Contended of the second structure (UMD/CMD)

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Repositories

EGI Repositories



The EGI Software Repository provides access for the <u>middleware distributions</u> together with some <u>Community Repositories</u>

Three main categories:

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

OS Support

• Centos 7 : UMD-4

Provider:

• IBERGRID since 2021

Cloud Middleware Distribution (CMD):

specific middleware for OpenStack and OpenNebula integration components **IGTF** Distribution of <u>Authority Trust Anchors</u>: packages with the trust anchor information

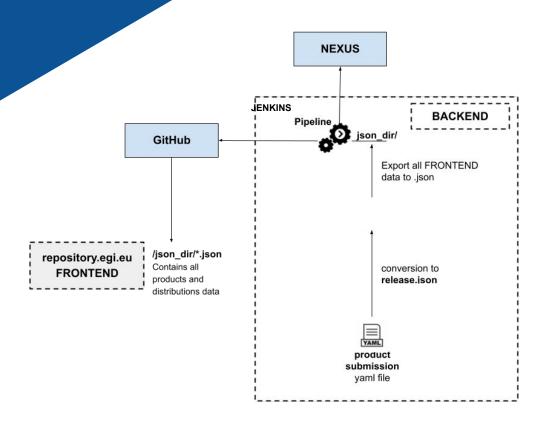
Repositories

EGI Repositories

- Since 2021 new service provider IBERGRID
- Bidding proposal included a complete redesign of the service
 - New infrastructure based on Nexus Repository OSS
 - Release workflow implemented in Jenkins
- New public webpages
- Quality assurance Full-automated approach
 - Faster release cycle with higher automation and less manual intervention

Architecture

New architecture

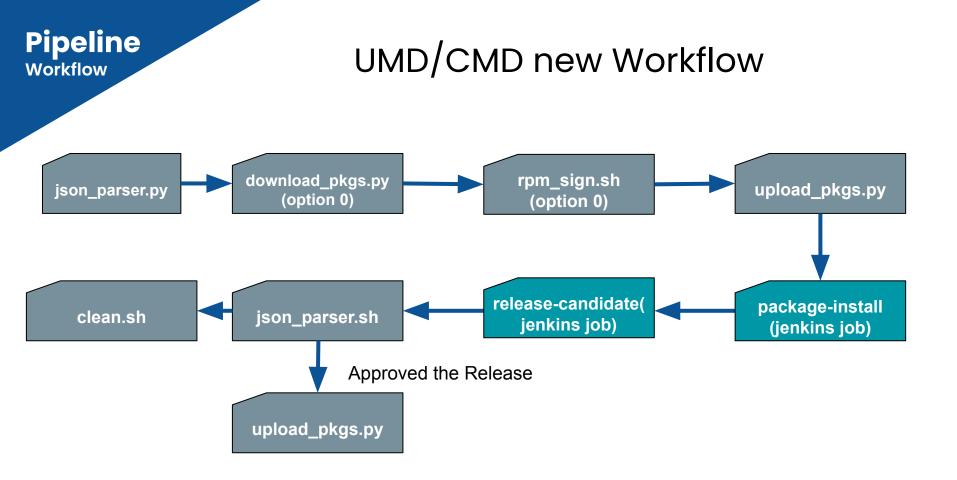


New setup:

- 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 1 quarter of 2023 UMD-5 ONLY
- UMD-4 will use old infrastructure
- CA's will be moved after UMD-5 (no changes in path's)

Future:

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





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

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. **Package-install**: Validate package installations from testing repository and perform functional tests.
- 7. release-candidate: Install all packages in release repo together with the new packages from testing
- 8. **json_parser.sh**: Produce new json file as asset of the new release
- 9. **clean.sh**: clean temporary directories.



UMD-5 only

- 1. **contrib**: repository for specific communities or special services. (**NEW**)
- 2. **release**: Main repository with all the packages (**= to production**).
- 3. **testing** : testing repository with rpm not fully validated in production environment. RPM belonging to release declared as production ready will be moved from testing to release.

