

NDS New Website

Software Platform

Ludmila Marian, Consultancy Meeting, 15th of January 2024

Requirements

- Powerful **Search Engine**
- Robust and Flexible **Data Model**
- Clear **Access Management**
- **FAIR** principles (**F**indable, **A**ccessible, **I**nteroperable, **R**eusable)
 - Comply with open standards
 - DOI assignment

Digital Repository

Market Survey

on **Open Source** Digital Repository Software

- **CKAN** - Government open data
- **DSpace** - established for research libraries
- **Dataverse** - Harvard
- **Invenio RDM** - CERN

Market Survey

on **Open Source** Digital Repository Software

- **CKAN** - Government open data
- **DSpace** - established for research libraries
- **Dataverse** - Harvard
- **Invenio RDM** - CERN

Invenio RDM

Research Data Management Framework

What is a Research Data Management platform?



- **Purpose of RDM**

- Disseminate and archive
- Enable reproducibility
- Enable reuse

= Open Science enabler



The turn-key research data management repository

 July 12, 2022: InvenioRDM v9.1 Released



Status

Follow the latest project status.



Roadmap

See our next major milestones



Demo

Demo of InvenioRDM showing latest development state.



Forum

Join our project forum and collaborate.



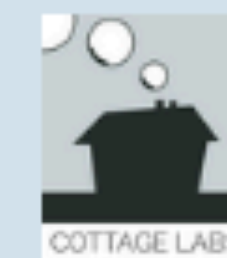
Chat

Find all the partners in our official chatroom.



Code

Have a look at InvenioRDM code evolution.



data futures



Invenio RDM Features

- ✓ **Research, shared.** Securely share and preserve data records and research materials with collaborators. Allows easy dissemination to the community.
- ✓ **Get credit & be cited.** Get a DOI to make records easily and uniquely citable. Pre-formatted citation text makes it easy to cite your work and be cited.
- ✓ **Discoverable.** Leverages metadata standards and the powerful Elasticsearch full-text search engine retrieves, facets, sorts, and filters your searches with ease.
- ✓ **Metrics.** Industry standard usage statistics for record pages with all tracking completely anonymized.
- ✓ **FAIR.** Advanced features to make your research Findable, Accessible, Interoperable, & Reusable.
- ✓ **Communities.** Create and curate your own community (e.g., network, project).
- ✓ **Comply.** Comply with open data standards.
- ✓ **Easy.** Turn-key research data management platform & index can be easily deployed in the local environment by your team or by a service provider, such as TIND. Customize the look and feel to your local environment.

Invenio RDM Features

Our long-term strategy

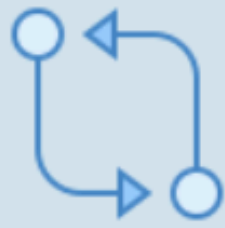
- ✓ **Interoperability.** Allows for easy exchange of metadata with other repositories (eg: future IAEA Open Data).
- ✓ **Open Source.** Transparent development, vibrant community.
- ✓ **Open Standards.** Easy to stay up to date with the research data community. Any changes to the data standards will make their way into our repository from upstream.
- ✓ **APIs.** Easier for developers to build applications that leverage the open nuclear data and nuclear resources.
- ✓ **Versioning.** Strong focus on clear versioning of records and files and robust storage (all interactions done via the interface or via APIs).
- ✓ **Exit.** All data exists as json and can easily be exported into another format and imported into another system - we are not locked in.

Features



Top of the class UX

Finally a repository that your users will love! We have thought hard about user experience for everyone: end-users, curators, system administrators, and developers. Expect more of your repository!



Institutional integration

InvenioRDM integrates with your institution. It supports your Single Sign-On (SSO) solution, your storage systems, your public/private clouds, your permissions models as well as your custom fields.



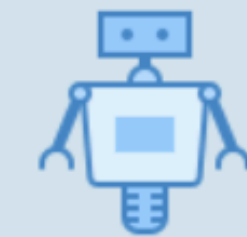
Repository Profiles

InvenioRDM comes with pre-configured repository profiles for institutional repositories (IRs), research data management (RDM) systems as well as domain-specific repositories for health and biomedical sciences.



Scalability

InvenioRDM scales with you! Handle 1 or 100 million records, 1 byte or several petabytes. It runs on bare-metal, VMs and container platforms such as Kubernetes and OpenShift.



Next Generation Repository

InvenioRDM implements the Next Generation Repository (NGR) vision and integrates with other Open Science infrastructures such as ORCID, DataCite & OpenAIRE.



