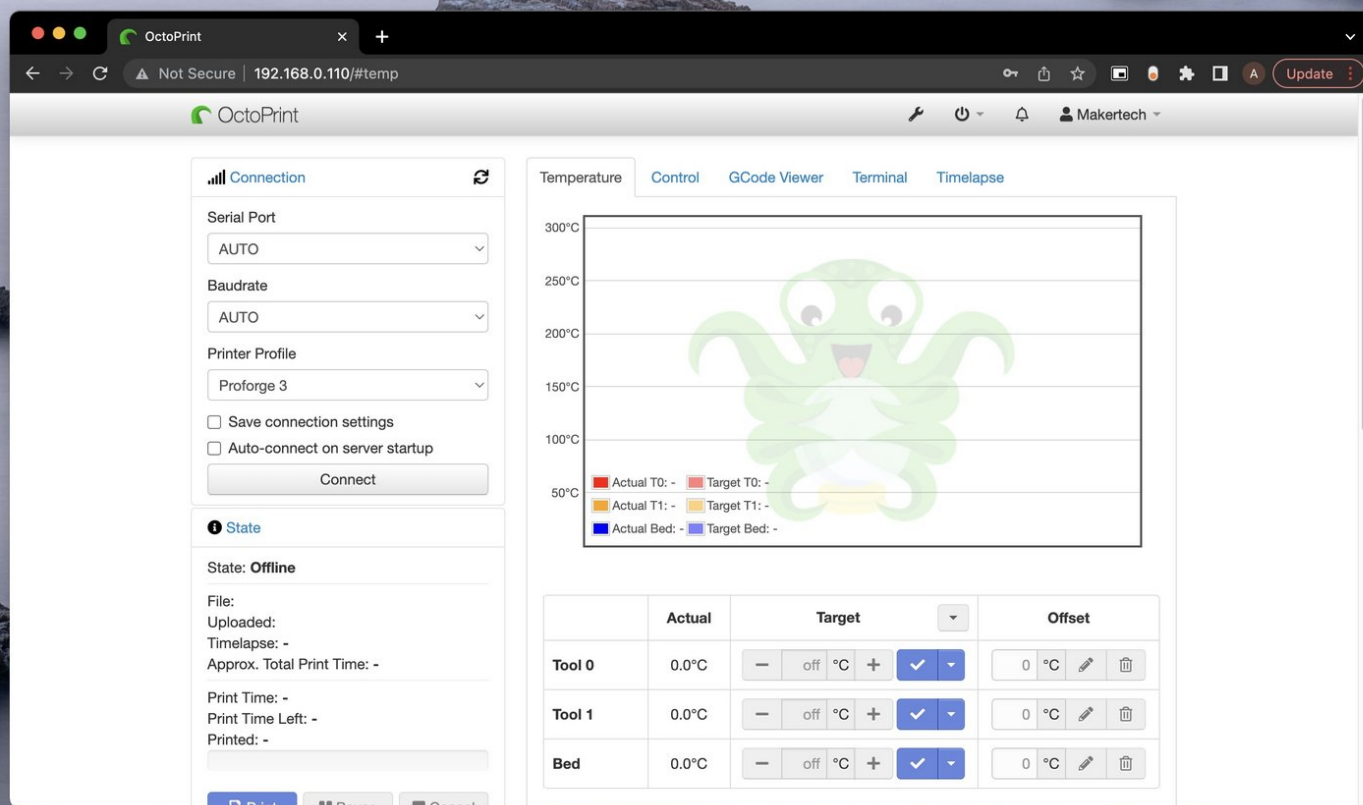


# Makertech



## Stage 02: Software Setup


Written By: Makertech



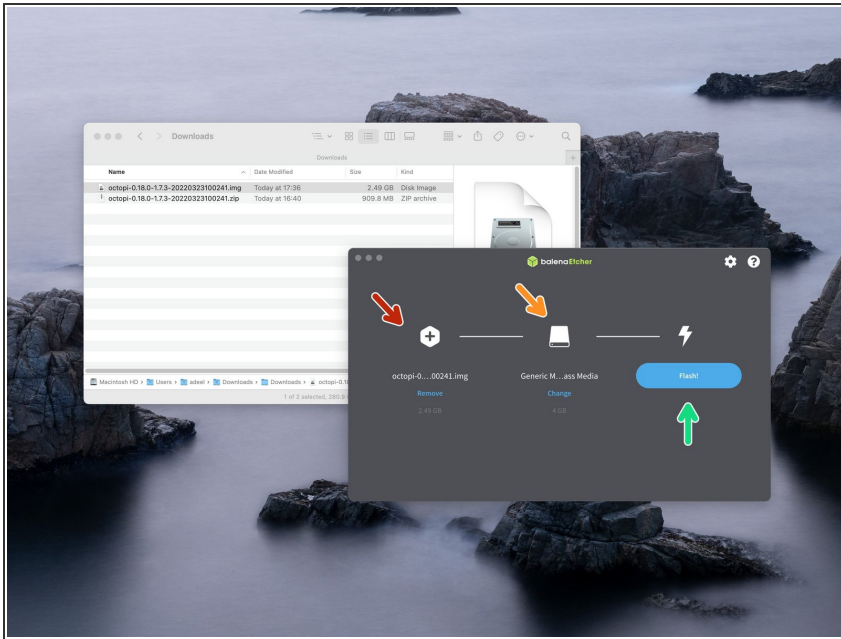
## Step 1 — Downloads



-  You will need to download the following:
- [OctoPi Image](#)
  - [Etcher](#)
  - [Notepad ++](#) ([Sublime Text](#) is a good alternative for Mac)
-  On windows you will also need [7zip](#) to unpack the OctoPi file.

 Newer versions of of these files/software's may have been released since the publishing of this guide but the steps outlined here should still remain valid.


