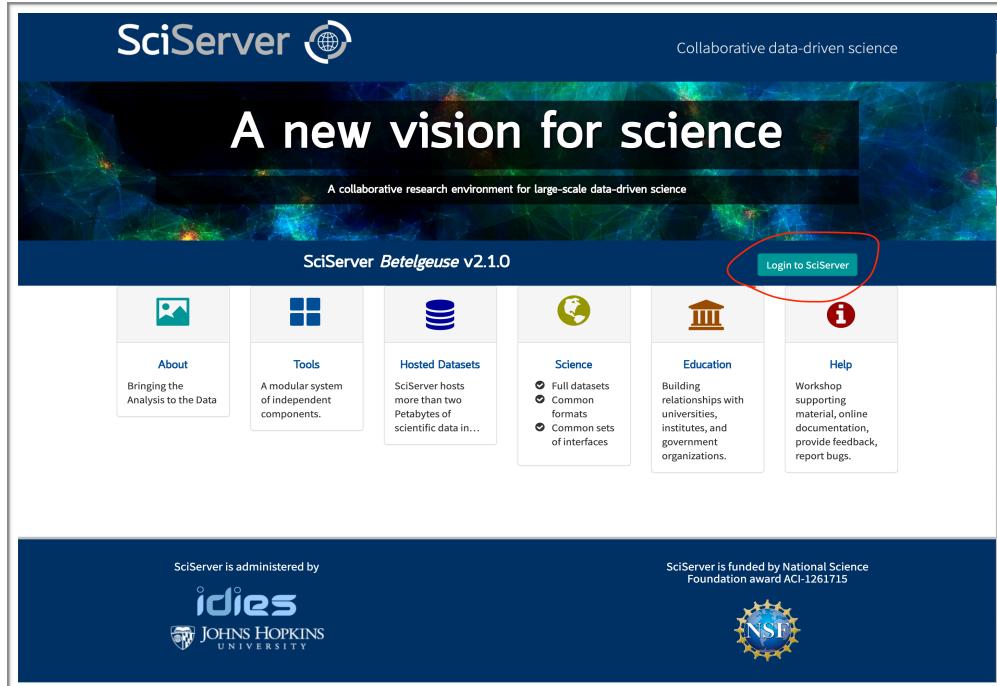
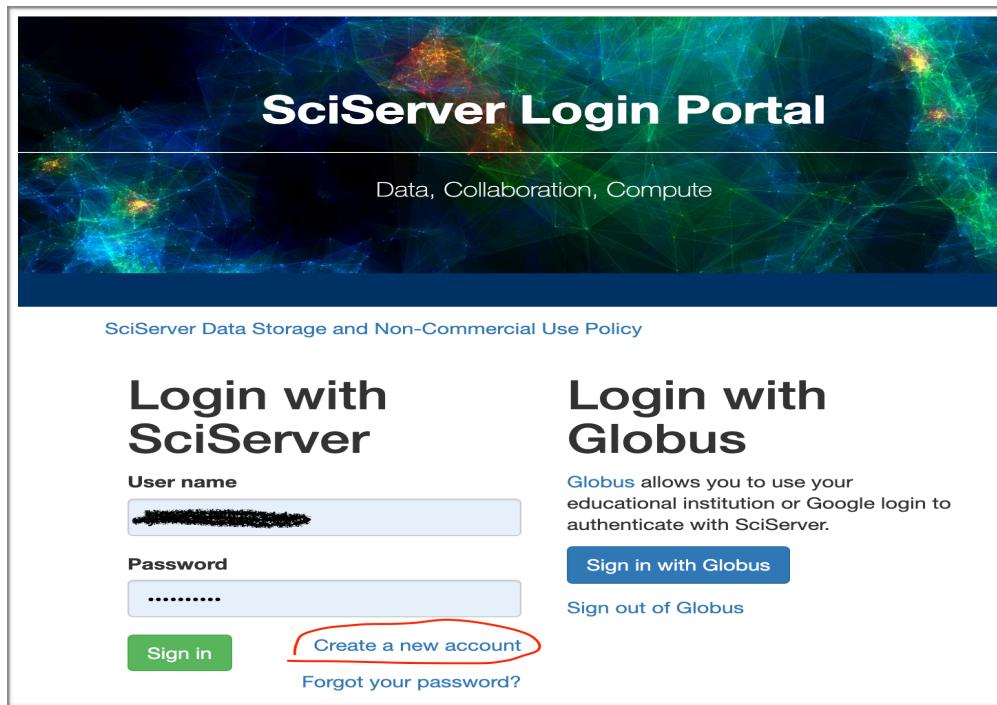


