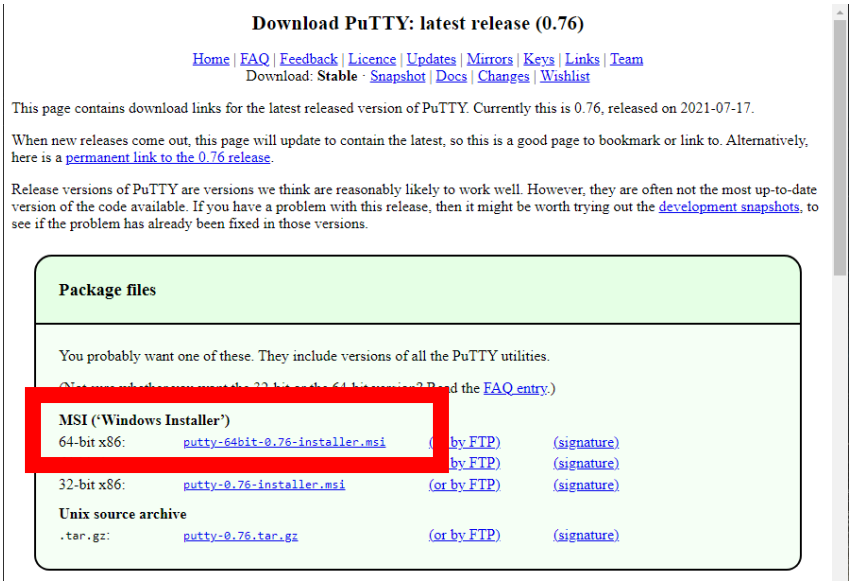
Kronos Timelapse Instructions

David Gable, 1/16/2022

Downloads

1. Download PuTTY. Follow install steps.

https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html



Download PuTTY: latest release (0.76)

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This page contains download links for the latest released version of PuTTY. Currently this is 0.76, released on 2021-07-17.

When new releases come out, this page will update to contain the latest, so this is a good page to bookmark or link to. Alternatively, here is a permanent link to the 0.76 release.

Release versions of PuTTY are versions we think are reasonably likely to work well. However, they are often not the most up-to-date version of the code available. If you have a problem with this release, then it might be worth trying out the development snapshots, to see if the problem has already been fixed in those versions.

Package files

You probably want one of these. They include versions of all the PuTTY utilities.

(Not sure whether you want the 32-bit or the 64-bit version? Read the FAQ entry.)

MSI ('Windows Installer')

64-bit x86:	putty-64bit-0.76-installer.msi	(or by FTP)	(signature)
		(or by FTP)	(signature)
32-bit x86:	putty-0.76-installer.msi	(or by FTP)	(signature)

Unix source archive

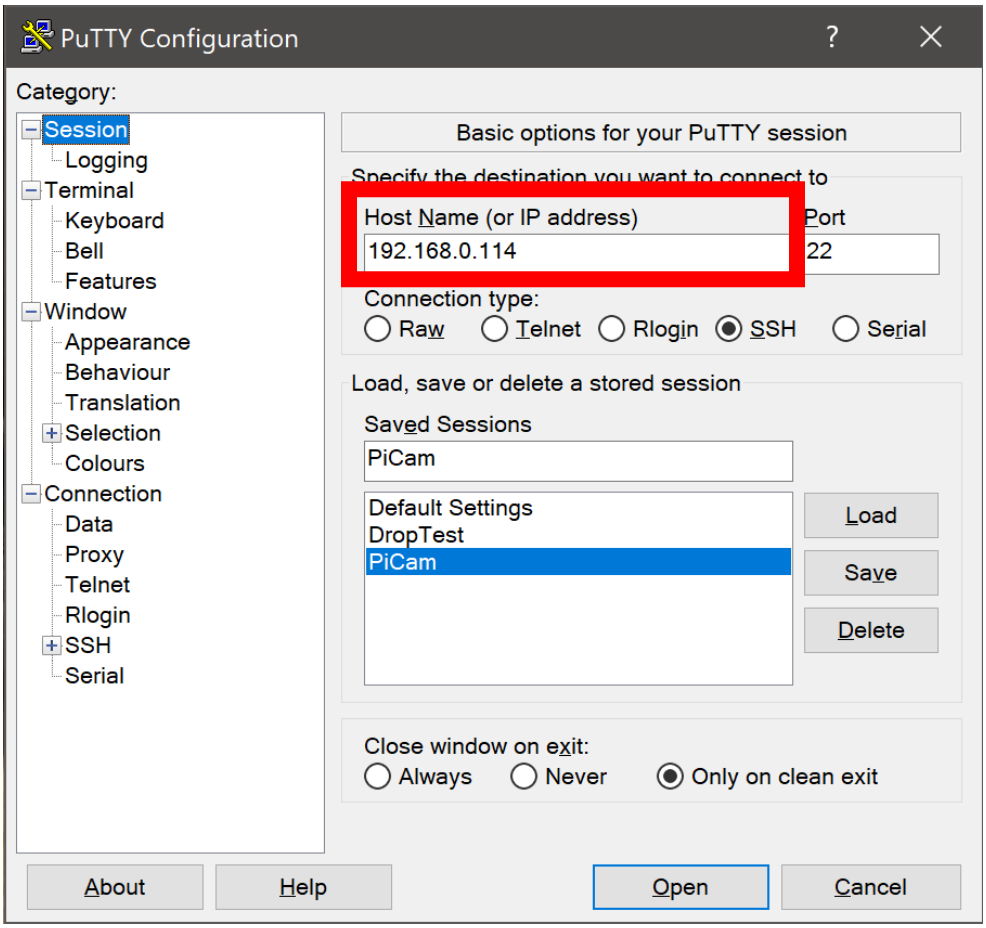
.tar.gz:	putty-0.76.tar.gz	(or by FTP)	(signature)