Tracking of the workflow all based on git

Search or jump to	Pull requests	lssues Mark	etplace Ex	cplore		
G egi-qc/software-releases	3					
<> Code () Issues 2 ^{#†} Pull reque	sts () Actions	Projects	🖽 Wiki	Security	🗠 Insights	翁 Settings

r	master - 1 6 branches 🔊 0 tags	Go to file Add file	Code -
	mariojmdavid Merge pull request #11 1	from egi-qc/feature/pipeline_work_uptodate 🔤 🗸 sba7fad 25 days ago	3 62 commits
	imgs	new scripts for the pipeline - repos umd/cmd	4 months ago
	json	Do not include the version as part of the file name.	2 months ago
	scripts	fix bash script	27 days ago
۵	.gitignore	Ignore Python compilation files	2 months ago
٥	Dockerfile.build	Install git command	2 months ago
C	Jenkinsfile	Initialize pkg_list variable	25 days ago
0	README.md	update README	27 days ago
Ľ	pylintrc	add class Config with environment variables, document conf options	27 days ago
0	requirements.txt	No need to have json module as requirement.	2 months ago

Ξ README.md				
Repositories for EGI UMD/CMD				
EGI repository b	backend scripts and pipelines, for UMD/CMD releases.			
The pipeline is a	as follows:			
1. parse json,	, get the list of files to download and produce list of filenames (packages).			
2. download t	the packages to a temporary directory.			

3. rpm sign each package.

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4. verify signature of each package. a. verification of the packages

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[UMD-5]

name=UMD 5 (Alma Linux 9)

baseurl=https://nexusrepoegi.a.incd.pt/repository/umd/5/al9/release/\$basearch-

protect=1

enabled=1

To use priorities you must have yum-priorities installed

priority=1

gpgcheck=1

gpgkey=https://nexusrepoegi.a.incd.pt/repository/umd/UMD-5-RPM-PGP-KEY

EPEL 9 required

UMD higher priority than EPEL

Priorities already para of DNF

Non official link



[UMD-5-testing]

name=UMD 5 (Alma Linux 9)

baseurl=https://nexusrepoegi.a.incd.pt/repository/umd/5/al9/testing/\$basearch

protect=1

enabled=0

To use priorities you must have yum-priorities installed

priority=1

gpgcheck=1

gpgkey=http://repository.egi.eu/umd/5/UMD-RPM-PGP-KEY

Non official link



[UMD-5-contrib]

name=UMD 5 (Alma Linux 9)

baseurl=https://nexusrepoegi.a.incd.pt/repository/umd/5/al9/contrib/\$basearch

protect=1

enabled=0

Non official link

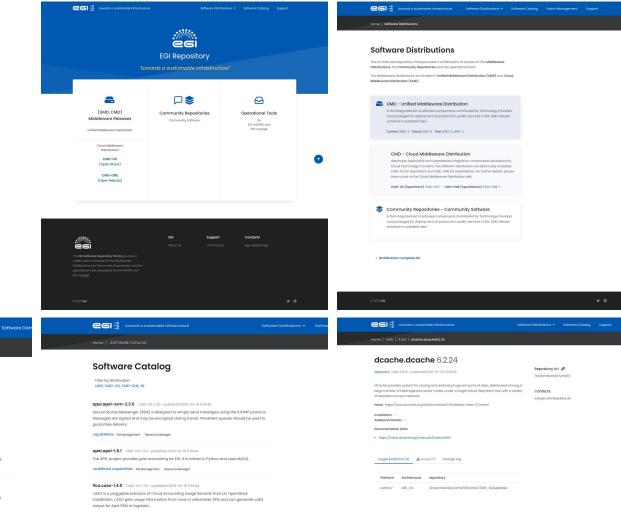
To use priorities you must have yum-priorities installed

priority=2

gpgcheck=1

gpgkey=http://repository.egi.eu//umd/5/UMD-RPM-PGP-KEY

Frontend New Design



CCI 式 towards a sustainable infrastructure

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 415.0 is an update release of UMD 4.1 tincludes StoRM U121, Icmaps-plugins 1.8.1, CERN Frontier 415.2, dmilte 1150, AFEL 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

