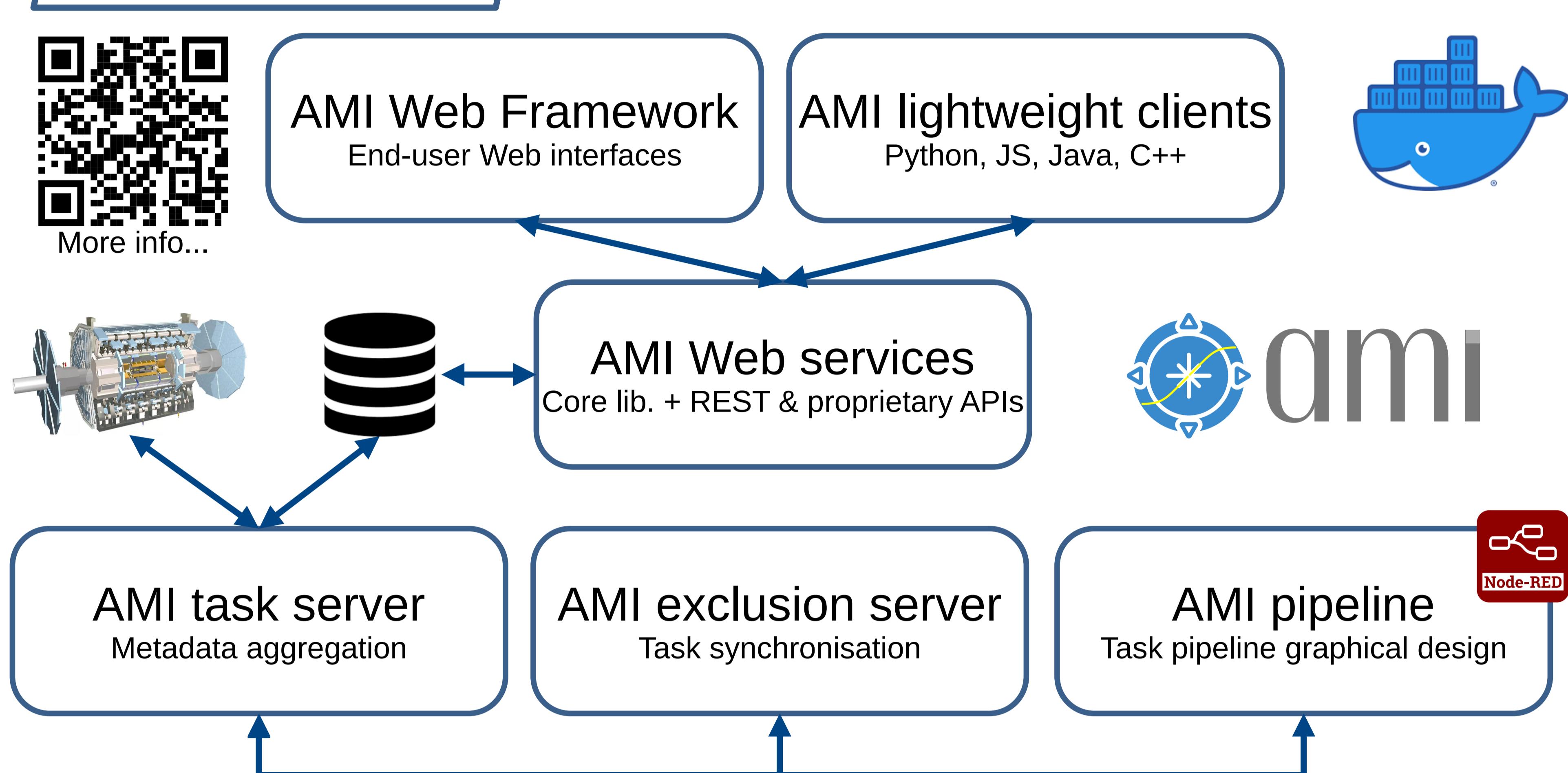


Deploying the AMI¹ ecosystem in a docker environment