## Step 2 — Flashing the Micro SD card



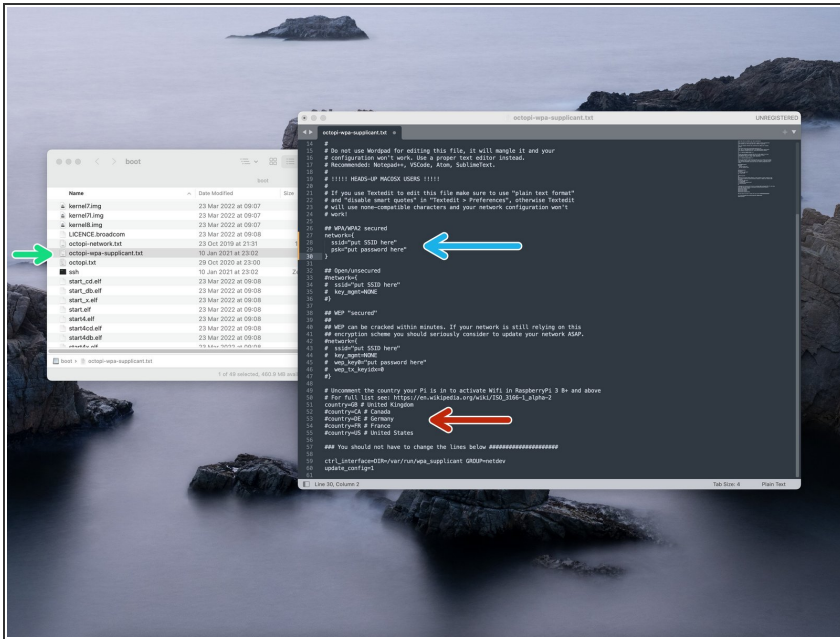
- Extract the OctoPi image using 7zip to convenient location on your computer.

### Run Etcher

- Point it to the .img file that you extracted.
- Insert the Micro SD card into your computer.
- Hit Flash! (Will take a while!)

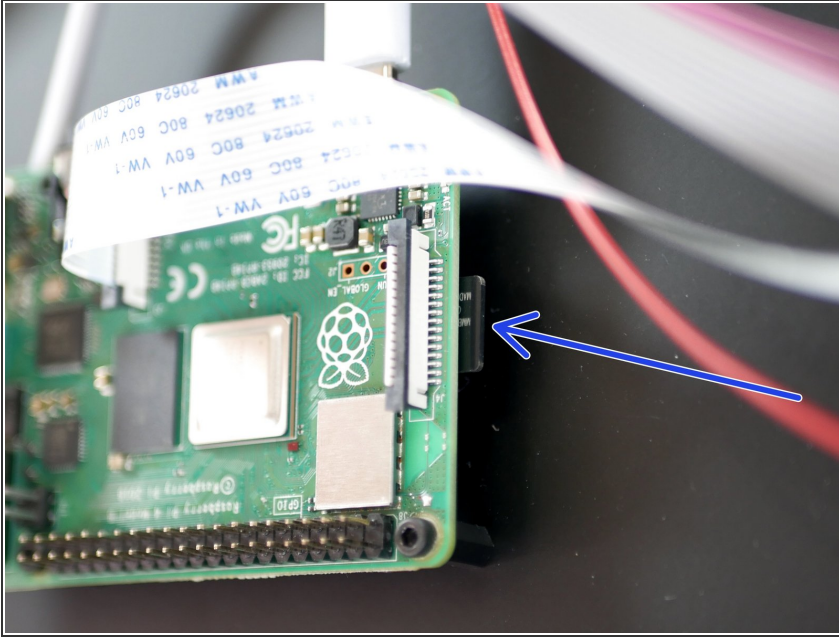
 On windows you may be asked to format the SD card after it's been flashed. **Do not** format the drive.

## Step 3 — Wi-Fi Settings



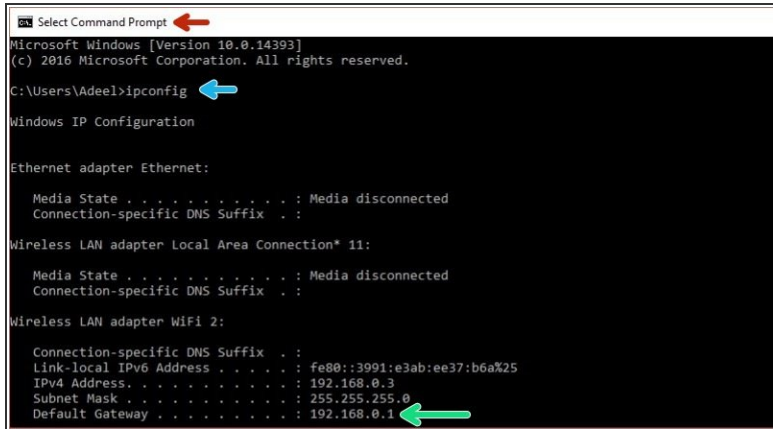
- Navigate to the flashed SD card (you may have to remove and reinsert it) and open the file named *octopi-wpa-supPLICANT.txt* with **Notepad++** or **Sublime Text**.
- In the text editor read the instructions for the different WiFi configurations and choose the most appropriate for your network. For most this will be WPA/WPA2 security.
- ☑ Remove the single # from the beginning of each line of your chosen configuration.
- Type in your routers SSID as it's broadcast and its password. Save and close the file.
- ⚠ **Do not** remove the inverted commas (" ").
- Also remove the # from the beginning of your location. Use this [link](#) to find your country if not already on the list.

## Step 4 — Powering up



- Insert the Micro SD card into the Raspberry Pi and power up your printer.

