Repositories for UMD and CMD

Mario David (LIP), João Pina (LIP), Carlos Manuel (LIP), Jorge Gomes (LIP), Pablo Orviz (IFCA)

EGI Repositories

The EGI Software Repository provides access for the middleware distributions together with some Community Repositories

Three main categories:

- The Unified Middleware Distribution (**UMD**): redistribution of traditional middleware

  OS Support
  - Centos 7

  Provider:
  - IBERGRID since 2020

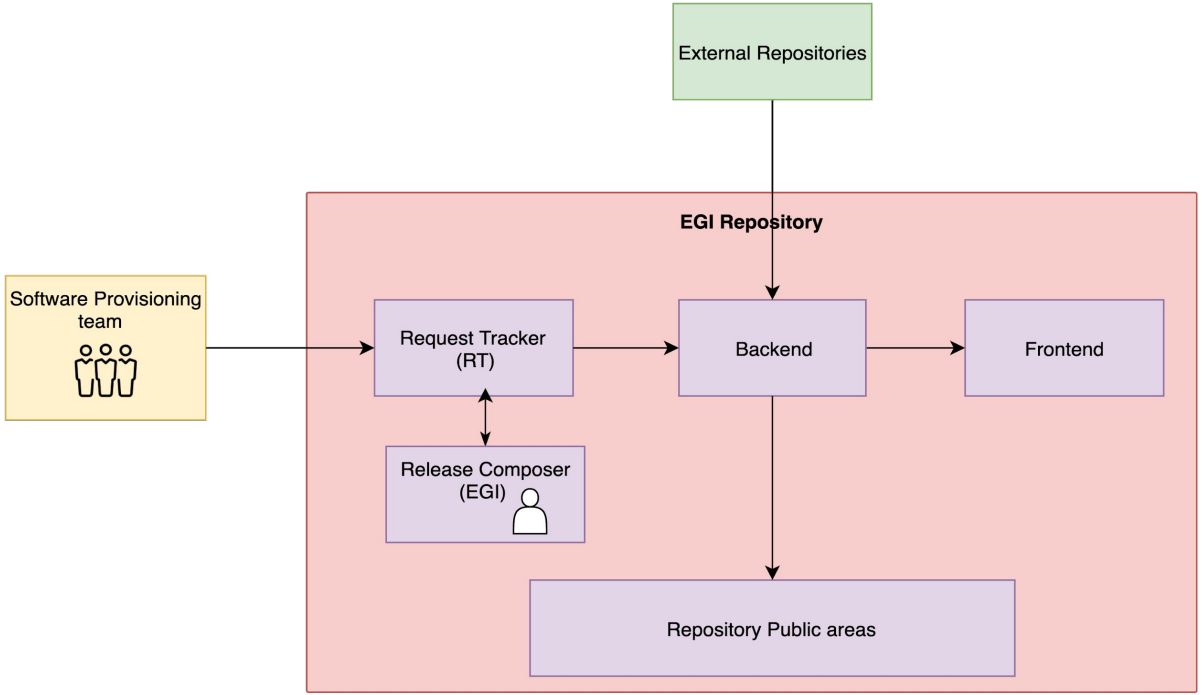
- Cloud Middleware Distribution (**CMD**): specific middleware for OpenStack and OpenNebula integration components

- **IGTF** Distribution of Authority Trust Anchors: packages with the trust anchor information

