

**Centre de Calcul**  
de l'Institut National de Physique Nucléaire  
et de Physique des Particules

# **CC-IN2P3 User Documentation**

## **FJPPL Villeurbanne – Jan, 30-31st 2024**

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## ➤ Introduction

- Why we needed it and how we built it

## ➤ Editorial Workflows

- How contributions are implemented
- A documentation for a documentation

## ➤ Engine

- Continuous integration
- Dockerfile and plugins

## ➤ Conclusion

- Achievements and further improvements



# Introduction

## ➤ “La base de connaissance”

- Static HTML site
- EN/FR pages
- Few contributors

## ➤ “Le Docu-Wiki”

- Wiki pages
- Easily updated ⇔ more contributors!
- Different styles (lack of homogeneity)
- Mostly FR pages

**«The information is there, but the users can't find it!»**

- Implementation of FAQ on ticketing system portal
- EN/FR pages (again!)
- Duplication or multiplication of the points of entry

- **Centralized information, distributed contribution**
  - All CC-IN2P3 should be able to easily contribute on the same project
- **Uniform style & structure**
  - Editorial contributions should be versioned and moderated
- **Userdoc**
  - Gitlab project open to all CC agents
  - RST files interpreted in HTML by Sphinx (through CI/CD)
  - MR moderation

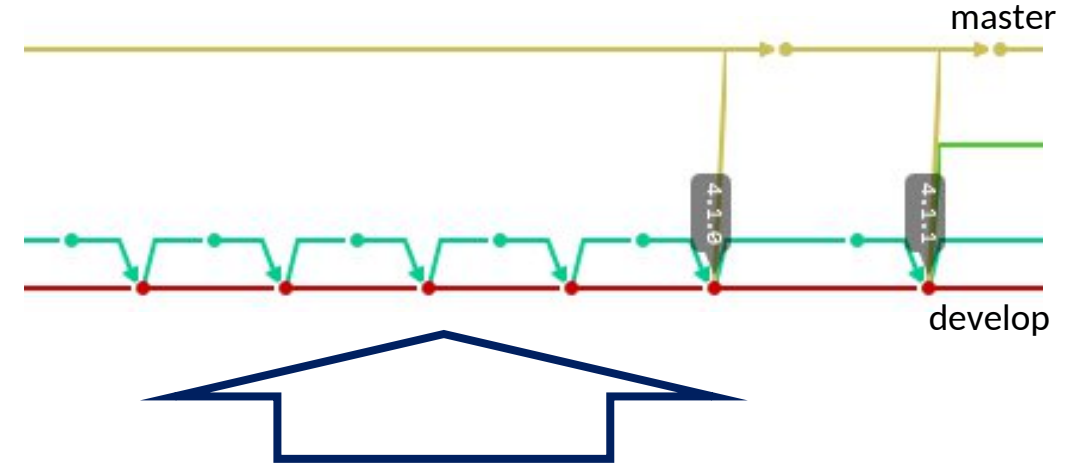




# Editorial workflows

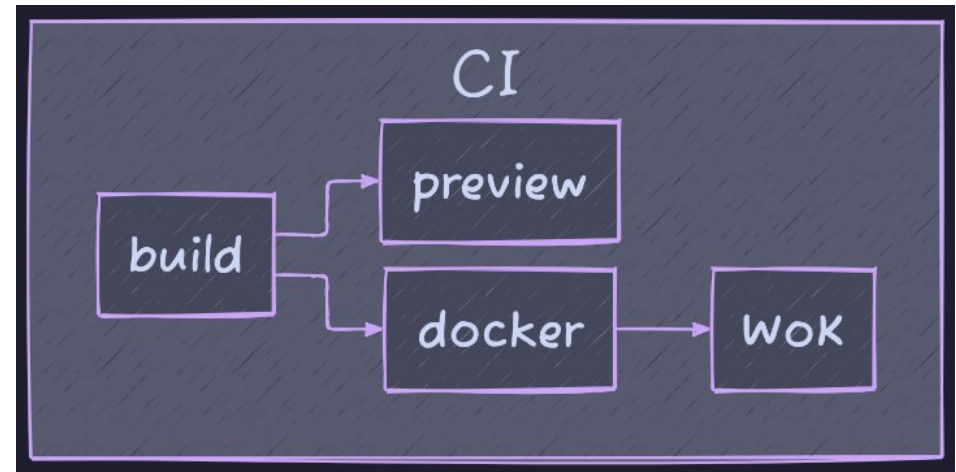
Service evolution

User engagement



## Userdoc changes

- submit an **issue** on the GitLab project
- `% git clone, git branch myedit`
- modify **RST files**
- `% git commit, git push`
- check **preview** and correct
- submit **merge request**
- **admin** validates and publishes



## ➤ Website tree

- Initially based on the CC-IN2P3 Service Catalog it had to quickly evolve into something tailored on users need

## ➤ Naming and formatting conventions

- Uniforming definitions and formulations
- Bullet lists, tables, text blocks, highlights

## ➤ What is the message to be delivered?

- Is it better a [schoolbook](#) or a [cookbook](#)?
- How to organize a FAQ section? When is it necessary?



