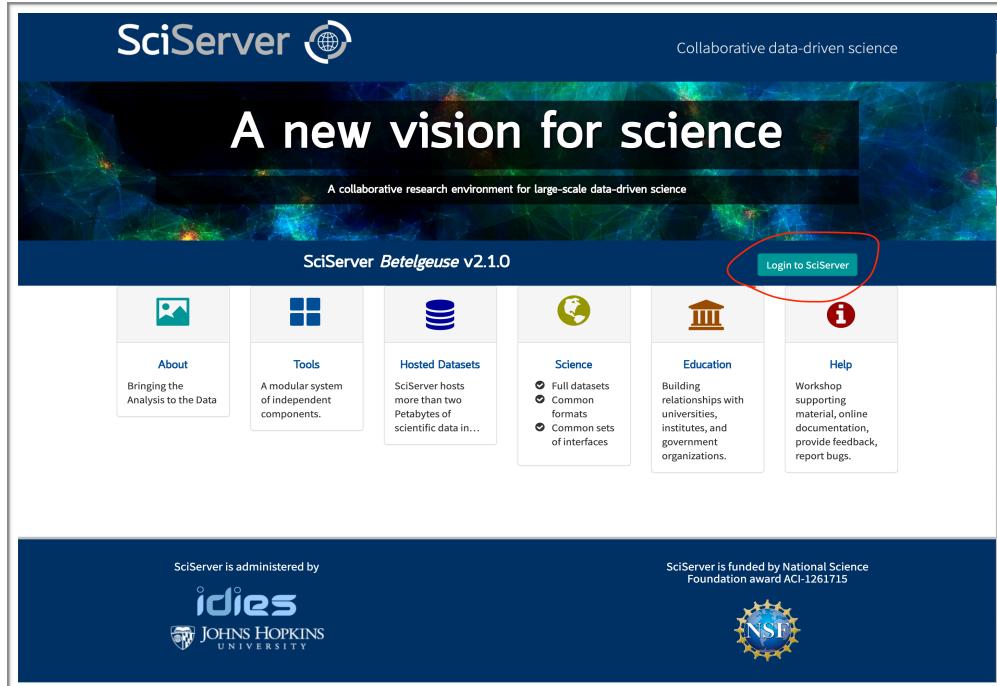
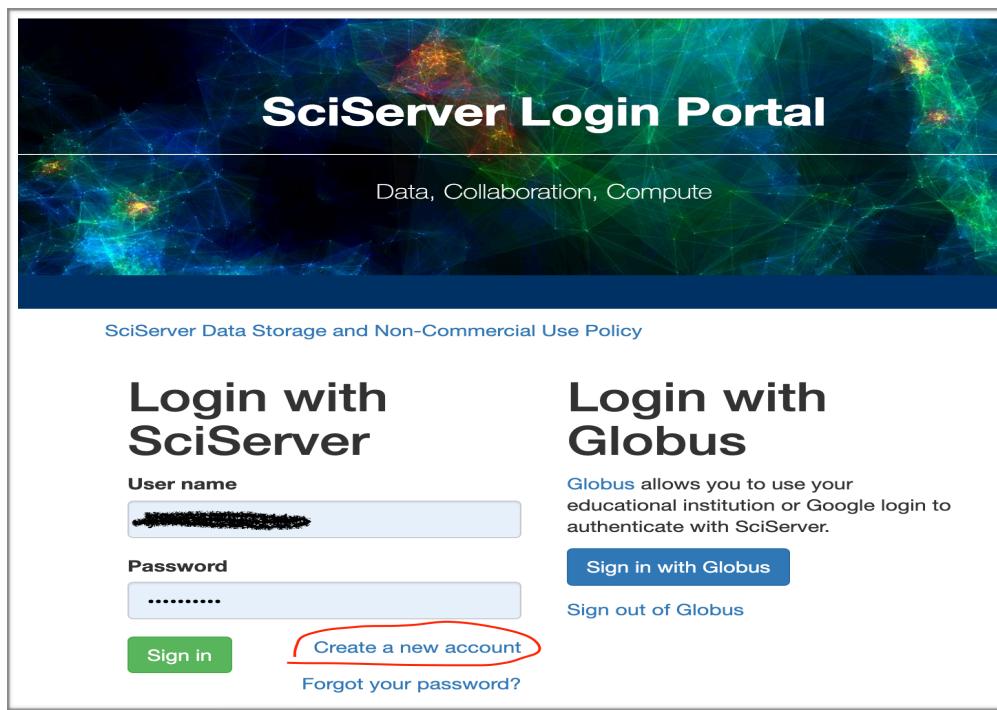