2. Download WinSCP

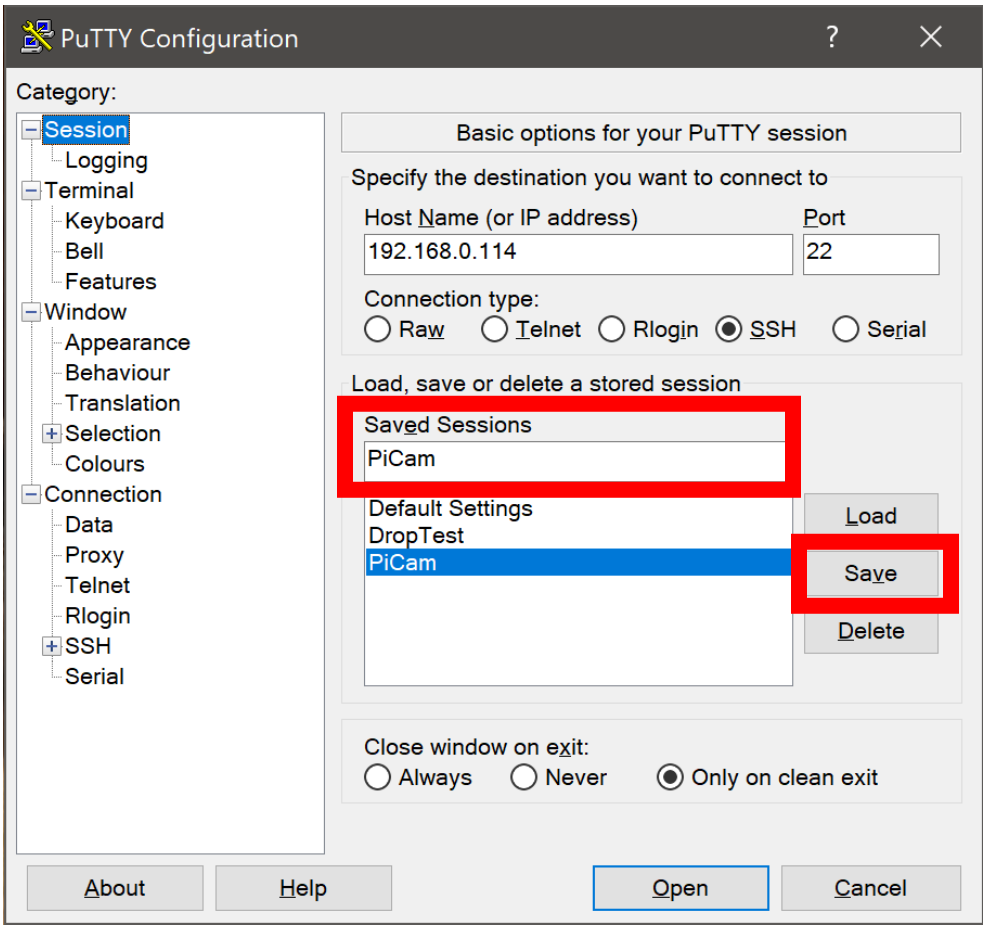
https://winscp.net/eng/download.php (close the tab that pops up after clicking the green button below once the download is complete). Follow install steps.