Current architecture

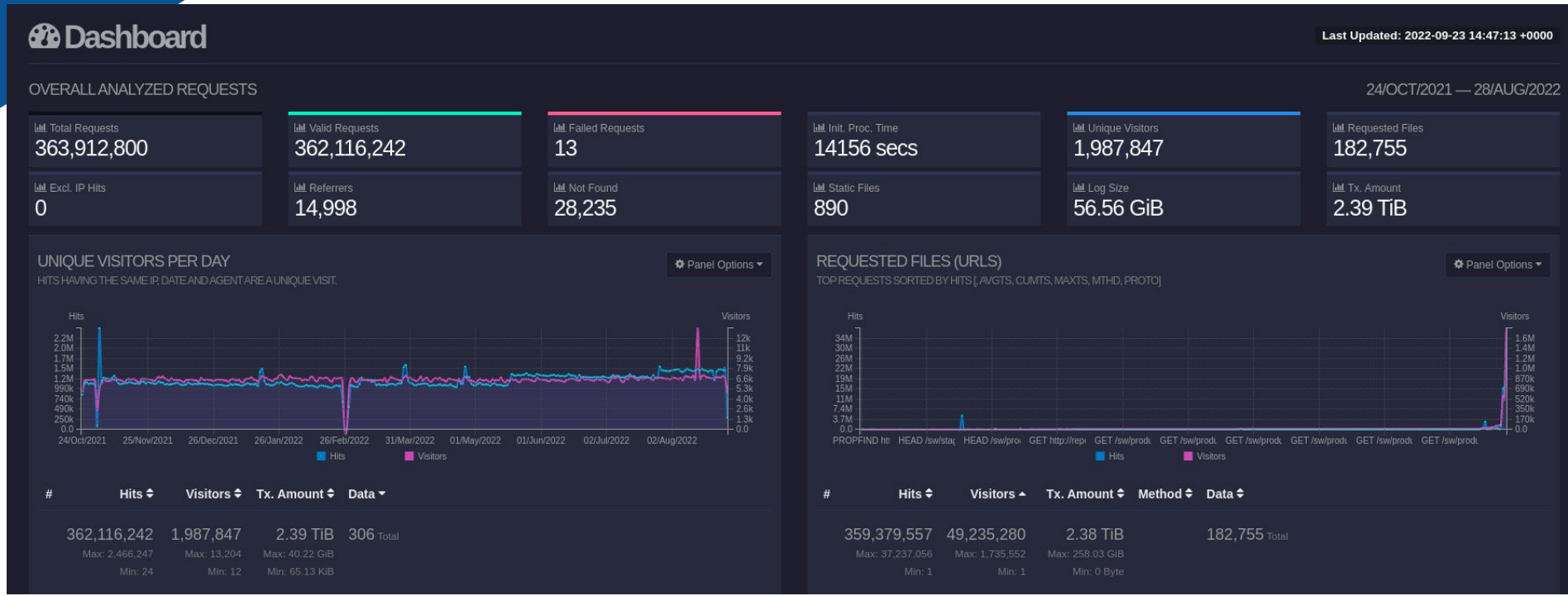
Old setup:

- No new functionalities for many years, since it's hard to implement them.
- Backend based on perl scripts with tight relation
  with RT.
- To many manual steps (RT fully manual) leading to a large delay in the releases of packages
- Frontend outdated which could lead to security issues (**already replaced by a simplified version**)

