

# C-SCALE

Copernicus – eoSC AnaLytics Engine

## C-SCALE Provider Onboarding

### Backing FedEarthData as a provider

Zdeněk Šustr, CESNET  
*sustr4@cesnet.cz*

# Resources You Can Provide



- Earth observation data
  - Satellite, in-situ
  - Most typically Sentinel, looking also for Landsat, ERA5, ...
- Cloud services
  - IaaS cloud, container execution platform
  - Potentially storage
- HPC/HTC resources
  - clusters
- Managed services
  - OpenEO
  - Jupyter Notebooks
  - Catalogue services (STAC)

Sentinel, Landsat, ERA5, ...

## 1. Discovery

- Integrate with EO-MQS (STAC Catalogue)
  - ▶ Easiest to have one's own STAC Catalogue
  - ▶ Or find a different solution (backend, convertor, ...).
- Register with GOC-DB

## 2. Access

- HTTPS
  - ▶ Open, or
  - ▶ EGI Check-in

**custom attributes** supported
- Other methods welcome



# Cloud Providers

Cloud in FedEarthData  $\approx$  **EGI FedCloud**

$\Rightarrow$  Onboarding procedure is practically the same

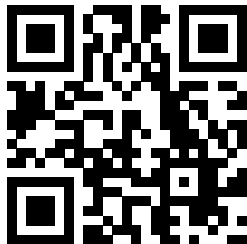
- **EGI Core** services integration

- GOC-DB
- **EGI Check-in**
- Monitoring (Argo)
- Image redistribution (AppDB)
- Accounting (APEL)

$\rightarrow$  openstack

- the most common choice

$\rightarrow$  kubernetes



## SRAM (SURF Research Access Management)

- Outside the “**EGI** universe”
  - Although SRAM can be used as an IdP for Check-in
- Deals primarily with AuthN
  - Account (de)provisioning
  - SSH keys redistribution
- LDAP
  - SRAMSync: SRAM ↔ local LDAP
- SCIM



# Managed Services



- Kitten, not cattle
- **No set procedure**
- Options are open
  - platforms
  - catalogues
  - portals

# Questions?

Zdeněk Šustr, CESNET  
*sustr4@cesnet.cz*

Poznań | 21 June 2023