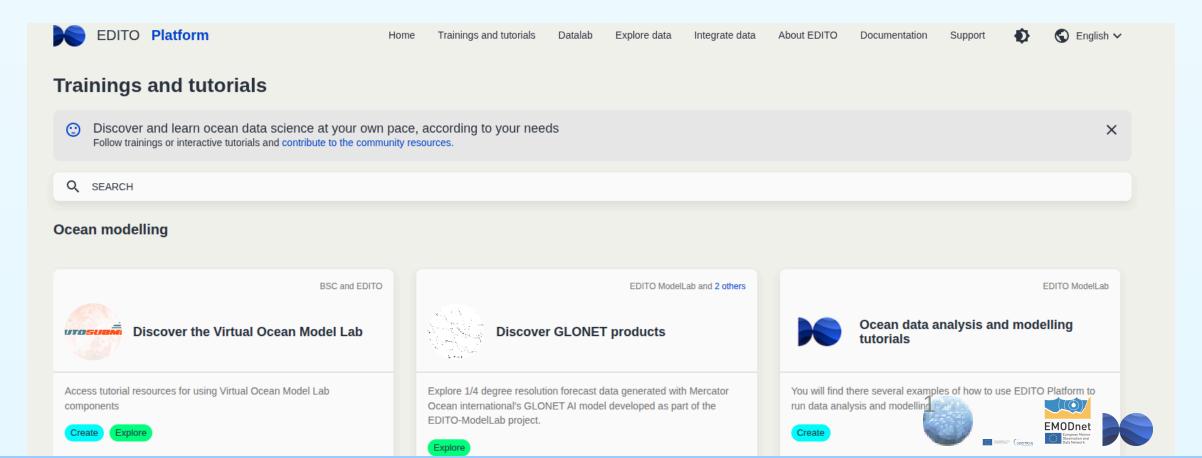


### **Contributing to EDITO Datalab**

Learn how to contribute your knowledge to **EDITO Tutorials** .



### **What We'll Go Over**

- ✓ How to become a contributor to EDITO tutorials
- Create a shareable tutorial
- ✓ Share it publicly via GitHub
- Launch it on EDITO Datalab
- ✓ Register it using tutorials.json
- ✓ Submit a merge request

All this is also covered in EDITO Datalab Documentation.





### **Get an Account on EDITO**

Become a Beta Tester:

Sign up here

Receive an Email:

You will receive an email from the developer team with further instructions.

Sign up to Mercator Ocean GitLab:

Create your account







### **Contribute to the Tutorials Content Repository**

Access Repositories:

Once your account is created, you will be added as a developer to the following repositories:

- Service Playground Repository
- Process Playground Repository
- Tutorial Content Repository







### I have a new tool/script to share

- ✓ For example, I've written a tutorial in . Rmd:
  - It explains how to use a tool or perform a task
  - Includes Markdown text and R code chunks
  - Shows plots, tables, or results inline
  - Has some interactivity/user interaction









### Example: My Tutorial on Accessing EDITO STAC

### Here in this repository

/add\_tutorial/my\_stac\_r\_tutorial/stac\_r\_tutorial.Rmd

```
## Querying the STAC API
                                                                                                                        DTO-Bioflow-M13-technical- AB 間 簡
This script demonstrates how to query a STAC API and download data.
```{r stac-query-collections}
stac endpoint <- "https://api.dive.edito.eu/data/"</pre>
# Query the root STAC API to get collections
collections query <- stac(stac endpoint) %>%
  rstac::collections() %>%
  get request()
cat("Number of collections:", length(collections query$collections), "\n")
  `{r stac-query-occurrence}
occurrence collections <- Filter(function(collection) {
  grepl("occurrence", collection$title, ignore.case = TRUE)
}, collections query$collections)
print(occurrence collections)
if (length(occurrence collections) > 0) {
```

### Recommended Folder Structure

- Not mandatory but on EDITO we need applications that are resilient and understandable for everyone
- Include a good README.md makeareadme.com
- Data and other assets separate

```
my_stac_r_tutorial/
  - stac-r-tutorial.Rmd
    data/
    docker-compose.yml(*optional)
    README.md
```







# **©** Create a Repository on your GitHub

- Go to github.com
- Click New repository
- Set it to Public

A demonstration on YouTube

Creating Your First GitHub Repository and Pushing Code Youtube







### Push Your Local Code to Your Github

