The New SciServer: Collaborative Tools for Data-Driven Engineering and Science

idies

Johns Hopkins University

What is SciServer?

A system for researchers across multiple domains to host and share datasets, featuring query and analysis tools for collaborative research.

History and Purpose

- Started with SDSS SkyServer
- Goal: quick interactive access to rich content
- Idea: bring the analysis to the data

How to Get Involved

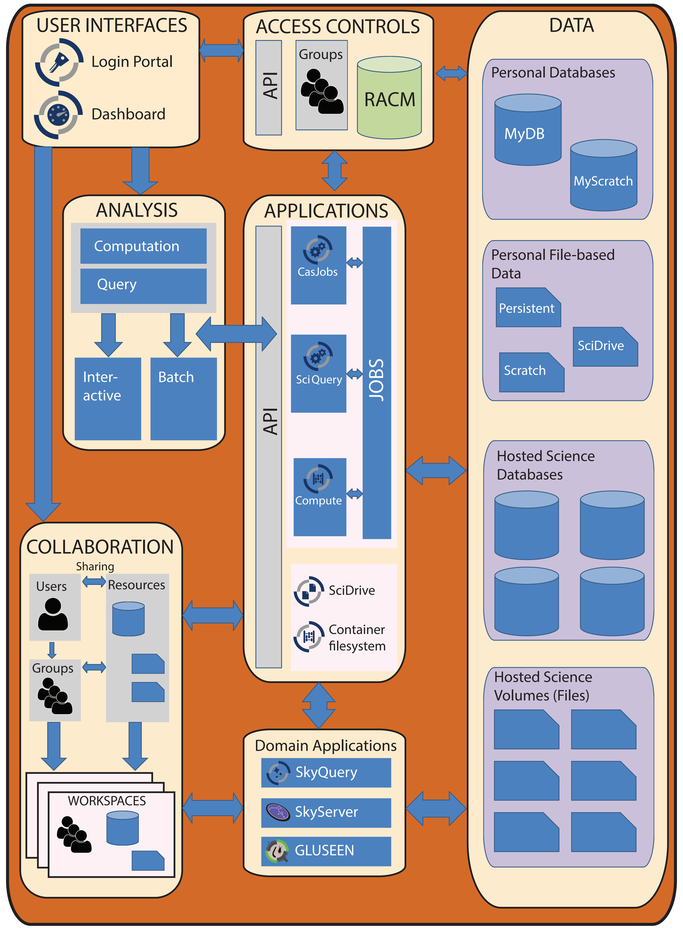
- Use our toolkit (www.sciserver.org)
- Volunteer to be an Early Adopter by emailing sciserver-help@jhu.edu
- Find bugs in our alpha system
- Suggest new features
- Let us help share your data
- Introduce us to other teams with data to share

Team

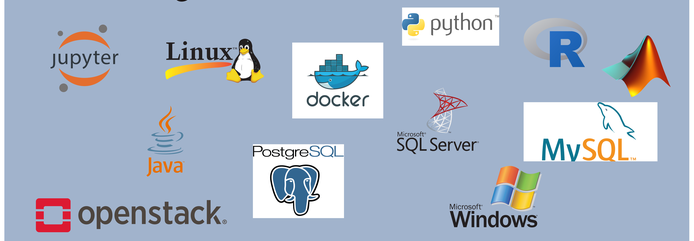
- PI – Alex Szalay
- PM – Mike Rippin
- Team Leads – Ani Thakar, Gerard Lemson, Jordan Raddick, Bonnie Souter
- Technical: Dmitry Medvedev, Manu Popp, Jai Won Kim, Sue Werner, Victor Paul, Jan Vandenberg, Lance Joseph, Alainna White, Laszlo Dobos, Camy Chhetri, Joseph Booker

System Features

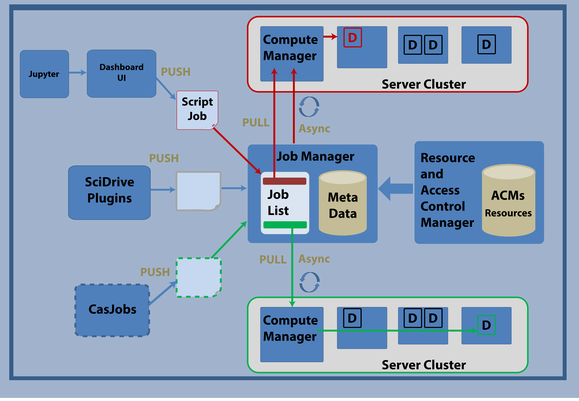
- Science Data Hosting (Files and Databases)
- Query Services
- Data Integration
- Compute Analysis
- Interactive and batch job submission
- Collaborate and Share
- Resource access controls
- Personal Storage (Files and Database)
- Integrate with APIs
- Single Sign-On



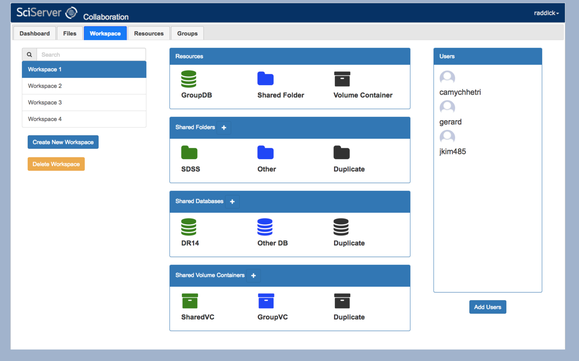
Technologies



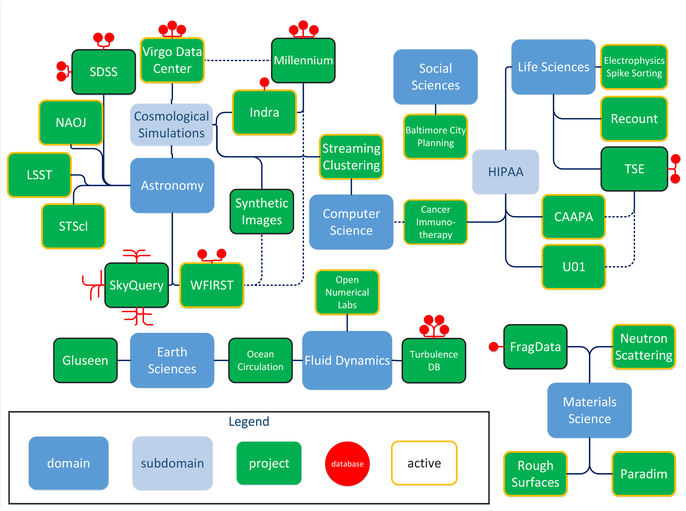
Compute and Query Job Scheduling



Collaborative Workspaces

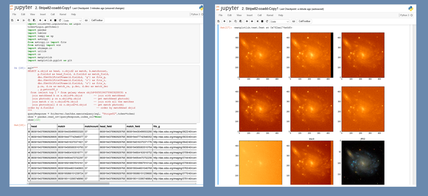


Science Collaborations

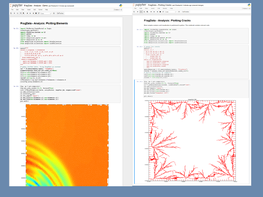


Science Examples

Astronomy



Materials Science



Turbulence