

Connecting to Jubilee

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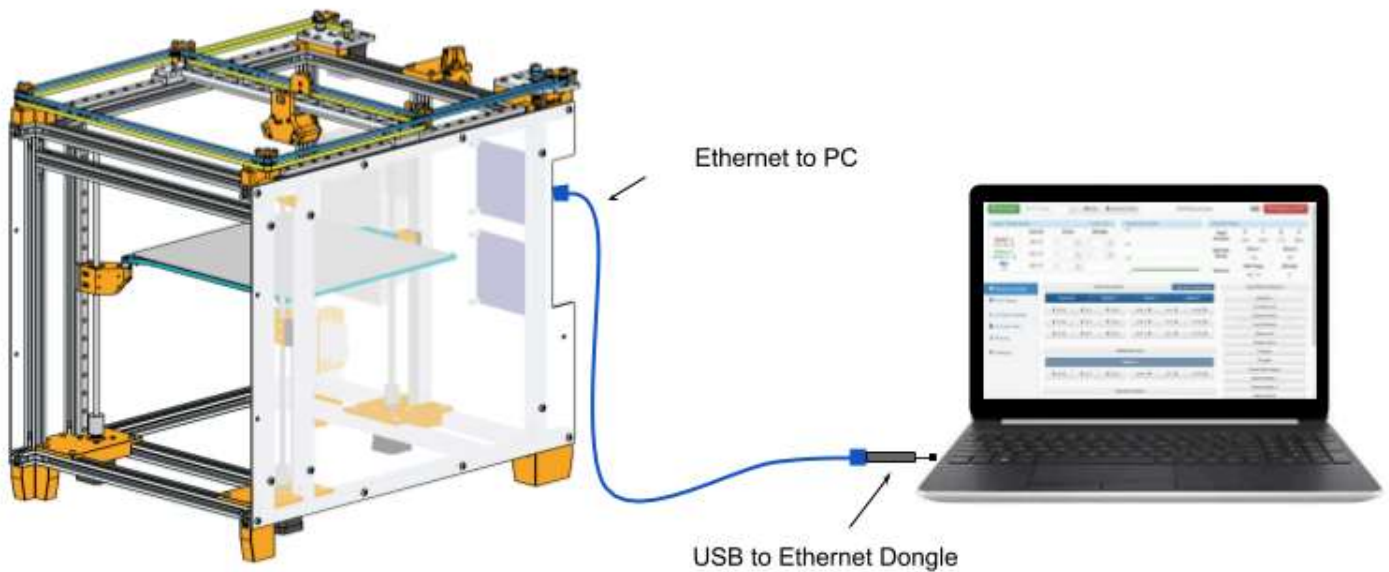
on Windows:

on Mac

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Intro

This page assumes you are connecting to Jubilee (Duet 2) via an Ethernet connection, and it will guide you to setting up a machine with a fixed ip address. The default connection looks like this:



Technically, this is a closed network connection between your PC and Jubilee. (Note that these instructions are an extension of the Duet documentation (https://duet3d.dozuki.com/Wiki/Setting_up_networking_on_Duet#Section_Wired_direct_connection) of this setup.)

Other Connection Options

There are many ways to connect to Jubilee. They include:

- **Standalone with a Panel Due**
- **Through your Home Network on a Wired Connection**
- **Through your Home Network on a Wireless Connection** (*Duet2 Wifi or Duet 3 + Raspberry Pi in SBC Mode only*)
- **Standalone with a Monitor, Keyboard, and Mouse** (*Duet 3 + Raspberry Pi in SBC Mode only*)

These methods are out of scope of these instructions. If you are specifically looking for a different setup, feel free to pursue something custom. More information on these connection options can be found in the [Duet Wiki \(https://duet3d.dozuki.com/\)](https://duet3d.dozuki.com/).

