Lab – Uploading a Compressed File to the Raspberry Pi

Objectives

Step 1: Upload the zip file to the Raspberry Pi

Step 2: Unzip the compressed file.

Step 3: Run the unzipped Jupyter Notebook.

Background / Scenario

In this lab you will download a compressed Jupyter Notebook folder and upload it to your Raspberry Pi.

Required Resources

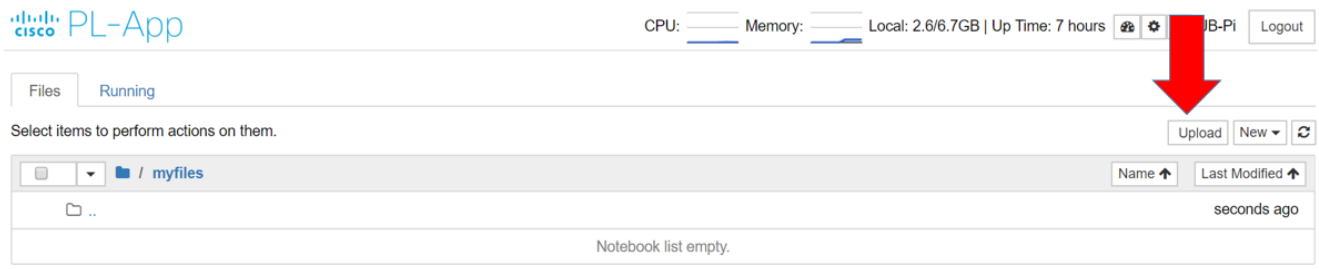
- PL-App connected to a Raspberry Pi
- Compressed notebook file

Step 1: Upload the compressed file.

a) Download the compressed notebook using the link on the curriculum page.

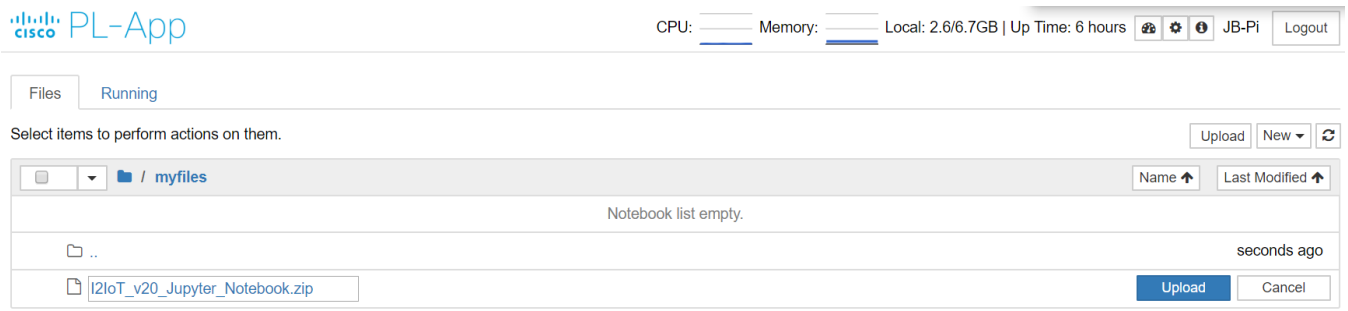
b) Open the Raspberry Pi connection and navigate to the /myfiles directory.

c) Click **Upload**.



d) Navigate to the downloaded compressed file.

e) Select **Open** and then select **Upload** on the Pi.



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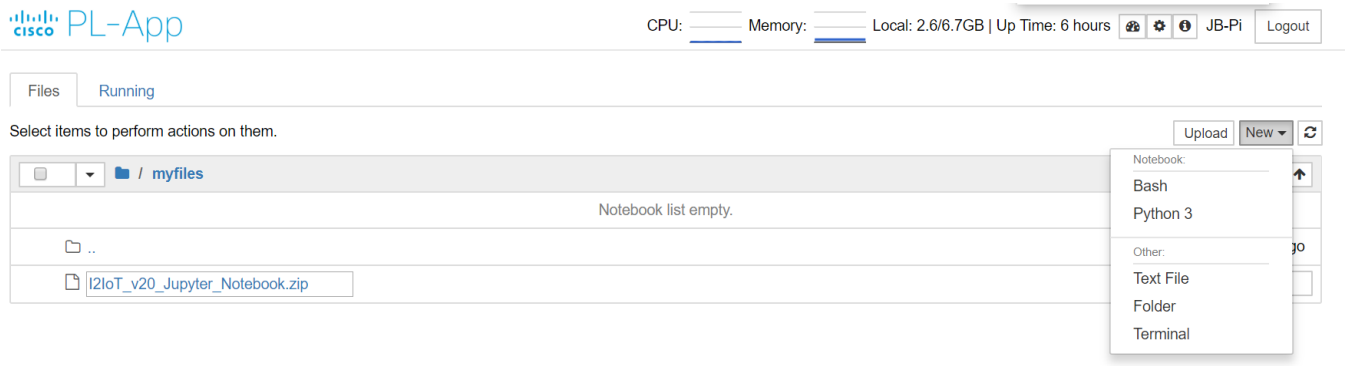
Step 2: Unzip the Compressed File

a. Select **New Terminal.**



b. Enter the following commands in the terminal window:

cd myfiles

ls –la

unzip I2IoT_v20_Jupyter_Notebook.zip

```
(pl-app) root@JB-Pi:/home/pi/notebooks# cd myfiles
(pl-app) root@JB-Pi:/home/pi/notebooks/myfiles# ls -la
total 868
drwxr-xr-x 3 root root   4096 Jul  5 20:22 .
drwxr-xr-x 5 root root   4096 Jul  5 19:24 ..
-rw-r--r-- 1 root root 875428 Jul  5 20:22 I2IoT_v20_Jupyter_Notebook.zip
drwxr-xr-x 2 root root   4096 Jul  5 18:58 .ipynb_checkpoints
(pl-app) root@JB-Pi:/home/pi/notebooks/myfiles# unzip I2IoT_v20_Jupyter_Notebook.zip
Archive:  I2IoT_v20_Jupyter_Notebook.zip
  inflating: 2.2.2.7 Jupyter Notebook - Blinking an LED using Raspberry Pi and PL-App - Jupyter Notebook/2.2.2.7 Lab - Blinking an LED using Ras
pberry Pi and PL-App.ipynb
   creating: 2.2.2.7 Jupyter Notebook - Blinking an LED using Raspberry Pi and PL-App - Jupyter Notebook/images/
  inflating: 2.2.2.7 Jupyter Notebook - Blinking an LED using Raspberry Pi and PL-App - Jupyter Notebook/images/blockly_complete.png
  inflating: 2.2.2.7 Jupyter Notebook - Blinking an LED using Raspberry Pi and PL-App - Jupyter Notebook/images/blockly_setup_channel.png
  inflating: 2.2.2.7 Jupyter Notebook - Blinking an LED using Raspberry Pi and PL-App - Jupyter Notebook/images/blockly_sleep.png
  inflating: 2.2.2.7 Jupyter Notebook - Blinking an LED using Raspberry Pi and PL-App - Jupyter Notebook/images/blockly1.png
  inflating: 2.2.2.7 Jupyter Notebook - Blinking an LED using Raspberry Pi and PL-App - Jupyter Notebook/images/blockly2.png
  inflating: 2.2.2.7 Jupyter Notebook - Blinking an LED using Raspberry Pi and PL-App - Jupyter Notebook/images/blockly2_output_to_channel.png
  inflating: 2.2.2.7 Jupyter Notebook - Blinking an LED using Raspberry Pi and PL-App - Jupyter Notebook/images/blockly3.png
  inflating: 2.2.2.7 Jupyter Notebook - Blinking an LED using Raspberry Pi and PL-App - Jupyter Notebook/images/blockly4.png
  inflating: 2.2.2.7 Jupyter Notebook - Blinking an LED using Raspberry Pi and PL-App - Jupyter Notebook/images/blockly5.png
  inflating: 2.2.2.7 Jupyter Notebook - Blinking an LED using Raspberry Pi and PL-App - Jupyter Notebook/images/chestnut_toolbar_blockly.png
  inflating: 2.2.2.7 Jupyter Notebook - Blinking an LED using Raspberry Pi and PL-App - Jupyter Notebook/images/cisco.png
  inflating: 2.2.2.7 Jupyter Notebook - Blinking an LED using Raspberry Pi and PL-App - Jupyter Notebook/images/morse_code.png
  inflating: 2.2.2.7 Jupyter Notebook - Blinking an LED using Raspberry Pi and PL-App - Jupyter Notebook/images/playButton.png
  inflating: 2.2.2.7 Jupyter Notebook - Blinking an LED using Raspberry Pi and PL-App - Jupyter Notebook/images/Raspberry_Pi_3_Model_B_pinout.pn
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  inflating: 2.2.2.7 Jupyter Notebook - Blinking an LED using Raspberry Pi and PL-App - Jupyter Notebook/images/rpi_gpio_breadboard_led.png
  inflating: 2.2.2.7 Jupyter Notebook - Blinking an LED using Raspberry Pi and PL-App - Jupyter Notebook/images/rpi_gpio_pinout.png
  inflating: 2.2.2.7 Jupyter Notebook - Blinking an LED using Raspberry Pi and PL-App - Jupyter Notebook/images/topology.png
(pl-app) root@JB-Pi:/home/pi/notebooks/myfiles#
```

c. Select the unzipped Jupyter Notebook folder.

d. Start the lab by clicking on the lab notebook file.

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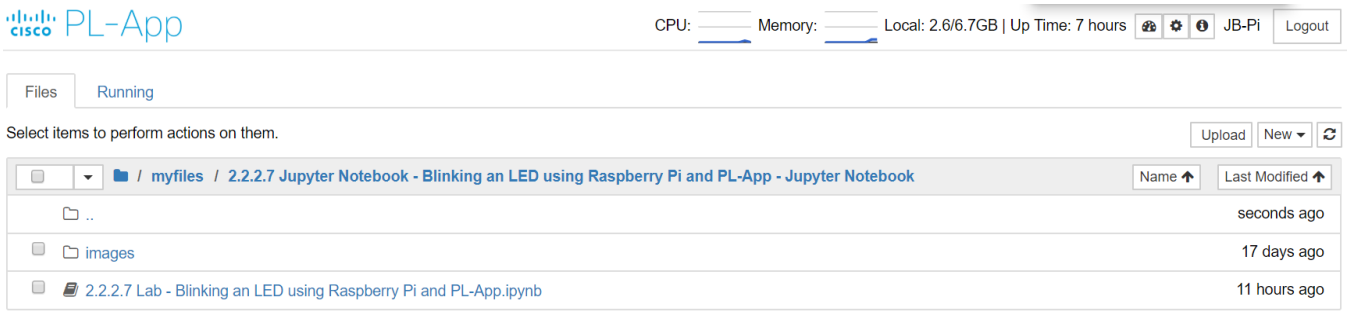
Lab9 - Uploading a Compressed File to the Raspberry Pi



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