# SciServer Tutorial

1. Go to: <http://www.sciserver.org/> & Click “Login to SciServer”



2. Click “Create a new account” if you don’t have one already.



If you have an existing CasJobs account, you must enter your existing CasJobs username and password combination to access your saved CasJobs data. If you create an account with a different username or password, you will not be able to access your CasJobs data. If you do not have an existing CasJobs account, you may disregard this notice.

**Registration**

By registering you agree to the [SciServer Data Storage and Non-Commercial Use Policy](#).

User name

Email

Password

Confirm password

I have read and understand how to create a new account and migrate an existing CasJobs account to the SciServer Single Sign-on Portal.

**Create account**

SciServer 2.1.0 Login Portal 2.0.0

Powered by:

3. An activation email will be sent to you at the email address you provided during the registration process. **Please activate your new account through the email sent to you before attempting to log in, otherwise your account will be locked.**
4. Once you have completed the steps above, please send us your “User name”, then we can add you to the “LSST\_opSims” group.
5. After we add you to this group, you can see an invitation within Groups on SciServer, you need to accept it. Then you can see the shared “LSST\_opSims” folder

**SciServer Dashboard**

Data, Collaboration, Compute

**Groups** (highlighted with a red arrow)

**SciServer Apps**

- CasJobs**  
Search online big relational databases collections, store the results online, and share them.
- Compute**  
Analyze data with interactive Jupyter notebooks in Python, R and MATLAB.
- Compute Jobs**  
Asynchronously run Jupyter notebooks in Python, R and MATLAB or commands.
- SciDrive**  
Drag-and-drop file hosting and sharing services.
- SkyServer**  
Access the Sloan Digital Sky Survey data, tutorials and educational materials.
- SkyQuery**  
A scalable database system for cross-matching astronomical source catalogs.

Activity Logs

You logged into the Dashboard on 15 Jul 2019 02:54:48 pm.



LSST\_opSims

Group for shared analysis of LSST cadence simulations. See <https://community.lsst.org/t/january-2020-update-fbs-1-4-runs/4006>

You have been invited to join this group created by gtr.

[Accept Invitation](#) [Decline Invitation](#)



Groups +

Filter...

- Astroinformatics2018-Students
- DRAGN
- Drexel LSST
- LSST\_opSims [Leave group](#)

LSST\_opSims

Group for shared analysis of LSST cadence simulations. See <https://community.lsst.org/t/january-2020-update-fbs-1-4-runs/4006>

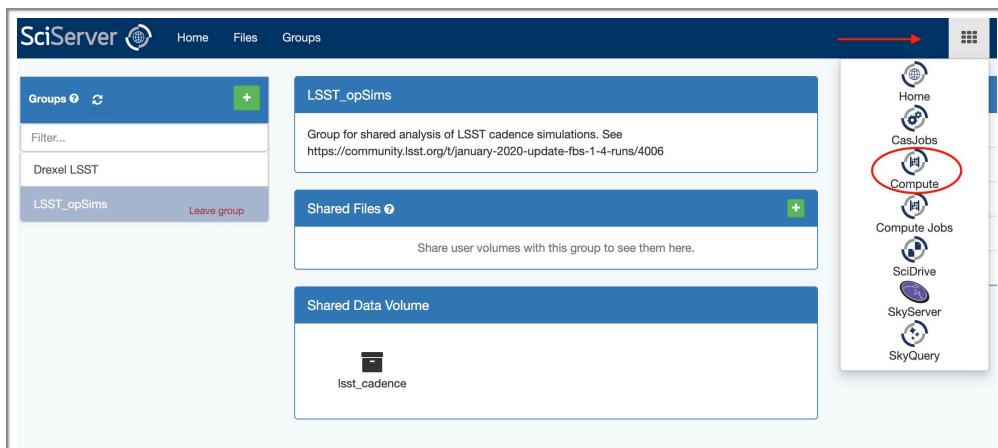
Shared Files +

Share user volumes with this group to see them here.