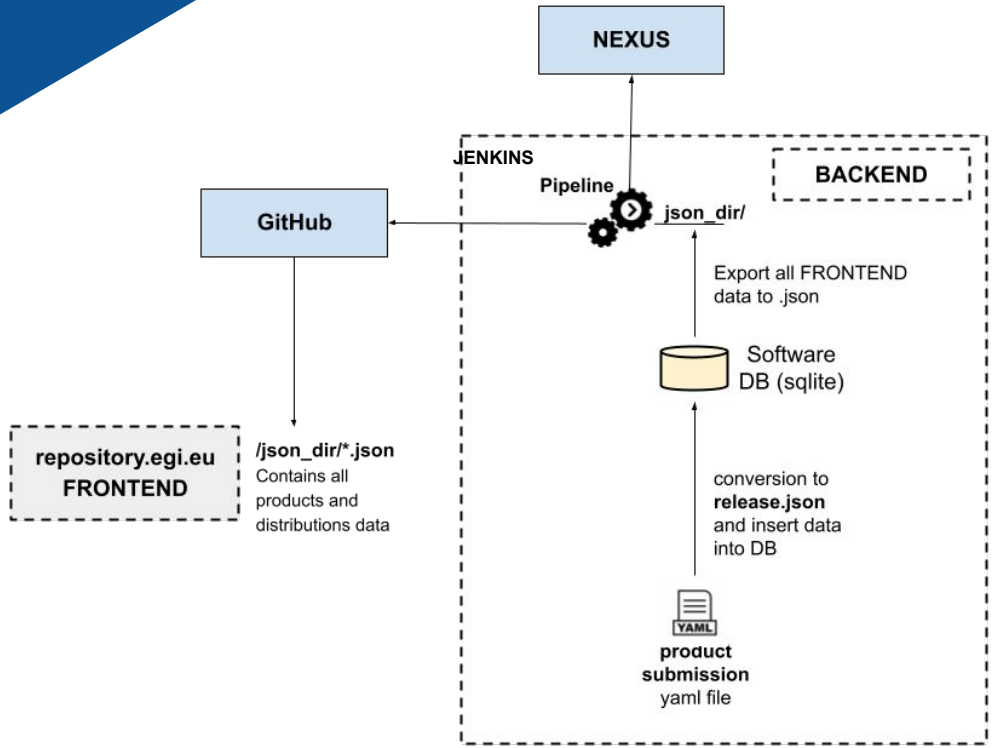


Usage

One year access data



New architecture



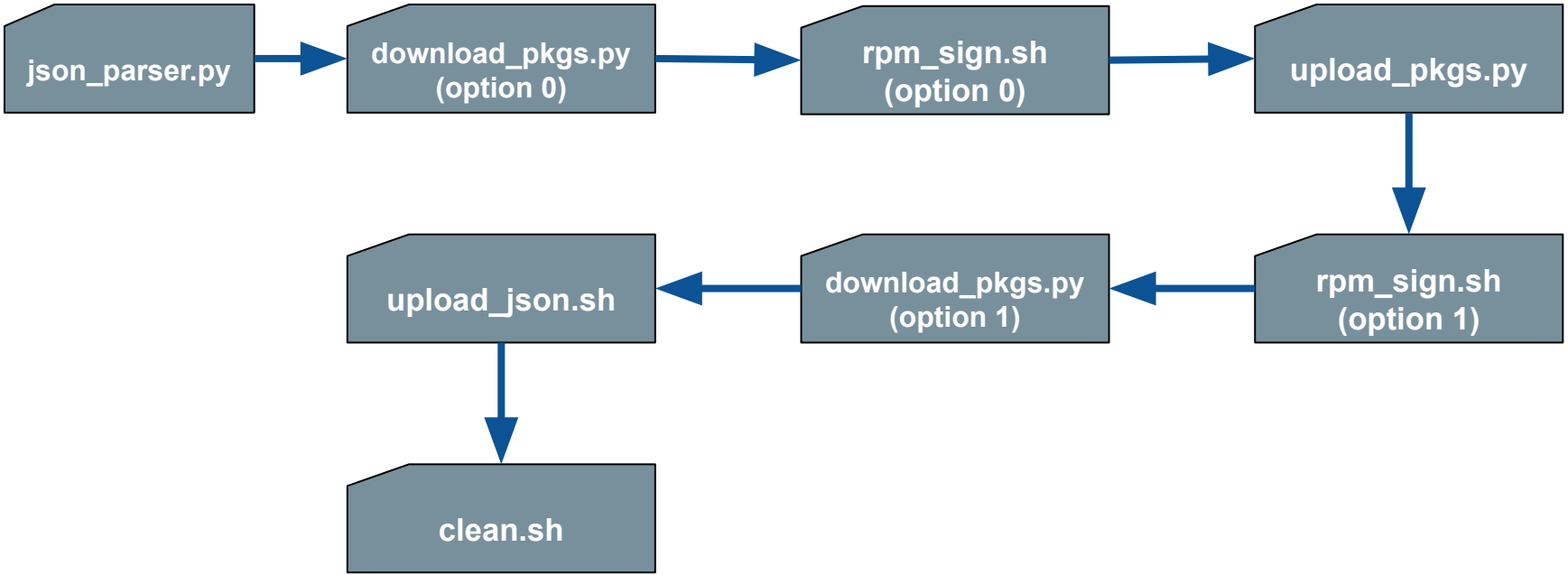
New setup:

- **Complete redesign of the service**
- Allow full automatization of the process
- Easier to add new functionalities like new OS, containers support
- Better integration with Jenkins
- New Frontend layout based on software products rather than releases.
- **Planned entering production 4 quarter of 2022**

Future:

- Integration with SQaaS service from EOSC-synergy
- Allow it to be used by external users: EGI / EOSC marketplace

