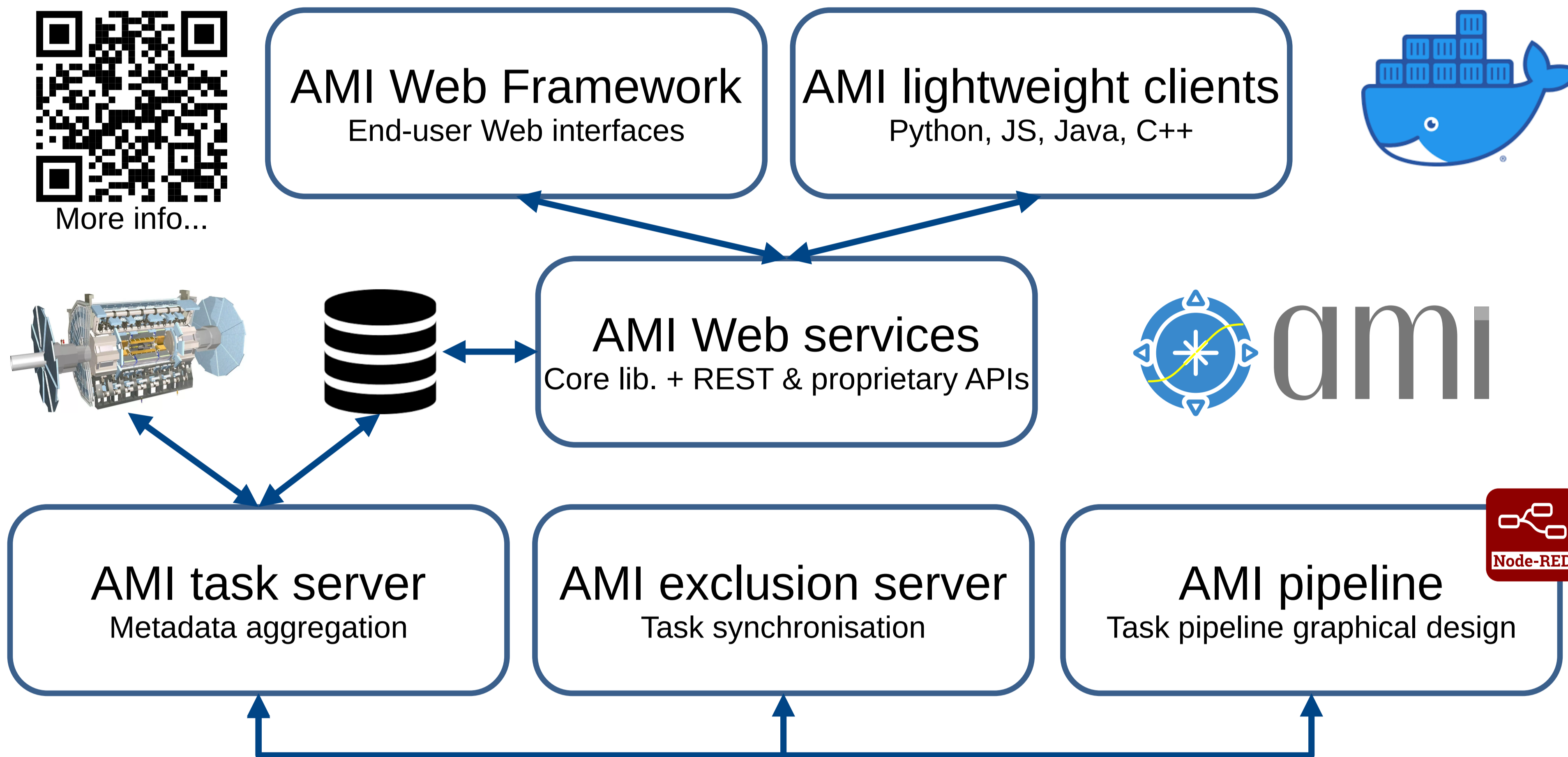


Deploying the AMI¹ ecosystem in a docker environment



ATLAS Metadata Interface (AMI) is a generic ecosystem for metadata aggregation, transformation and cataloging, benefiting from more than 20 years of feedback in the LHC context. AMI provides to ATLAS physicists the official tool to select datasets by criteria.