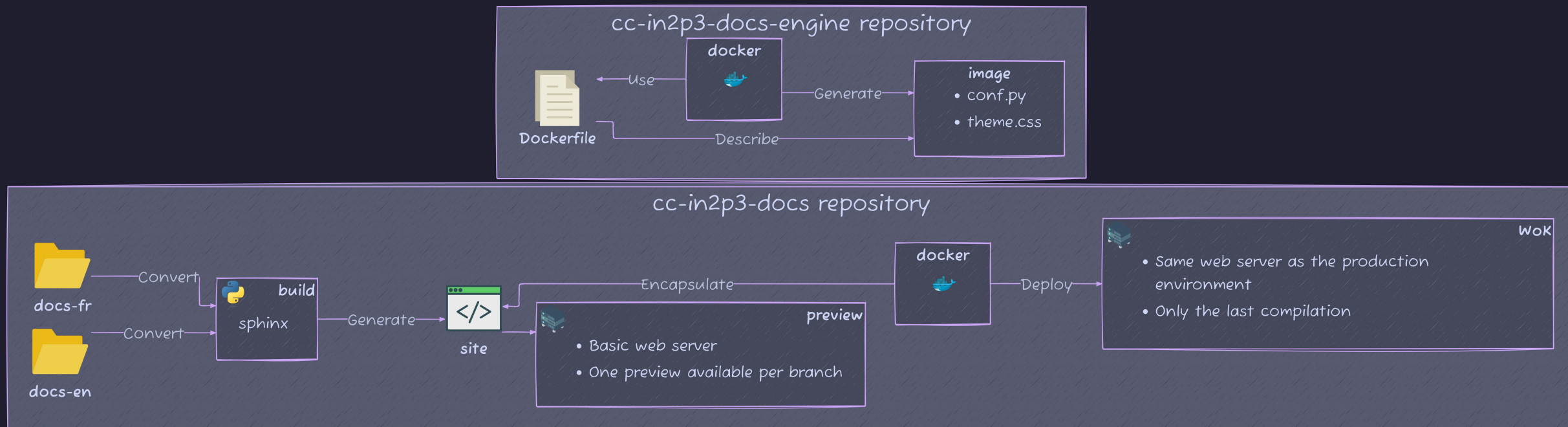
## ➤ **Formalization of the conventions**

- A synthetic documentation in same GitLab project repo (README files)
- Evolves in parallel with Userdoc (now on CC internal documentation)
- Three different purposes:
  - **Operation**
    - How to submit a content modification
  - **Broadcast**
    - How to share information with external users
  - **Administration**
    - How to manage the project software dependencies



# Engine

# A two project system



## ➤ In docs repository

- Container to be deployed in CC-IN2P3 WoK ([Web on Kubernetes](#)) service
- Maintained by WoK admins

## ➤ In engine repository

- Container hosting [Sphinx](#) and the theme packages
- Maintained by Userdoc admins
- Dependencies update availability monitored with [Renovate](#)

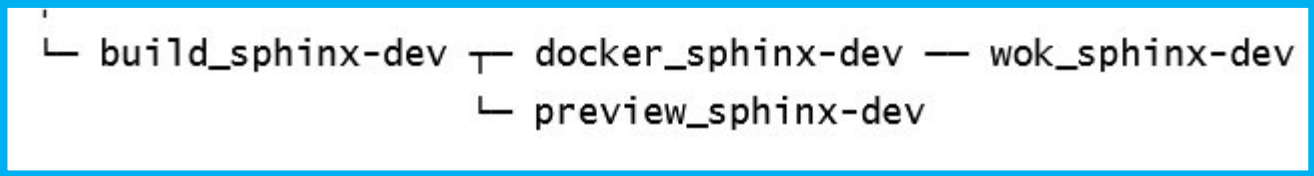




\* **Editorial documentation<sup>#</sup>**  
\* Triggered by any modification in the README files



\* **Main workflow**  
\* Triggered by any modification on the contents files



\* **Engine development workflow**  
\* Triggered by the branch name  
\* Will run in parallel with the main to observe differences

#: **DIPLO** = Documentation Interne Pour L'Opération

## ➤ Useful shortcuts to Sphinx formatting

- A RST file with additional HTML formatting added during **build** job
  - Font color
  - Special typographic rules
  - Recurring links

## ➤ Advantages

- Simplifying format coding in the editorial files
- Single point of entry for external links



# Conclusion

## ➤ **5 major releases** (v5.0 due next month)

- 77 updates (270 issue tickets)
- 108 pages x 2 languages
- 15 editorial documentation pages

<https://doc.cc.in2p3.fr/>

## ➤ **Lesson learned**

- The importance of planning ahead
- Do not get attached to a structure
- Contemplate any suggestion... and only adopt what is necessary
- Open to the biggest contributors group possible... and moderate all of them!

“This, milord, is my family's axe. We have owned it for almost nine hundred years, see. Of course, sometimes it needed a new blade. And sometimes it has required a new handle, new designs on the metalwork, a little refreshing of the ornamentation . . . but is this not the nine hundred-year-old axe of my family? And because it has changed gently over time, it is still a pretty good axe, y'know. Pretty good.”

**Terry Pratchett**, *The Fifth Elephant*



- **Most viewed pages**
  - Monitor and count page views
  - Dynamically integrate a list of the top viewed
- **Linters**
  - Link validity & RST formatting
- **Language management**
  - Simplify multilanguage backend
- **Keeping Userdoc updated**

**Thank you for your time.**  
**Any question?**