## Step 5 — Router IP



```
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Users\Adeel>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

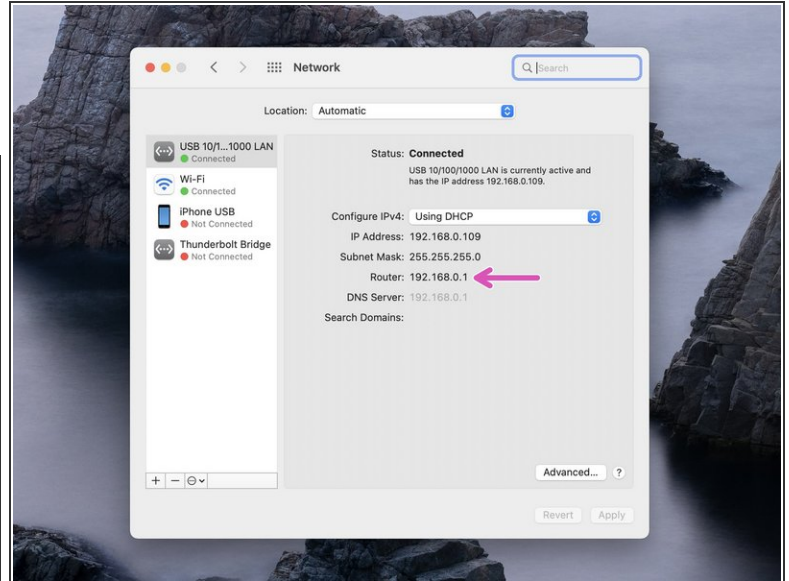
    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 11:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Wifi 2:

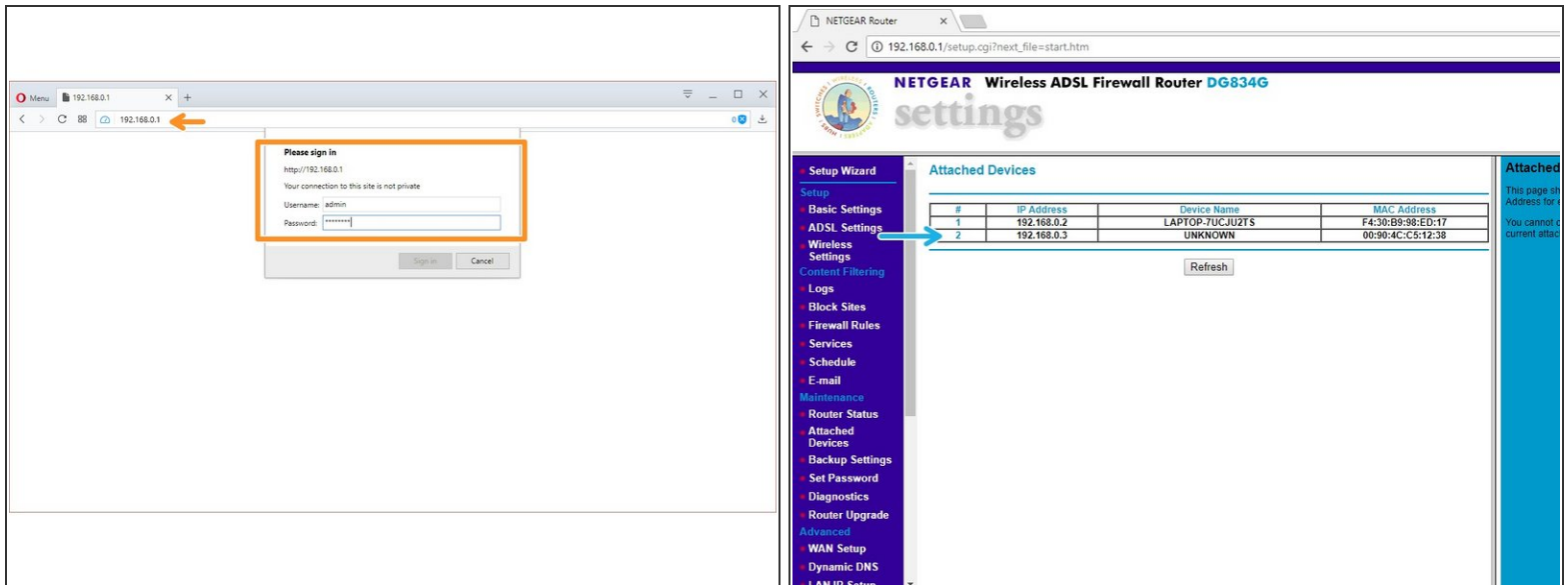
    Connection-specific DNS Suffix  . :
    Link-local IPv6 Address . . . . . : fe80::3991:e3ab:ee37:b6a%25
    IPv4 Address. . . . . : 192.168.0.3
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.0.1
```



- On your PC open *command prompt*.
- Type *ipconfig* and hit return/enter.
- Type the Default Gateway IP address into your browser.
- On Mac, you can find the Default Gateway IP in system preferences -> Network -> Router.

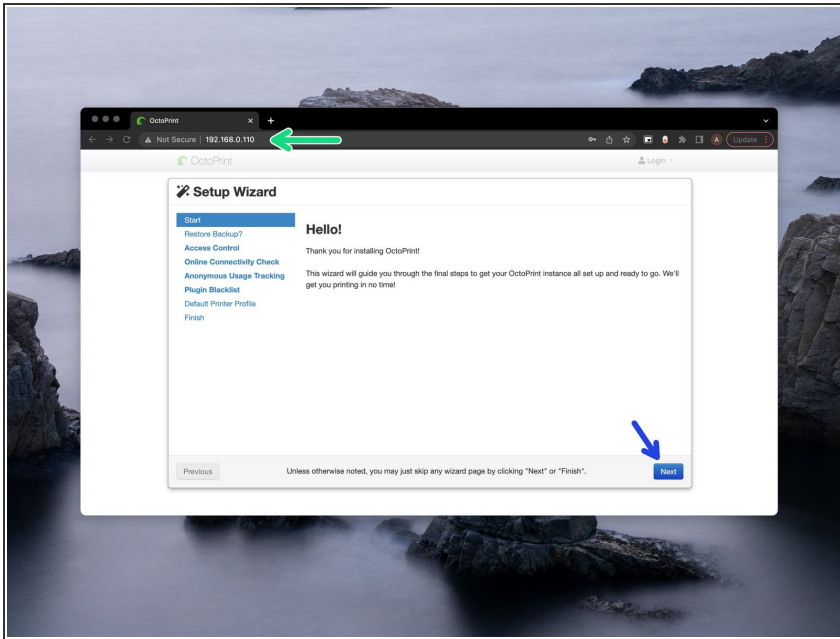


## Step 6 — OctoPi IP Address



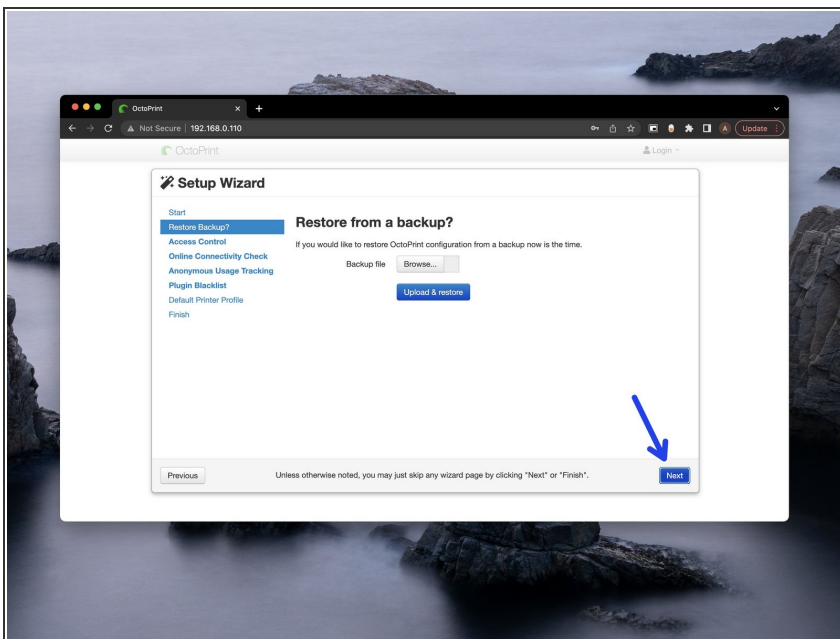
- After entering the Default Gateway IP into your browser, you will be prompted for a username and password.
  - ☑ The username and password can be found on the back of your router.
- On the settings page (this will vary depending on your router) find the *connected devices* page and note the OctoPi's IP address.
  - ☑ Make sure you are connected to the same router that you connected the Raspberry Pi to.
  - ☑ If you find that your routers settings page isn't loading, restart your router.