AMI stack with docker



AMI features

- ➔ **Powerful selection of scientific data by metadata criteria:**
 - ✓ Ready-to-use Web applications
 - ✓ Pluggable to any existing datasources
 - ✓ Distributed task servers to populate metadata catalogs
- ➔ **Designed for Big Data context:**
 - ✓ Easy deployment and scaling with Docker / Kubernetes
- ➔ **Easy administration / configuration:**
 - ✓ Dedicated Web interfaces

Running a demo

```
$ docker compose version
$ git clone https://github.com/ami-team/AMIDemo.git
$ cd AMIDemo
$ docker compose up
```

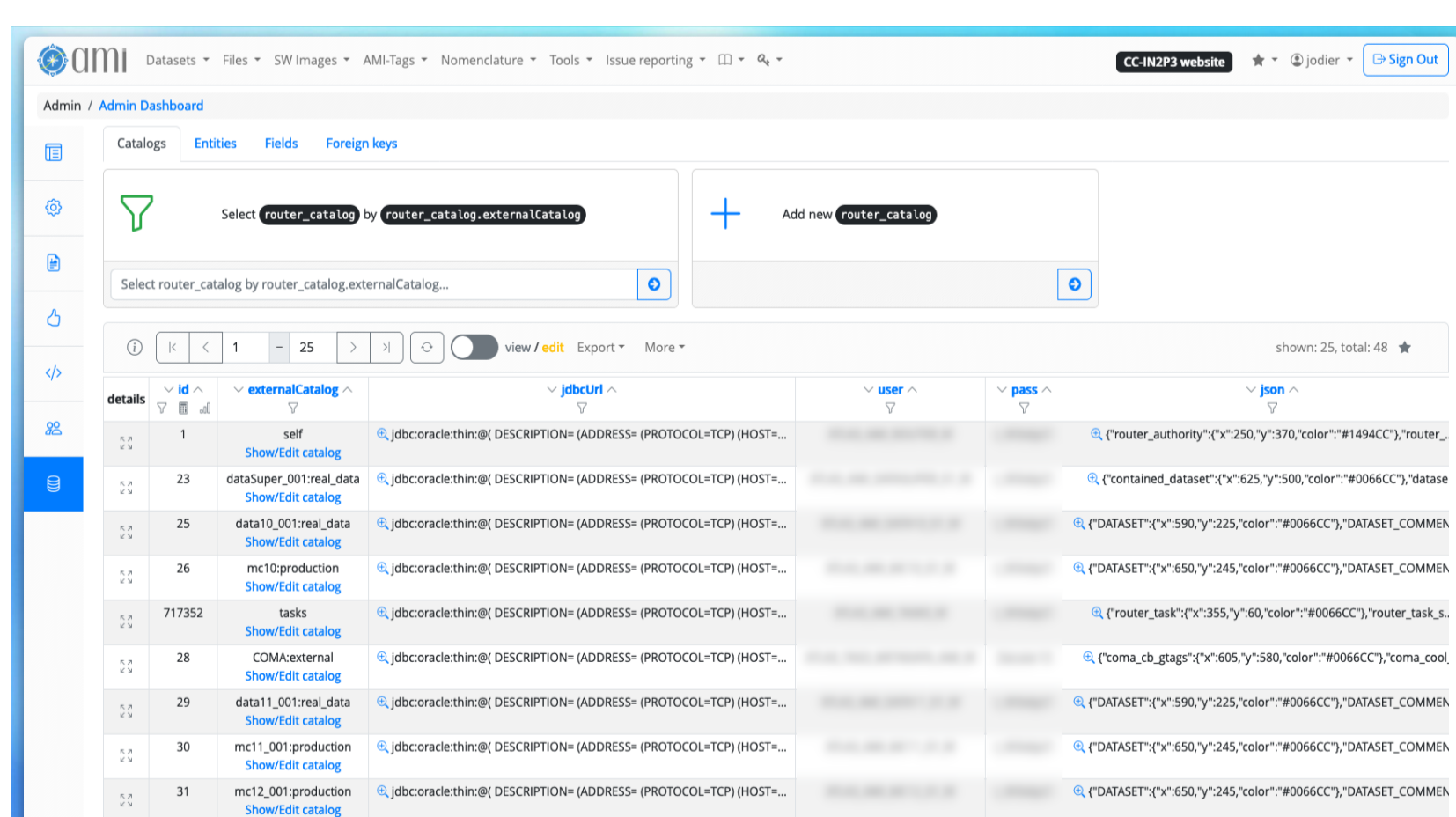


Endpoints

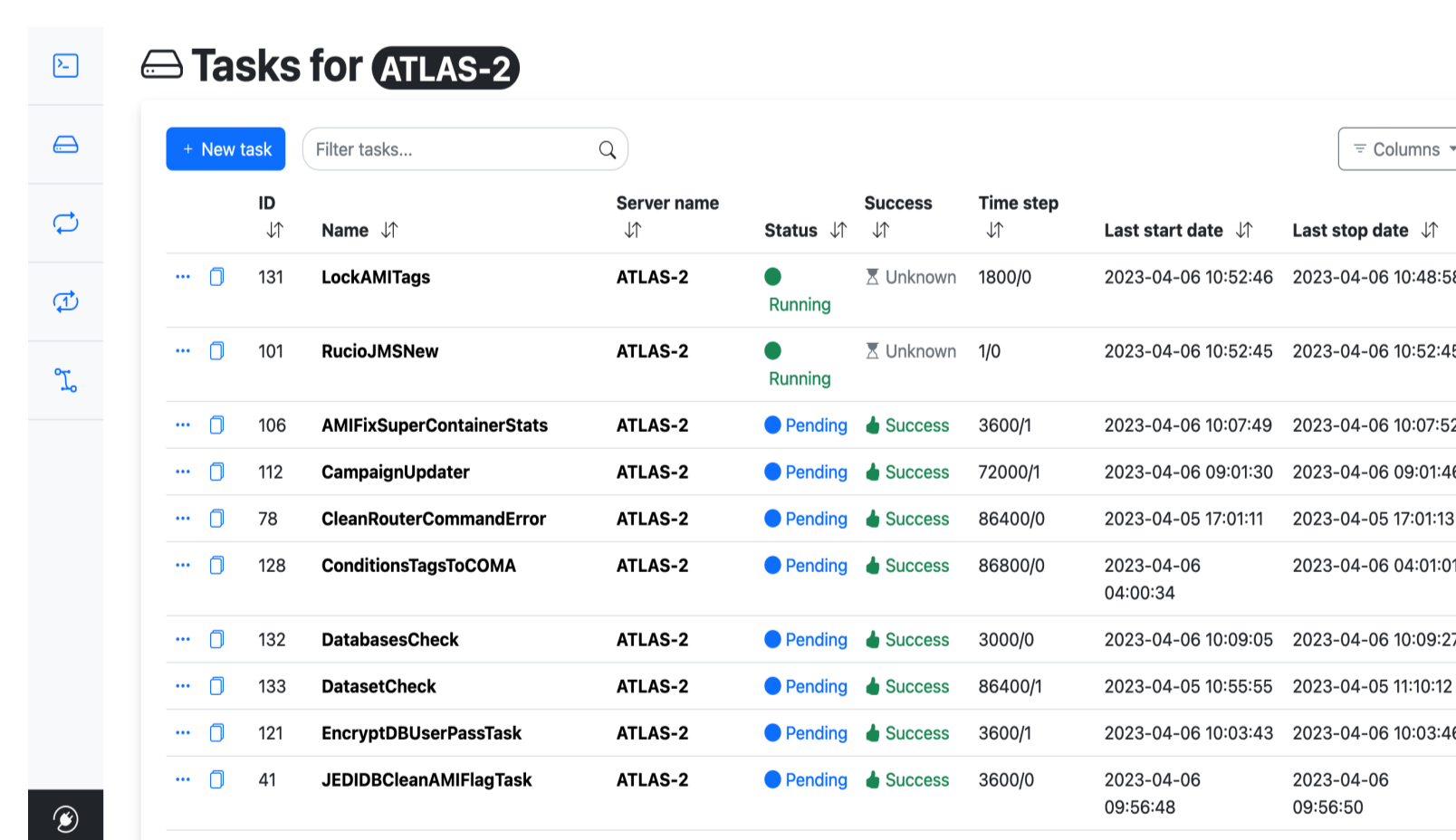
- ➔ Metadata interfaces: <http://localhost:667/> (username: admin, password demo)
- ➔ Pipeline interfaces: <http://localhost:664/>
- ➔ phpMyAdmin interfaces: <http://localhost:661/> (username: root, password root)

