

The logo graphic for ESCAPE features a stylized blue starburst at the top, a thin blue orbital line curving around it, and a small yellow circle at the bottom left of the orbit.

# ESCAPE

European Science Cluster of Astronomy &  
Particle physics ESFRI research Infrastructures

## Update on OSSR developments

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# Development updates

- eOSSR new release
- Container image guidelines
- eOSSR registry
- Open discussions



- ESCAPE OSSR library.

- Code: <https://gitlab.in2p3.fr/escape2020/wp3/eossr>
- Documentation: <https://escape2020.pages.in2p3.fr/wp3/eossr/>
  - CI documentation, examples and code snippets
- Centralises all the developments, packages and tools developed within the WP3.
- It also put together all the issues and open discussion that were generated in **(already archived projects !)**
  - ESCAPE metadata template
  - Codemeta2zenodo
  - ZenodoCI



# eOSSR library

- Last stable release v0.3.3 <https://zenodo.org/record/5592584>
- What's new: A major update of the eOSSR library.
  - **Simplifies upload to the OSSR with a unique script**
  - Introduces eOSSR logo
  - **Record representation** based on record ID only, improves its print\_info
  - Handle lists in OSSR search *kwargs*
  - Solve lowercase issue in OSSR search *kwargs*
  - **Introduces global HTTP errors handling**
  - **Improve documentation** (notebooks are run live, clearer docstrings)
  - **Include OSSR statistics in documentation**
  - Update README with install and cite instructions
  - Bugfix of versions 0.3, 0.3.1 and 0.3.2 (typos, zipping of subdirectories)
  - **Lightee Docker container**





# OSSR container image's policy and guidelines

- First proposal. Add it to the ossr-pages. Iterate and build from it;

## Container image guidelines

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Using an unversioned 3rd party image as the base for a container makes the resulting container image dependent on what the upstream 3rd party put in the latest version of their container. Thus, making the container unlikely reproducible in the close future.

E.g; `FROM continuumio/miniconda3`

To make a container image reproducible we **strongly recommend** to follow the following recommendations;

1. The FROM statement should include the full registry URL

E.g; `FROM docker.io/continuumio/miniconda3`

2. The FROM statement should reference a specific version of the base container

E.g; `FROM docker.io/continuumio/miniconda3:4.10.3p0`



# OSSR registry

- Idea: Registry of base containers to be used by users and ESAP
- Where: gitlab [escape2020/wp3/ossr-registry](https://gitlab.com/escape2020/wp3/ossr-registry) subgroup
- First demonstrator with project [ossr-autobuild-registry](https://gitlab.com/escape2020/wp3/ossr-registry):
  - auto-build a docker container for each record in the OSSR
  - using repo2docker
  - Steps:
    - list records in the OSSR
    - list [images already in the registry](#). Built images are identified by the unique record id.
    - build missing images and add them to the registry
    - build [doc page listing and linking OSSR records and registry images](#)
  - Nightly build to stay up to date



# OSSR registry

## ● Ideas to go further:

- Build multi-project containers: e.g. dark-matter container
- Allow user to build their own containers
  - start a project in the ossr-registry group
  - build your image using gitlab CI or push directly to the registry using tokens
  - add a README with description that can be read to centralise things



# Open discussions

- Container guidelines
- OSSR registry