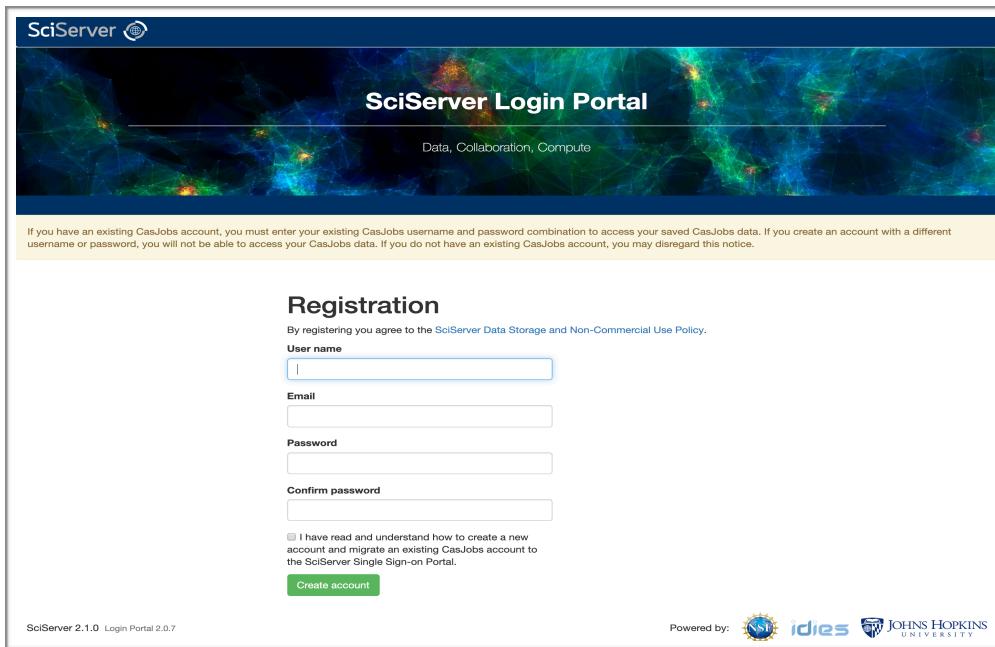
SciServer Tutorial

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



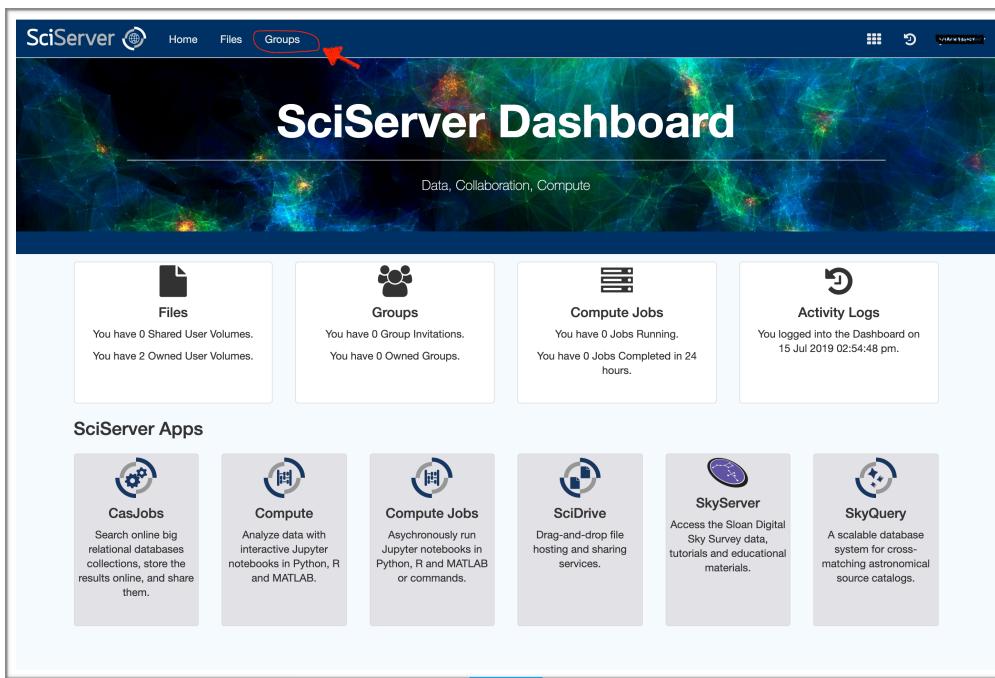
2. Click “Create a new account” if you don’t have one already.





The SciServer Login Portal registration page features a dark blue header with the SciServer logo and a banner image of a complex network or galaxy. Below the banner, a message states: "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." The main form is titled "Registration" and includes fields for "User name", "Email", "Password", and "Confirm password". A checkbox for accepting the "SciServer Data Storage and Non-Commercial Use Policy" is present, along with a "Create account" button. At the bottom, it says "SciServer 2.1.0 Login Portal 2.0.0" and "Powered by:

3. An activation email will be sent to you at the email address you provided during the registration process.
4. Once you have completed the steps above, please send us your “User name”, then we can add you to our group.
5. After we add you to our group, you can see an invitation within Groups on SciServer, you need to accept it. Then you can see the shared “AGN_training” folder



The SciServer Dashboard page has a dark blue header with the SciServer logo and a banner image. The "Groups" tab is highlighted with a red arrow. Below the header, there are four cards: "Files", "Groups", "Compute Jobs", and "Activity Logs". Under "SciServer Apps", there are six cards: "CasJobs", "Compute", "Compute Jobs", "SciDrive", "SkyServer", and "SkyQuery". A large blue downward-pointing arrow is positioned below the dashboard.