## Step 7 — OctoPrint Setup



- Type the ip address into your browser to load the OctoPrint interface.
- ★ An easier way to access the interface is by typing "<http://octopi.local>". This doesn't always work however.
- ⓘ It may take a while for it to load from the first boot up, but once it does, you will be greeted with the setup wizard.
- Click *Next*

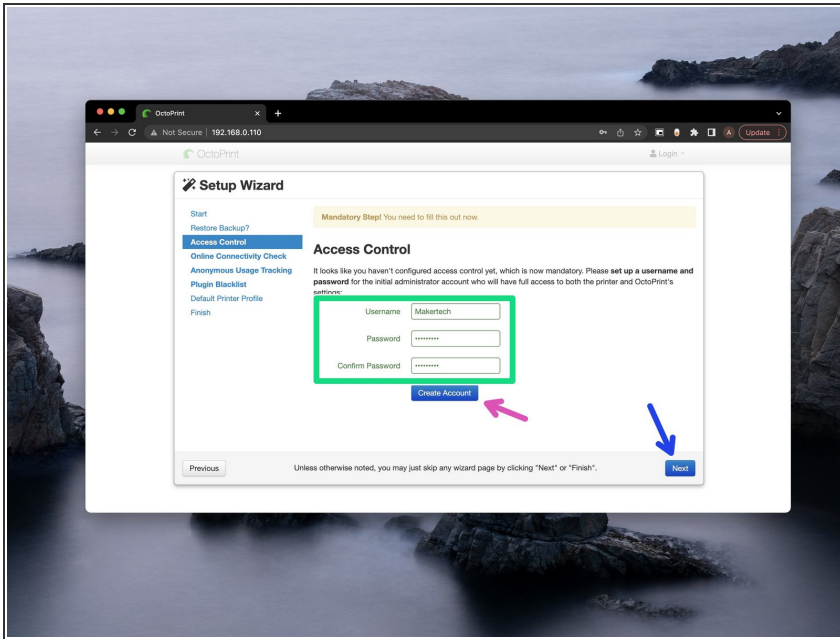
## Step 8 — Restore from Backup



- Skip this step.

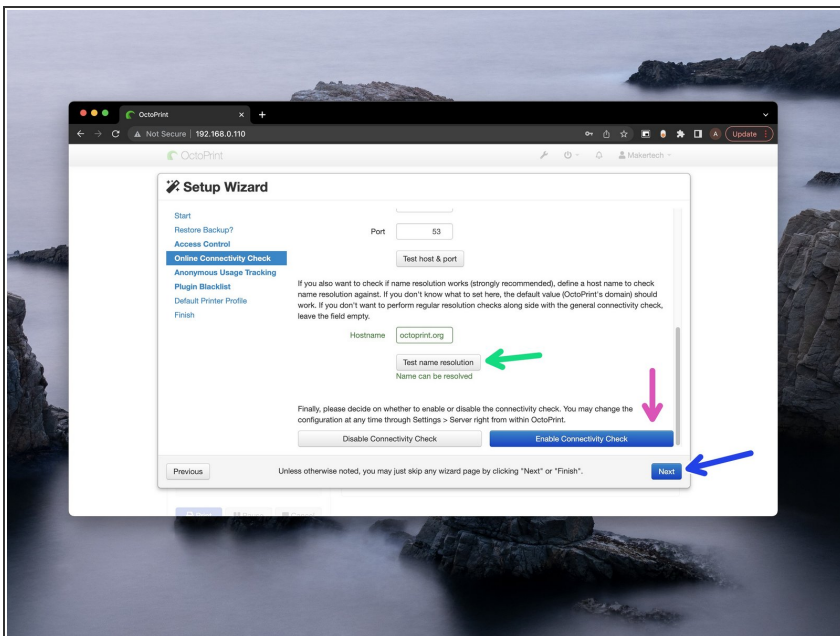


## Step 9 — Access Control




- Create a Username and Password.
- Click **Create Account**
- Then click **Next**

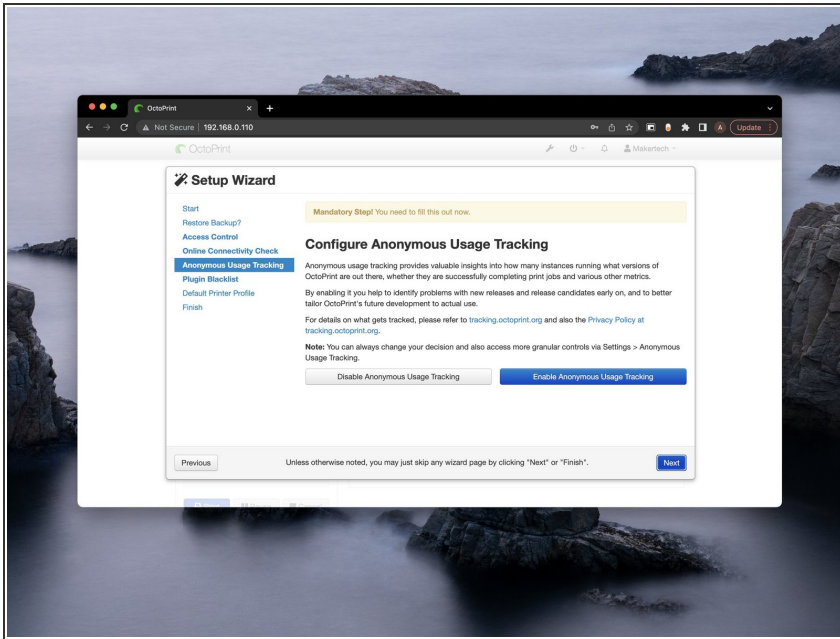
## Step 10 — Online Connectivity Check



- ① Leave the settings as default and scroll to the bottom.
- Click **Test name resolution**
- You should get back a **Name can be resolved** message if you're connected to the internet.
- Click **Enable Connectivity Check.**
- Finally, hit **Next.**