UMD/CMD new Workflow



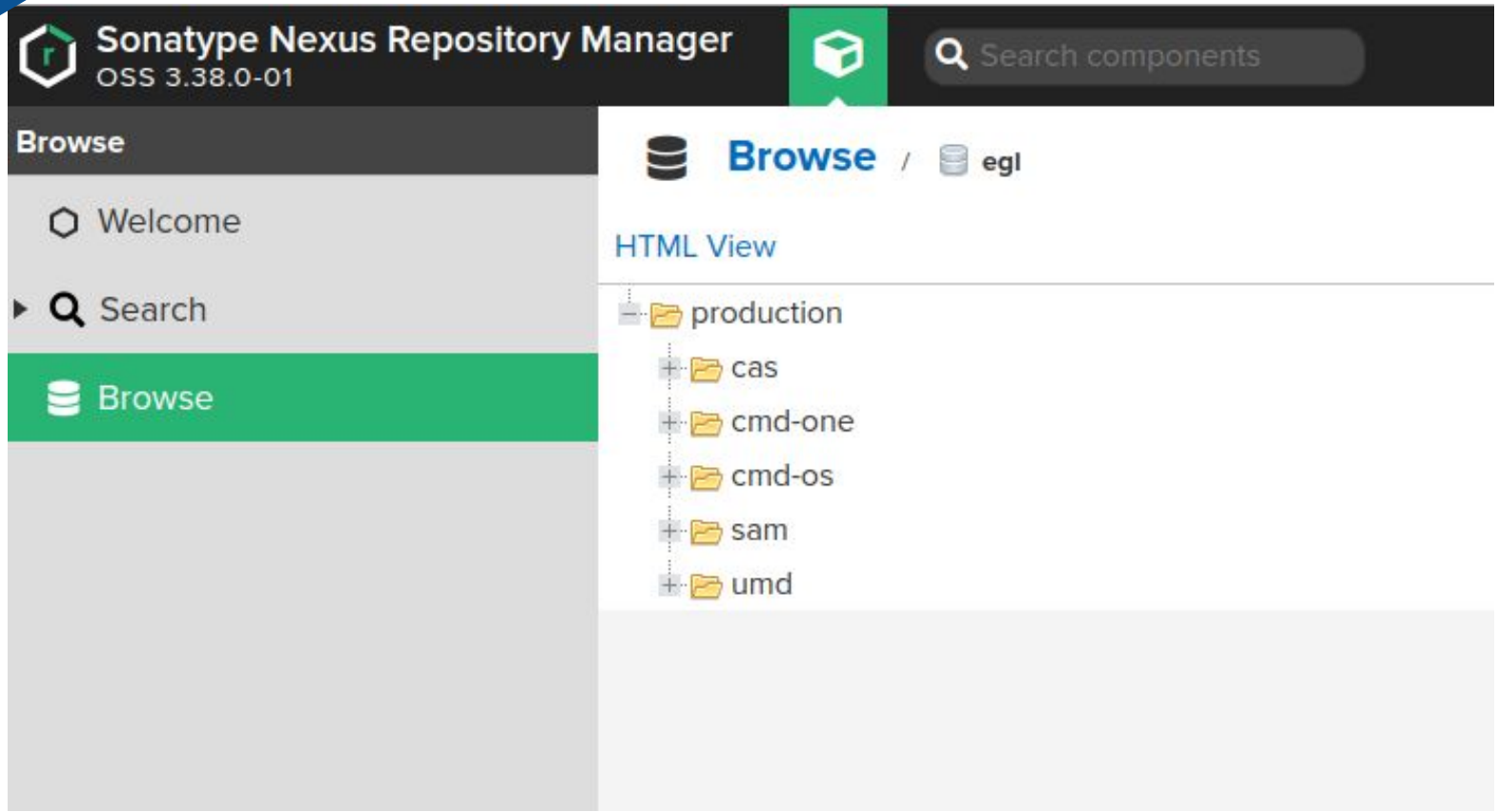
Pipeline

https://github.com/egi-qc/software-releases
https://nexusrepoegi.a.incd.pt/#browse/browse:egi