Shared Data Volume

lsst\_cadence

6. Next, if you want to work with the data on SciServer, you need to start a new container from Compute and mount the shared volume. To access Compute, click the third icon from the right on the top menu and click Compute.



SciServer

Home Files Groups

Groups +

Filter...

- Drexel LSST
- LSST\_opSims [Leave group](#)

LSST\_opSims

Group for shared analysis of LSST cadence simulations. See <https://community.lsst.org/t/january-2020-update-fbs-1-4-runs/4006>

Shared Files +

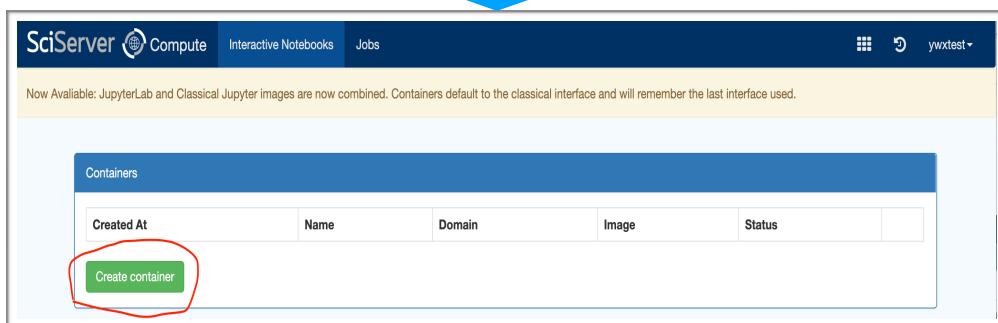
Share user volumes with this group to see them here.

Shared Data Volume

lsst\_cadence

Compute

Home CasJobs Compute Compute Jobs SciDrive SciServer SkyQuery

SciServer Compute Interactive Notebooks Jobs

Now Available: JupyterLab and Classical Jupyter images are now combined. Containers default to the classical interface and will remember the last interface used.

Containers

Created At	Name	Domain	Image	Status

[Create container](#)

**Note:**

- 1) You need to select “LSST Simulations” from “Compute Image”
- 2) The box next to ‘LSST Cadence Simulations’ under “Data volumes” has to be checked, otherwise you won’t see the shared files in the Jupyter environment.

**Create a new container**

**Container name**  
LSST Cadence

**Domain**  
Interactive Docker Compute Domain

Shared Intel Xeon E7 systems. All containers are limited to 100GiB of RAM. Unused containers are shut down after 3 days.

**Compute Image ?**

LSST Simulations 

LSST Simulations

**User volumes**  All

AGN\_training, Storage Volume created by ywx649999311  
 Lessons for Astroinformatics 2018, Storage Volume created by eford  
 Shared Space for Astroinformatics 2018 Participants, Storage Volume created by eford  
 mtaghiza\_crossMatchGordon, Storage Volume created by mtaghiza  
 persistent, Storage Volume created by ywx649999311  
 scratch, Temporary Volume created by ywx649999311

**Data volumes ?**  All

Getting Started  
 LSST Cadence Simulations [W]   
 Manga  
 Ocean Circulation  
 Recount  
 SDSS DAS

