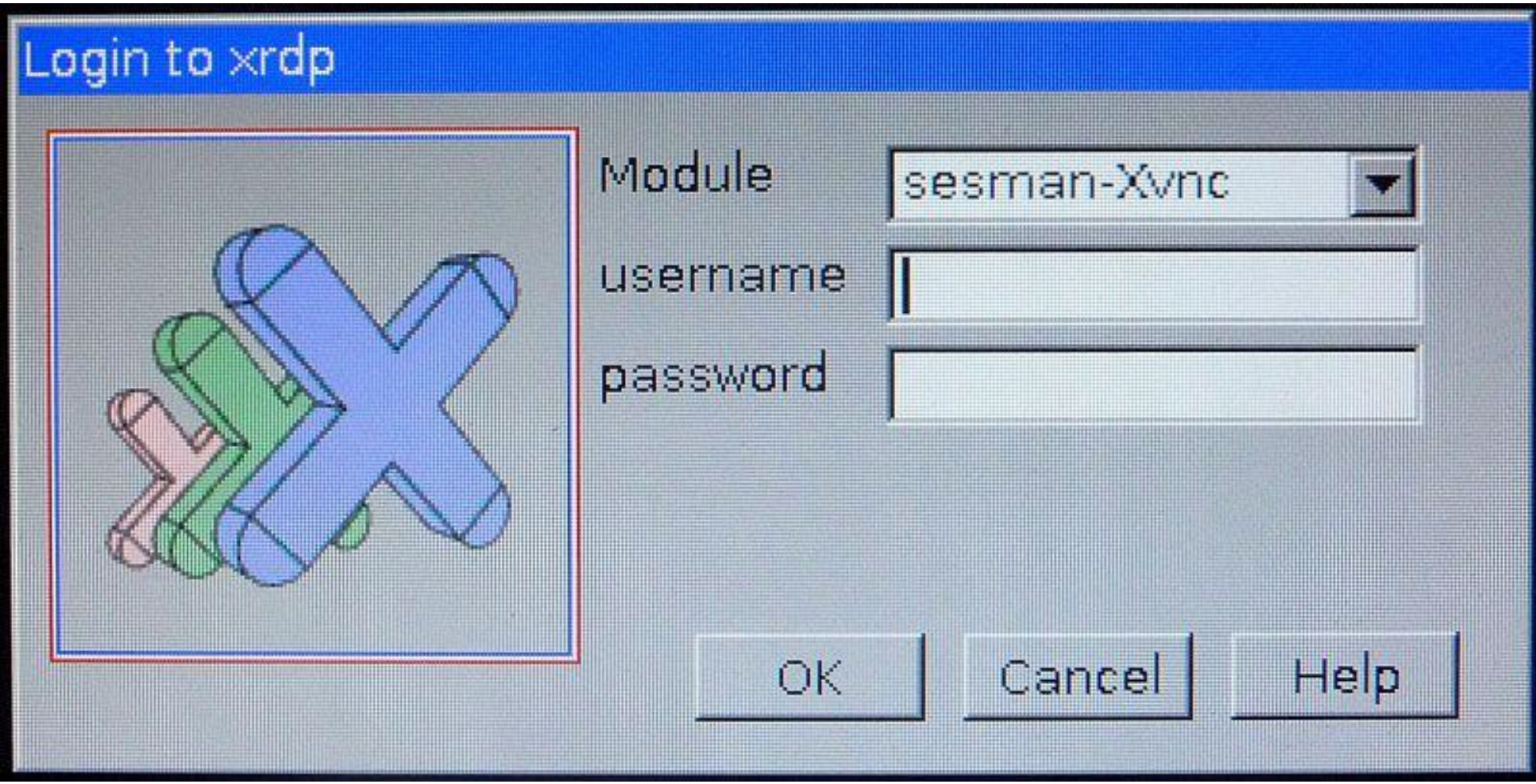
Network Settings on Windows PC 5



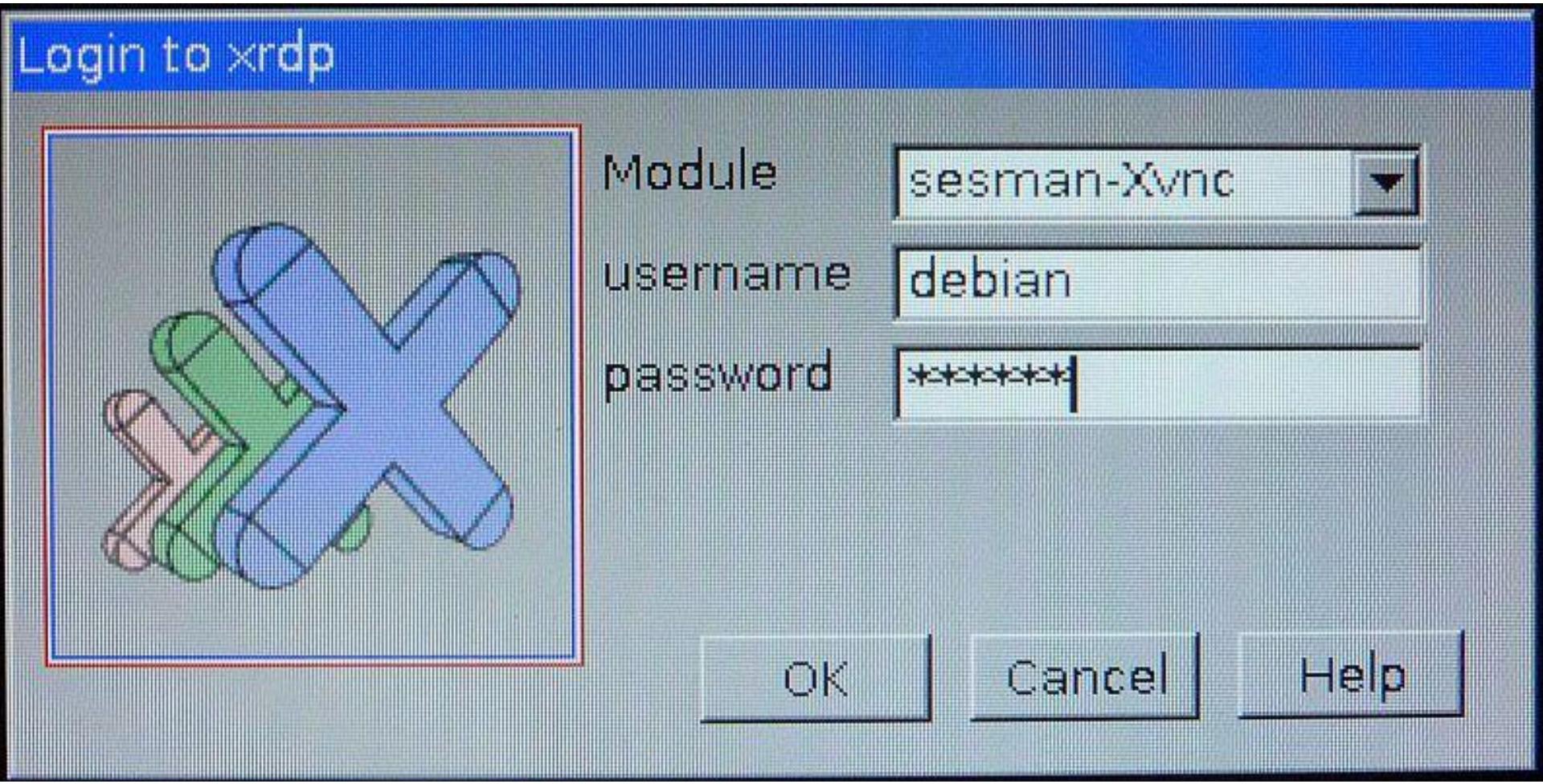
Remote Desktop Connection

1

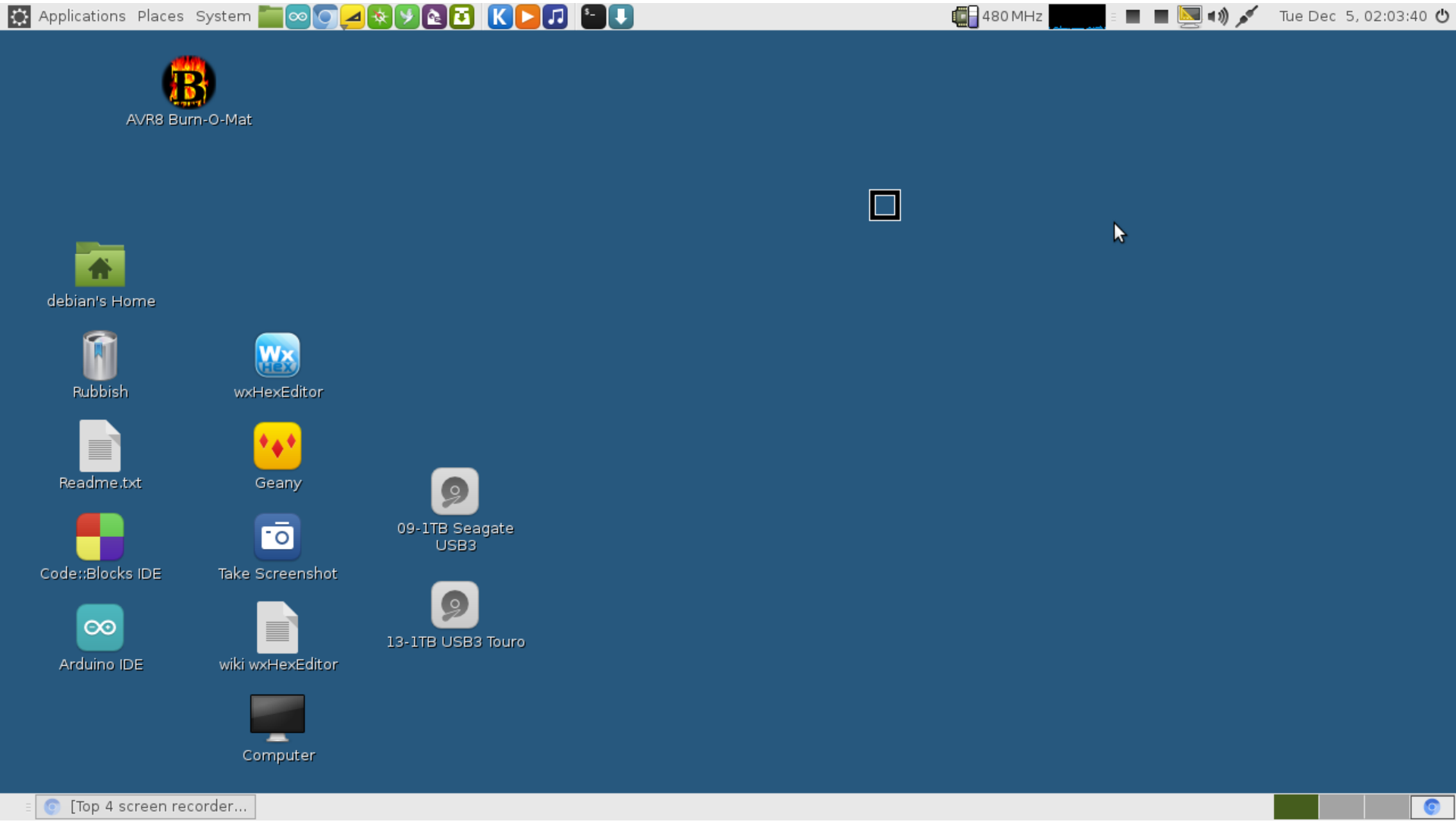
Remote Desktop Connection



Remote Desktop Connection



Remote Desktop Connection to Pine64 4



Modify MAC address in Debian

Click on “Mate Terminal” and connect as “SU”

To “**Temporarily”** modify the MAC address enter

The following commands:-

/etc/init.d/networking stop (cr)

ifconfig eth0 hw ether 02:01:02:03:04:08 (cr)

/etc/init.d/networking start (cr)

"ifconfig eth0“(cr) to confirm.

MAC address is shown as HWaddr hh:hh: …etc

Modify MAC address in Debian

Click on “Mate Terminal” and connect as “SU”

To **Permanently** modify the MAC address enter the following commands:-

/etc/init.d/networking stop (cr)

ifconfig eth0 hw ether 02:01:02:03:04:08 (cr)

/etc/init.d/networking start (cr)

"ifconfig eth0“(cr) to confirm.