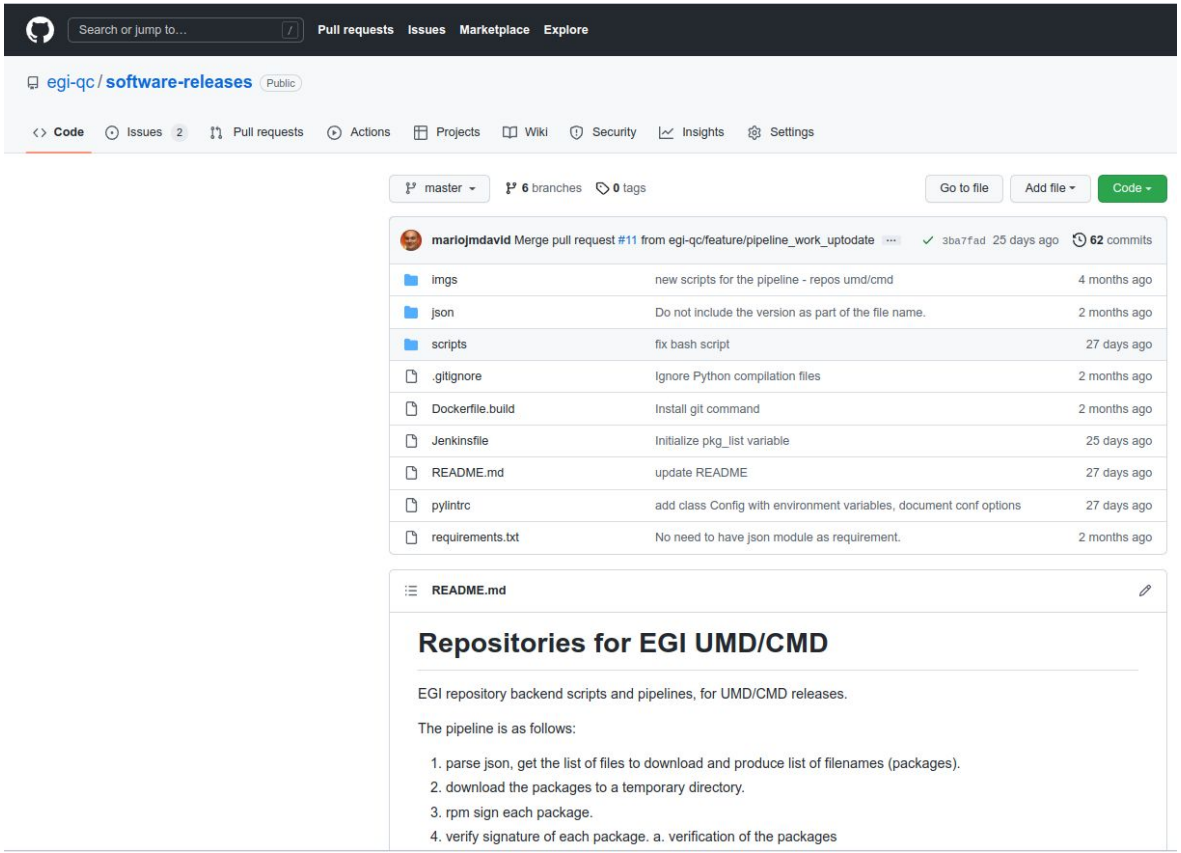
The pipeline is as follows:

1. `json_parser.py`: parse json, get the list of files to download and produce list of filenames (packages).
2. `download_pkgs.py` (option 0): download the packages to a temporary directory.
3. `rpm_sign.sh` (option 0): rpm sign each package.
4. `rpm_sign.sh` (option 0): verify signature of each package.
    a. a. verification of the packages
5. `upload_pkgs.py`: upload each package to nexusrepo.
6. `download_pkgs.py` (option 1): download each package from nexusrepo.
7. `rpm_sign.sh` (option 1): verify chksum and signature.
8. `upload_json.sh`: upload json to the frontend for publication.
9. `clean.sh`: clean temporary directories.

