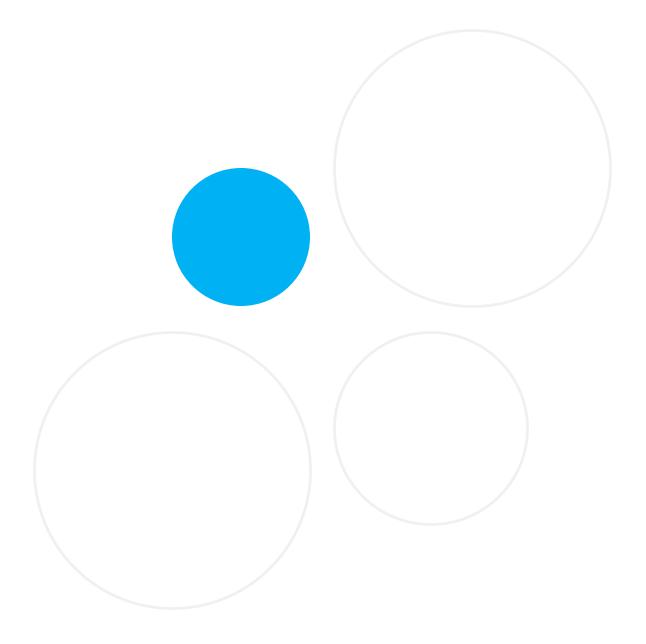
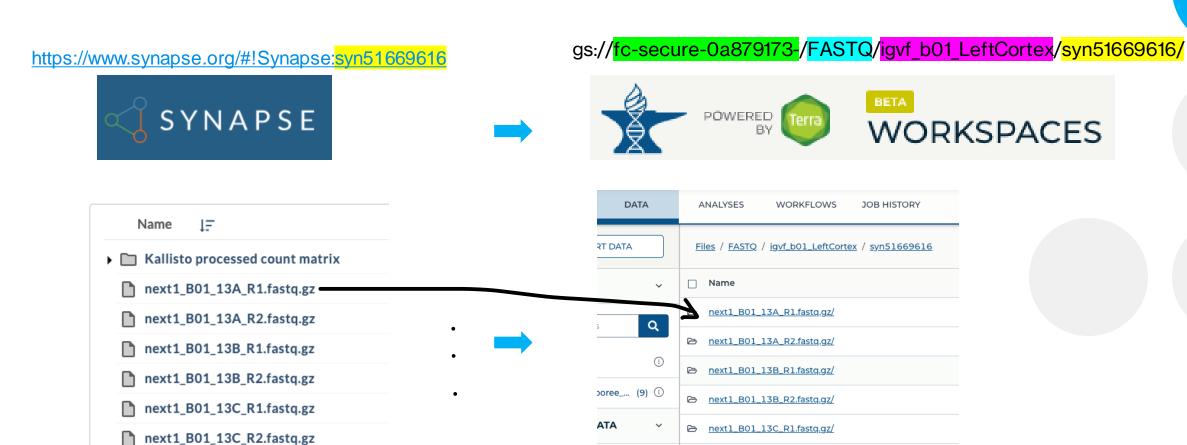
SC Jamboree Copying files from Synapse to Anvil workspace

Kundaje Lab Eila Arich-Landkof



What?

next1_B01_13D_R1.fastq.gz



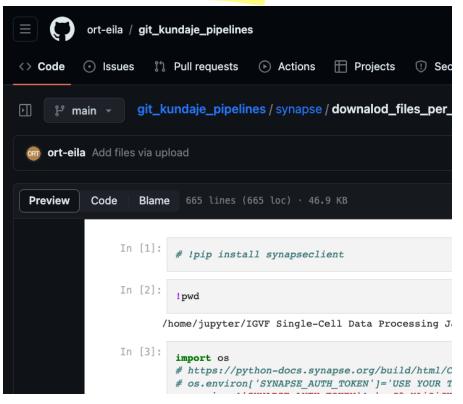
ve been added.