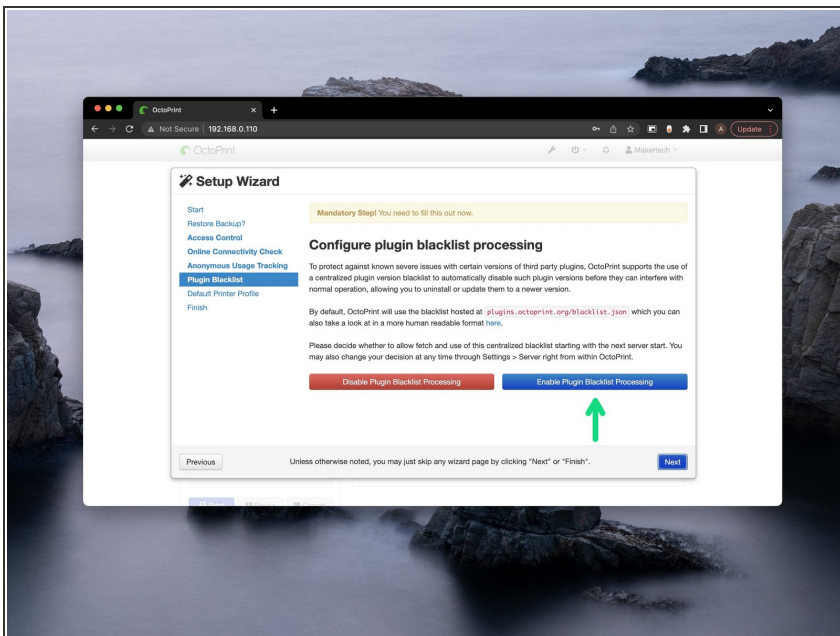
## Step 11 — Anonymous Usage Tracking

 Set your privacy setting.

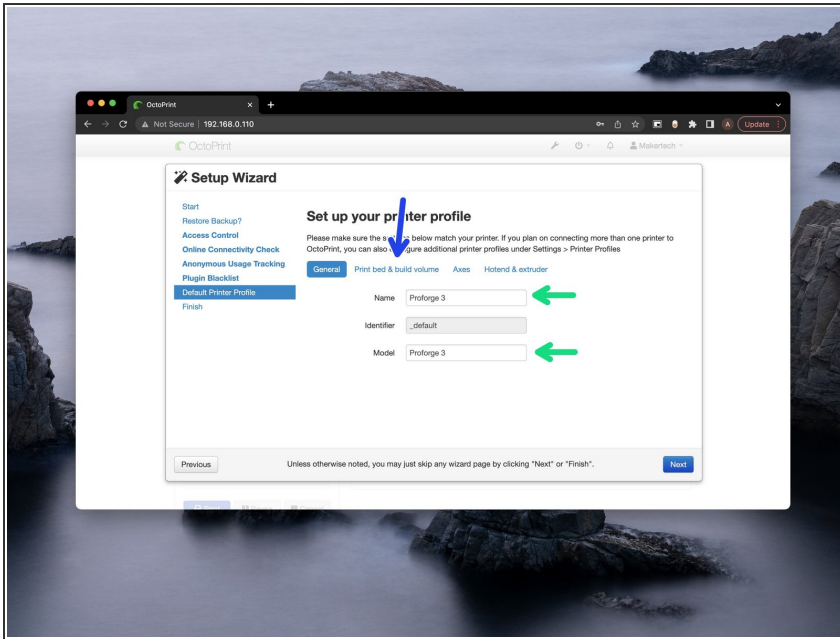


## Step 12 — Plugin Blacklist

- We recommend enabling the blacklist.

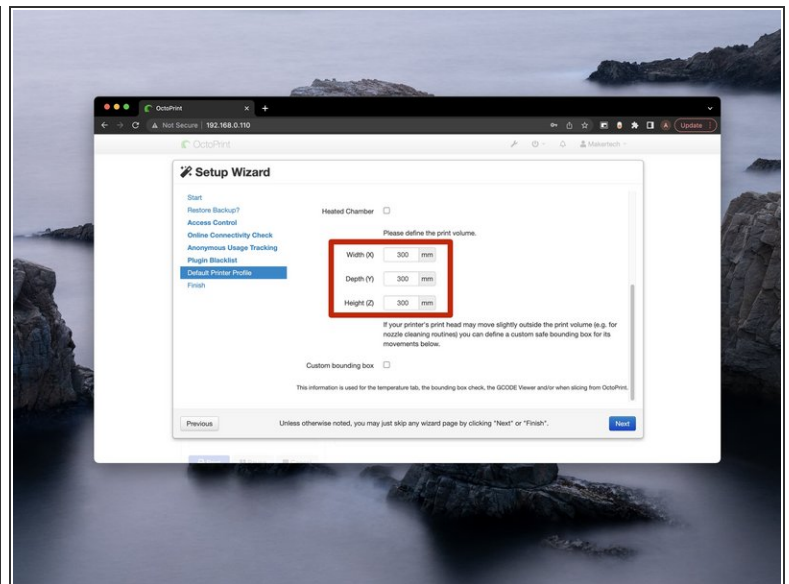
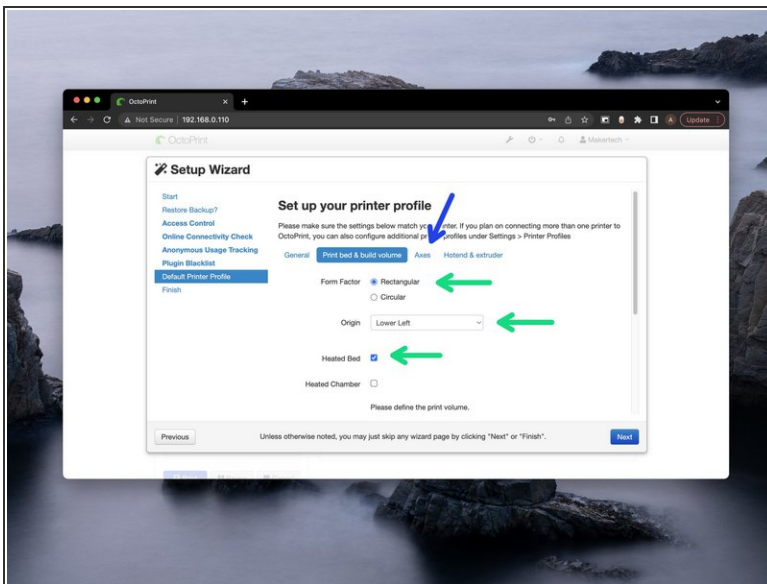