The screenshot shows the SciServer Groups page. A blue arrow points down from the top of the page to the bottom of the first screenshot. On the left, there's a sidebar with 'Groups' and a search bar. In the center, the 'Drexel LSST' group is listed with the description 'Group for LSST work centered at Drexel'. At the bottom, there are 'Accept Invitation' and 'Decline Invitation' buttons.

The screenshot shows the SciServer Groups page after accepting the invitation. The 'Shared Files' section contains a folder named 'AGN_training', which is circled in red.

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.

The screenshot shows the SciServer Groups page again. A red arrow points to the 'Compute' icon in the top right corner of the interface. The sidebar and main content area are similar to the previous screenshot.

The screenshot shows the SciServer Compute page. A blue arrow points down from the top of the page to the bottom of the second screenshot. The page has tabs for 'Compute', 'Interactive Notebooks', and 'Jobs'. A message at the top says 'Now Available: JupyterLab and Classical Jupyter images are now combined. Containers default to the classical interface and will remember the last interface used.' Below is a table for 'Containers' with columns: Created At, Name, Domain, Image, and Status. A green 'Create container' button is highlighted with a red circle.

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	  	
Create container						

8. Next, navigate to your persistent folder under “/home/ides/workspace/Storage/{username}/“, clone the repository: https://github.com/RichardsGroup/LSST_OpSim, and proceed from there. The image below shows the path to Weixiang Yu’s persistent folder, please replace ‘ywx649999311’ with your own SciServer username.

```
[ides@a701dbeccf46 persistent]$ pwd  
/home/ides/workspace/Storage/ywx649999311/persistent
```