Setting Up PuTTY and WinSCP

1. Launch PuTTY
2. Type 192.168.0.114 in the Host Name line

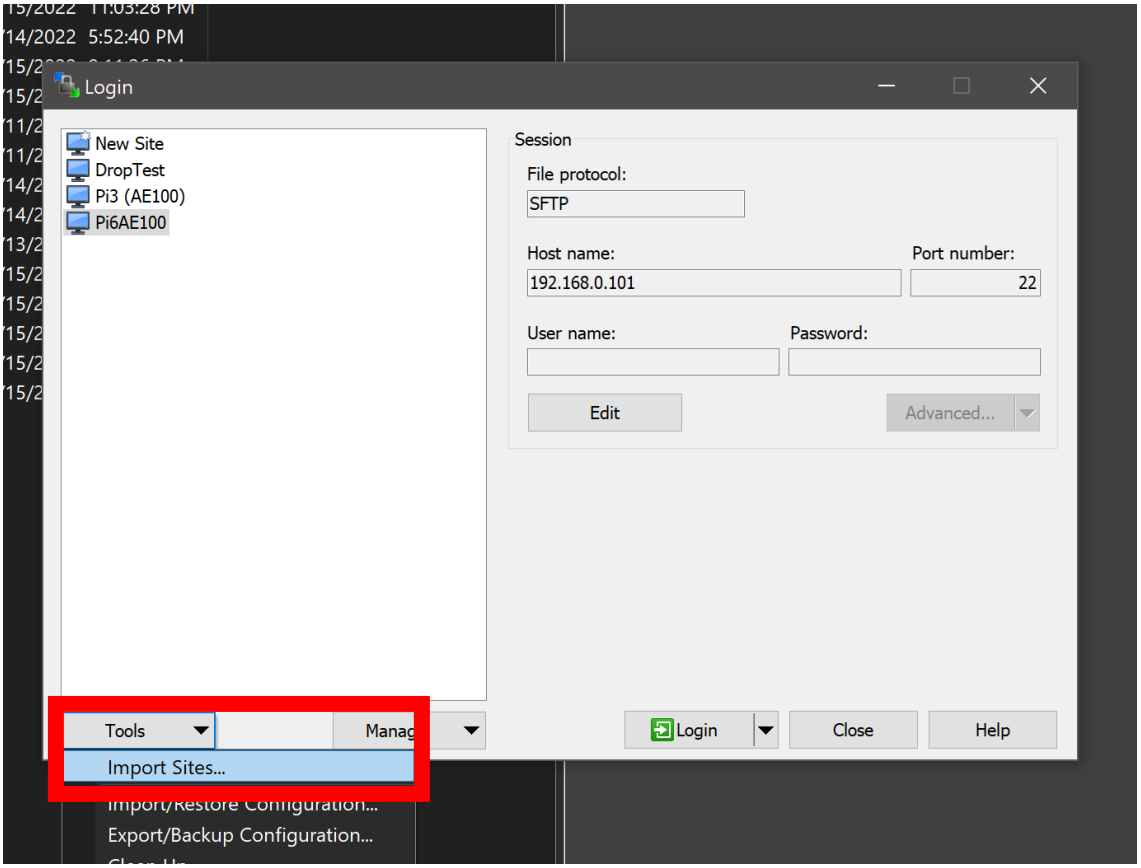


3. Give a name to the session (I used PiCam). Type in the name under Saved Sessions and click Save.

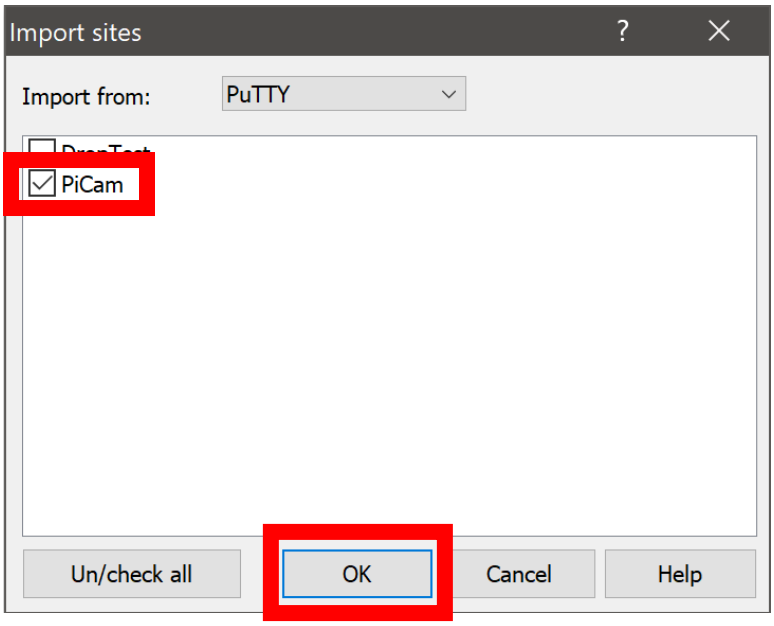


4. In the future you can double click the saved session to load directly into the RPi

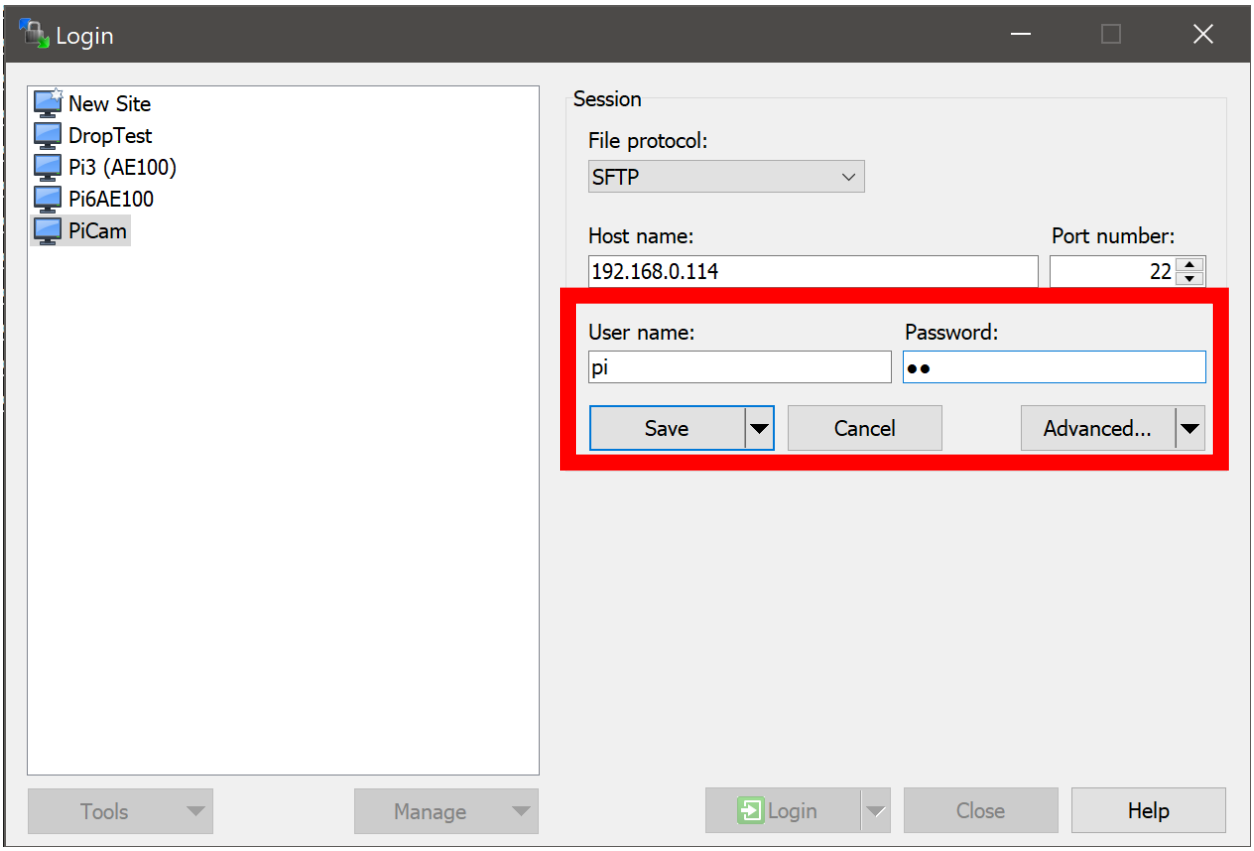
5. In WinSCP click on Tools and then import sites