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
```



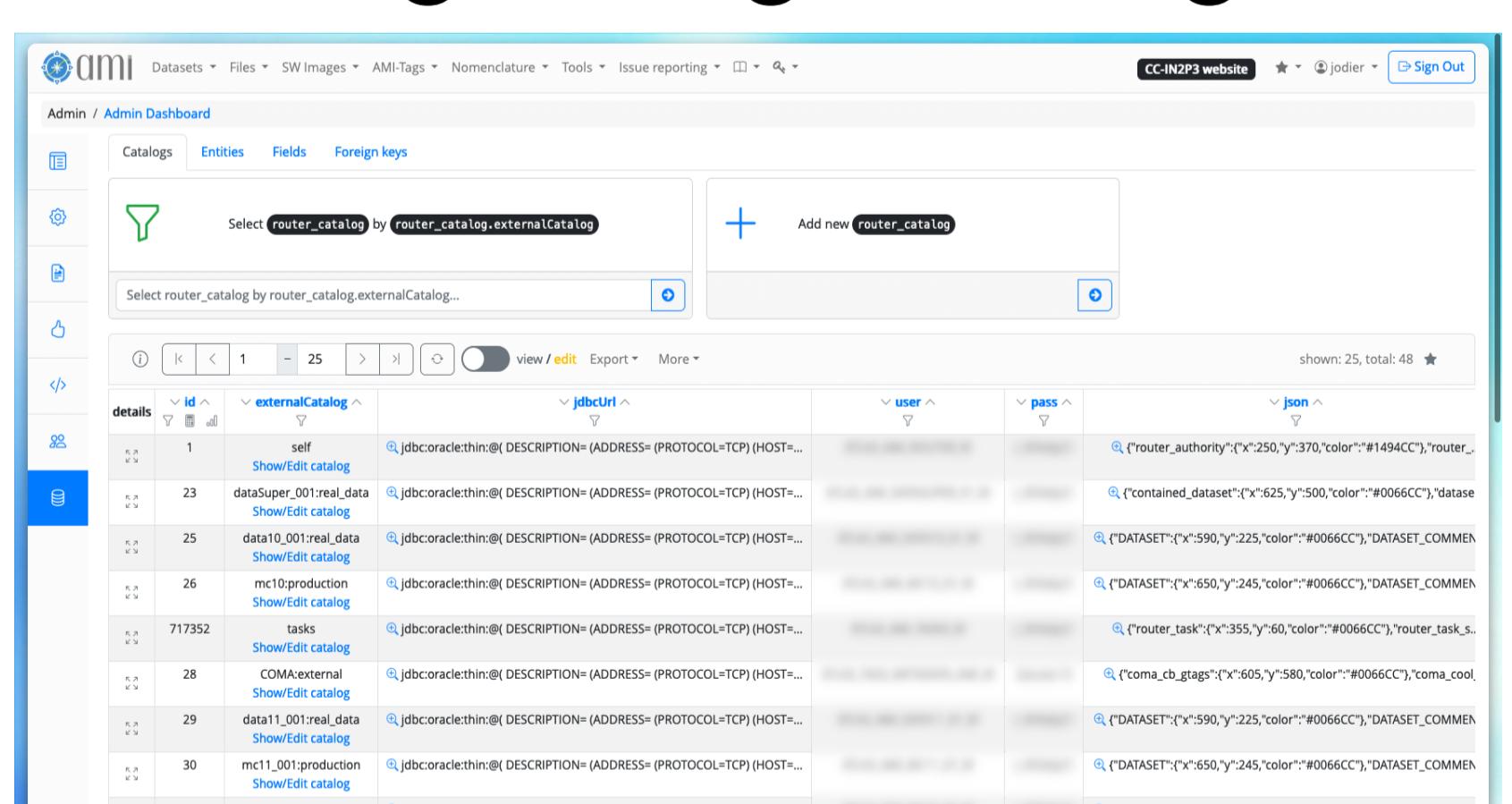
Try it, it's easy!