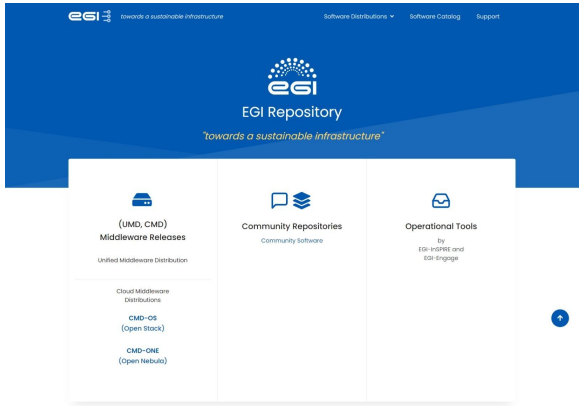
Yum / apt repositories

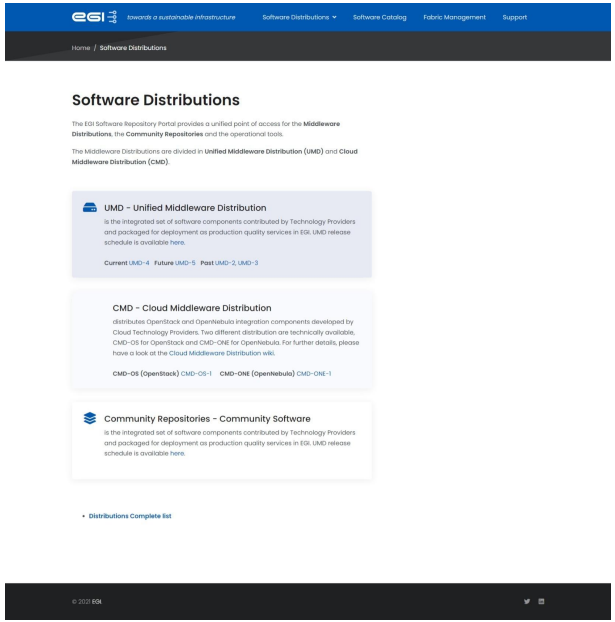


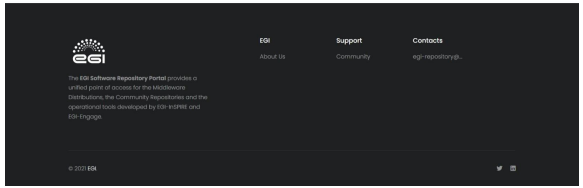
Tracking of the workflow all based on git

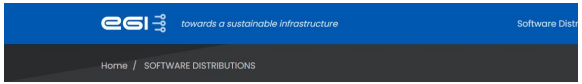


Frontend
New Design









SOFTWARE-DISTRIBUTIONS

Here you can find all the SOFTWARE-DISTRIBUTIONS distribution releases.

Filter by distribution:
UMD, CMD-OS, CMD-ONE, All

UMD-4.15.0 • published

UMD 4.15.0 is an update release of UMD 4. It includes StoRM 1.11.21, lcmaps-plugins 1.8.1, CERN Frontier 4.15.2, dmlite 1.15.0, APEL SSM 3.2.1, DDNS Nagios probe 1.0.1, dCache 6.2.24, Infrastructure Manager Nagios probe 1.0.1

UMD-4.14.0 • published

UMD 4.14.10 is an update release of UMD 4. It includes ARC 6.12.0, xrootd 5.2.0, xrootd 5.2.0, davix 0.7.6, gridftp 13.24.1, gfal2 2.18.2

Software Catalog

Filter by distribution:
UMD, CMD-OS, CMD-ONE, All

apel.apel-ssm-2.3.0 CMD-OS-1.3.0 • published 2020-02-18 11:34:44

Secure Stomp Messenger (SSM) is designed to simply send messages using the STOMP protocol. Messages are signed and may be encrypted during transit. Persistent queues should be used to guarantee delivery.

capabilities File Management Resource Manager

apel.apel-1.8.1 CMD-OS-1.3.0 • published 2020-02-18 11:34:44

The APEL project provides grid accounting for EGI. It is written in Python and uses MySQL.

undefined capabilities File Management Resource Manager

ifca.caso-1.4.0 CMD-OS-1.3.0 • published 2020-02-18 11:34:44

cASO is a pluggable extractor of Cloud Accounting Usage Records from an OpenStack installation. cASO gets usage information from nova or ceilometer APIs and can generate valid output for Apel SSM or logstash.

undefined capabilities File Management Resource Manager

infoprovider.cloud-info-provider-0.12.0 CMD-OS-1.3.0 • published 2020-02-18 11:34:44

dcache.dcache 6.2.24

deployed • UMD 4.15.0 • published 2021-07-23 13:39:45

dCache provides system for storing and retrieving huge amounts of data, distributed among a large number of heterogenous server nodes, under a single virtual filesystem tree with a variety of standard access methods.

Notes https://www.dcache.org/old/downloads/1.9/release-notes-6.2.shtml

Installation --
Additional Details --

Documentation Links

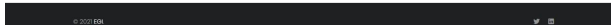
- https://www.dcache.org/manuals/index.shtml

Repository Url
/sw/production/umd/4

Contacts
juergen.starek@desy.de

Target platforms (1) Issues (0) Change log

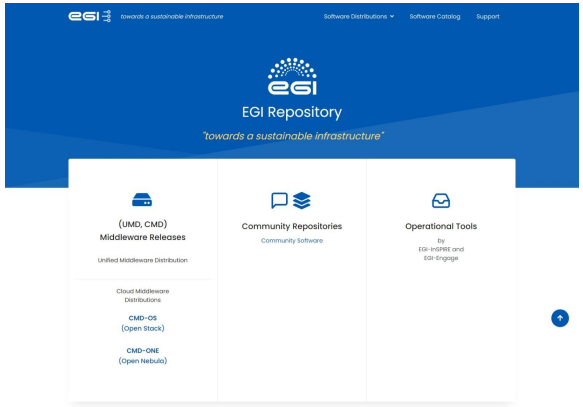
Platform	Architecture	repository
centos7	x86_64	/sw/production/umd/4/centos7/x86_64/updates