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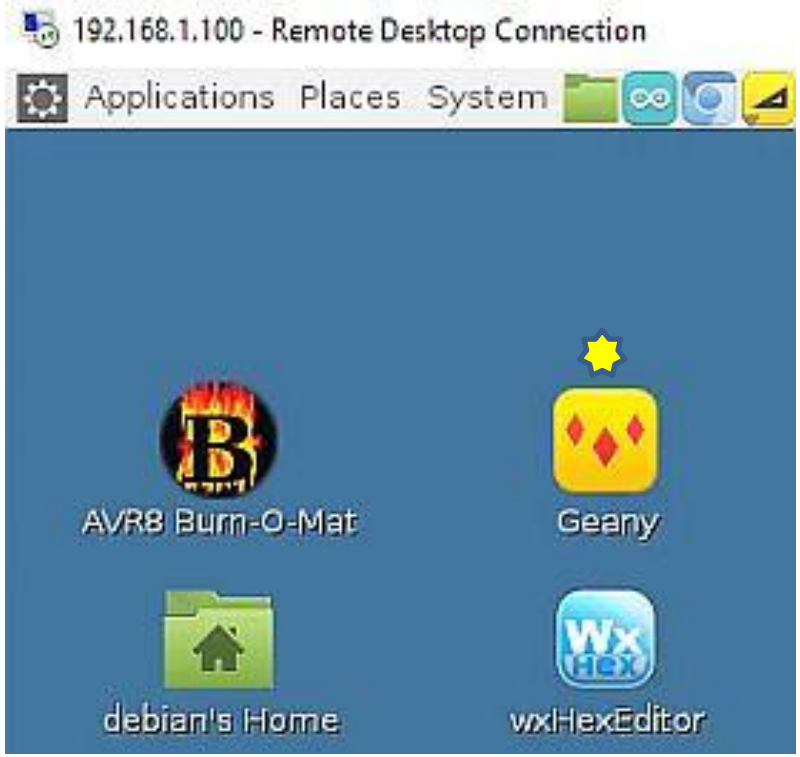
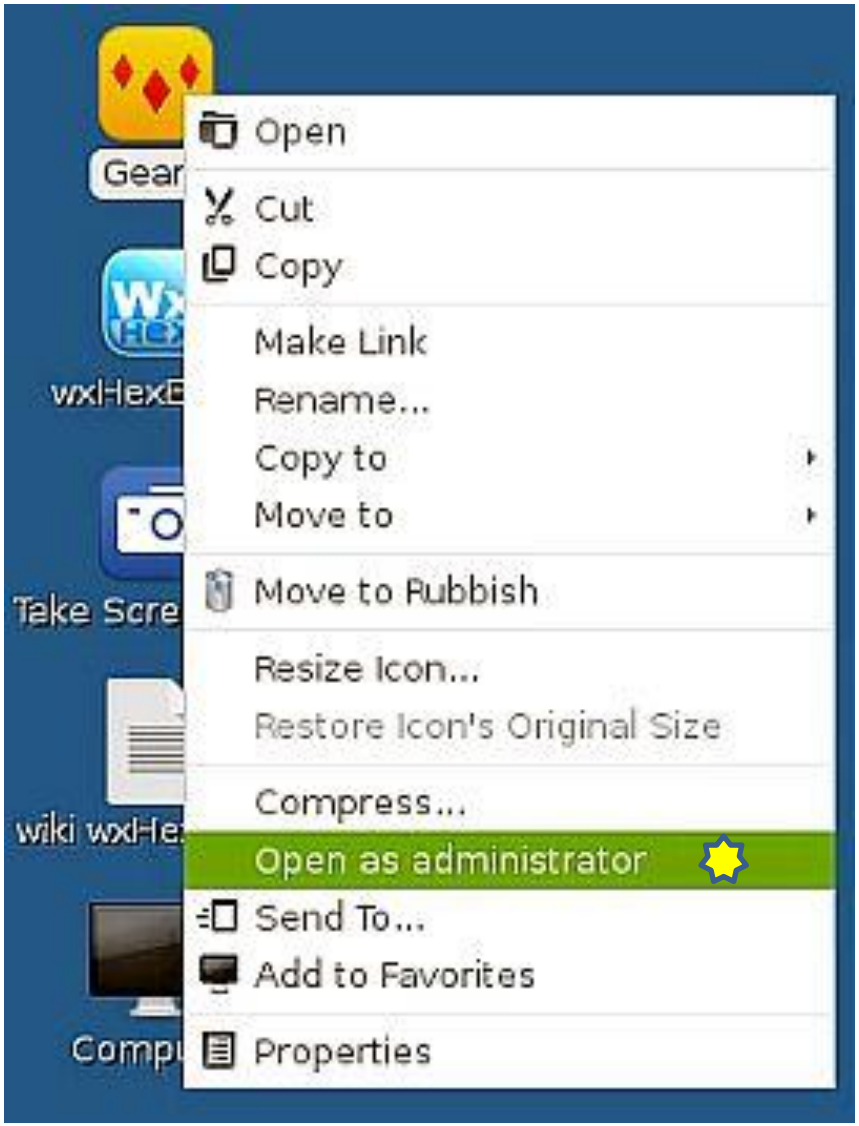
Modify MAC address using Geany

Geany is a lightweight GUI text editor using Scintilla and GTK+, including basic IDE features.



