

WORKSHOP ON WORKFLOW PLATFORMS

- Date:** 2nd - 3rd April 2020
- Location:** Online
- Audience:** End-users, platform experts, tool mixture developers
- Trainers:** Björn Grüning - Galaxy
Frederik Coppens - Galaxy
Johannes Köster - Snakemake
Alexander Peltzer - Nextflow
Harshil Patel - Nextflow
Gisela Gabernet - Nextflow
Phil Ewels - Nextflow
Maxime Garcia - Nextflow

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[Registration Form](#)

Goals:

- Detail the strengths and weaknesses of different Workflow Management Systems.
- Find optimal solutions for the use-cases of research infrastructures (RIs).

Thursday, 2nd April 2020

09:30 Technical test session

10:00 Aim of today

10:10 Problems/Solutions of RI - EOSC-life typical data processing pipeline from the RI perspective (? x 20-30 mins).

This session will be focused on exemplary cases of different Research Infrastructures. As a guideline, you can reply to the next questions to describe a typical use case within your RI:

On the data:

- What type of data do you use?
- Where is this data located (public repositories, local, etc.)?
- What is the typical amount of files (in orders of magnitude: 10, 100, 1000 files)?
- What is the typical size of your files (Megabyte, Gigabyte, Terabyte)?

On the tools:

- Can you provide a list of tools that you use?
- Can you provide an overview (graphical or text format) of how the tools link together?
- Where do you currently use these tools (local, cluster, HPC, cloud, ...)?
- What do you think is the biggest requirement for the tools? Memory? Accessing files?

Compute power? (Leave blank if you don't know).

On the expectations:

- What is your desired outcome? How do you want to execute these workflows in an ideal way?
- What do you expect from EOSC-Life?
- What will be the impact of adding this to the portfolio of EOSC-Life?

13:00 End of day one

Friday, 3rd April 2020

The entire day is allocated to find and demonstrate potential solutions for RI (and demonstrators). We will create small breakout sessions, where we can discuss special community requirements in more detail. We aim to develop an implementation plan to on-board RIs and demonstrators to EOSC-life.

09:00 Introduction to EOSC-Life roadmap

09:30 Workflow Management Systems (WMS) (3 x 30 mins)

- Galaxy
- NextFlow
- Snakemake

11:00 Breakout session: “Discuss with your workflow expert individual solutions”

We are planning to have 3 parallel sessions, one for each WMS which you can join and ask detailed questions.

12:00 Summary of the workshop and discussion about the advantages and disadvantages of different WMS. We will further evaluate what are the best steps to proceed from here and in which way WP2 can help.

13:00 End of day two