## Step 13 — Printer Profile: General



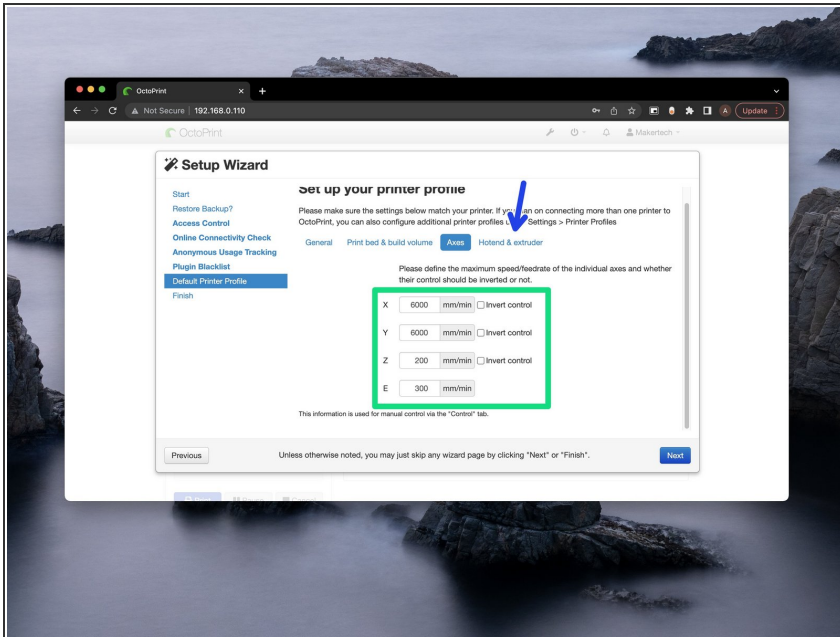
- Set your printers name.
- Next go to **Print bed & build volume**

## Step 14 — Print Bed & Build Volume



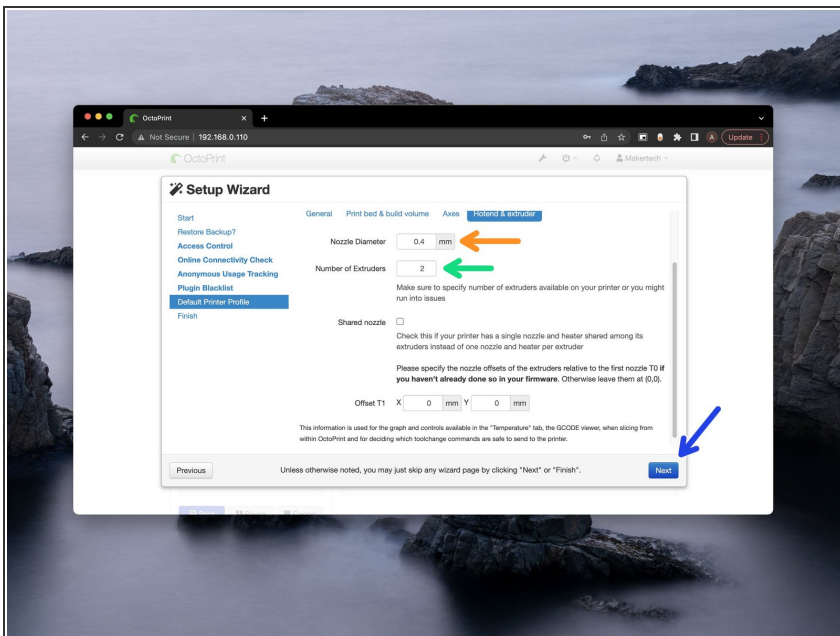
- Default settings should be correct.
- Set the print volume to 300x300x300mm.
- Next go to **Axes**.

## Step 15 — Axes



- Leave these setting as default.
- Next go to **Hotend & Extruder**

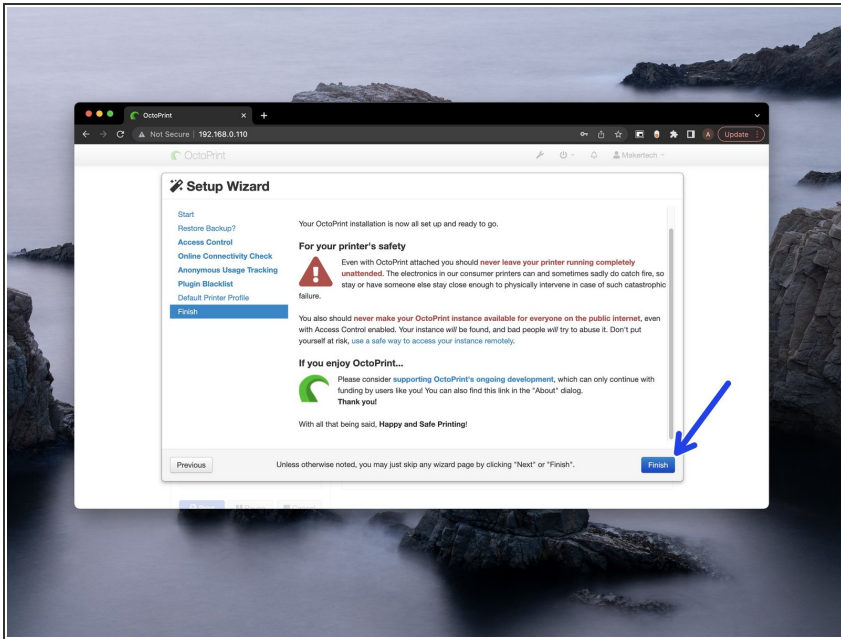
## Step 16 — Hotend & Extruder



- Set the default Nozzle diameter.
- Set number of extruders to 2 if you are running the DSH.
- Hit **Next** when done.