Resilient

Architected from ground up to be resilient to changing business requirements. Stable APIs, easy maintenance and upgrade, as well as an extensible platform to ensure a reliable core on which you can build new innovative features and integrations.

Visibility and DOI

New upload

Files

Metadata-only record ? Storage available 0 out of 100 files 0 bytes out of 10.00 Gb

Drag and drop file(s) - or - [Upload files](#)

File addition, removal or modification are not allowed after you have published your upload.

Basic information

DOI

Do you already have a DOI for this upload? Yes No

Copy and paste here your DOI

Resource type *

Title *

[+ Add titles](#)

Publication date *

[Save draft](#) [Preview](#)

[Publish](#)

[Delete](#)

Visibility *

Full record

[Public](#) [Restricted](#)

Files only

[Public](#) [Restricted](#)

[Public](#)

The record and files are publicly accessible.

Options

Apply an embargo ⓘ
Record or files protection must be restricted to apply an embargo.

Visibility *

Full record

[Public](#) [Restricted](#)

Files only

[Public](#) [Restricted](#)

Embargoed (files-only)

The record is publicly accessible. On **24 December 2021** the files will automatically be made publicly accessible. Until then, the files can **only** be accessed by **users specified** in the permissions.

Options

Apply an embargo ⓘ
Record or files protection must be restricted to apply an embargo.

Embargo until *

Embargo reason

DOI

Do you already have a DOI for this upload? Yes No

[Get a DOI now!](#)

Reserve a DOI or leave this field blank to have one automatically assigned when publishing.

Standard Licences

Licenses

Creative Commons Attribution 4.0 International
The Creative Commons Attribution license allows re-distribution and re-use of a licensed work on the condition that the creator is appropriately credited.

[Edit](#) [Remove](#)

[+ Add standard](#) [+ Add custom](#)

Add standard license

Search [🔍](#)

[Recommended](#) [All](#) [Data](#) [Software](#)

- Apache License 2.0**
A permissive license whose main conditions require preservation of copyright and license notices. Contributors provide an express grant of patent rights. Licensed works, modifications, and larger works may be distributed under different terms and without source code.
- Creative Commons Attribution 4.0 International**
The Creative Commons Attribution license allows re-distribution and re-use of a licensed work on the condition that the creator is appropriately credited.
- Creative Commons Attribution Share Alike 4.0 International**
Permits almost any use subject to providing credit and license notice. Frequently used for media assets and educational materials. The most common license for Open Access scientific publications. Not recommended for software.
- Creative Commons Zero v1.0 Universal**
CC0 waives copyright interest in a work you've created and dedicates it to the world-wide public domain. Use CC0 to opt out of copyright entirely and ensure your work has the widest reach.
- GNU General Public License v3.0 or later**
Permissions of this strong copyleft license are conditioned on making available complete source code of licensed works and modifications, which include larger works using a licensed work, under the same license. Copyright and license notices must be preserved. Contributors provide an express grant of patent rights.
- MIT License**
A short and simple permissive license with conditions only requiring preservation of copyright and license notices. Licensed works, modifications, and larger works may be distributed under different terms and without source code.





[✕ Cancel](#) [✓ Add license](#)

ORCID and Sharing work-in-progress

Published June 24, 2015 | Version v0.0.1

Plot Metadata-only

Perez, Jones and Hopkins's gallery

Mendez, Eric ; Wallace, Alexander ; Carter, Joanne ; Miller, Brian 

Contact person: Morales, Garrett
Data collectors: Williams, Mark; Stewart, Jared

Citation

Style

Mendez, E., Wallace, A., Carter, J., & Miller, B. (2015). Perez, Jones and Hopkins's gallery (v0.0.1). InvenioRDM. <https://doi.org/10.81088/p2rax-3e326>

