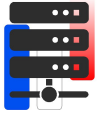


Usegalaxy.fr

<https://frama.link/ifb-ag20-usegalaxyfr>

Gildas Le Corguillé, Julien Seiler, Anthony Bretaudeau
David Christiany et la TaskForce IFB NNCR Cluster

Service offered to you, the user!



Hosted by the IFB Core Cluster : 4300 CPU / 20 TB of RAM



ELIXIR AAI authentication



100 GB for registered users - more on demand



Ready to host your training session with a dedicated submission SLURM

All the



datasets are already available as [Data Libraries](#)



End user support - One place **to get** help <https://community.france-bioinformatique.fr/>



New (11/2020) Galaxy Interactive Tools



Tools ☆ ⬆

search tools ✕

Get Data

Send Data

Collection Operations

Expression Tools

GENERAL TEXT TOOLS

Text Manipulation

Filter and Sort

Join, Subtract and Group

GENOMIC FILE MANIPULATION

Convert Formats

FASTA/FASTQ

FASTQ Quality Control

SAM/BAM

BED

VCF/BCF

Nanopore

COMMON GENOMICS TOOLS

Operate on Genomic Intervals

Fetch Alignments/Sequences

GENOMICS ANALYSIS

Annotation

Assembly

Mapping



1175 tools from tools - regularly up-to-date
Sorted by thematic sections

- ❑ General
- ❑ Genomic (RNASeq, DNASEq, ChipSeq ...)
- ❑ Metagenomics
- ❑ Population Genetics
- ❑ Metabolomics (Workflow4Metabolomics)
- ❑ Proteomics (ProteoRE)



37 databank indexes synced with  <http://datacache.galaxyproject.org/>

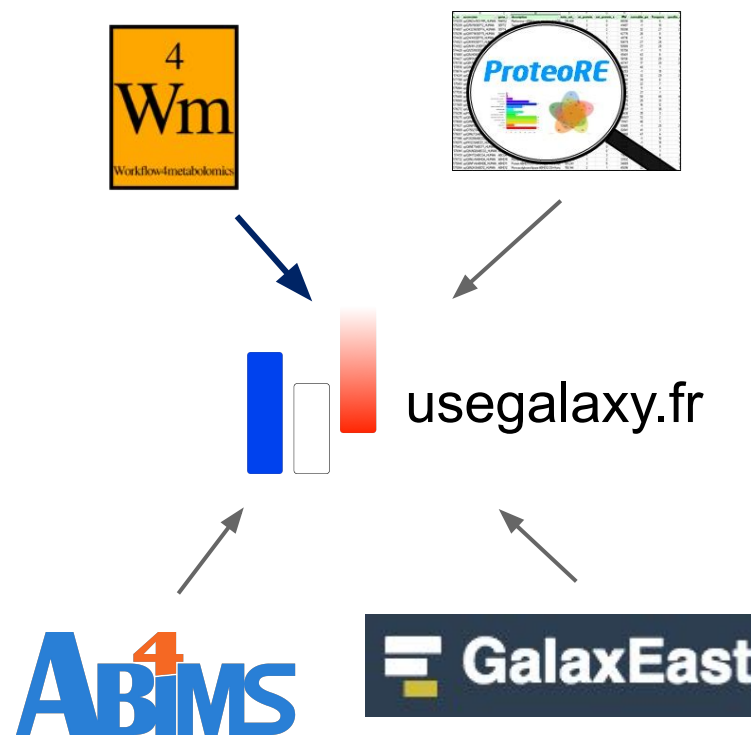


Main tools weekly tested with  workflows



<sub-domain>.usegalaxy.fr

- What is a sub-domain ?
 - same infrastructure (IFB NNCR cluster)
 - specific welcome page
 - sub tool panel with specific tools only
- ➡ transferred users can find the same interface



One instance, some sub-domains



<sub-domain>.usegalaxy.fr



- What is a sub-domain ?
 - same infrastructure (IFB NNCR cluster)
 - specific welcome page
 - sub tool panel with specific tools only
- transferred users can find the same interface



- 2 sub-domains for now
 - workflow4metabolomics.usegalaxy.fr
 - proteore.usegalaxy.fr
- Easy to add new subdomain
 - Next : ngs.usegalaxy.fr (Galaxeast)

For you the g33k!

<https://gitlab.com/ifb-elixirfr/usegalaxy-fr>

- Everything is managed by  ANSIBLE
- Tasks are launched by 
- Ask to be added to the contributor list
- You will be able to:
 - Access all usegalaxy.fr gitlab repositories
 - Configure Galaxy
 - Add tools
 - Add/run data manager
 - Update sub-domain welcome pages

































Institut Français de Bioinformatique > usegalaxy.fr > Details



usegalaxy.fr 

Group ID: 5635840

Subgroups and projects Shared projects Archived projects

-   **howto-admin** 
How to administer usegalaxy.fr
-   **galaxy_transfert** 
-   **data_manager** 
-   **workflows tests** 
Differents worklows are tested with planemo.
-   **galaxy** 
Fork of the Galaxy repository including code changes that have not been merged int...
-   **trainings management** 
-   **cvmfs-stratum1** 
-   **welcome** 
Welcome page for usegalaxy.fr base and subdomains <https://usegalaxy-fr.gitlab.clu...>
-   **tools** 
Ansible playbooks to manage tools on usegalaxy.fr subdomains
-   **infrastructure** 
Ansible playbooks and custom roles to deploy the usegalaxy.fr infrastructure on IFB ...

