OSCARS
Open Science Clusters' Action for Research & Society

LAPP
Laboratoire d'Annecy de Physique des Particules

cnrs

UNIVERSITÉ SAVOIE MONT BLANC

Current status and future plans

Funded by the European Union

Current situation

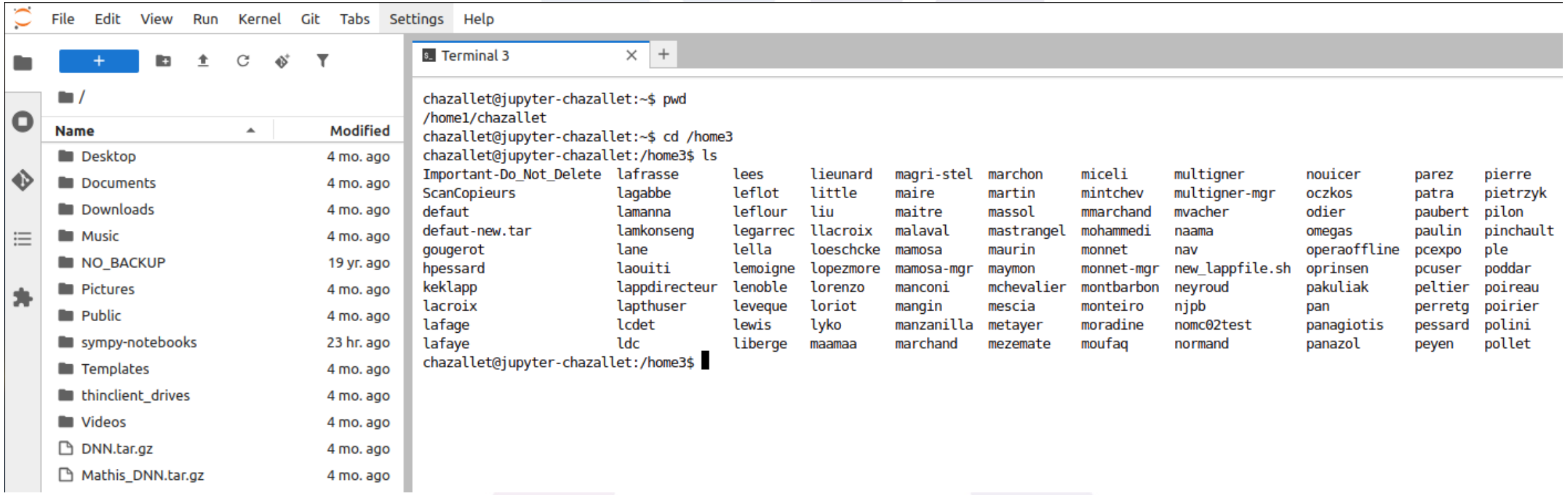
3 instances of VRE deployed at LAPP

https://jupyter.must-dc.cloud/

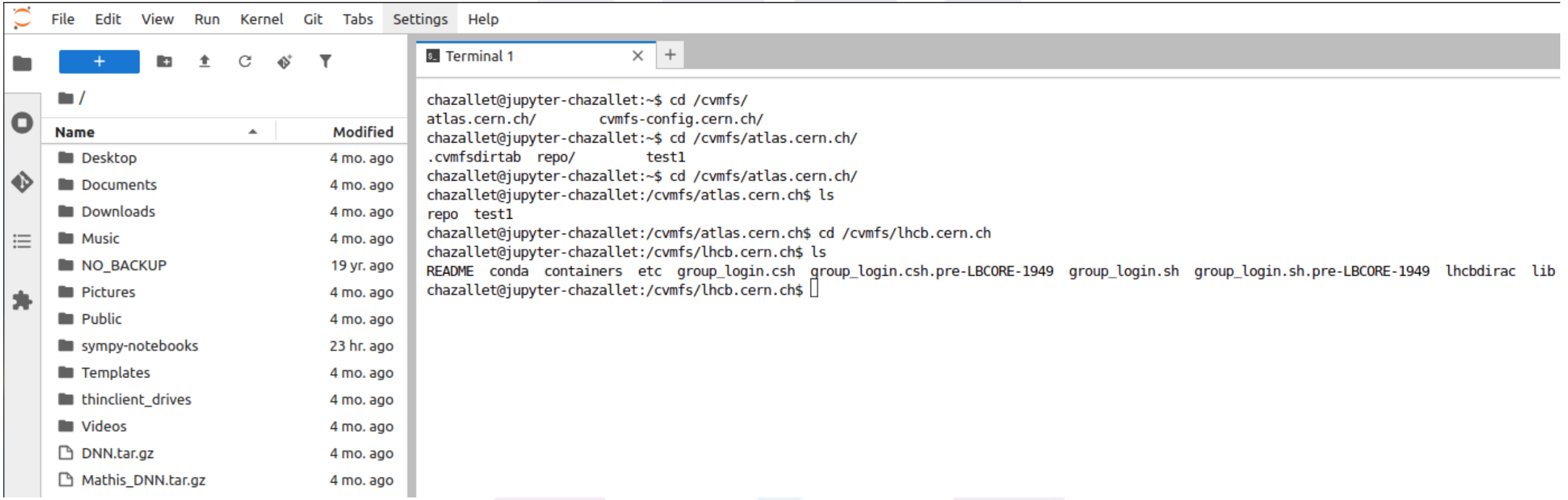
https://eosc-vre.must-dc.cloud/