next1_B01_13C_R2.fastq.gz/

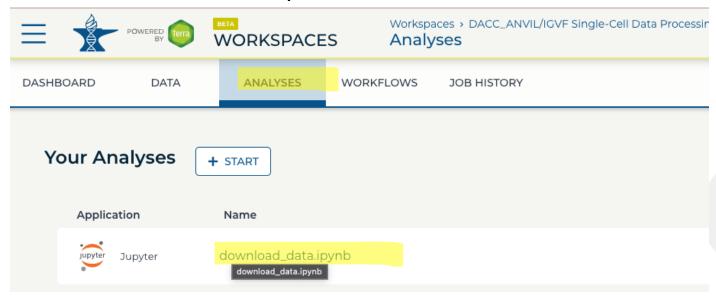
How? - programmatically, python

Saves time & Bugs

Github link



Anvil workspace



Script Steps

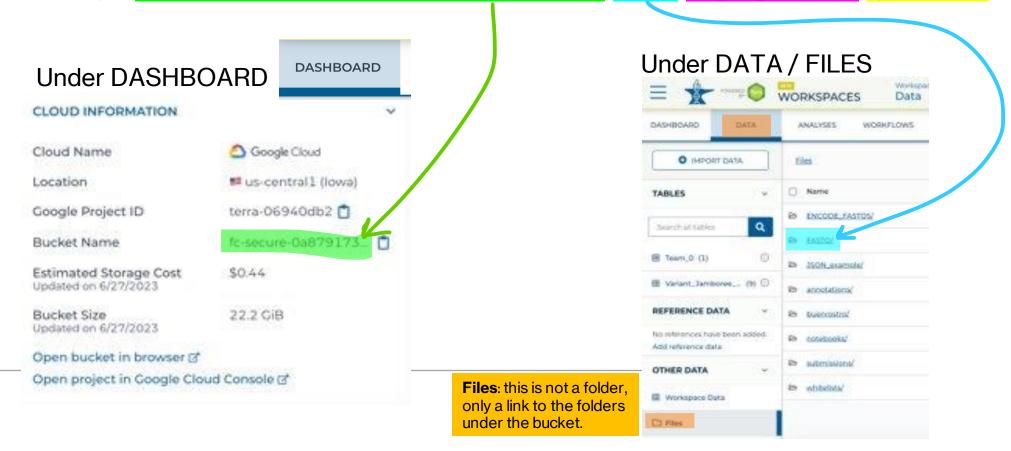
- 1. Get the list of files from synapse based on its dataset id
 - https://www.synapse.org/#!Synapse:syn51669616
- 2. Create the destination path for the files in the Anvil workspace
 - gs://bucket name/FASTQ/project name/synapse ID/
 - gs://fc-secure-0a879173-62d3-4c3a-8fc3e35ee4248901/FASTQ/igvf_b01_LeftCortex/syn51669616/
- 3. Copy each file from the Synapse source to its workspace destination
 - If you run the script more than once, files that were downloaded, will not be downloaded again





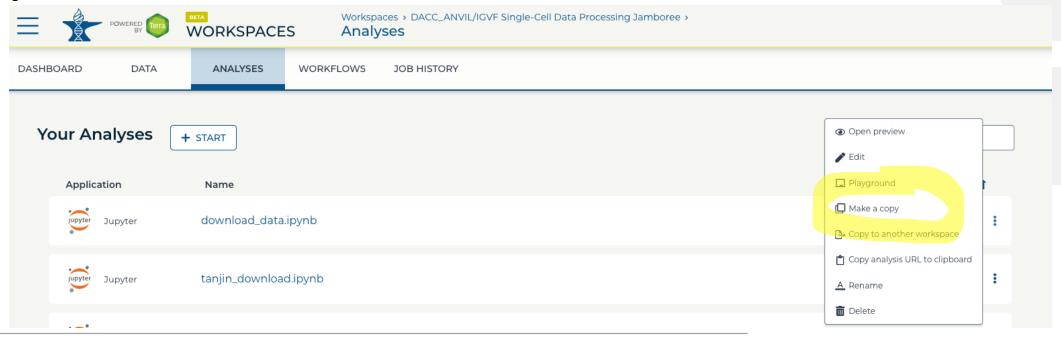
Destination path on Anvil workspace

- A path on Google Cloud Platform (GCP)
 - gs://bucket name/FASTQ/project name/synapse ID/
 - gs://fc-secure-0a879173-62d3-4c3a-8fc3-e35ee4248901/FASTQ/igvf_b01_LeftCortex/syn51669616/



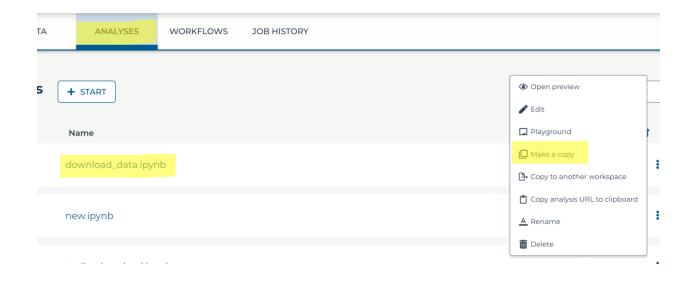
How to run the cop script?

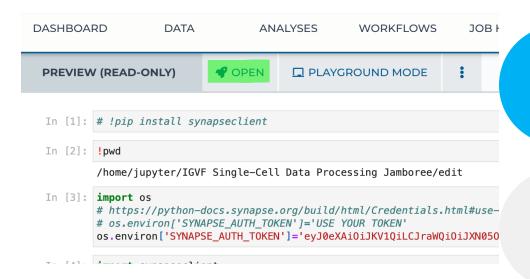
 Step 1: Make a copy of the script from the Anvil workflow OR from git to your local machine



How to run – Step 2 – edit mode

- 1. Rename your script: XXXX_download_file.ipynb
- 2. Open your script in edit mode.





How to run – Step 2 – Update variables

- Personalize the script with your values.
- Search for "TODO" in the script.



2. Create local folder and replace the path below

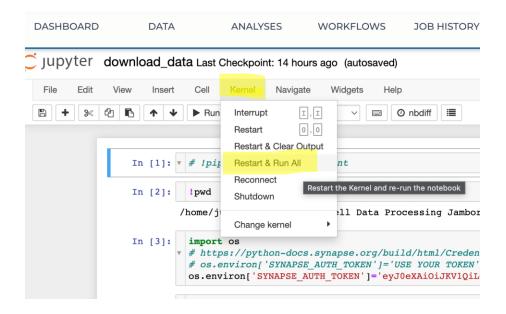
TODO: change this to local folder that is on your machine
local_file_path="/home/jupyter/eila/"

3. Update the path on Anvil with your project name

igvf_b01_LeftCortex/

TODO: change here the name of the dataset that you are downloading. For example: "igvf_b0l_LeftCortex" gs_rxc_path = os.path.join(gs_root_file,"igvf_b0l_LeftCortex",dataset_id,dst_file_name)

Execute & Compare files



- Compare the copied files with your data on Synapse files
 - Source: https://www.synapse.org/#!Synapse:syn51669616
 - Destination: under Data => Files in your workspace
- Jupyter is not stable and might terminate
 - Just execute it again
 - The code will not repeat the upload process for files that .

Let me know if you have any issue