Endpoints

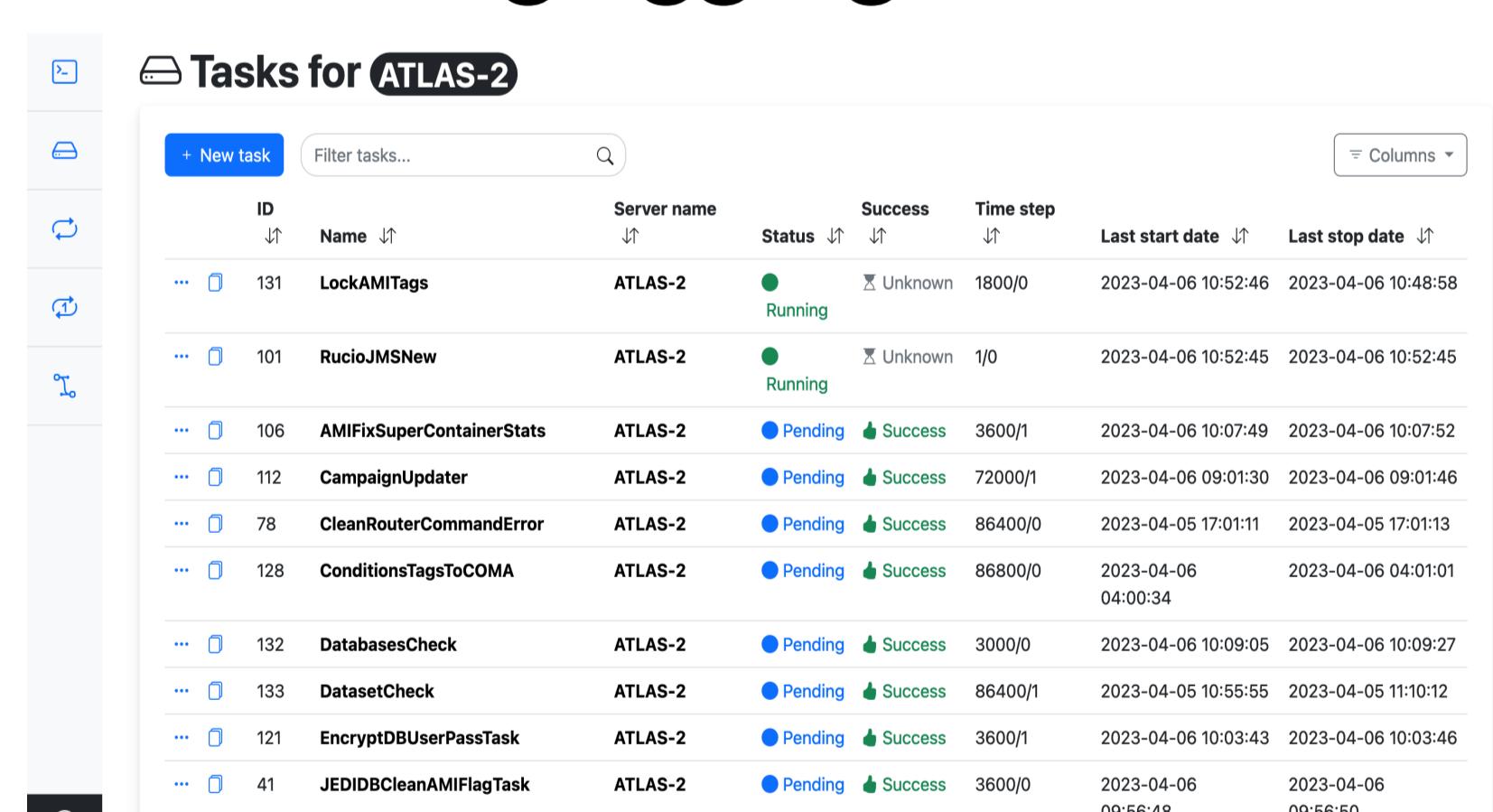
- Metadata interfaces: <http://localhost:667/> (username: admin, password demo)
- Pipeline interfaces: <http://localhost:664/>
- phpMyAdmin interfaces: <http://localhost:661/> (username: root, password root)

Get started: aggregating

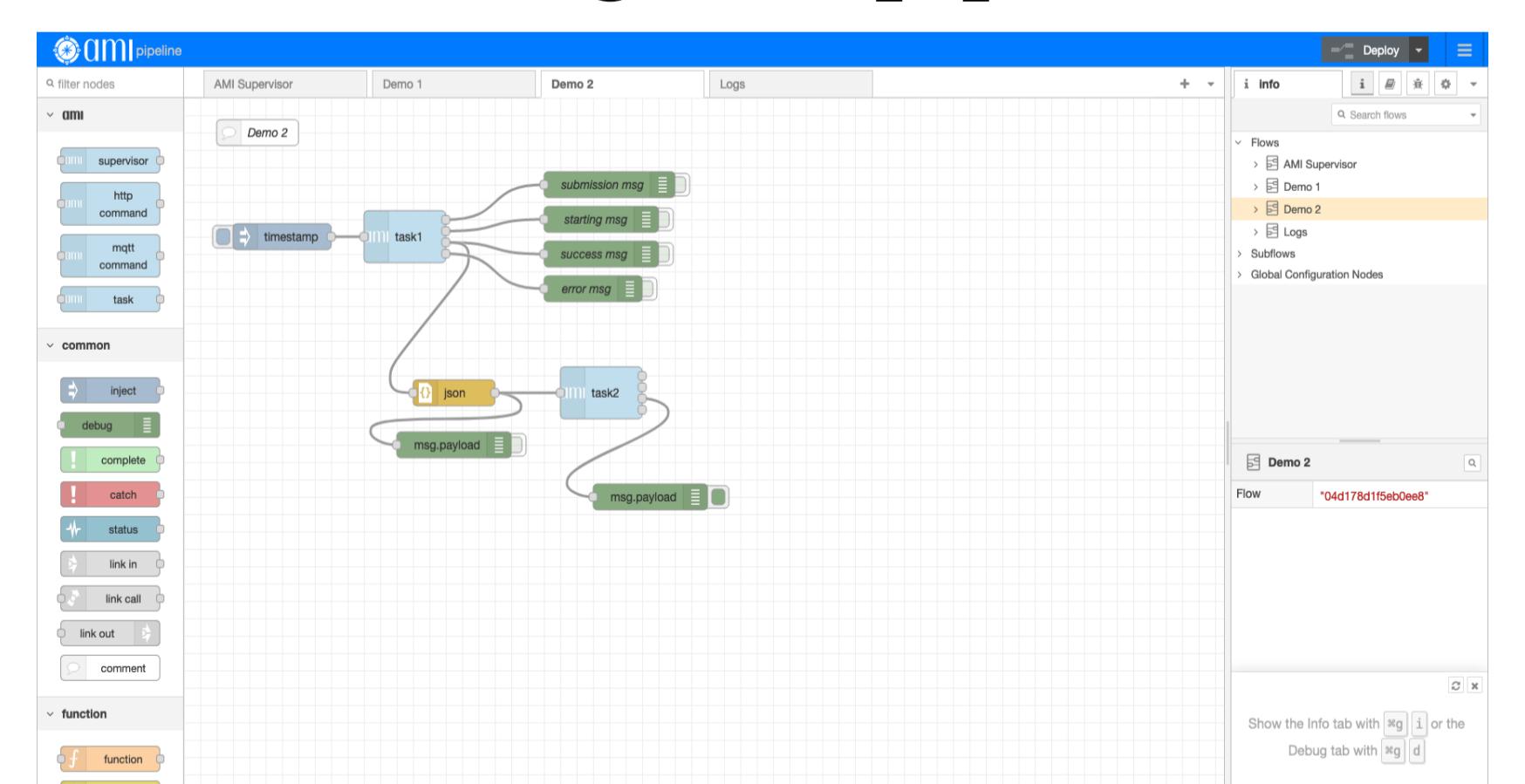
Registering a catalog



Defining aggregation tasks

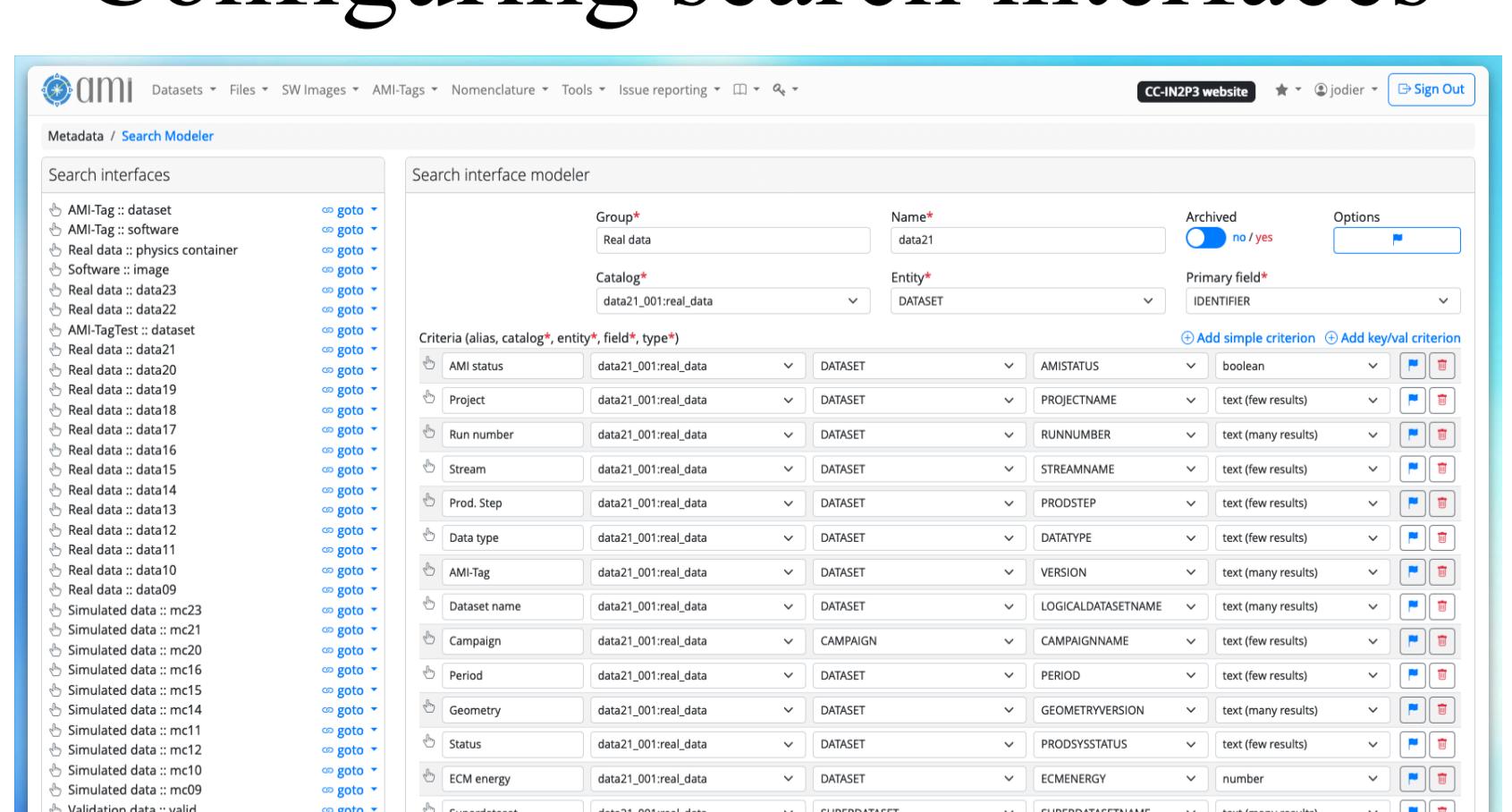