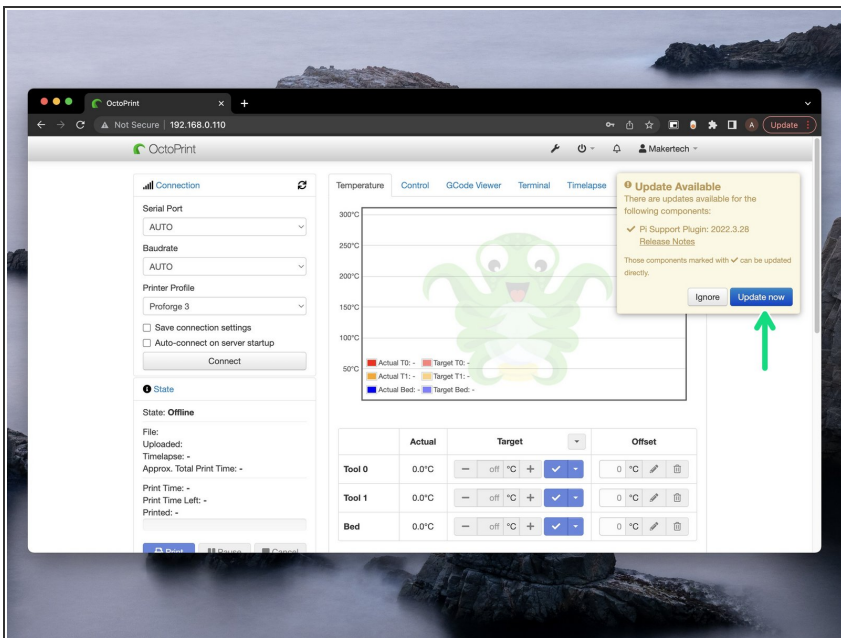


## Step 17 — Finish



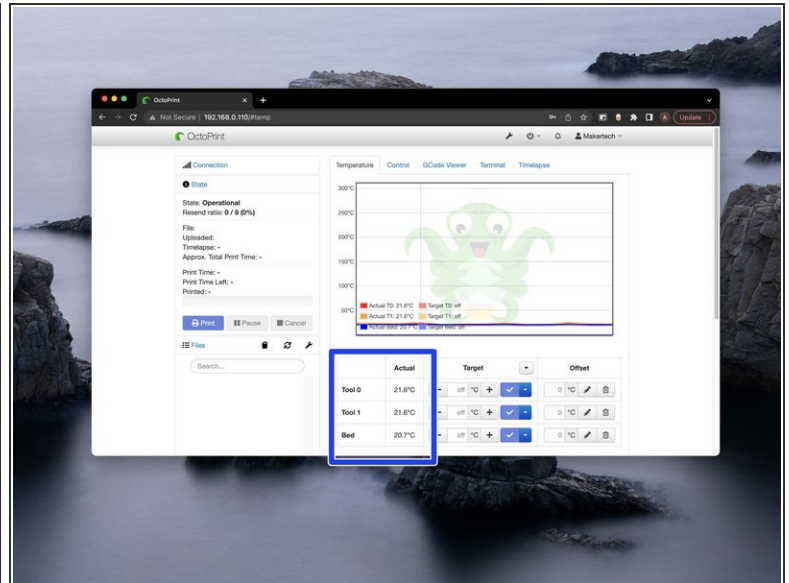
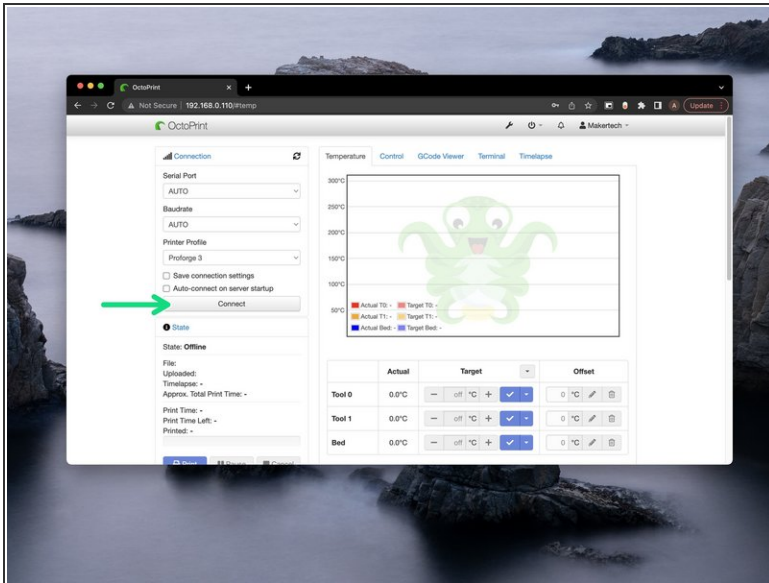
- Read through the safety instructions, hit finish when done.

## Step 18 — Updates



- Complete any updates that pop-up.

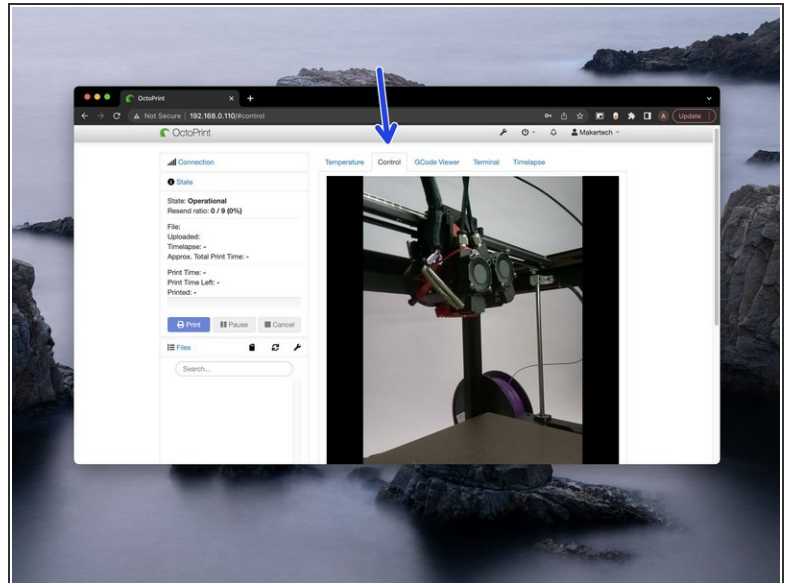
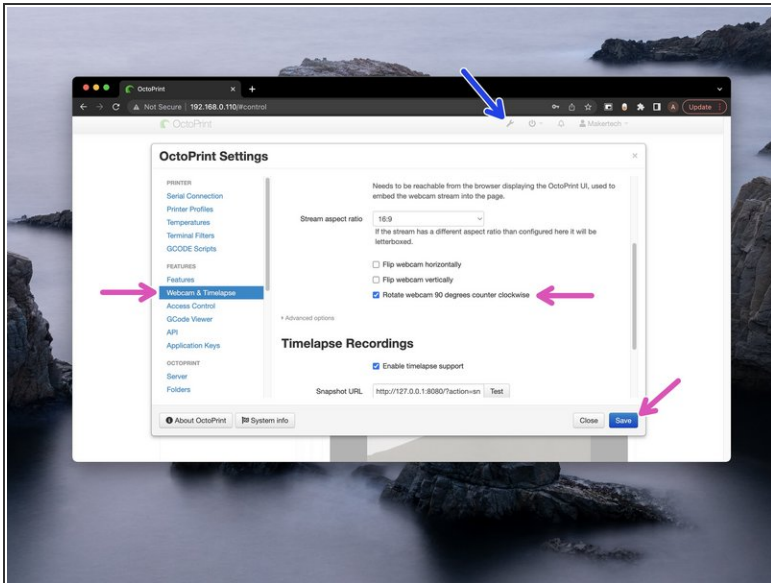
## Step 19 — Connecting to the Proforge 3



- Set the Serial Port and Baudrate to AUTO and hit Connect.
- Check that you're getting the correct temperatures being reported back.