- 2 for production purpose: **jupyter**, **eosc-vre**
  - jupyter = LAPP VRE, LDAP, a few users
  - eosc-vre = EOSC VRE, IAM
- 1 for testing purpose: jupyter-test

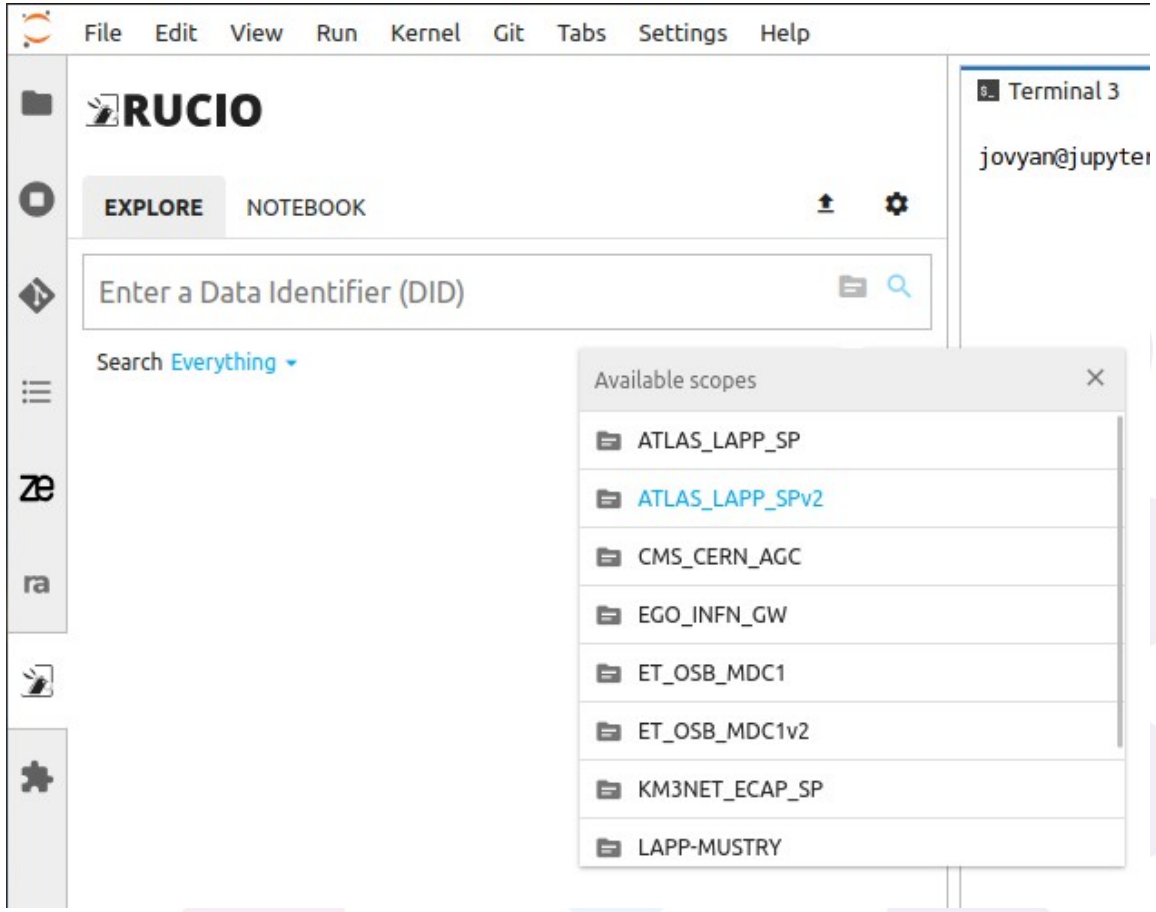
- Currently implementing new features on the test instance so that we can reach production for the LAPP VRE
  - Retrieving automatically user data to get personal user
  - Access to NFS storage
    - /home1, /home3, ...

