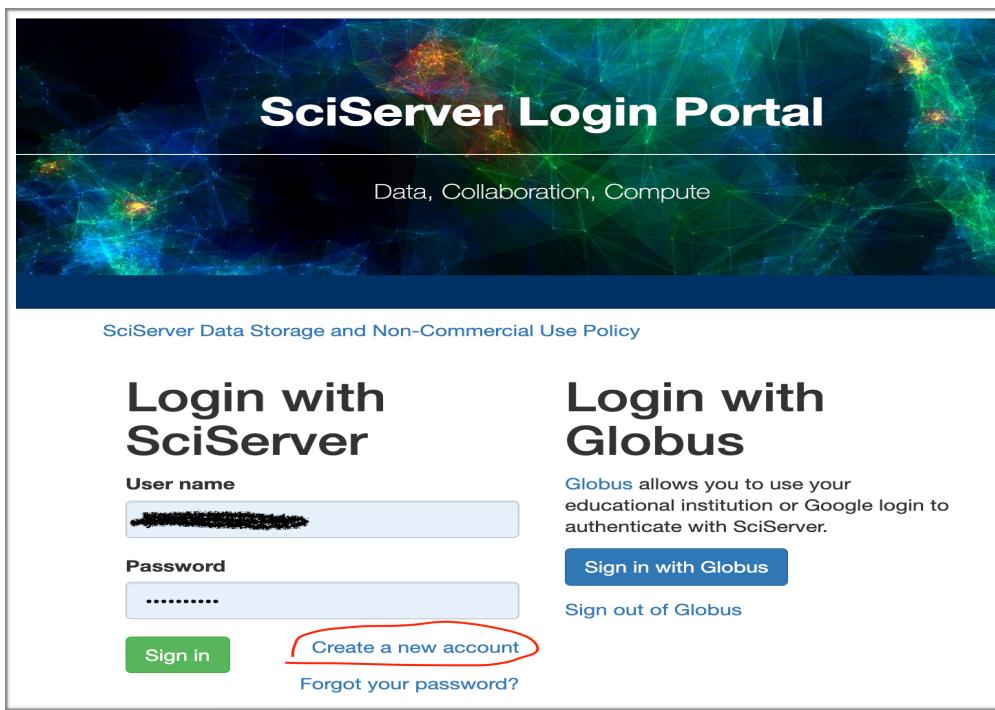


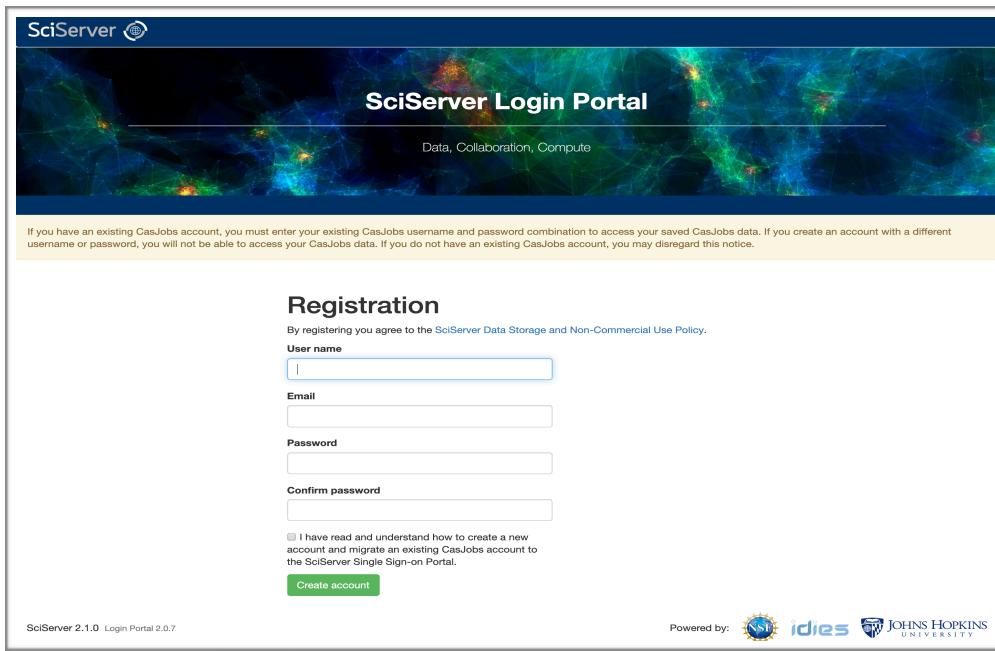
# SciServer Tutorial

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



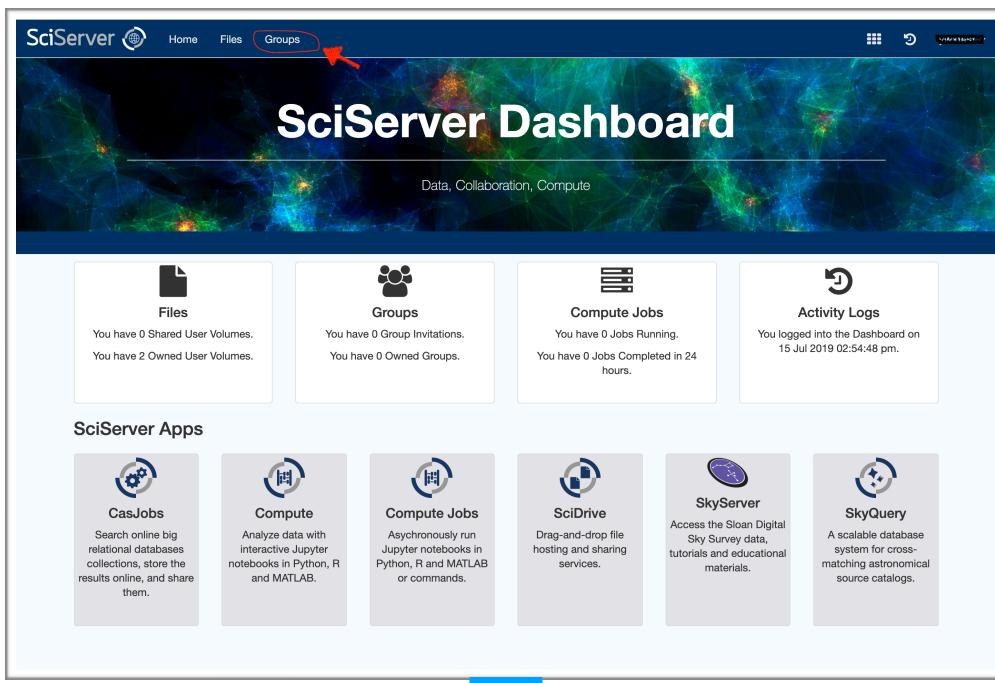
2. Click “Create a new account” if you don’t have one already.





The SciServer Login Portal registration page features a dark blue header with the SciServer logo and a "SciServer Login Portal" title. Below the header is a banner with a network-like background and the text "Data, Collaboration, Compute". A yellow notice bar at the top 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 area is titled "Registration" and includes fields for "User name", "Email", "Password", and "Confirm password". There is also a checkbox for accepting the "SciServer Data Storage and Non-Commercial Use Policy" and a "Create account" button. At the bottom, it says "SciServer 2.1.0 Login Portal 2.0.0" and "Powered by: NSIC idies JOHNS HOPKINS UNIVERSITY".

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
5. your "User name", then we can add you to our group.
6. 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 features a dark blue header with the SciServer logo and a "SciServer Dashboard" title. Below the header is a banner with a network-like background and the text "Data, Collaboration, Compute". The "Groups" tab is highlighted with a red arrow. The main content area includes sections for "Files", "Groups", "Compute Jobs", and "Activity Logs". Below this is a "SciServer Apps" section with icons for CasJobs, Compute, Compute Jobs, SciDrive, SkyServer, and SkyQuery. A large blue downward arrow is positioned at the bottom of the dashboard area.

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 main area, there's a card for 'Drexel LSST' with the subtext 'Group for LSST work centered at Drexel'. Below it, a message says 'You have been invited to join this group created by gtr.' with 'Accept Invitation' and 'Decline Invitation' buttons.

The screenshot shows the SciServer Groups page after accepting the invitation. The 'Leave group' button has changed to 'Leave group'. In the main area, there's a card for 'Shared Files' with a sub-section for 'Drexel LSST'. Inside this section, a folder icon labeled 'AGN\_training' is circled in red.