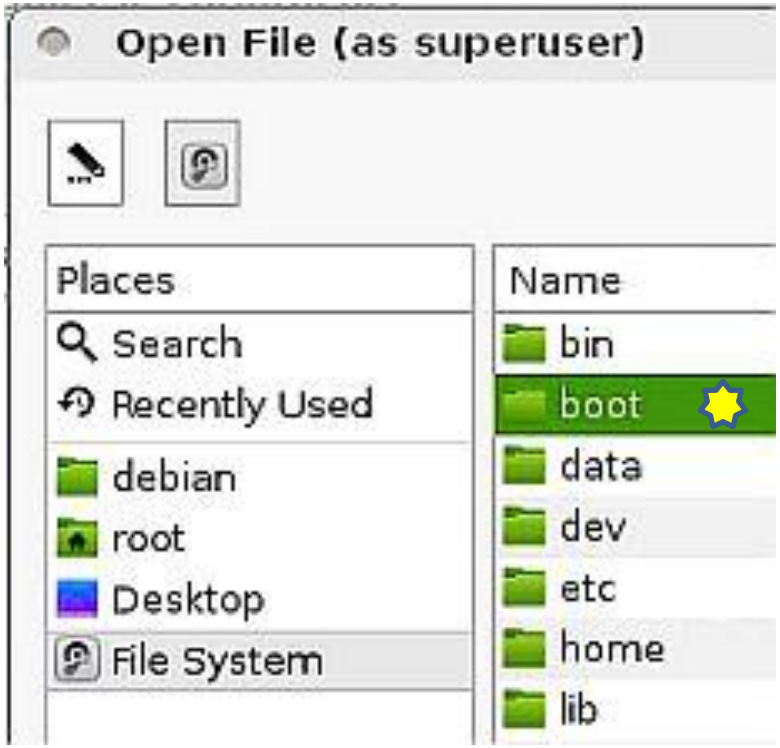


Modify MAC address using Geany

1 - Right click on Geany Icon and open as Administrator.

2 – Select Open, File System & Boot.

3 – In Boot select “uEnv.txt.



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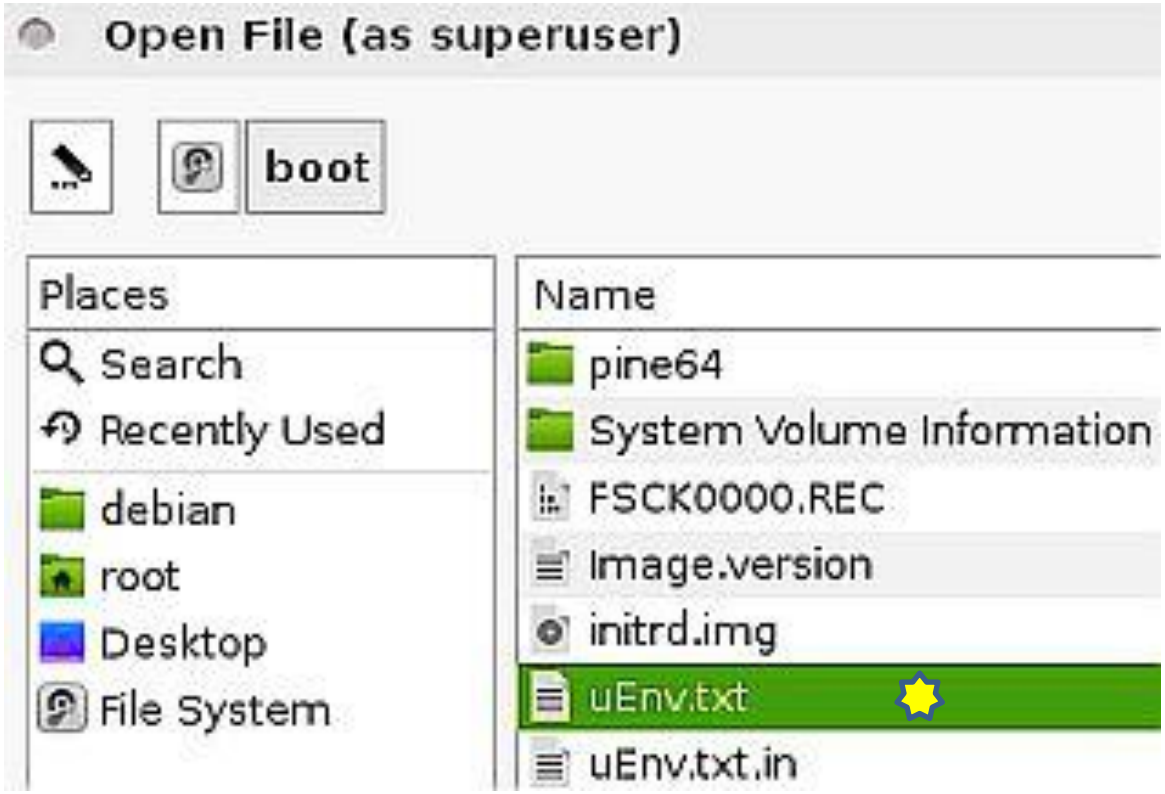