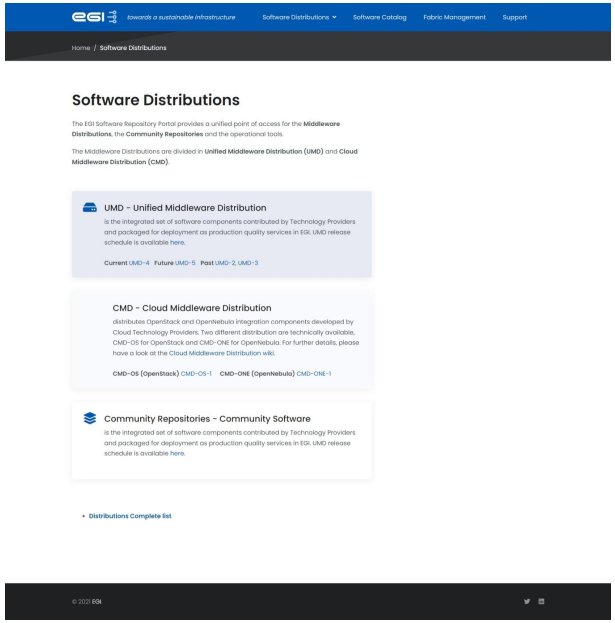


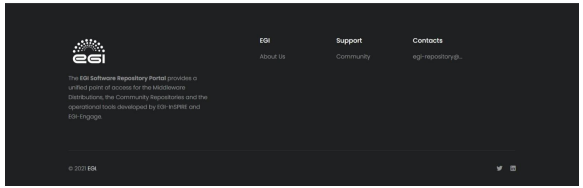
Frontend
New Design

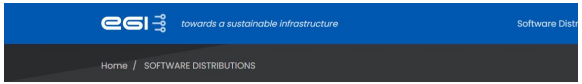
Based on
Html / Javascript / Json
making it **easy to maintain.**

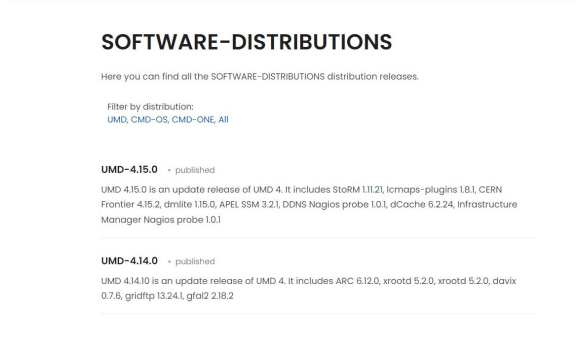
Testbed:
https://dev-repository.a.incd.pt