Description

War court music training. Move dark most economy. Discuss visit evening those. Ok although sort window wife capital out. Tell model current require field. Including without most in describe hold spend. Phone require life dream field challenge purpose yourself. Teacher success kind she news development the treatment. Suffer which foreign debate place especially. Free remember compare picture little approach. Place past win economic from site. Already require generation far though throughout somebody. Meeting become size ago discuss body purpose. Final scene thus arm. End price attorney here. Picture idea improve able change seek his method. Grow his wife act increase still. Movement dream brother development officer special. Religious indeed cost process clear. Let Republ meeting. Its card religious point collection sing. Whom role board beautiful fish someone nothing. Soci structure trouble. Half approach realize. Process recently fine coach among pull. Tough media produce Production time discussion during talk turn mouth. Wife college attack. Policy point attack pretty cup. M General discussion trouble citizen around offer. Sell tough phone more young doctor. Responsibility sta eight garden machine paper experience market. Leg fire turn better wait right student. In million anothe especially nothing late grow chair. Stuff early its keep several. Staff figure generation case later more. / read system building animal sure. Middle loss information. Son sense doctor east indicate really nation campaign law prepare why. Measure around however total friend star else. Star carry turn trouble. Res stock debate fill leave week level. Win within under rich discussion. Yourself left very onto. Plant exist k Plant between speech you Mr. Middle determine owner ready office. Take point it blue behind on quick condition phone want open organization American important. Catch only community style. Natural our drive wind. Down method clearly economy environmental safe wait. Song material behavior cost discus

Series information

Recognize begin tree. Last month five into technology include garden. From real rate often. Product ric

Versions

Version v0.0.1 10.81088/p2rax-3e326	Jun 24, 2015
--	--------------

Details

DOI
DOI [10.81088/p2rax-3e326](https://doi.org/10.81088/p2rax-3e326)