```
# Initialize Git in your local directory (if not already initialized)
git init
# Add all files to the staging area
git add .
git config user.name username
git config user.email usermail@mail.com
# Commit the changes
git commit -m "Initial commit"
# Add the remote origin
git remote add origin https://github.com/username/stac-r-tutorial.git
# Push the changes to GitHub
git branch - M main
git push -u origin main
```

Creating Your First GitHub Repository and Pushing Code Youtube





## Make your deployment URL

#### **EDITO Services**

#### **Access the Service Configuration**

- Choose a service from the Service Catalog appropriate for your Tutorial
- ex. R Studio, Jupyter-python

#### **Add Your GitHub Repository**

• In the GIT section add the url to your tutorial's github repository in the Repository field

#### **Set Resource Limits**

- In the resources section, adjust CPU and memory limits as needed
- e.g., 1600m for CPU, 5Gi for memory





### **Save Configuration and Test your tutorial**

### **Save the Configuration**

Click Save to store your settings.

### Copy the URL in your brower

This is the link used to deploy your service and clone your github into the service

#### **Launch the Service**

• Use the **Launch** button to start the service with your configuration.

#### **Test Your Tutorial**

- Verify that the service clones your github, and your tutorial can be run
- Does it install the right packages?
- Does it produces the outputs you expect?







# **Configuring EDITO Service**









### Tutorials respository and the tutorials.json

In order to add our tutorial to the EDITO tutorials we need to add it to the tutorials.json list

https://gitlab.mercator-ocean.fr/pub/edito-infra/edito-tutorials-content/tutorials.json

We will clone this repository and add our tutorial to this list, using the the template provided in the README







# **K** Clone the Tutorials Repository to your Local PC

**EDITO GitLab Tutorials:** 

https://gitlab.mercator-ocean.fr/pub/edito-infra/edito-tutorials-content

### **Clone the Repo**:

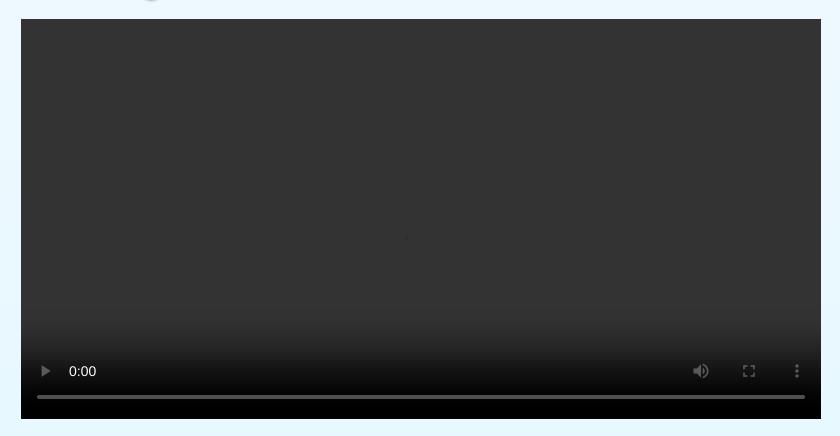
git clone https://gitlab.mercator-ocean.fr/pub/edito-infra/edito-tutorials-content.git







### **Cloning EDITO Tutorials Content**









### **Make a new branch**

\*\*Create a New Branch\*\*:

git checkout -b my-new-tutorial-branch

**Push the New Branch:** 

git push origin my-new-tutorial-branch







### **Make branch**









### Add your tutorial to 'tutorials.json'

### **Propropries** Deployment URL from previous step

```
"name": {
     "en": "My New Tutorial"
 "abstract": {
     "en": "A short description of your tutorial"
 "authors": [
     "The authors and contributors"
],
"types": [
     "types": |
         "en": "Tutorial"
 ],
"tags": [
     "create",
 "category": "training courses in data science", // "What-If applications", "Focus applications", "training courses in data science"
 "imageUrl": "https://www.edito.eu/wp-content/uploads/2023/09/favicon.png",
 "articleUrl": {
     "en": "https://github.com/username/stac-r-tutorial", // Your github
 "deploymentUrl": "https://datalab.dive.edito.eu/mydeployment.configuration.git.resources.etc"// DEPLOYMENT URL FROM PREVIOUS STEP
 // parts: []
```





## Adding to tutorials.json









### Push your updates onto your branch

```
# Stage all changes
git add .
# Commit the changes with a descriptive message
git commit -m "Added my awesome tutorial to tutorials.json"
# Push the changes to your branch
git push origin my-new-tutorial-branch
```







# **Create a Merge Request**

- Check the gitlab https://gitlab.mercator-ocean.fr/pub/edito-infra/edito-tutorials-content
- See if your commit is in a pipeline and if it passes or not
- If it passes, create a Merge Request
- In your merge request, '@pub/edito-infra/codeowners' to request code owners to review your proposal.







### **✓** Final Review Checklist

- ✓ Tutorial .Rmd created and runs
- GitHub repo is public and clean
- Launch link tested
- tutorials.json updated
- Committed to Gitlab and passes Pipeline
- ✓ Merge Request submitted









Once your Merge Request is approved

You've contributed to EDITO Datalab!

Your tutorial is now one click away from reproducible research!

Issues? Email edito-infra-dev@mercator-ocean.eu

Contribution Docs