6. Check PiCam or whatever you saved the session as in PuTTY and click OK

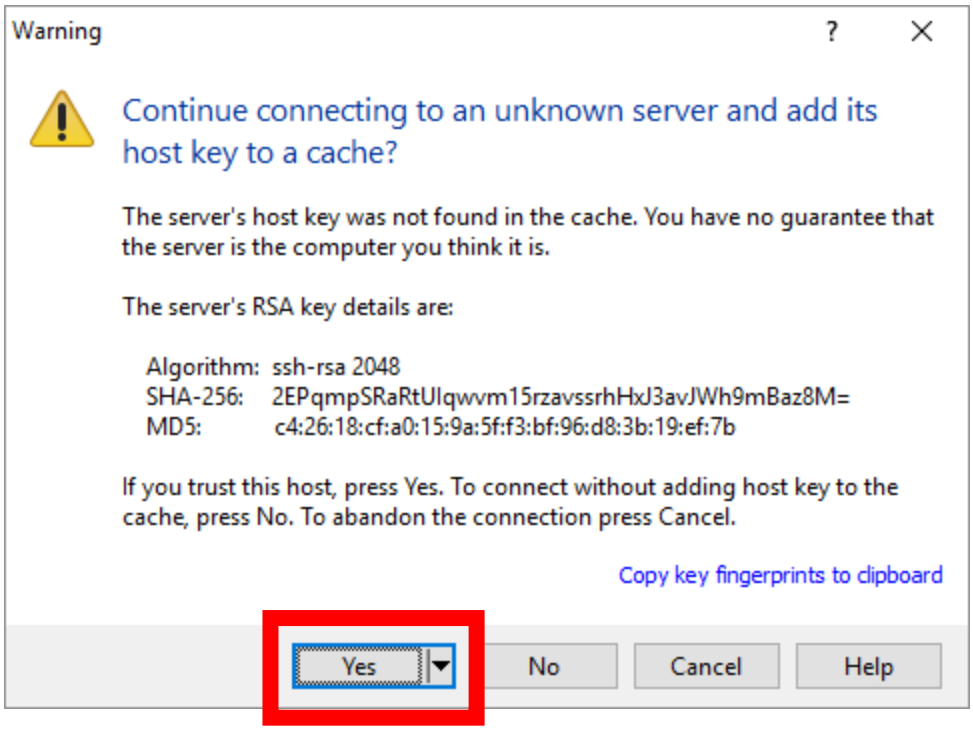


7. You can optionally click Edit and add the username and password so you will have an easier time signing in. Username: pi. Password: pi.



