Invenio Bundles

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CERN

What you've seen and haven't seen:

- https://invenio.readthedocs.io/en/latest/general/bundles.html

Files

Bucket operations

Create a bucket:

```
$ curl -X POST http://localhost:5000/files
```

List objects:

```
$ curl http://localhost:5000/files/$B
```

List object versions:

```
$ curl http://localhost:5000/files/$B?versions
```

List multipart uploads:

```
$ curl http://localhost:5000/files/$B?uploads
```

Check bucket existence:

```
$ curl -i -X HEAD http://localhost:5000/files/$B
```

Files

Object operations

Download a file:

```
$ curl -i http://localhost:5000/files/$B/AUTHORS.rst
```

Upload a file:

```
$ curl -i -X PUT --data-binary @../INSTALL.rst \
  http://localhost:5000/files/$B/INSTALL.rst
```

Delete a file (creates a delete marker):

```
$ curl -i -X DELETE http://localhost:5000/files/$B/INSTALL.rst
```

Remove a specific version (removes file from disk):

```
$ curl -i -X DELETE http://localhost:5000/files/$B/INSTALL.rst?version
```

Files

Multipart file upload

Create a multipart upload:

```
$ curl -i -X POST \
  "http://localhost:5000/files/$B/LICENSE?uploads&size=8&partSize=4"
```

List parts of a multipart upload:

```
$ curl http://localhost:5000/files/$B/LICENSE?uploadId=...
```

Upload parts:

```
$ echo -n "aaaa" | curl -i -X PUT --data-binary @- \
  "http://localhost:5000/files/$B/LICENSE?uploadId=...&partNumber=0"
$ echo -n "bbbb" | curl -i -X PUT --data-binary @- \
  "http://localhost:5000/files/$B/LICENSE?uploadId=...&partNumber=1"
```

Complete a multipart upload (Celery must be running):

```
$ curl -i -X POST http://localhost:5000/files/$B/LICENSE?uploadId=...
```

Abort a multipart upload (Celery must be running):

```
$ curl -i -X DELETE http://localhost:5000/files/$B/LICENSE?uploadId=..
```

Files

- Location (storage system)
- Bucket (folder)
- Object (file)
- ObjectVersion (file version)
- FileInstance (physical file)

Files

File Instance

List   Details

Filter

ID	7a0e51a7-ca1e-435a-8a41-40fadeb8b556
URI	root://eosmedia.cern.ch//eos/media/zenodo/prod/data/7a/0e/51a7-ca1e-435a-8a41-40fadeb8b556/data
Storage Class	S
Size	85469
Checksum	md5:4f1772914005392cb45a63a19e2c6dc3
Readable	True
Writable	False
Fixity	True
Checked	2019-03-21 08:01:11.873874
Created	2018-05-23 15:14:23.727375
Updated	2019-03-21 08:01:11.875080
Objects	Objects

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Files

AngularJS to React

Getting help

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Where and how to get help?

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Getting help

Didn't find a solution to your problem the Invenio documentation? Here's how you can get in touch with other users and developers:

Forum/Knowledge base

- https://github.com/inveniosoftware/troubleshooting

Ask questions or browse answers to exsiting questions.

Chatroom

- https://gitter.im/inveniosoftware/invenio

Probably the fastest way to get a reply is to join our chatroom. Here most developers and maintainers of Invenio hangout during their regular working hours.

GitHub

- https://github.com/inveniosoftware

Where and how to get help?

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Community

Roadmap

Current
What we work on now

Development
Invenio v3.1 Release
- Webpack and improved docker support.
- Scheduled for release in March 2019.

Community
Invenio User Group Workshop 2019 and Invenio v3 Training Bootcamp
- Plan and prepare Invenio v3 Training Bootcamp @ CERN.
- Plan and prepare Invenio User Group Workshop 2019 (IUGW2019) to be held at Open Repositories 2019 in Hamburg.

Development
Files Bundle

Document and prepare final releases of the following modules:
- Invenio-Files-REST
- Invenio-Records-Files
- Invenio-Previewer

Near-term
What we plan work on next

Development
Statistics Bundle

Document and prepare final releases of the following modules:
- Invenio-Stats
- Invenio-Queues
- COUNTER-Robots

Development
Invenio v3.2 Release

Files, Statistics bundles. Scheduled for release in mid-2019.

Development
Internationalization (I18N)
- Translate all v3.0 Invenio modules into at least one other language.
- Develop translation workflow into package release process.

Future
What we investigate

Development
Deposit Bundle

Development
Invenio RDM Flavour

Invenio Research Data Management (RDM) system based on Zenodo.

Funded via the CERN Knowledge Transfer Fund and collaborating institutes.

Interoperability
COAR Next Generation Repositories (NGR)
- SWORD3
- ResourceSync
- Signposting
- COUNTER
- SUSHI

See http://ngr.coar-repositories.org/

(with Japan National Institute of Informatics)

Resources

- Releasing, documenting, …:

  - Every 3-months: 14-day sprint (~15 people)

- New features:

  - 7 services @ CERN developing new features.

Maintenance

- <u>Architects:</u> Long-term contributors (merge access everywhere)
- <u>Maintainers:</u> Significant contributions (merge access on specific repositories)

- Serving the community

Maintenance policy

End of life dates

Release	Earliest EOL Date	Maintained until
v3.1.0	2020-03-31	v3.3.0
v3.0.1	2019-06-07	v3.2.0
v3.0.0	2019-06-07	v3.2.0
v2.x.y	2018-06-07	v3.0.0
v1.x.y	2018-06-07	v3.0.0

Copyright policy

Tracking copyright

Copyright statements

Copyright statements must be included in:

- `LICENSE` file in the root of the repository.
- Headers of all source code files.

Each copyright holder must have their own copyright statement:

```
Copyright (C) 2015-2018 CERN
Copyright (C) 2017 TIND
```

Copyright holders

Each copyright holder **must** be a legal entity.

Copyright is tracked for non-trivial contributions (i.e. creative work). By default we consider anything above 15 lines for a non-trivial contribution. Examples for which we do not track copyright is e.g. fixing a typo or tiny bug fixes.

Maintainer responsibility

Maintainers are responsible for asking each contributor who is the copyright holder of a given contribution (often, it's the employer who holds the copyright).

Attribution

Attribution is not tracked via copyright, but via the `AUTHORS` file.

Copyright policy

Explicit agreement

Contribtions only via GitHub

All contributions must be opened via pull requests on GitHub.

This way contributors have agreed to the GitHub Terms of Use, which states:

> "Whenever you make a contribution to a repository containing notice of a license, you license your contribution under the same terms, and you agree that you have the right to license your contribution under those terms."

Code of conduct & governance

- Open, considerate, respectful: Over all, we're good to each other.

- Decision making: Strive for consensus.
- Conflict resolution: Product Manager (last resort CERN hierarchy)

Invenio User Group Workshop 2019

- Open Repositories 2019:
  - June 10th: full day workshop
  - June 11-13th: Conference

- Call for proposals

Questions?