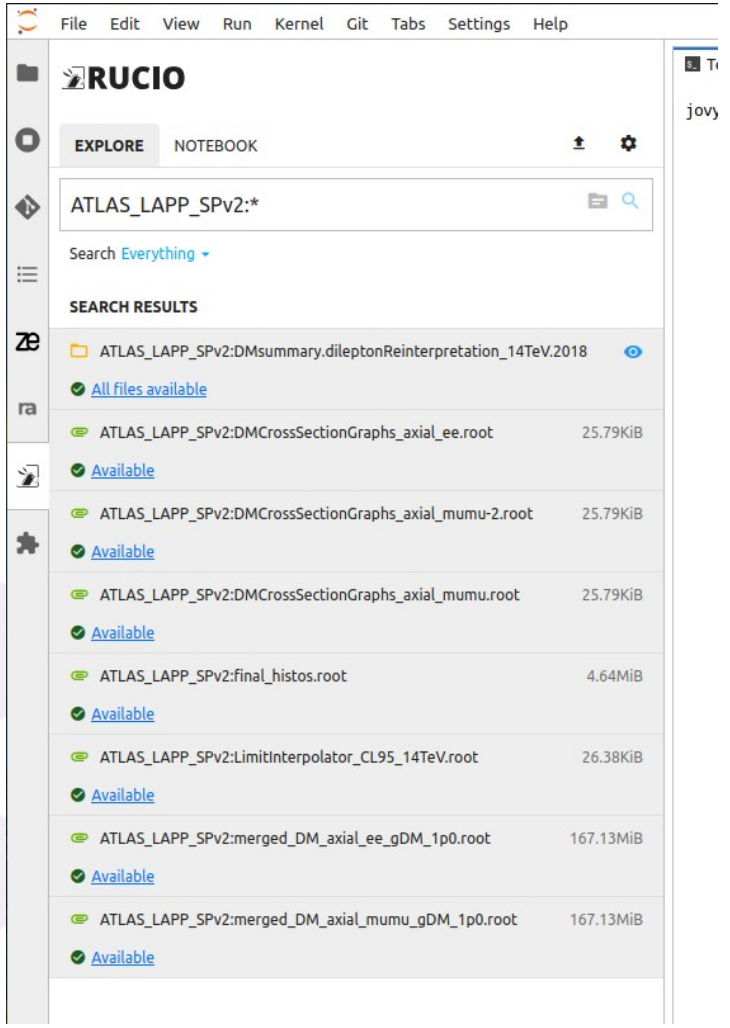


- Access to CVMFS storage
  - CERN tools

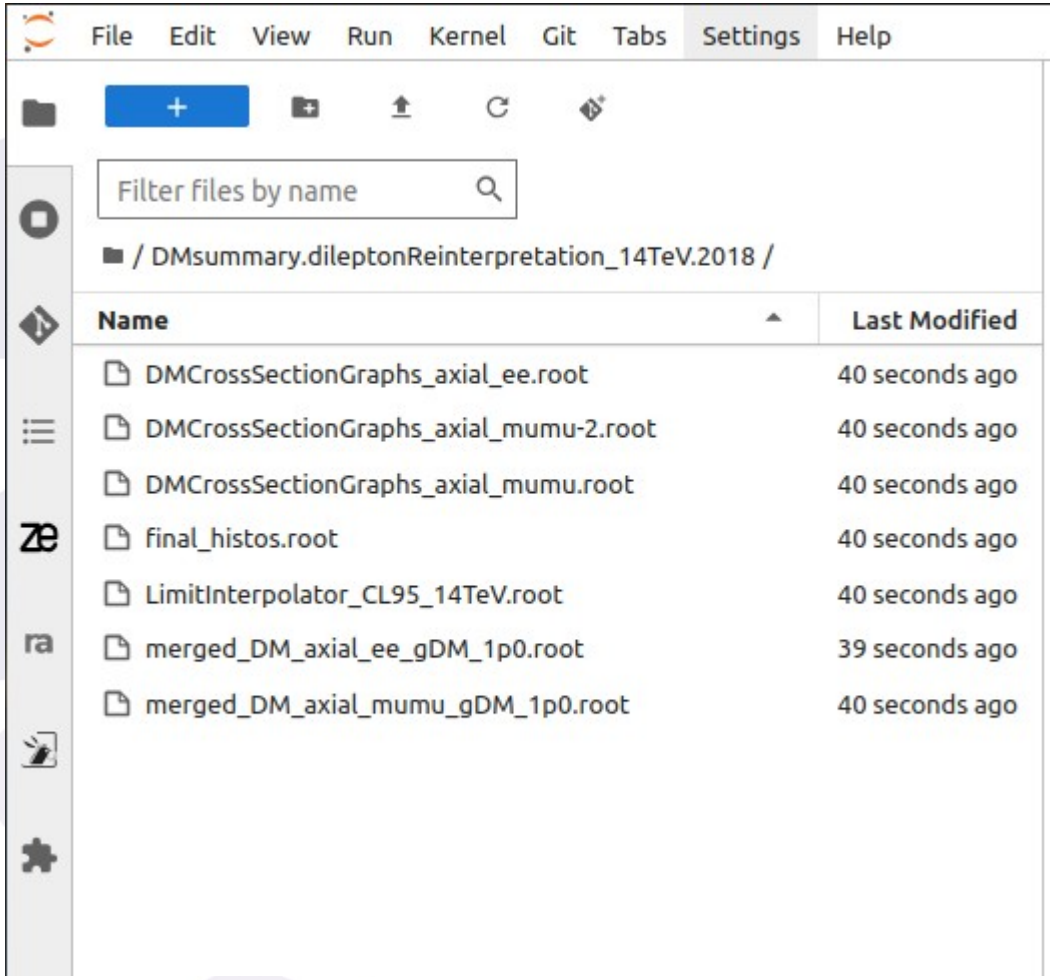


- Access to Rucio data
  - Creation of v2 scopes to make data available once again