7. 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 third icon from the right in the top navigation bar, which is the 'Compute' icon. To its right is a vertical sidebar with icons for Home, CasJobs, Compute (circled in red), Compute Jobs, SciDrive, SkyServer, and SkyQuery. The 'OWNER' and 'ADMIN' sections are also visible.

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. At the top, it says 'Now Available: JupyterLab and Classical Jupyter images are now combined. Containers default to the classical interface and will remember the last interface used.' The main area is titled 'Containers' and contains a table with columns 'Created At', 'Name', 'Domain', 'Image', and 'Status'. A green 'Create container' button is circled in red at the bottom of the table.

## Note:

- 1) You need to select ‘SciServer Essentials’ from “Compute Image”, (there are a lot of options, not guaranteed that every image has the compatible python version installed).
- 2) The box next to ‘AGN\_training, Storage Volume created by ywx649999311’ under “User volumes” has to be checked, otherwise you won’t see the shared files in the Jupyter environment.

**Create a new container**

**Container name**  
LSST AGN Training

**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** ?

SciServer Essentials

Python 3.7, R 3.6.2, TensorFlow 2.0.0, PyTorch 1.4.0

**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

SDSS DR9 Imaging

**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  |  |
| 2019-07-15 15:30:54.0            | LSST AGN | Interactive | Python + R | running |  |
| <a href="#">Create container</a> |          |             |            |         |  |

8. Next, navigate to your persistent folder under “/home/ides/workspace/Storage/{username}/“, clone the repository: [https://github.com/RichardsGroup/LSST\\_training.git](https://github.com/RichardsGroup/LSST_training.git), and proceed from there. The image below shows the path to Weixiang Yu’s persistent folder, please replace ‘yxw649999311’ with your own SciServer username.

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