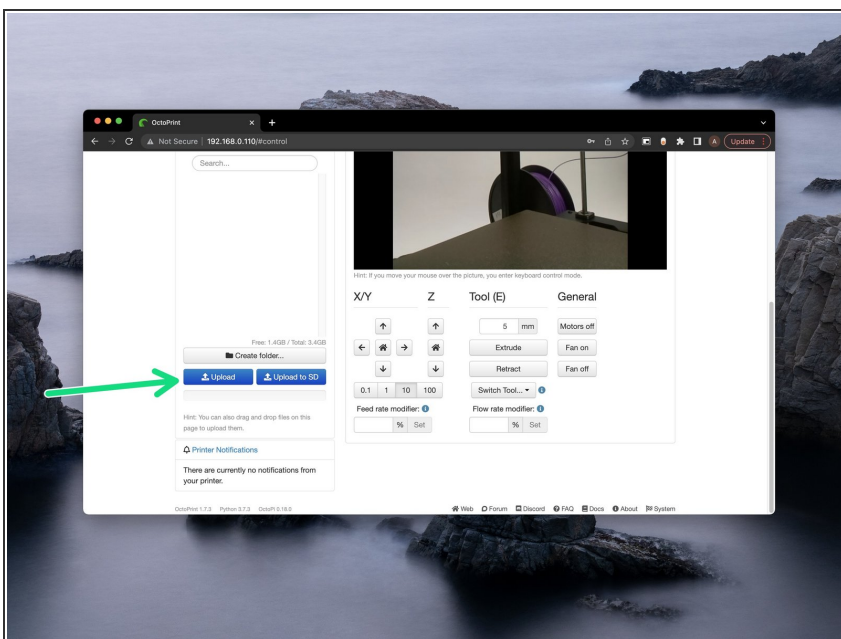


## Step 20 — Pi Cam Image



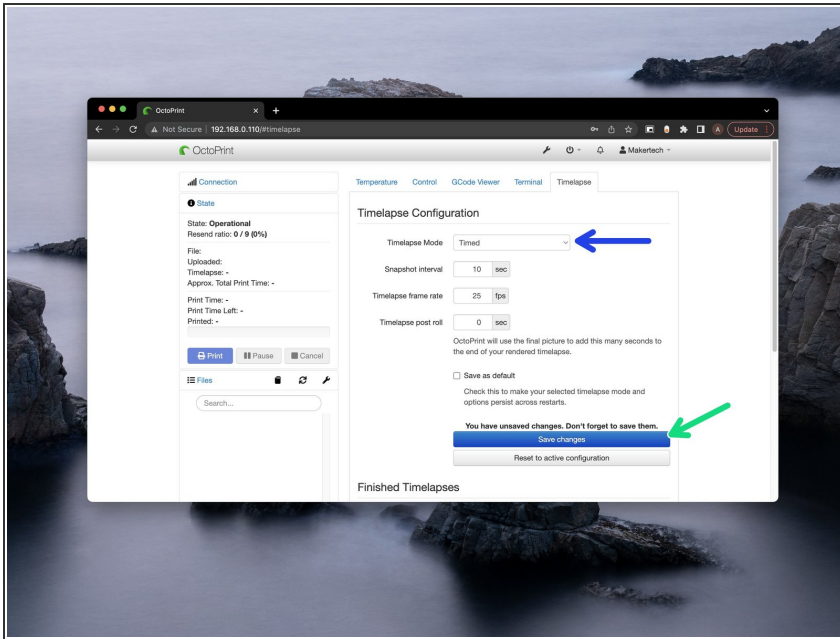
- Go to settings.
- In **Webcam & Timelapse**, check **Rotate webcam 90 degrees counter clockwise**
- The image under the Control tab should be the right way up now.

## Step 21 — Uploading Gcode



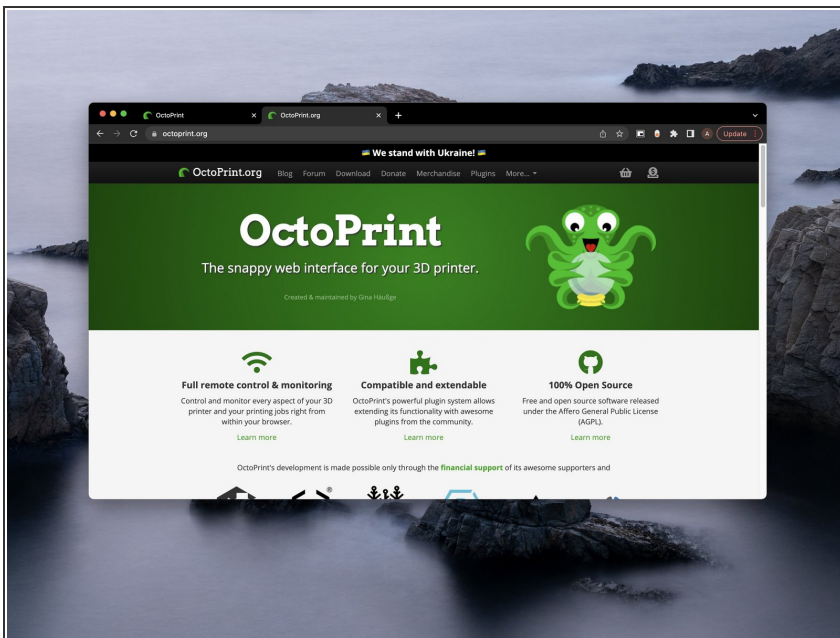
- ① Use Makertech CURA Software to slice your models.
- Click upload (or drag and drop) to send Gcode to OctoPrint for printing.

## Step 22 — Creating Timelapses



- Before starting a print, set the timelapse mode to either take a photo at a timed interval or at every Z-layer move.
- Click save.

## Step 23 — More on OctoPrint



- ① More information on the OctoPrint interface can be found at <http://octoprint.org>