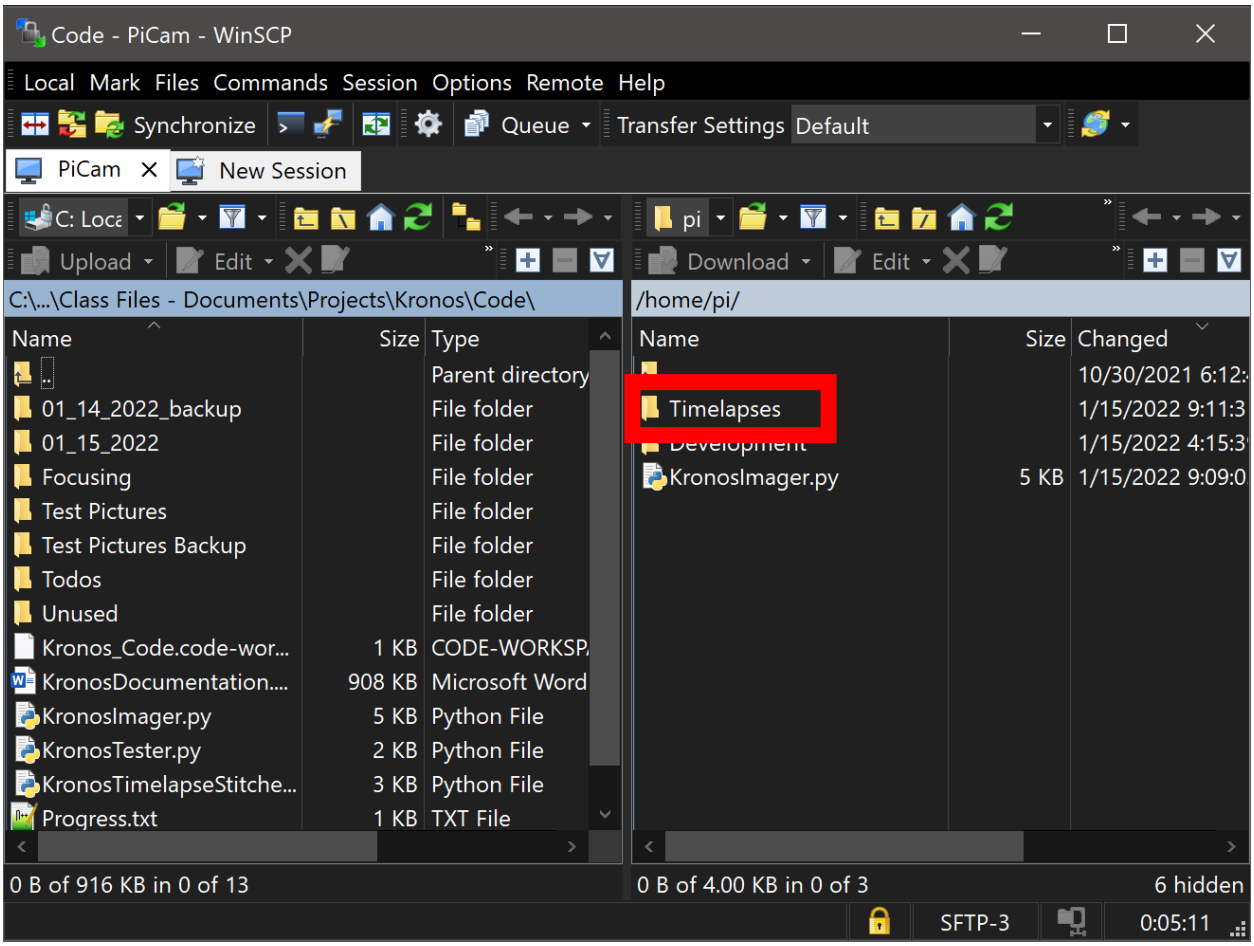
Using WinSCP

1. In WinSCP, click Login and type in username (pi) or password (pi) if prompted
2. There is a onetime alert warning about security or something, click yes.



3. On the left is your local machine and the right is the RPi. Transferring files works the same way as it would between two folders on your local machine. Click and drag files or folders to transfer them.

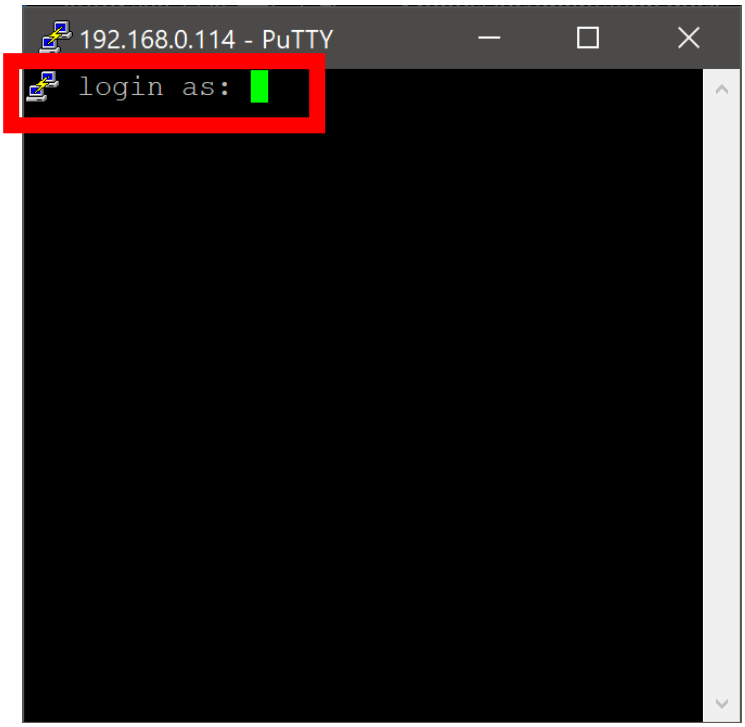
4. By default, images taken for the timelapse are stored in /home/pi/Timelapses/ on the RPi. Double click to enter folder.



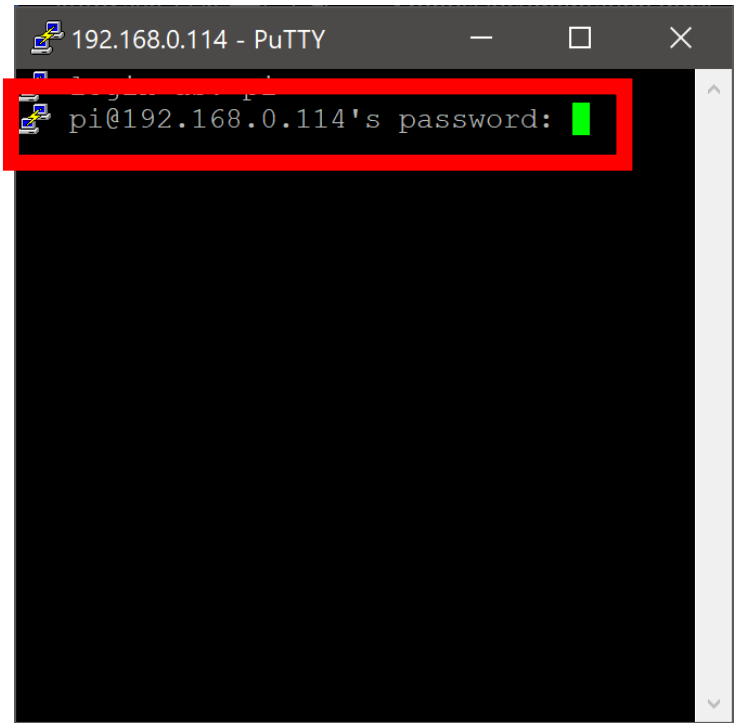
5. To update a file, click and drag the file from one side to the other as you would in File Explorer (updated side -> un-updated side)