Modify MAC address using Geany

4 – Highlight the Hex pair you wish to edit.

5 – Change pair to new value.

6 – Save modified uEnv.txt file, quit Geany and reboot.

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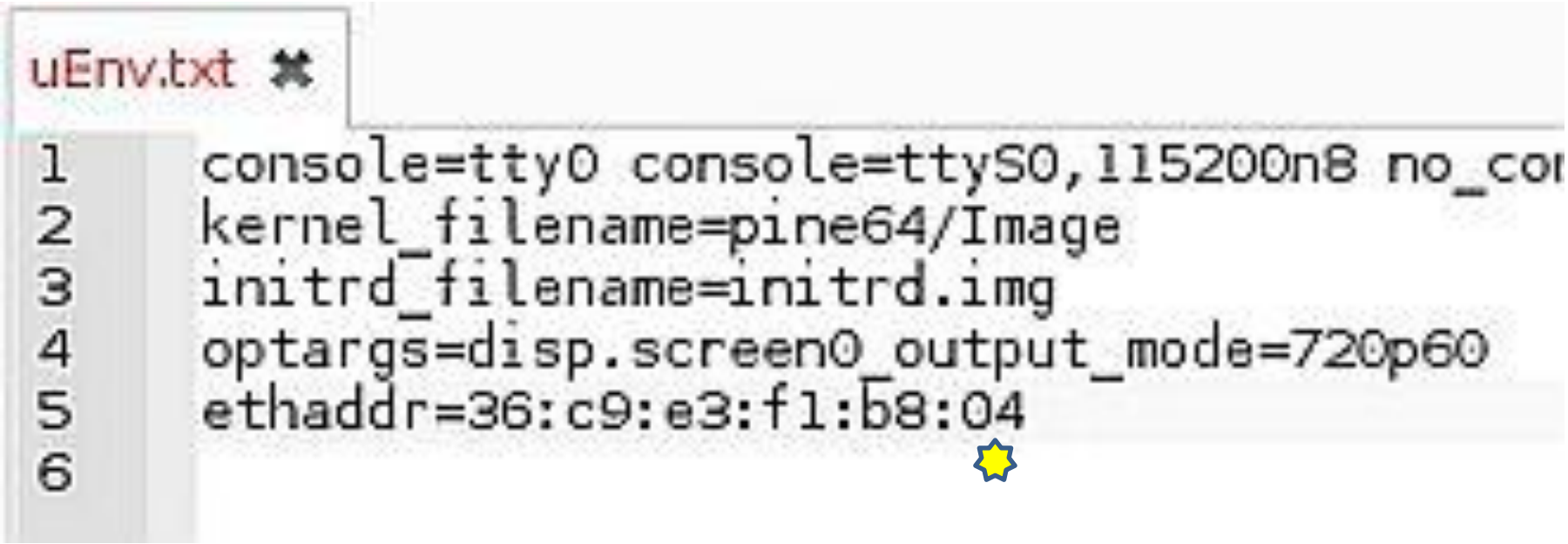