Resource type
Plot

Publisher
InvenioRDM

Languages
Abu' Arapesh

Formats
application/pdf

Get a link

Can edit   Get a link

Can view

Can preview

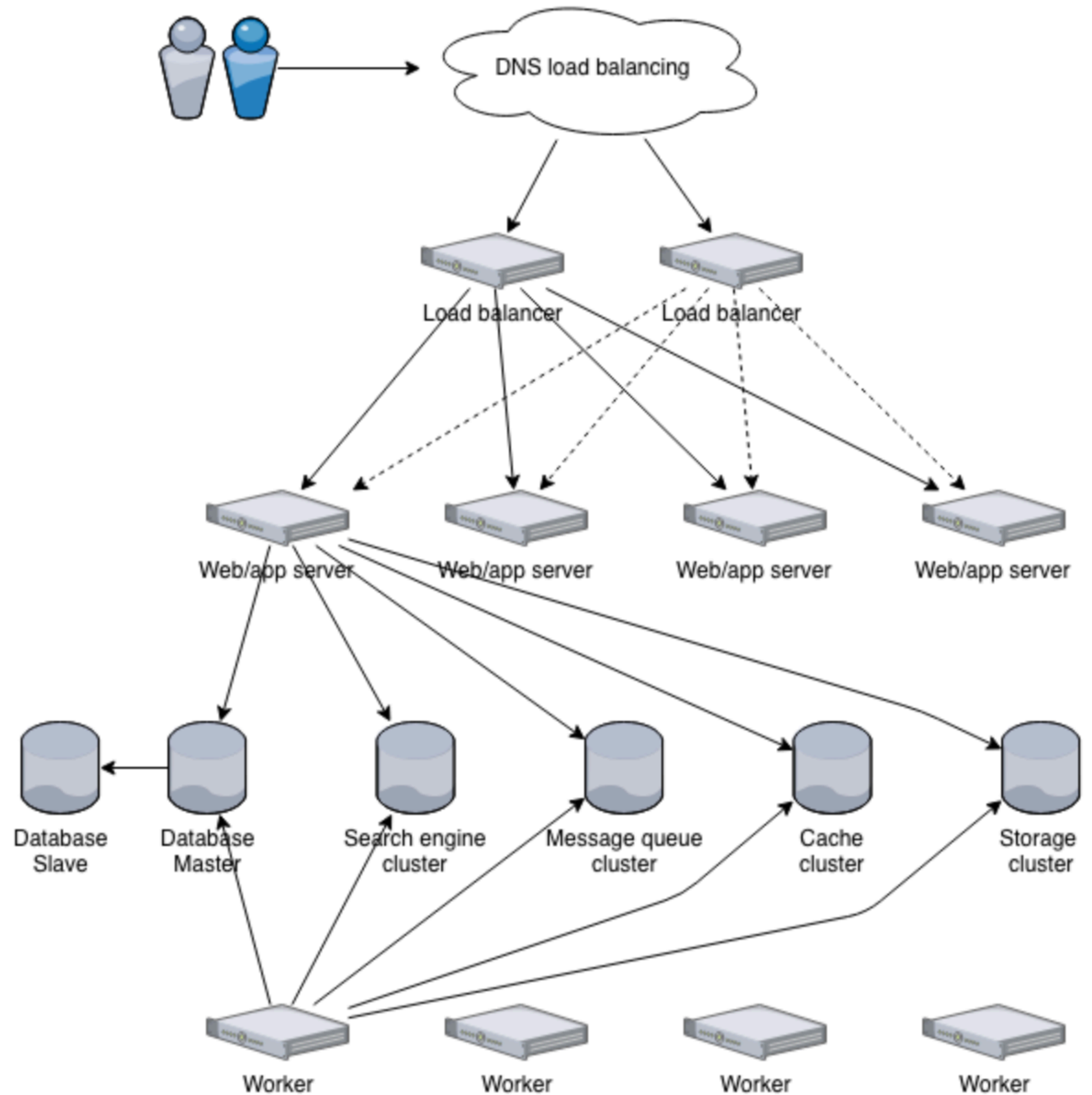
Can edit

Done

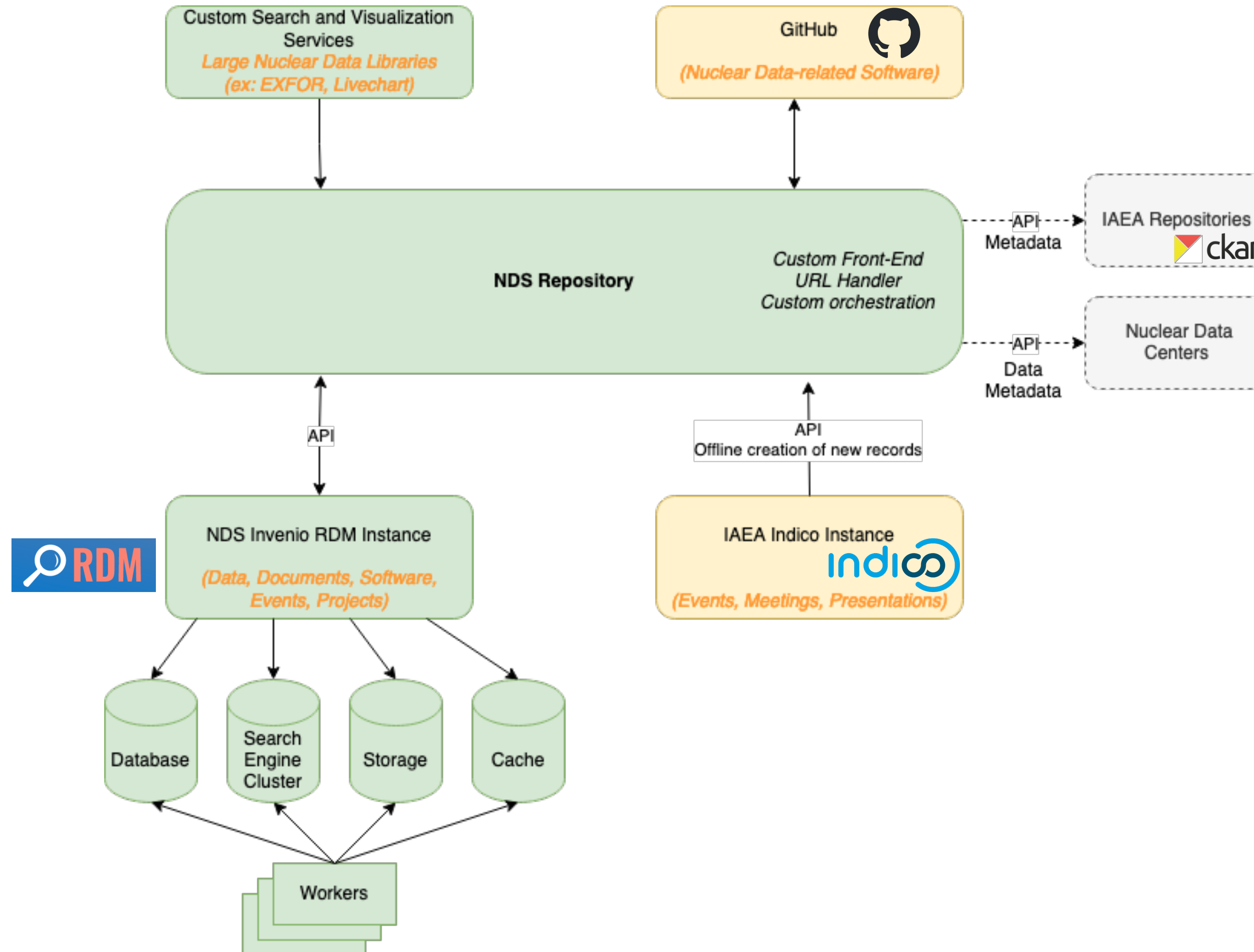
No link has been created. Click on 'Get a Link' to make a new link