Signing Into PuTTY

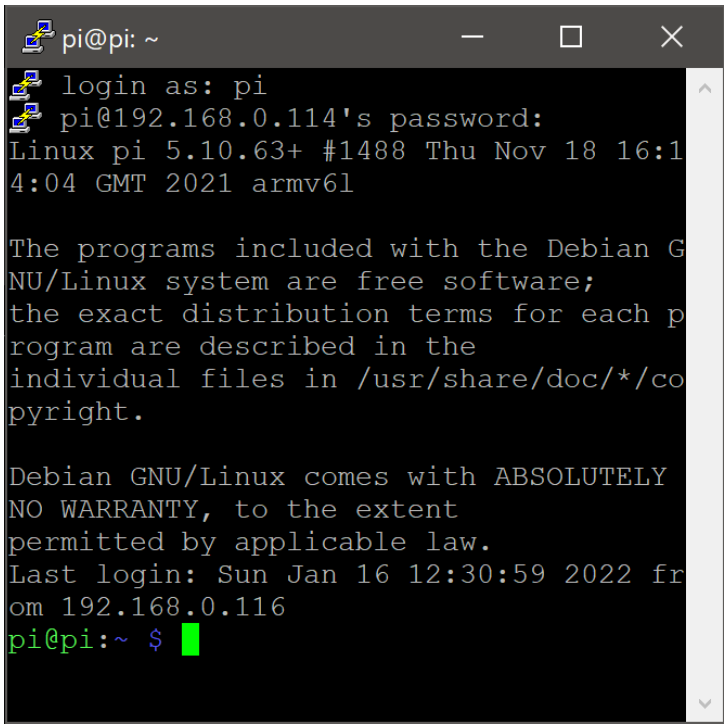
1. Double click the saved profile to load into PuTTY as shown below