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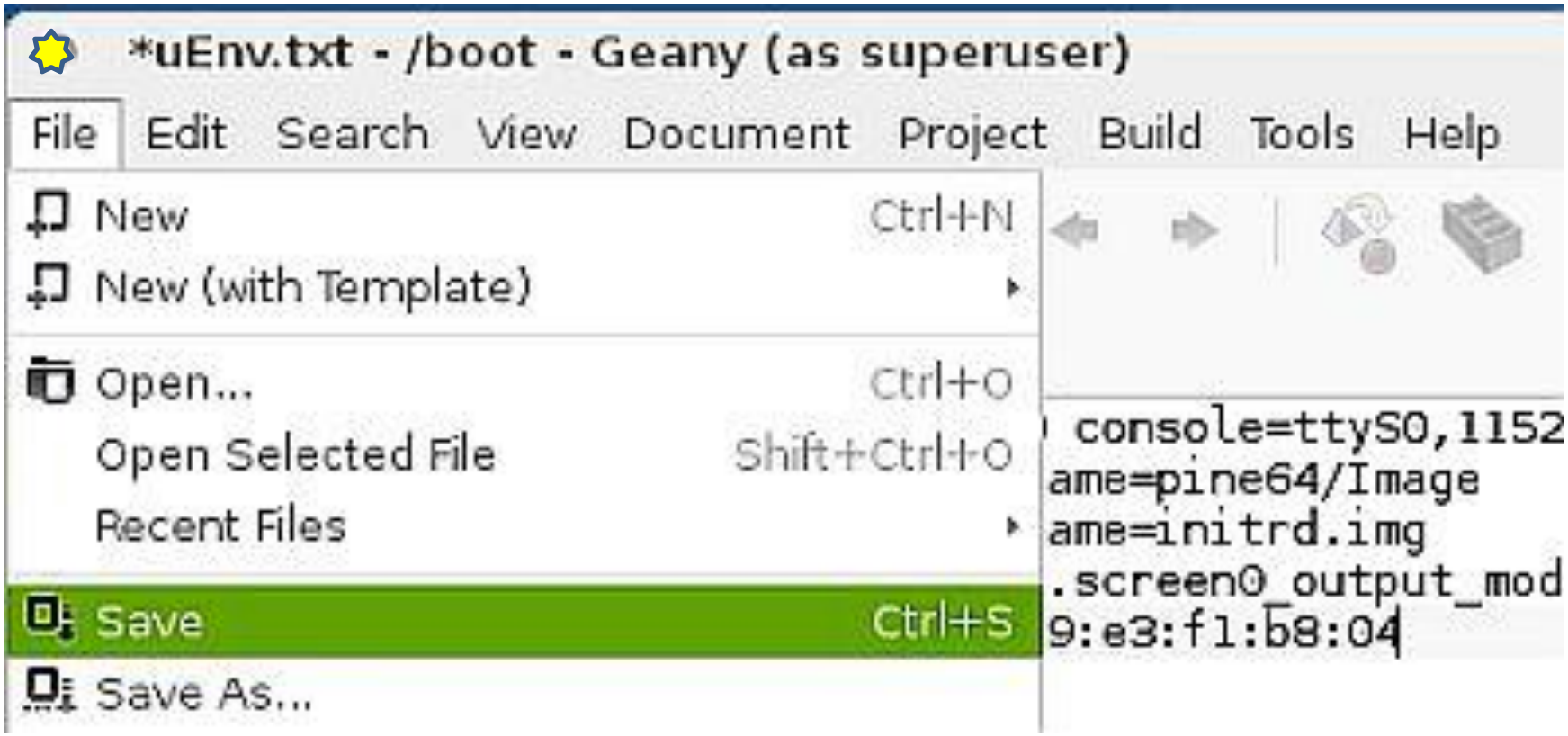