<https://gitlab.com/ifb-elixirfr/usegalaxy-fr/tools>

- Add tools in proper `.yaml.lock` file
 - git or via the gitlab web IDE
- Commit and make a merge request
- Validation by our team
- Tools automatically installed
- Tool panel automatically sorted
 - based on yaml files

In short:

- Fast and easy way to add tools
- In a secure way, since reviewed by our team
- Tools added for main and concerned subdomain



tools

Project ID: 13318189

GitLab Projects Groups More

tools ifb-elixirfr/usegalaxy-fr/tools

mapping.yaml.lock

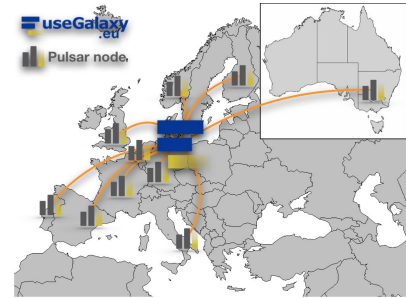
Edit

```
1 install_repository_dependencies: true
2 install_resolver_dependencies: true
3 install_tool_dependencies: false
4 tools:
5   - name: bwa
6     owner: devteam
7     revisions:
8       - 01ac0a5fedc3
9     tool_panel_section_id: mapping
10  - name: lastz
11    owner: devteam
12    revisions:
13      - e7f19d6a9af8
14    tool_panel_section_id: mapping
15  - name: bowtie2
16    owner: devteam
17    revisions:
18      - 749c918495f7
19    tool_panel_section_id: mapping
20  - name: minimap2
21    owner: iuc
22    revisions:
23      - 17e61517c166
24    tool_panel_section_id: mapping
25  - name: mymappingtool
26    owner: iucteam
27    revisions:
28      - 17e61595f755 #first version
29      - d6a9af891846 #second version
30    tool_panel_section_id: mapping #section in tool panel
31
```

Commit...

1 changed file

- ~~Interactive tools (Shiny app, Jupyter notebook, RStudio)~~
 - ~~Need some rather complex settings: docker, dns, ssl, slurm ...~~
 - Adapted to Singularity
- [CVMFS](#) - CernVM File System
 - Enable the Galaxy project CVMFS directory
 - Use their content in order to align usegalaxy.fr to usegalaxy.*
 - Provide Stratum1 mirrors
- [Pulsar network](#) - wide job execution system distributed across the world
 - Be part this network
 - Offer IFB computing resources to usegalaxy.eu
- [TlaaS](#) - Training Infrastructure as a Service



One place **to get** help

<https://community.france-bioinformatique.fr/>

- Based on discourse
 - open source discussion platform
- Originally only for cluster related issues
- Now also for Scientific support, RSAT, ProteoRE, Workflow4Metabolomics and **Galaxy** related issues



One place **to** help

- 11 expert teams

The screenshot shows the IFB Community Support forum interface. At the top, there's a navigation bar with 'catégories', 'étiquettes', and 'Catégories' (highlighted in red), along with filters for 'Récents', 'Nouveaux (2)', 'Non lus', and 'Top'. Below this, a table lists the categories:

| Catégorie | Sujets | Récents |
|---|--------|--|
| IFB Core Cluster Demande de logiciel ou de banque de données 1 nouveau Support IFB Core Cluster | 231 | R studio - "the previous R session w @team.bank Installation de gnom @team.software installation "merc |
| Workflow4Metabolomics This category is dedicated to any questions, issues and requests regarding workflow4metabolomics.usegalaxy.fr . LCMS GCMS NMR MSMS | 12 | ⚠ Troubleshooting - Galaxy 14 mai Job was terminated because it used Upload file + stockage 2] |
| Support scientifique Get help on a scientific thematic, a workflow, a software or a parameter. | 21 | Comment bloquer les Cryptominers Ecriture wrapper Galaxy avec déper Creation de recette conda 30 avr. |
| Galaxy For any questions, issues and request regarding usegalaxy.fr and its subdomains *.usegalaxy.fr | 2 | Metagenomics Mothur 22 mai A job resubmitted again and again |



The usegalaxy.fr team is hiring:

Tasks:

- Develop and maintain the Galaxy instance
- Toward a better integration with usegalaxy.*
- End-user helpdesk

Skills:

- Good knowledge in Dev/Ops - Ansible/CI
- Bioinformatics would be a plus
- English speaker (better than the national average)

Salary: IE++

Location: Roscoff*, Strasbourg*, Rennes*

Task force members

Anthony Bretaudeau



Gildas
Le Corguillé



Guillaume
Seith



François Gerbes



Lain Pavot



Didier Laborie



Nicole Charrière



David Christiany
12/2019 - 08/2020



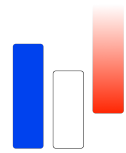
Julien Seiler



David Benaben



Jean-Christophe Haessig



usegalaxy.fr



IFB NNCR Cluster