Get started: aggregating

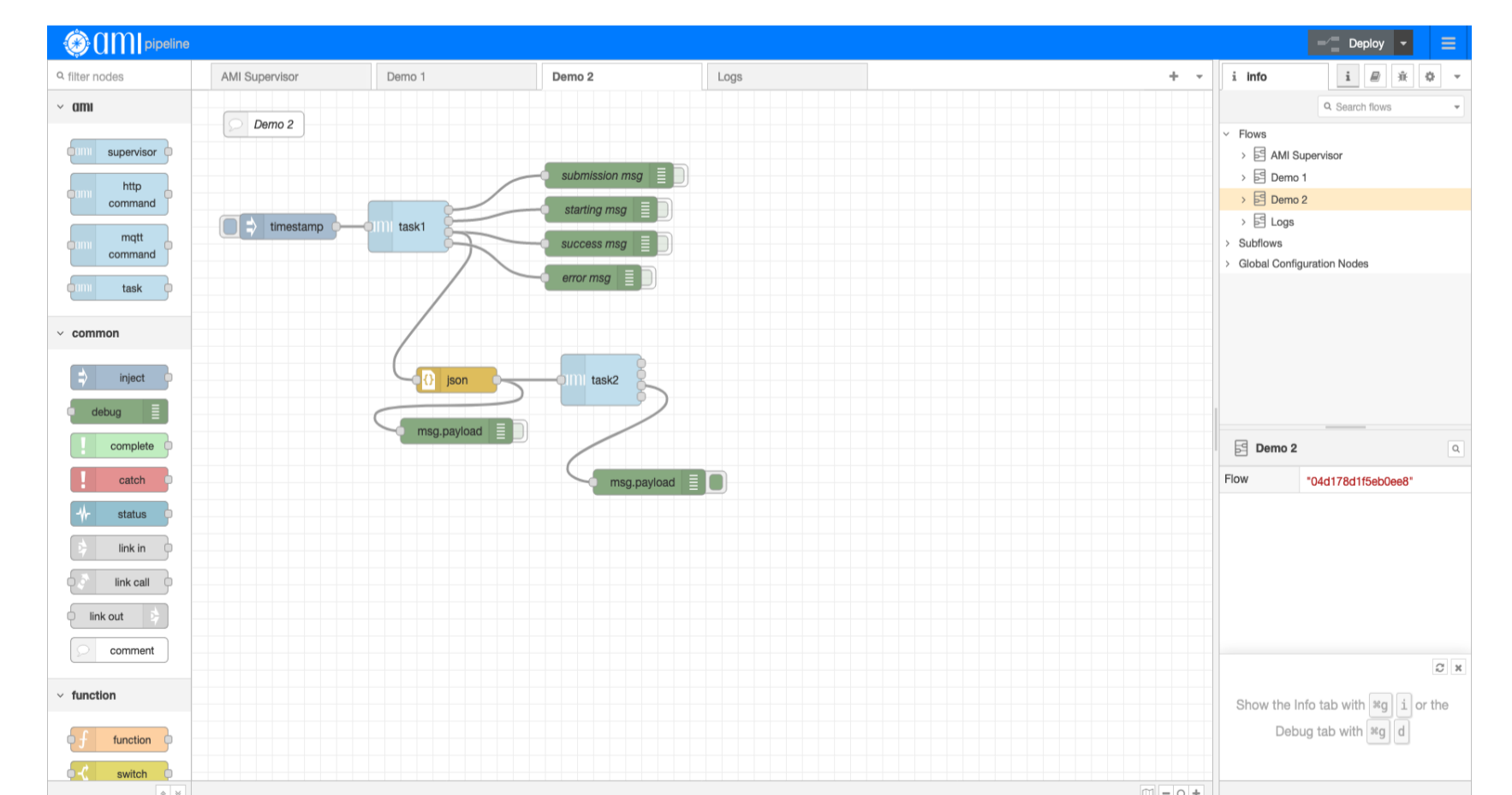
Registering a catalog



Defining aggregation tasks

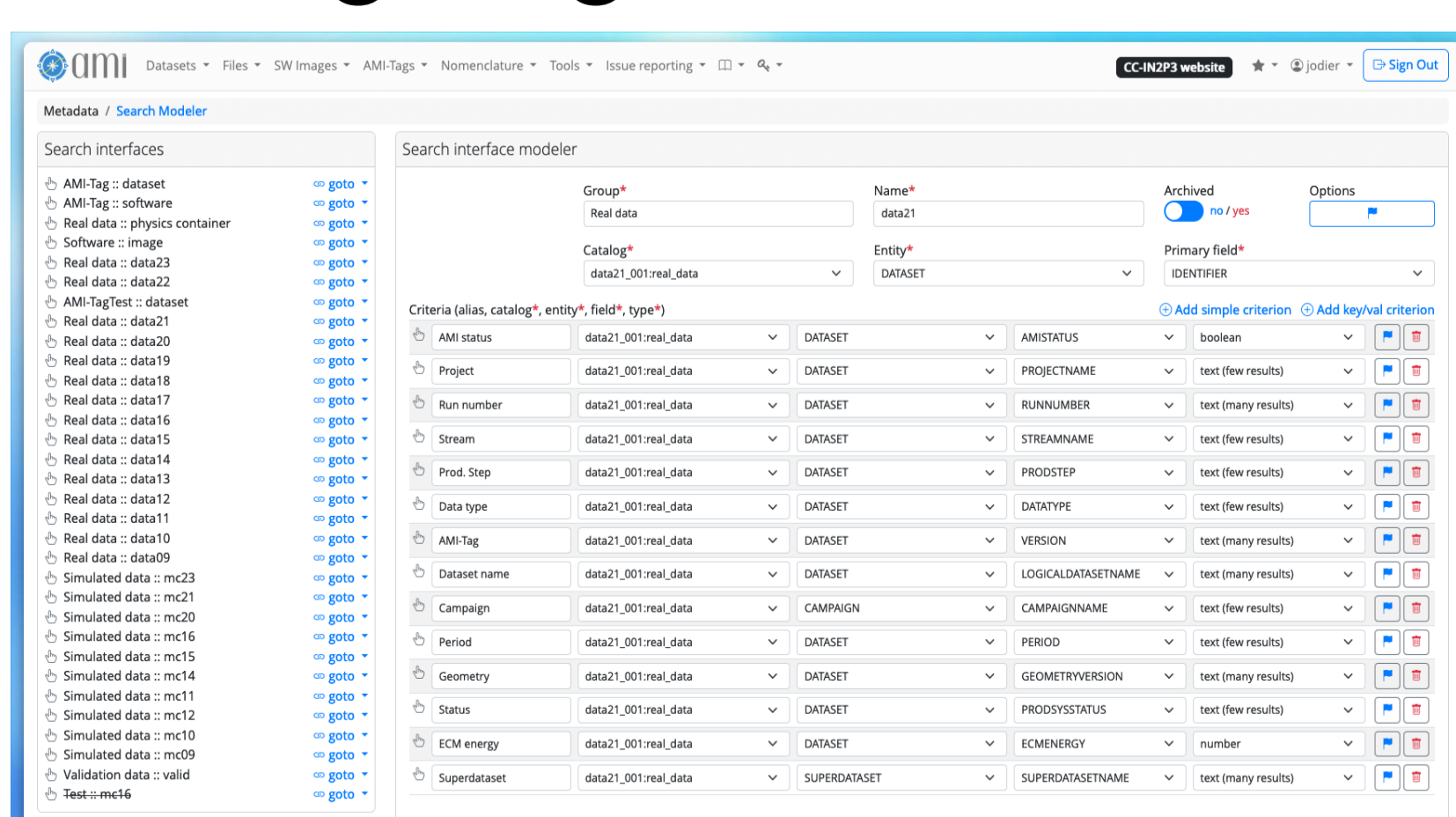