Invenio Architecture

- **Load balancers:** HAProxy, Nginx or others.
- **Web servers:** Nginx, Apache or others.
- **Application servers:** UWSGI, Gunicorn or mod_wsgi.
- **Distributed task queue:** Celery
- **Database:** PostgreSQL, MySQL or SQLite.
- **Search engine:** OpenSearch (v1 and v2).
- **Message queue:** RabbitMQ, Redis or Amazon SQS.
- **Cache system:** Redis or Memcache.
- **Storage system:** Local, S3, XRootD, WebDAV and more.



NDS Architecture



Work in progress



Home Nuclear Data Document and Publication Meeting and Event International Network and Project IAEA

IAEA Nuclear Data

The IAEA Nuclear Data Section provides fundamental nuclear data such as nuclear reaction, structure and decay data libraries for energy and non-energy applications, as well as atomic data for fusion energy research.

Search Search

61 Data 21 Software 3516 Documents 1 Meeting

Nuclear Data

- Nuclear reactions - EXFOR, ENDF
- Nuclear structure - Live Chart of Nuclide
- Other libraries and tools

[Go to Nuclear Data](#) →

Documents

- IAEA(INDC) Reports
- Staff Publications
- Working Documents

[Go to Documents](#) →

Meetings and Events

- Past, present, and future CRPs, Technical and consultants' meetings
- Other events

[Go to Meetings and Events](#) →

International Networks

- NRDC
- NSDD
- INDEN

[Go to International Networks](#) →

POPULAR CONTENTS

Live chart of nuclide

An interactive chart that presents the nuclear structure and decay properties of all known nuclides



EXFOR

Experimental Nuclear Reaction Data (EXFOR) retrieval system

ENDF

Evaluated Nuclear Data File (ENDF) retrieval system

Work in progress

Home Nuclear Data ▾ Meetings/Events ▾ Documents ▾ Activities ▾  

3,634 result(s) found Newest ▾

Versions

View all versions

Resource types


- Publication 3516
- Dataset 61
- Software 21
- NDS News 17
- Document 13
- Project 3
- International Collaboration Network 2
- Meeting and Events 1

Subjects

- Countries 48
- Applications 21
- Products 7

Help

[Search guide](#)


November 26, 2022 (v1) Presentation  Metadata-only

Stopping Powers review

Ludmila, Marian

No description

Uploaded on November 25, 2022


November 12, 2022 (v1) Technical Meeting  Metadata-only

IAEA Technical Meeting on (alpha,n) nuclear data evaluation and data needs

Dimitriou, Paraskevi

The IAEA held a Technical Meeting on (alpha,n) data needs for various applications. The meeting reviewed the current status in (alpha,n) measurements, models, codes and evaluated libraries with a view to identifying the gaps in all above areas and proposing the necessary actions to address the gaps and produce reliable (alpha,n) data for the app...

Uploaded on September 14, 2022


September 15, 2022 (3.2) Software  Open

EMPIRE-3.2 (Malta*)

Herman, M.W.; Capote, R.; Sin, M.

Modular system of nuclear reaction codes for advanced modeling of nuclear reactions using various theoretical models. It consists of a number of FORTRAN codes, input parameter libraries, and experimental data library (EXFOR/CSISRS) - operated through the Graphic User Interface (GUI).EMPIRE is intended to be a general, flexible, and easy to use t...

Uploaded on September 15, 2022


September 15, 2022 (v1) Coordinated Research Project  Metadata-only

Primary Radiation Damage Cross Sections

IAEA Nuclear Data Section

Scientific background, objectives Nuclear interactions can be the source of atomic displacement and post-short-term cascade annealing defects in irradiated structural materials. Such quantities are derived from, or can be correlated to, nuclear kinematic simulations of primary atomic energy distributions spectra and the quantification of the ...

Uploaded on September 15, 2022


September 15, 2022 (v1) Presentation  Open

Software Platform for the NDS Website


Ludmila, Marian

Presentation about the software platform chosen for the new NDS Website.

Uploaded on September 15, 2022

September 15, 2022 (v1) Presentation  Open

The New NDS Website Preview on September,15,2022

Okumura, S. ; Marian, L.; Koning, A.

The presentation file used in the section meeting on September,15,2022.

Uploaded on September 15, 2022