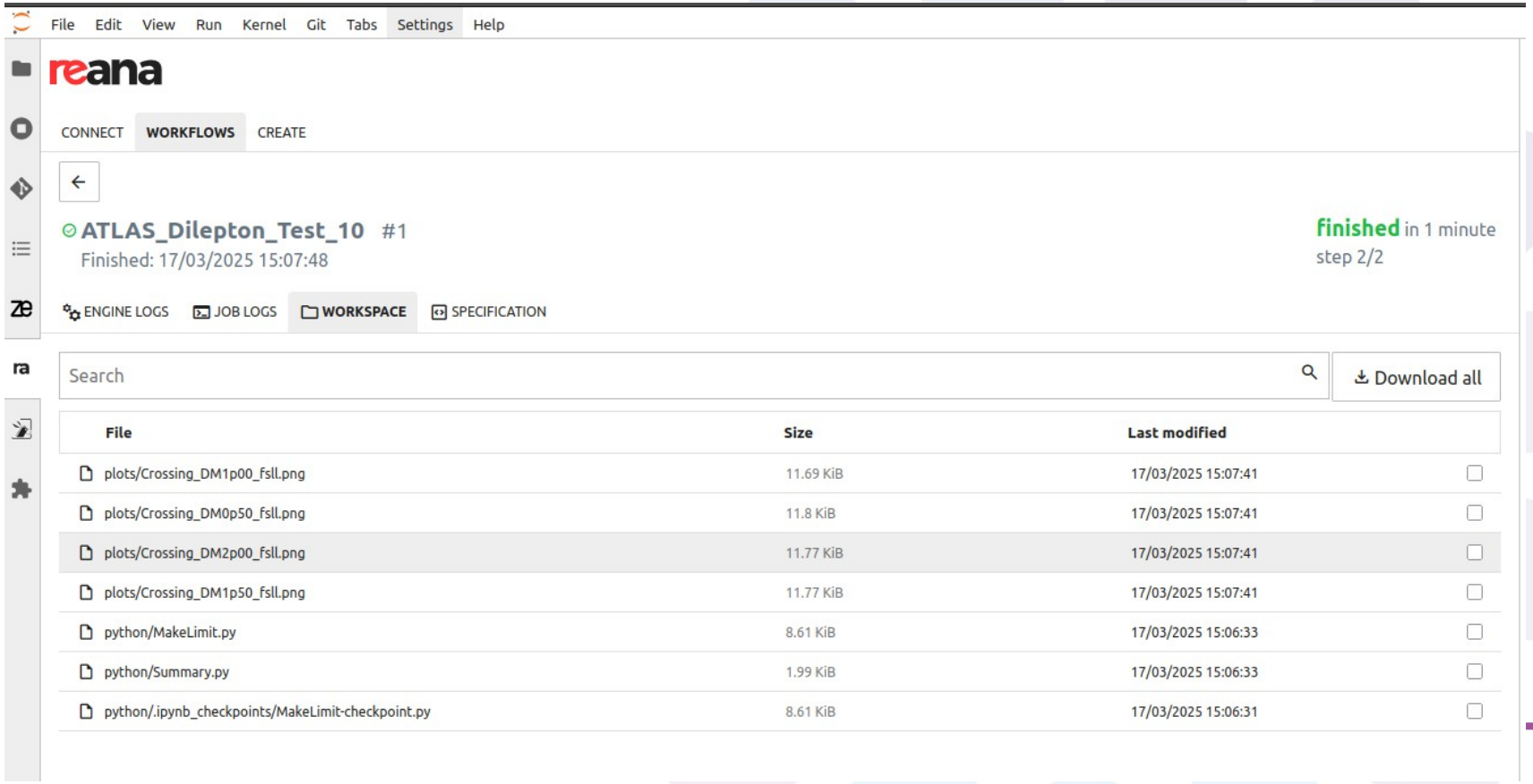


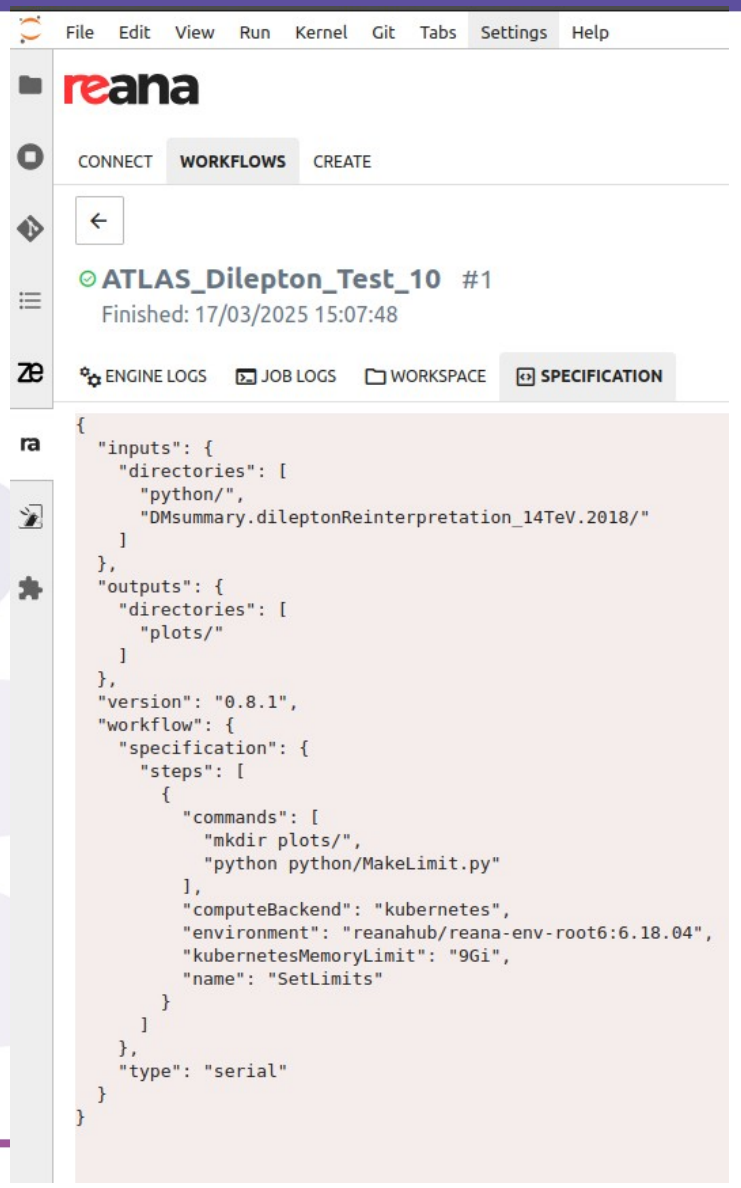


```
----------------------------------
Download summary
----------------------------------------
DID ATLAS_LAPP_SPv2:DMsummary.dileptonReinterpretation_14TeV.2018
Total files (DID):                                7
Total files (filtered):                           7
Downloaded files:                                 7
Files already found locally:                      0
Files that cannot be downloaded:                  0
jovyan@jupyter-chazall:~$
```