2. Type **pi** for login as: and press enter



3. Type **pi** for the password and press enter (text will not display this is ok)
4. The screen should look like this



Installation

Guide goes here

Windows

Modules

;afsl

File Locations

sfalk

Raspberry Pi

Modules

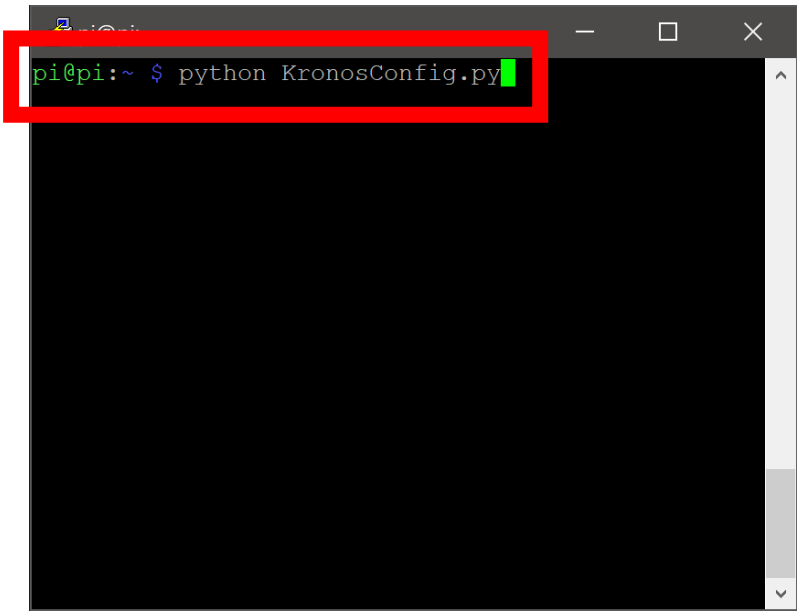
;afsl

File Locations

sfl

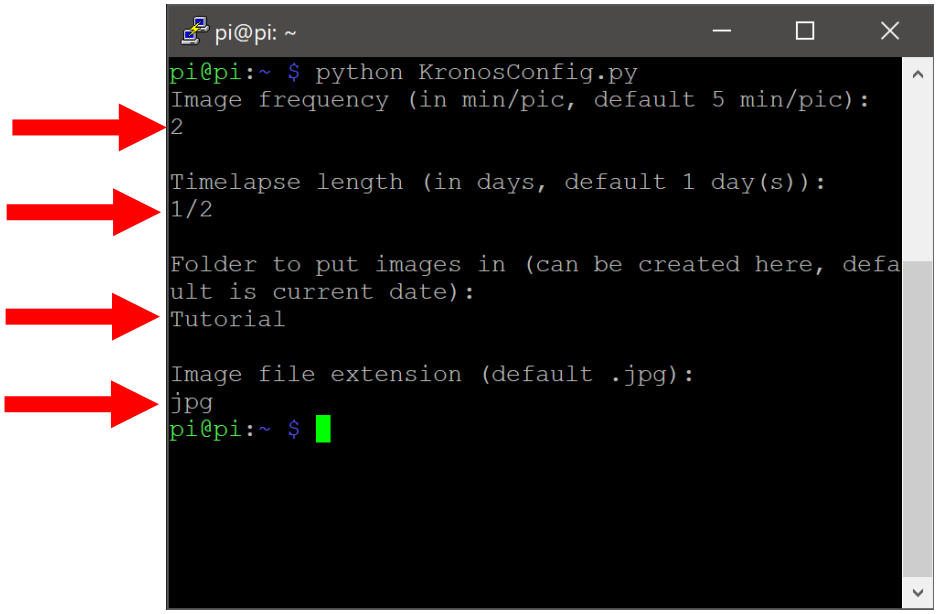
Configuring Timelapse

1. To configure a timelapse, type **python KronosConfig.py**. You can also paste text by right clicking.

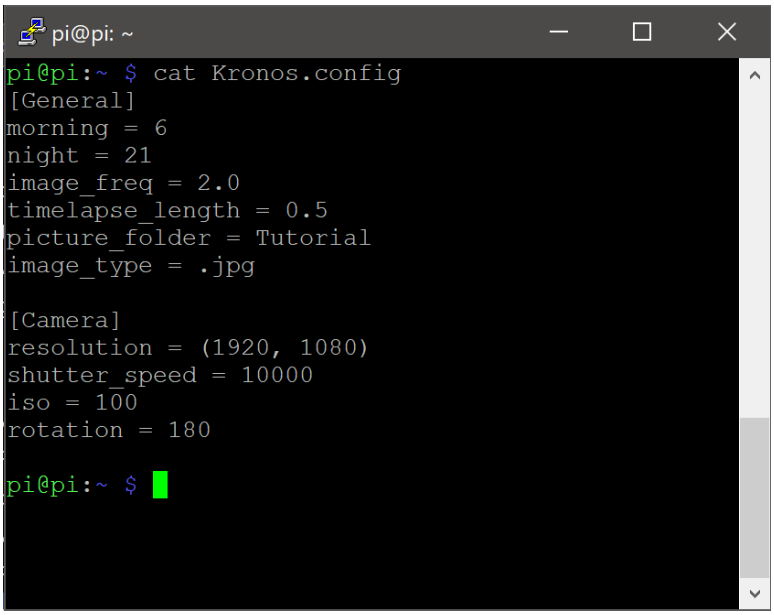


2. Type the values you would like and press enter. Alternatively, press enter if you would like to use the default values.

In this example I will take a picture every 2 minutes, for half a day, save the images in a folder called “Tutorial”, with the file type jpg.

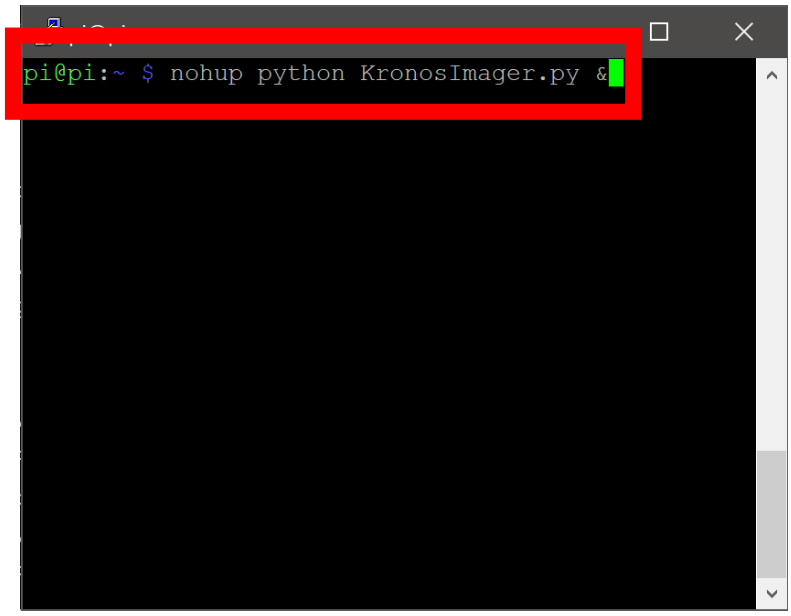


3. If you would like to look at the current configuration that will be used in the next timelapse type **cat Kronos.config.** Some of these variables you can change by editing in a text editor such as Morning and Night which are the times at which the timelapse will take pictures.



Running Timelapse

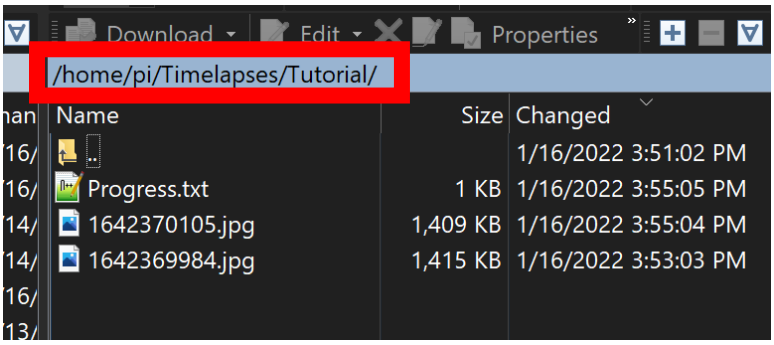
1. To begin running a timelapse with the current config file, type **nohup python KronosImager.py &**. You can also paste text by right clicking.