undefined capabilities File Management Resource Manager

informovider cloud-info-provider-012.0 com-os-13.0 comestered 2020-02-18 II 3444

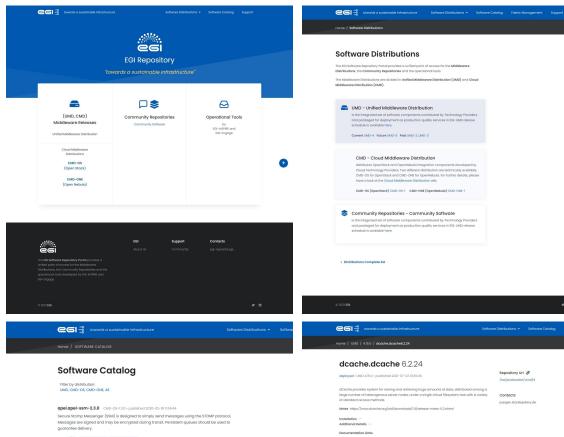
12

Frontend **New Design**

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

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

Software Di



SOFTWARE-DISTRIBUTIONS

CCI 🛃 towards a sustainable infrastructure

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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, Icmaps-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

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 Manage

Ifca.caso=1.4.0 CMD-OS-13.0 + 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

informovider cloud-info-provider-0.12.0 CMD-05-13.0 - CMD-02-38 IP3444

Repository Url 🔗 /sw/production/umd/- https://www.dcache.org/manuals/index.shtml Target platforms (0) A Issues (0) Change log Platform Architecture repository

/sw/production/umd/4/centos7/x86_64/updates

centos7 x86 64

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Home / Software Distributions

Software Distributions

The EGI Software Repository Portal provides a unified point of access for the Middleware Distributions, the Community Repositories and the operational tools.

The Middleware Distributions are divided in Unified Middleware Distribution (UMD) and Cloud Middleware Distribution (CMD).

UMD - Unified Middleware Distribution

is the integrated set of software components contributed by Technology Providers and packaged for deployment as production quality services in EGI. UMD release schedule is available **here**.

Current UMD-4 Future UMD-5 Past UMD-2, UMD-3

CMD - Cloud Middleware Distribution

distributes OpenStack and OpenNebula integration components developed by Cloud Technology Providers. Two different distribution are technically available, CMD-OS for OpenStack and CMD-ONE for OpenNebula. For further details, please have a look at the Cloud Middleware Distribution wiki.

CMD-OS (OpenStack) CMD-OS-1 CMD-ONE (OpenNebula) CMD-ONE-1

Community Repositories - Community Software

is the integrated set of software components contributed by Technology Providers and packaged for deployment as production quality services in EGI. UMD release schedule is available here.

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Home / SOFTWARE DISTRIBUTIONS

SOFTWARE-DISTRIBUTIONS

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

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

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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

UMD-4.13.1 • published

UMD 4.13.1 is a fix release of UMD 4. It includes a new releases for CERN Frontier.

UMD-4.13.0 • published

UMD 4.13.0 is an update release of UMD 4. It includes new releases for ARC, APEL, StoRM, VOMS admin server, VOMS client, CVMFS

UMD-4.12.6 • published

UMD 4.12.6 is an update release of UMD 4. It includes new packages for ARGO AMS library and APEL

SSM

egi 🗄

Home / SOFTWARE CATALOG

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

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undefined capabilities File Management Resource Manager

Home / UMD / 4.15.0 / dcache.dcache6.2.24

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

Target platforms (0)
A Issues (0) Change log

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

Repository Url &

Contacts

juergen.starek@desy.de

UMD-5 (release plan)

- First release end of March
 - Need to implement an HA proxy in order to properly guide traffic between UMD-4 and UMD-5
- List of products (provisory):
 - BDII and site-bdii
 - o Gfal2
 - Dcache
 - Globus (evaluation)
 - HTCondor-CE





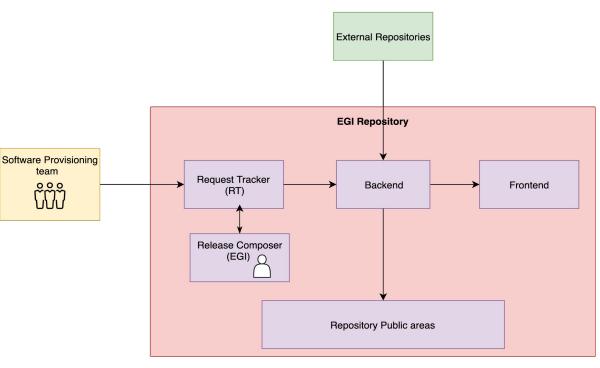


Repositories

Current architecture



- 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)





One year access data

Dashboard

Last Updated: 2022-09-23 14:47:13 +0000