Defining task pipelines

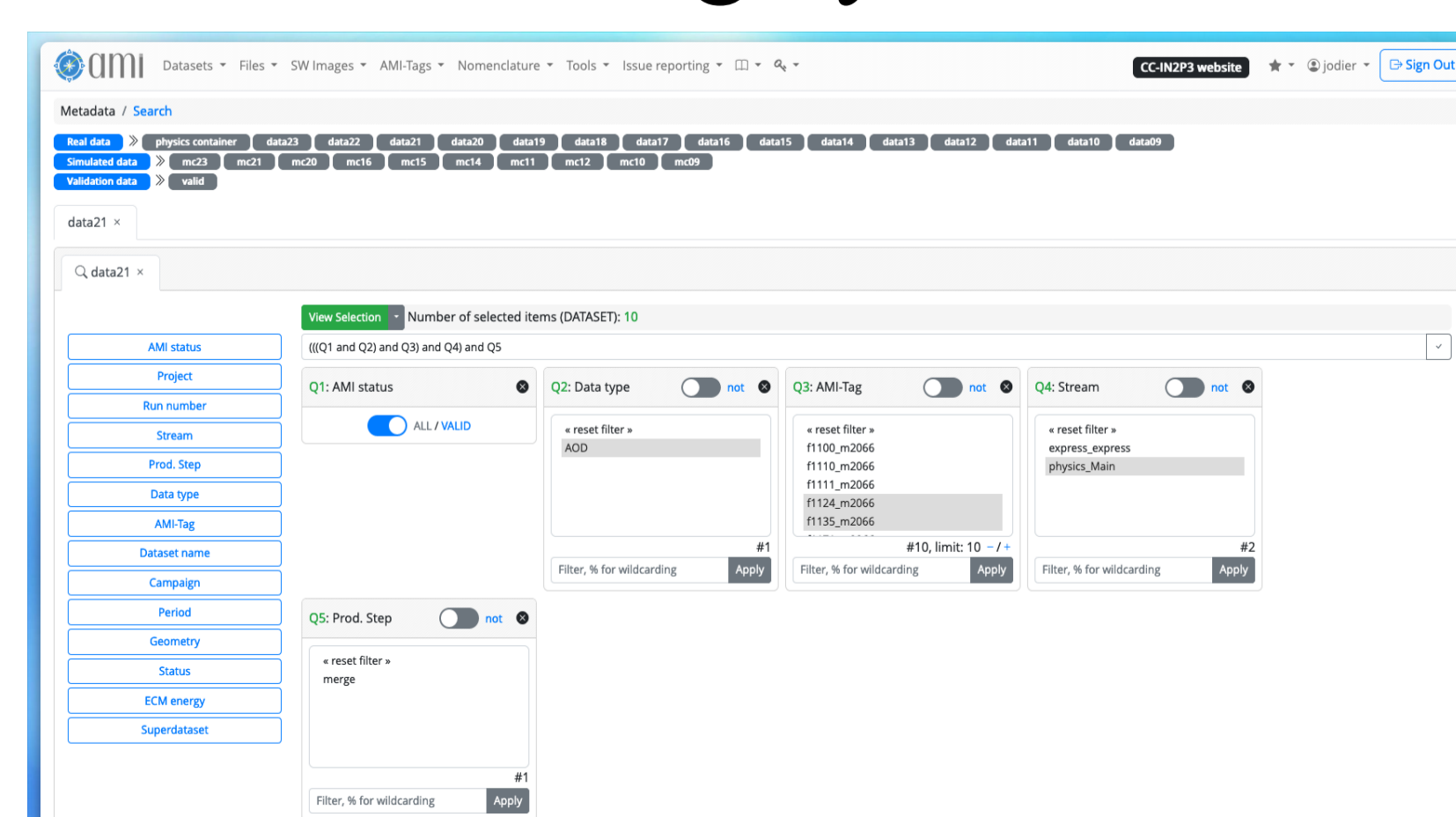


Get started: visualizing

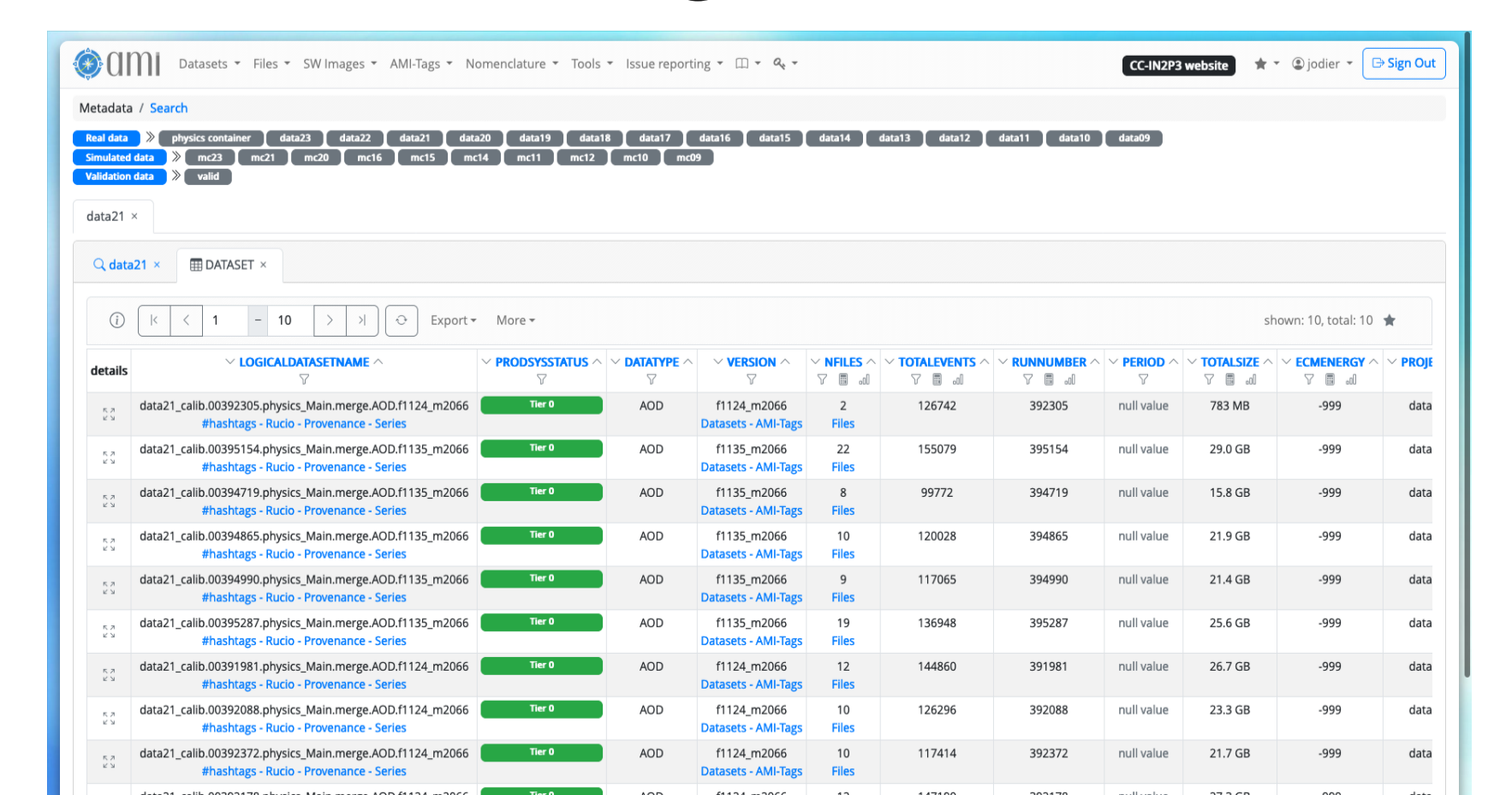
Configuring search interfaces



Searching by criteria



Viewing the result



Refs.: [1] Jérôme Odier, Fabian Lambert and Jérôme Fulachier. The ATLAS Metadata Interface (AMI) 2.0 metadata ecosystem: new design principles and features. J. Phys.: Conf. Ser., vol. 214, year 2019. <https://doi.org/10.1051/epjconf/201921405046>