Hardware Requirements

- USB-to-Ethernet Dongle (<https://www.amazon.com/dp/B00M77HMU0>).
- Ethernet Cable

Prerequisites

In Jubilee's *config.g* file, you must first set a fixed IP address.

```
M552 P192.168.1.2 S1           ; Use Ethernet with a static IP
M554 192.168.1.3              ; Gateway
M553 P255.255.255.0          ; Netmask
```

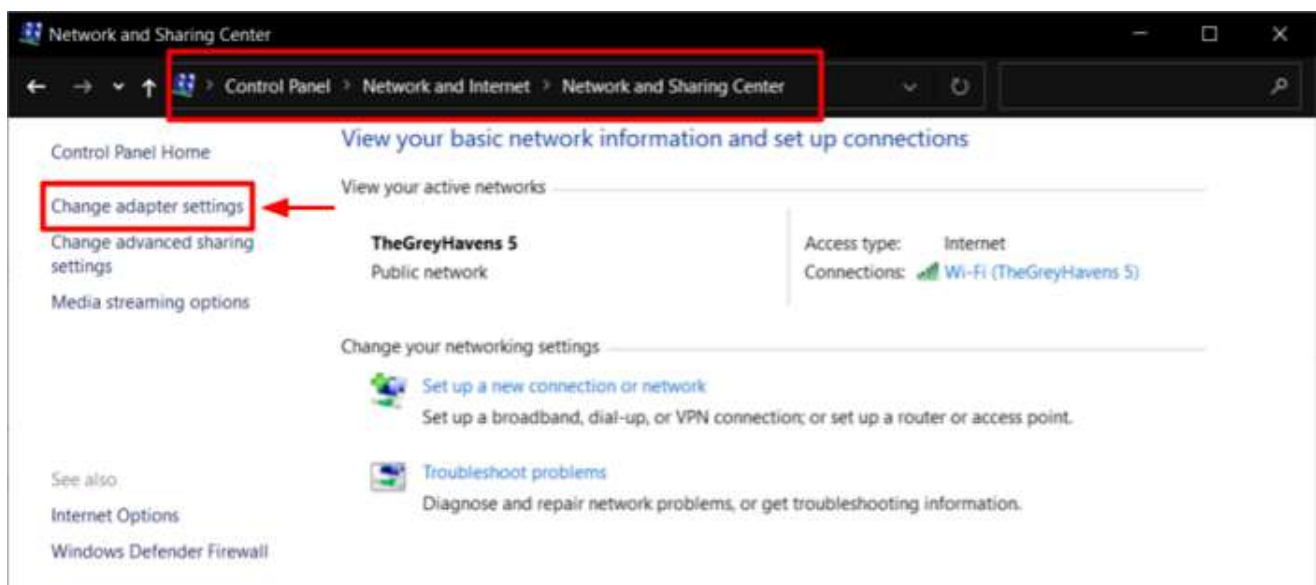
This is already done in the [default duet2 config \(https://github.com/machineagency/jubilee/blob/main/software/duet_config_files/duet2/sys/config.g\)](https://github.com/machineagency/jubilee/blob/main/software/duet_config_files/duet2/sys/config.g) file.

From here, you must now set the IP address of the network connection on the PC side. Follow the next set of instructions specific to your operating system (Windows, Mac, Linux).

on Windows:

If you have a usb-to-ethernet dongle, plug it in now.