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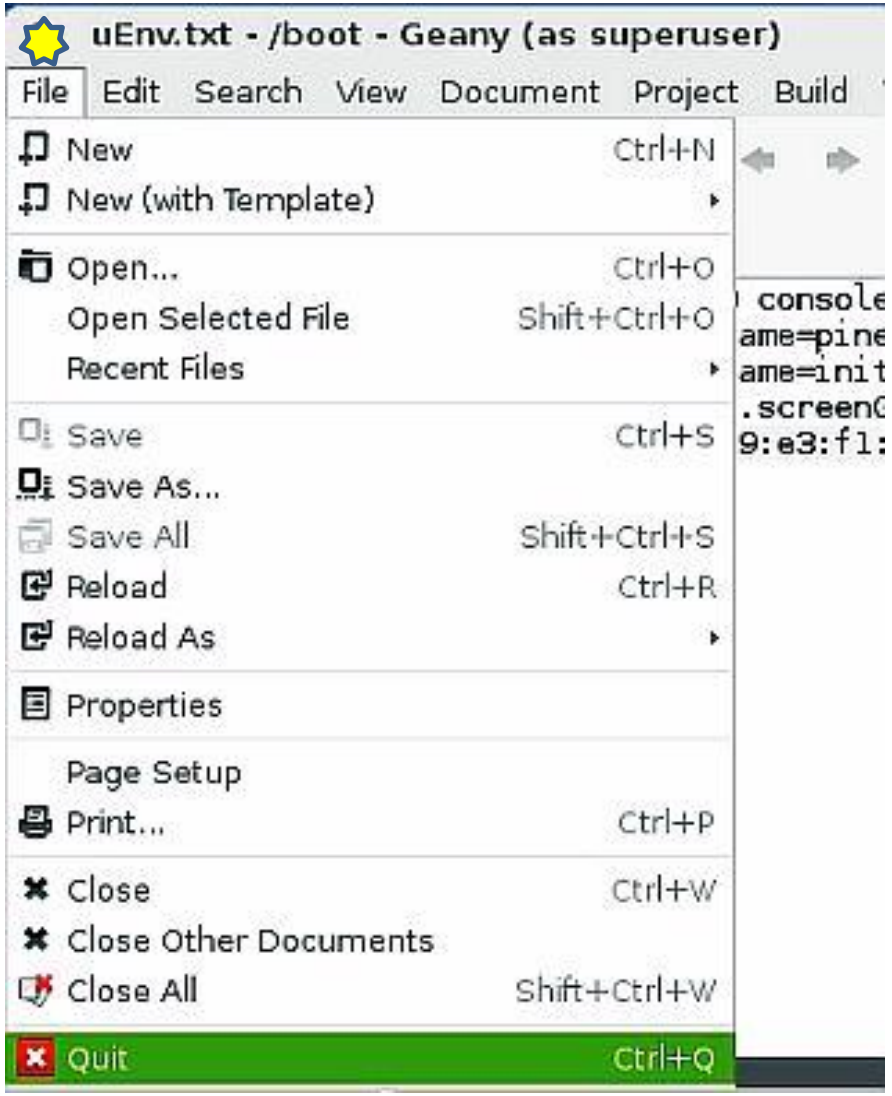
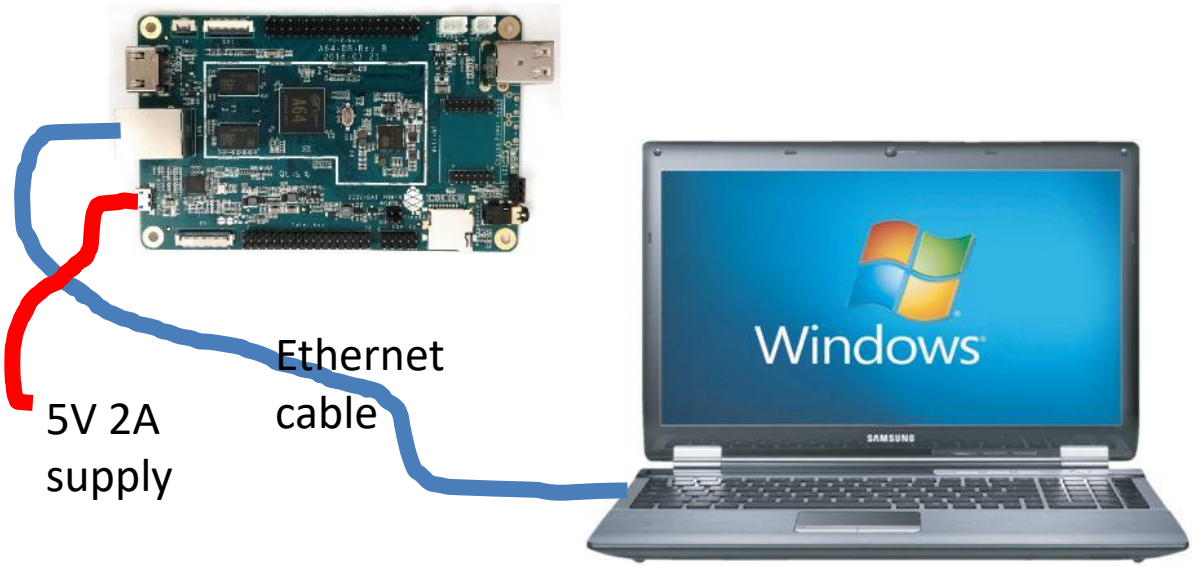


Pine64 controlled from Windows

Thank you for attending this tutorial



Presentation by Eric S. Clarke 8/12/2017