- Use of REANA workflow using the downloaded data
  - https://github.com/jared-little/atlas-dilepton/tree/bfb8ab9b99c2eceaf3d80ea53d70f33ceb087526



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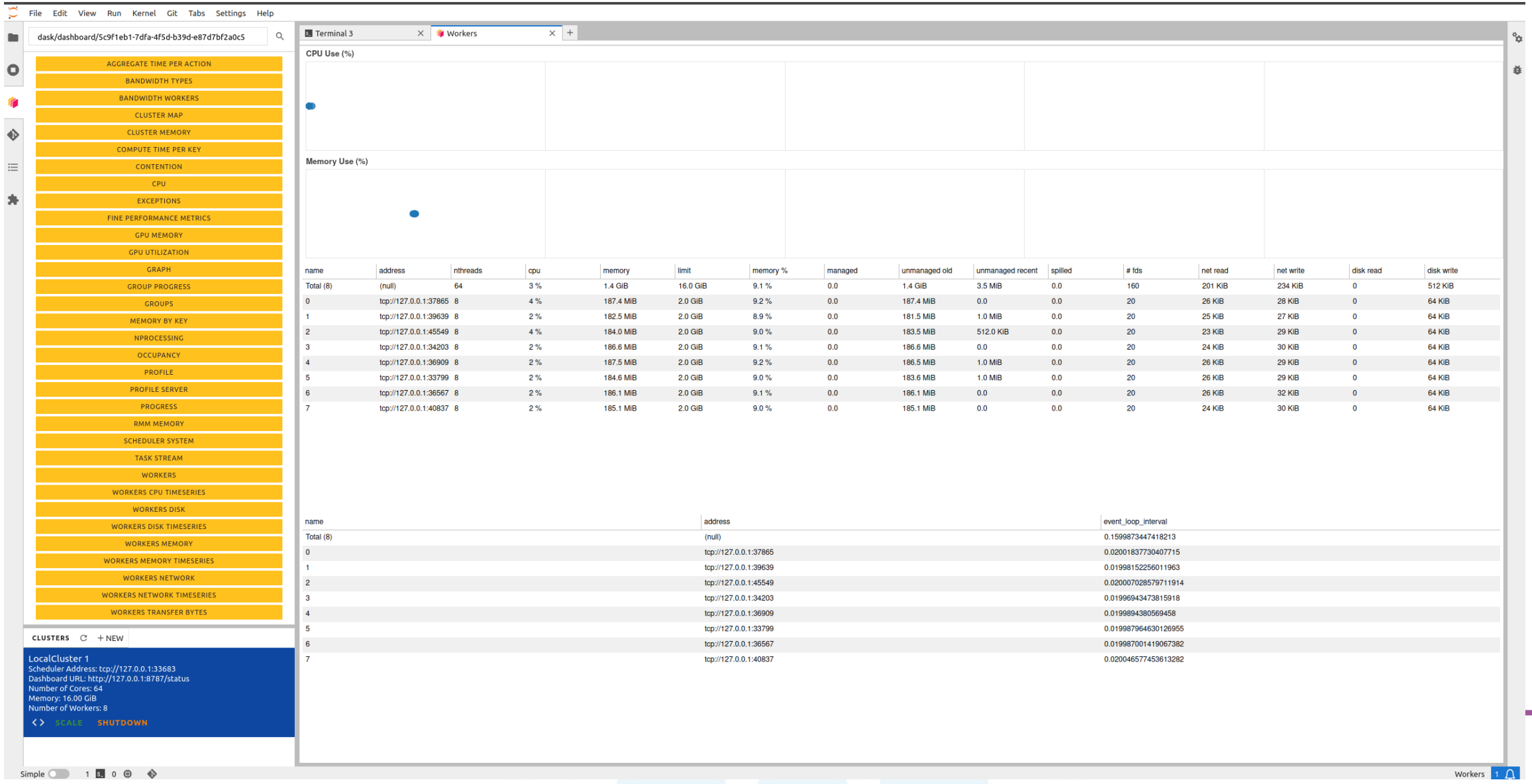
Thank you