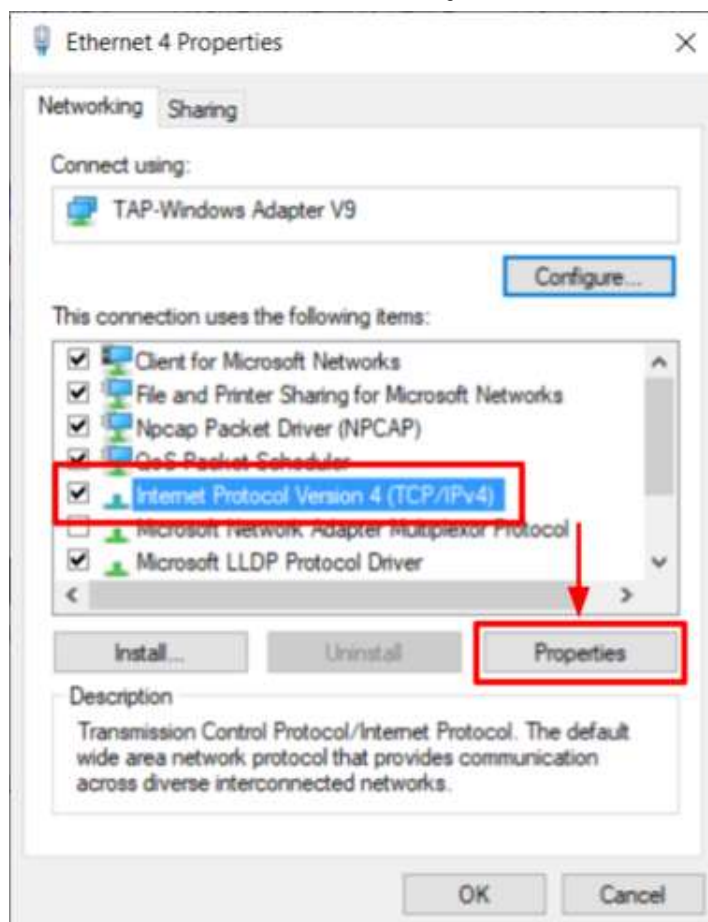
Open the Control Panel. Select *Network and Internet >> Network and Sharing Center* and click on *Change adapter Settings*.



Right-Click on the network adapter for this dongle and select *Properties*.

Select Internet Protocol Version 4 (TCP/IPv4).

Click the Properties button.



Select Use the following IP address.

Set the IP Address to **192.168.1.3**. (You can also change it to whatever you like, provided that this setting matches the *Gateway* setting of the config file.) Set the netmask to **255.255.255.0**. Leave the gateway blank.

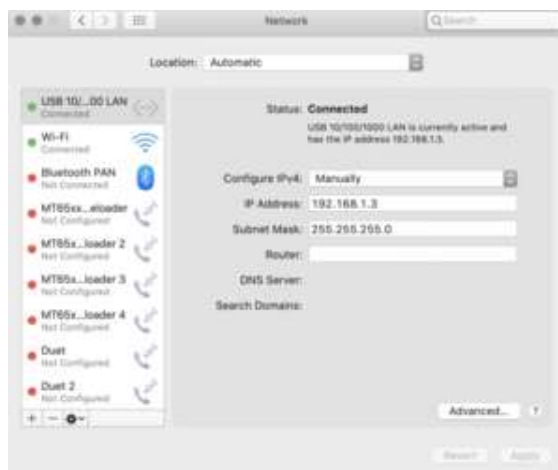
Exit this window and the control panel.

You're setup! Power up the machine, open a browser, and navigate to the machine's ip address: 192.168.1.2 (this page (<http://192.168.1.2>) if you used the same ip address).

on Mac

If you have a usb-to-ethernet dongle, plug it in now.

Open the System Preferences. Select *Network* and click on *USB/10/1000/LAN*.



Use the following settings:

Configure IPv4: Manually

IP address: **192.168.1.3**

Subnet Mask: **255.255.255.0**

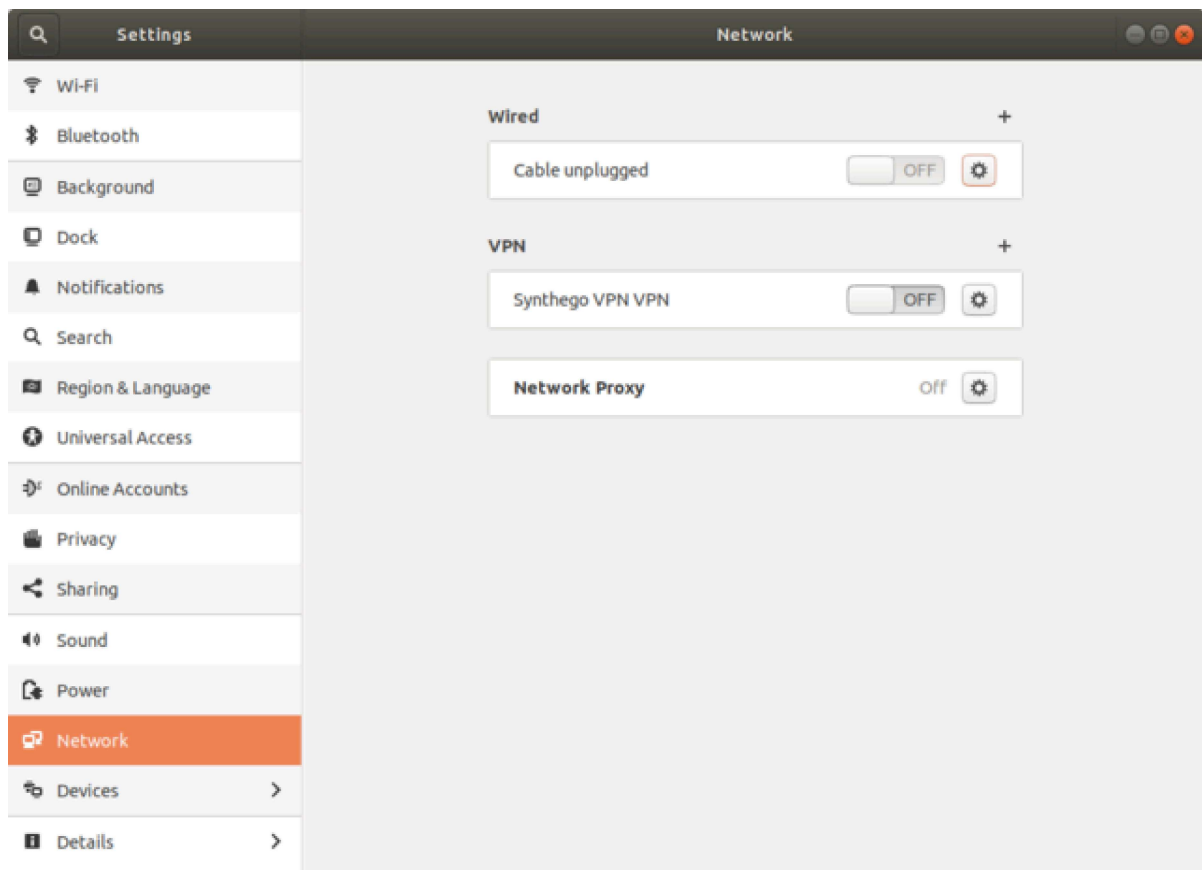
Router: leave blank

Exit this window and the system preferences.

You're setup! Power up the machine, open a browser, and navigate to the machine's ip address 192.168.1.2 (this page (<http://192.168.1.2>) if you used the same ip address).

on Ubuntu:

If you have a usb-to-ethernet dongle, plug it in now. Open your network settings and click on the gear near the wired connection that corresponds to the dongle.



Give the connection a name. We called it *static_duet_connection*.

Cancel Wired Apply

Details Identity IPv4 IPv6 Security

Name static_duet_connection

MAC Address 00:50:B6:21:A3:D4 (enx0050b621a3d4)

Cloned Address

MTU automatic - +

Next, set a static ip address with the following settings: Note that this IP address can be whatever you like, but it will need to match the gateway of the machine's config.g settings.

Cancel Wired Apply

Details Identity IPv4 IPv6 Security

IPv4 Method

☐ Automatic (DHCP) ☐ Link-Local Only

☒ Manual ☐ Disable

Addresses

Address	Netmask	Gateway
192.168.1.3	255.255.255.0	

DNS Automatic OFF

Separate IP addresses with commas

Routes Automatic OFF

Address	Netmask	Gateway	Metric

You're setup! Power up the machine, open a browser, and navigate to the machine's ip address ([this page \(http://192.168.1.2\)](http://192.168.1.2) if you used the same ip address).

Note that these IP address settings will now be tied to this particular dongle until you change or remove them.

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