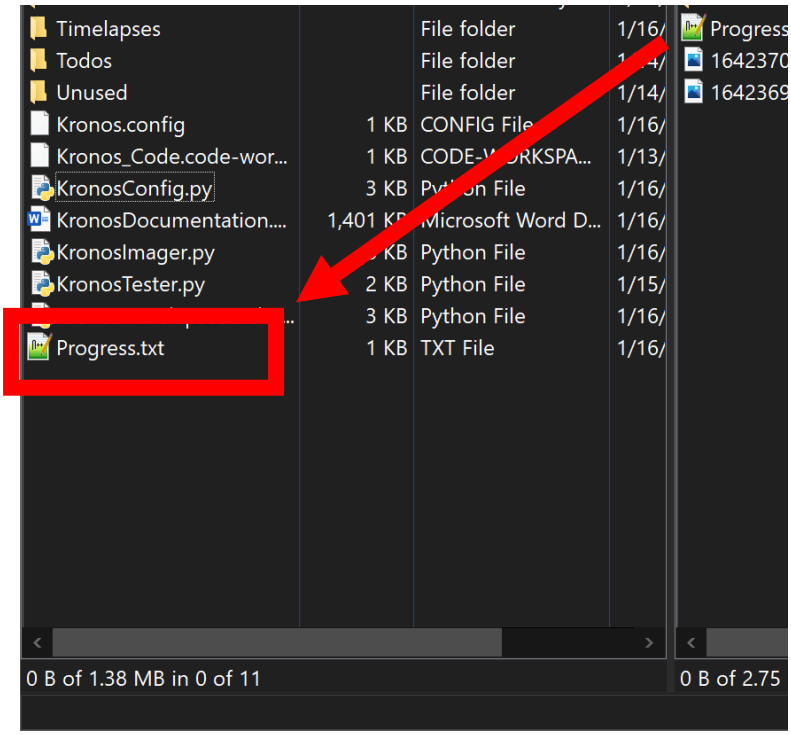
2. The terminal screen should now look like this and the timelapse is now running. To check the timelapse progress, see **Checking Timelapse Progress**.

Checking Timelapse Progress

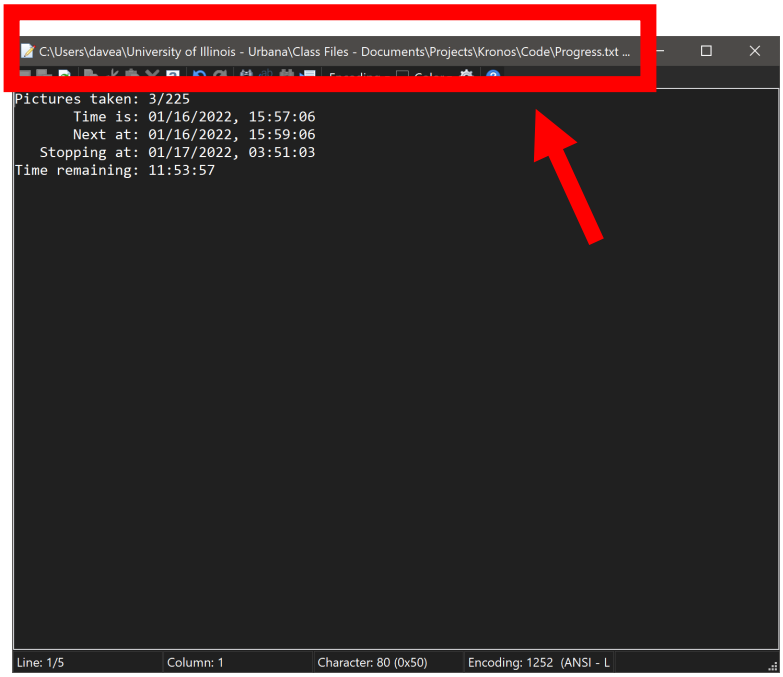
1. Checking timelapse progress is done in WinSCP. To begin, navigate to the folder "Timelapses" and then the folder you selected to save images to (in this case "Tutorial")



2. Click and drag the file **Progress.txt** to your computer



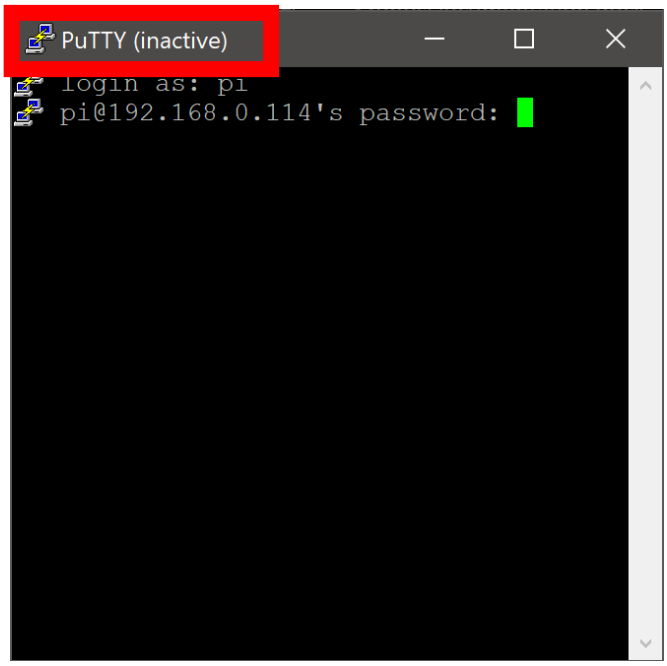
3. Double click the file on your computer to open it



4. It is not suggested you open the file on the RPi while running KronosImager.py. The script will get hung up if the file is being read on the RPi and it will not take pictures if it cannot keep updating **Progress.txt.**

PuTTY Troubleshooting

1. Sometimes PuTTY will become unresponsive. If this happens you may see **PuTTY (inactive)** on the window title



2. **Right click** the top bar and click restart session. You will be prompted to sign in again. Return to Using PuTTY to continue.