Introduction to institutional repositories and the software platform

Anusha Ranganathan
anusha@cottagelabs.com
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Cottage Labs

What are Institutional repositories?

➢ "An institutional repository is an archive for collecting, preserving, and disseminating digital copies of the intellectual output of an institution, particularly a research institution." - Wikipedia

➢ It contains the scholarly output of it's staff and students doing research

- ▪ Electronic theses and dissertations
- ▪ Monographs
- ▪ Conference proceedings, papers and maybe posters
- ▪ Journal Articles (pre-prints)
- ▪ Datasets

➢ The repositories are usually managed by the libraries

➢ Deposits into the repositories are mostly by the researchers

➢ Deposits are sometimes mediated by the library staff before being made available to the wider audience

Commonly used terms and TLAs

- IR – Institutional repository

- ETD – Electronic thesis and dissertations

- DOI – Digital object identifier

- PID / PURL / UUID – identifiers that are meant to be persistent

- IIIF - International Image Interoperability Framework

- Metadata - data [information] that provides information about other data
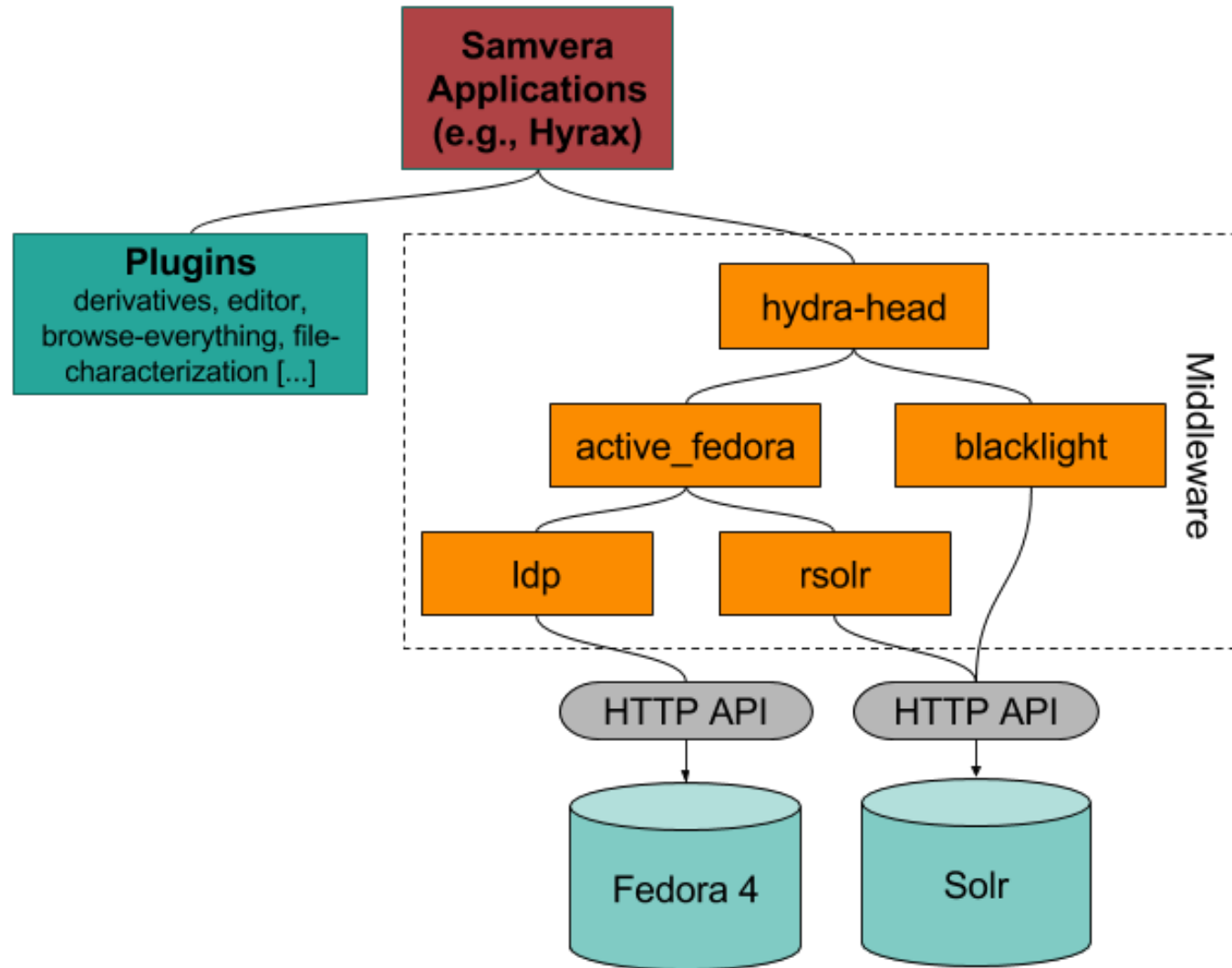 - Descriptive metadata
  - Administrative metadata

Samvera

➢ Samvera is community sourced software

➢ More than 10 years old

➢ Multiple components and outputs

➢ Convergence to Hyrax

Hyrax features

- ➢ See Hyrax feature matrix

Technology stack

Hyrax technology stack

- Multiple authentication mechanisms
  - Devise
  - Database
- Runs background tasks
  - For fixity checking, virus checking, creating derviatives
  - Sidekiq
  - Redis
- Sends notifications and mailers
  - ActionCable and ActionMailer
- Packages an image server and universal viewer
- Supports translations
- Multiple workflow support
- Has an actor stack which is called after when adding or updating an object

Hyku features

- ➢ Built using Hyrax

- ➢ Supports multi-tenancy

  - ▪ Uses the apartment gem

  - ▪ Can create tenants (or repositories) from Hyku

- ➢ Compartmentalizes the following

  - ▪ Database

  - ▪ Solr zoo keeper

  - ▪ Fedora

  - ▪ Active jobs Rake tasks

- ➢ See Hyku vs Hyrax

Useful links

- Samvera
  - https://samvera.org/
- Hyrax
  - http://hyr.ax/
  - Samvera and Hyrax documentation - http://samvera.github.io/
  - Hyrax on github
    - Hyrax Readme
    - Hyrax management guide
- Hyku
  - http://hydrainabox.samvera.org/
  - https://github.com/samvera-labs/hyku

Samvera community

➢ Getting help from the community

- Mailing Lists

  - Samvera Community mailing list (Samvera-community on google groups)

  - Samvera developers' mailing list (samvera-tech on google groups)

- Samvera slack

- Duraspace wiki

- See https://wiki.duraspace.org/pages/viewpage.action?pageId=87460391