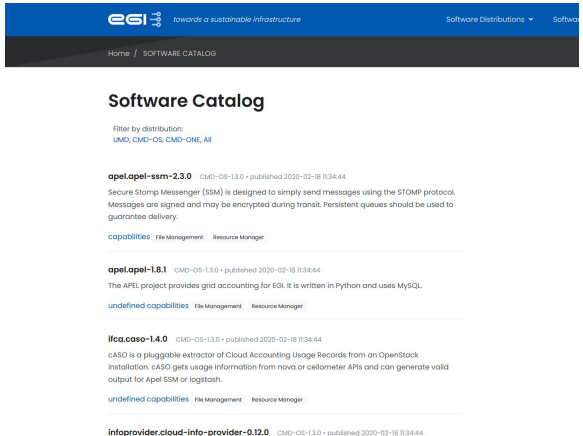


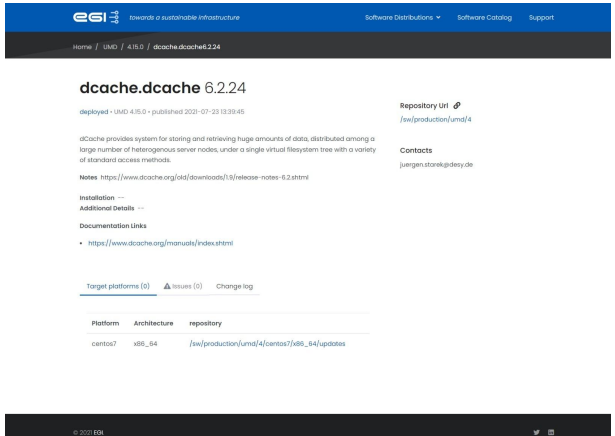




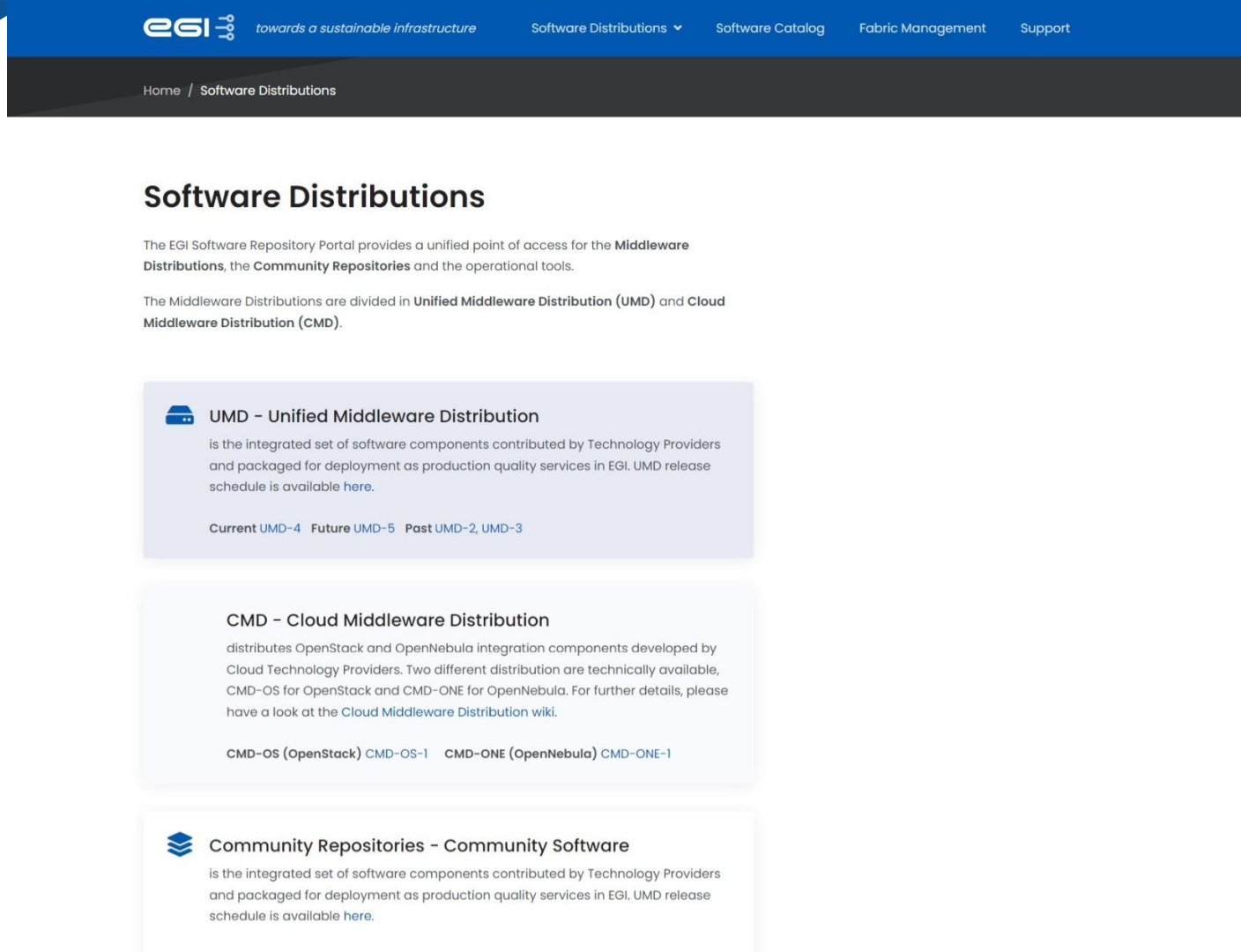








Frontend



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Frontend

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End

Questions?