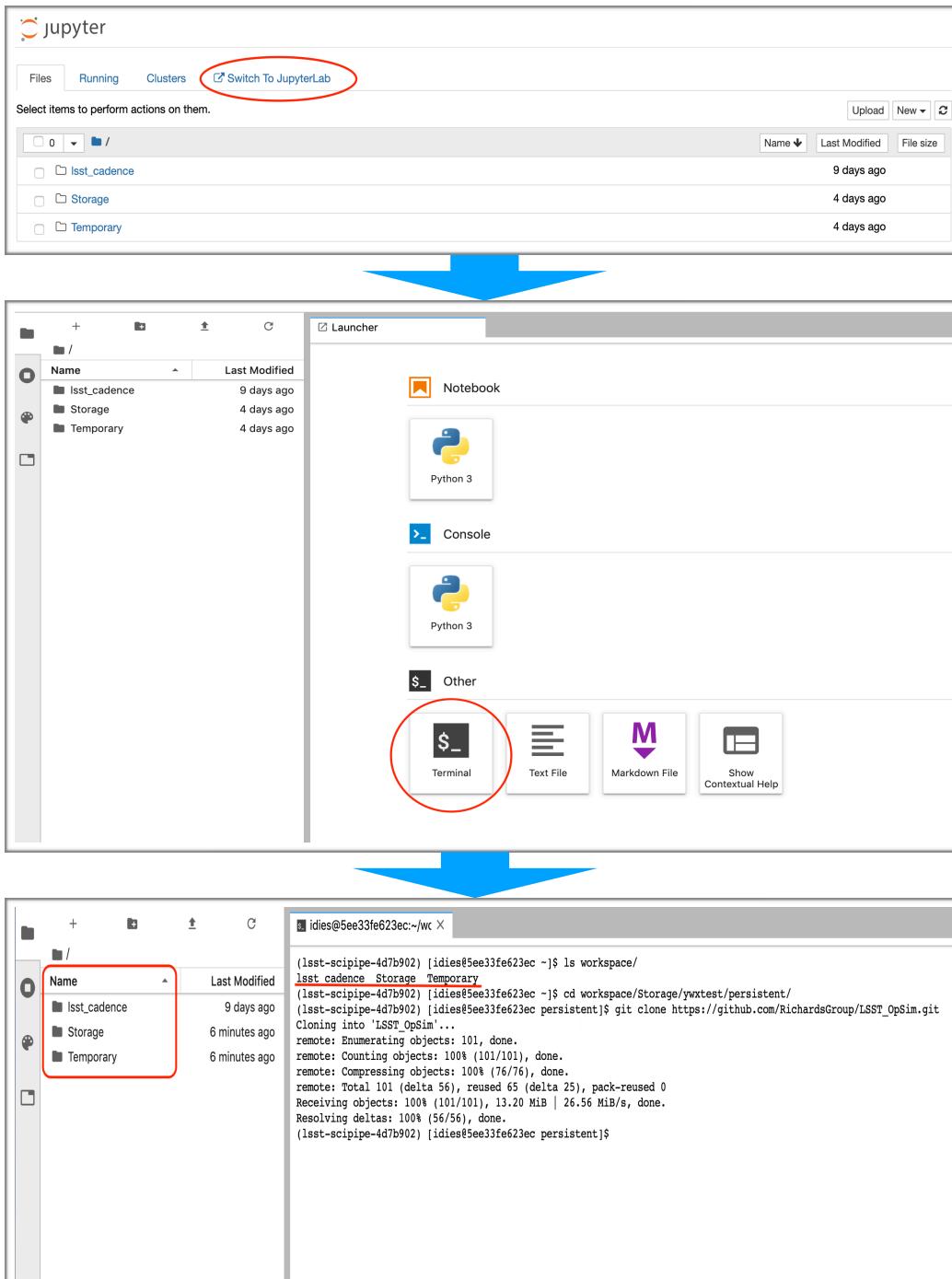
**Create**

7. Once the container is created, click the name of the container to open up the Jupyter environment in a new browser tab.

Containers						
Created At	Name	Domain	Image	Status		
2020-02-17 13:56:08.0	LSST Cadence	Interactive	LSST Simulations	running	  	
2019-10-02 17:18:35.0	LSST AGN	Interactive	Python + R	stopped	  	
<a href="#">Create container</a>						

8. Next, open a new terminal from the Jupyter launcher, navigate to your persistent folder under “/home/ides/workspace/Storage/{username}”, clone the repository: [https://github.com/RichardsGroup/LSST\\_OpSim](https://github.com/RichardsGroup/LSST_OpSim). The set of commands which you need to execute once you opened a new terminal is (a screenshot is also attached):

- ls workspace/
- cd ~/workspace/Storage/{username}/persistent/
- git clone https://github.com/RichardsGroup/LSST\_OpSim.git



In the screenshot right above, you can see that the directories boxed match the output of “ls workspace” (underlined). Thus we navigate to the folder of the repository we just clone using the directory explorer on the left.

- Once you are in the folder of the cloned repository, you can right click the README.md file to open it in markdown preview. More detailed descriptions about that github repo can be found there. Or you can just start with the “Introduction.ipynb” notebook in the “Scripts\_NB” folder