Appendix


File Edit View Run Kernel Git Tabs Settings Help
dask/dashboard/5c9f1eb1-7dfa-4f5d-b39d-e87d7bf2a0c5
AGGREGATE TIME PER ACTION
BANDWIDTH TYPES
BANDWIDTH WORKERS
CLUSTER MAP
CLUSTER MEMORY
COMPUTE TIME PER KEY
CONTENTION
CPU
EXCEPTIONS
FINE PERFORMANCE METRICS
GPU MEMORY
GPU UTILIZATION
GRAPH
GROUP PROGRESS
GROUPS
MEMORY BY KEY
NPROCESSING
OCCUPANCY
PROFILE
PROFILE SERVER
PROGRESS
RMM MEMORY
SCHEDULER SYSTEM
TASK STREAM
WORKERS
WORKERS CPU TIMESERIES
WORKERS DISK
WORKERS DISK TIMESERIES
WORKERS MEMORY
WORKERS MEMORY TIMESERIES
WORKERS NETWORK
WORKERS NETWORK TIMESERIES
WORKERS TRANSFER BYTES
CLUSTERS + NEW
LocalCluster 1
Scheduler Address: tcp://127.0.0.1:33683
Dashboard URL: http://127.0.0.1:8787/status
Number of Cores: 64
Memory: 16.00 GiB
Number of Workers: 8
SCALE SHUTDOWN
Terminal 3
Workers
CPU Use (%)
Memory Use (%)
name address nthreads cpu memory limit memory % managed unmanaged old unmanaged recent spilled # fds net read net write disk read disk write
Total (8) (null) 64 3 % 1.4 GiB 16.0 GiB 9.1 % 0.0 1.4 GiB 3.5 MiB 0.0 160 201 KiB 234 KiB 0 512 KiB
0 tcp://127.0.0.1:37865 8 4 % 187.4 MiB 2.0 GiB 9.2 % 0.0 187.4 MiB 0.0 0.0 20 26 KiB 28 KiB 0 64 KiB
1 tcp://127.0.0.1:39639 8 2 % 182.5 MiB 2.0 GiB 8.9 % 0.0 181.5 MiB 1.0 MiB 0.0 20 25 KiB 27 KiB 0 64 KiB
2 tcp://127.0.0.1:45549 8 4 % 184.0 MiB 2.0 GiB 9.0 % 0.0 183.5 MiB 512.0 KiB 0.0 20 23 KiB 29 KiB 0 64 KiB
3 tcp://127.0.0.1:34203 8 2 % 186.6 MiB 2.0 GiB 9.1 % 0.0 186.6 MiB 0.0 0.0 20 24 KiB 30 KiB 0 64 KiB
4 tcp://127.0.0.1:36909 8 2 % 187.5 MiB 2.0 GiB 9.2 % 0.0 186.5 MiB 1.0 MiB 0.0 20 26 KiB 29 KiB 0 64 KiB
5 tcp://127.0.0.1:33799 8 2 % 184.6 MiB 2.0 GiB 9.0 % 0.0 183.6 MiB 1.0 MiB 0.0 20 26 KiB 29 KiB 0 64 KiB
6 tcp://127.0.0.1:36567 8 2 % 186.1 MiB 2.0 GiB 9.1 % 0.0 186.1 MiB 0.0 0.0 20 26 KiB 32 KiB 0 64 KiB
7 tcp://127.0.0.1:40837 8 2 % 185.1 MiB 2.0 GiB 9.0 % 0.0 185.1 MiB 0.0 0.0 20 24 KiB 30 KiB 0 64 KiB
name address event_loop_interval
Total (8) (null) 0.1599873447418213
0 tcp://127.0.0.1:37865 0.02001837730407715
1 tcp://127.0.0.1:39639 0.01998152256011963
2 tcp://127.0.0.1:45549 0.020007028579711914
3 tcp://127.0.0.1:34203 0.01996943473815918
4 tcp://127.0.0.1:36909 0.0199894380569458
5 tcp://127.0.0.1:33799 0.019987964630126955
6 tcp://127.0.0.1:36567 0.019987001419067382
7 tcp://127.0.0.1:40837 0.020046577453613282
Simple 1 0
Workers 1