Defining task pipelines

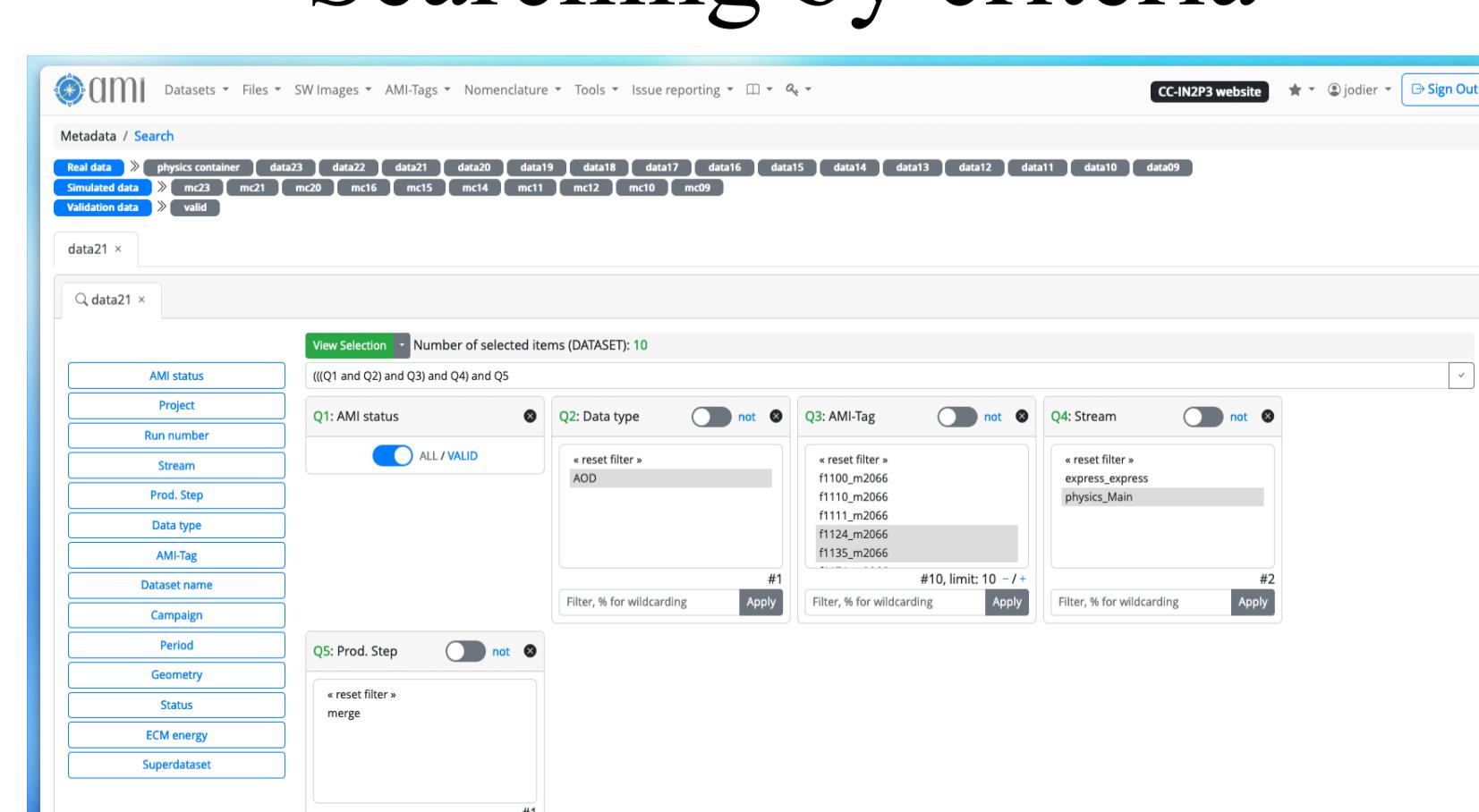


Get started: visualizing

Configuring search interfaces



Searching by criteria



Viewing the result

details	PRODOSTATUS	DATASET	VERSION	WELS	TRIGGER	PERIOD	TOTALSIZE	SCENARIO	PROG
66421 .coll020309 physics_Mem_merg_AOD1124_H026	2	126742	302305	null value	763 MB	999	data		
66421 .coll020309 physics_Mem_merg_AOD1124_H026	22	155079	395154	null value	294 GB	999	data		
66421 .coll020309 physics_Mem_merg_AOD1124_H026	8	95772	394719	null value	15.6 GB	999	data		
66421 .coll020309 physics_Mem_merg_AOD1124_H026	12	120208	394865	null value	21.6 GB	999	data		
66421 .coll020309 physics_Mem_merg_AOD1124_H026	9	117065	394690	null value	21.4 GB	999	data		
66421 .coll020309 physics_Mem_merg_AOD1124_H026	19	180348	395287	null value	25.6 GB	999	data		
66421 .coll020309 physics_Mem_merg_AOD1124_H026	12	144660	391981	null value	26.7 GB	999	data		
66421 .coll020309 physics_Mem_merg_AOD1124_H026	5	126196	392088	null value	23.3 GB	999	data		
66421 .coll020309 physics_Mem_merg_AOD1124_H026	10	117414	393372	null value	21.7 GB	999	data		
66421 .coll020309 physics_Mem_merg_AOD1124_H026	12	147190	392178	null value	27.3 GB	999	data		