

Hydra at The Royal Library



Hydra Europe Symposium, Dublin

7. April, 2014

Anders Conrad, asc@kb.dk

Involvement with Hydra



- We started with Hydra autumn of 2012
- Hydra camp October 2012
- First project released early 2013
- Became Hydra Partner January 2013

The Small and Fast Project



- Student paper self-deposit and discovery
- 2 months of development
- Dias.kb.dk

Firefox Breaking News (en) Fedora 4: The Incredible Shrinking Re... Alette Scavenius holder foredrag om ... DIAS

dias.kb.dk/?locale=en

DIAS THE ROYAL LIBRARY AND COPENHAGEN UNIVERSITY LIBRARY

LOGIN FAQ CONTACT DANSK COOKIE & PRIVACY POLICY

Browse Search...

ARCHIVE FOR UCPH STUDENT ASSIGNMENTS

In collaboration with StudentRådet

Digital Archive for Student Assignments contains assignments passed at the University of Copenhagen.

The archive offers you inspiration when writing assignments – get ideas for subjects, see examples of assignment structures, or simply read an interesting title.

Search for student assignments from the search bar above or upload your own assignments by logging in.

Enjoy.

Share your knowledge - upload your assignments

Log in

DET KONGELIGE BIBLIOTEK StudentRådet

THE ROYAL LIBRARY - POSTBOX 2149 - DK-1016 KØBENHAVN K - EAN: 5798 000795297 - PHONE (+45) 33 47 47 47 - KB@KB.DK

The Large and Slow Project



- A complete digital library infrastructure
- Three integrated main components:
 - Digital curation and archiving
 - Discovery and dissemination
 - Long-term preservation (bit repository)

Infrastructure overview

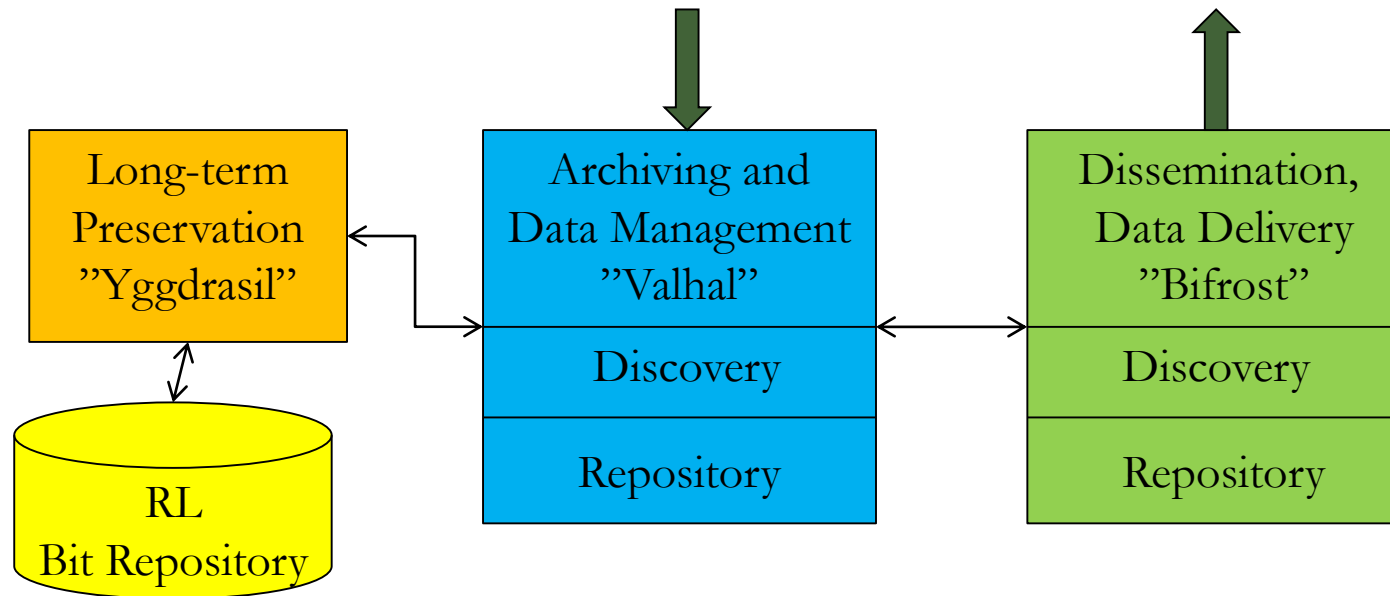


INTERNAL

EXTERNAL

- **Data in**
- Ingest workflows
- Metadata enrichment
- Digital curation

- Data out**
- Apps for web/mobile etc.
- Raw data (REST API)
- OAI-PMH provider



Valhal



- Safe repository for all digital holdings
- Application for digital curation/data management

The screenshot shows the Valhal web application running in a Firefox browser. The address bar displays `sifd-hydra.kb.dk`. The page header features the Valhal logo (a crown icon) and the text "VALHAL". To the right of the logo is a "Login" button. Below the header, there are three tabs: "New Book", "New Person", and "New Work". A search bar with the placeholder text "Search..." and a "Search" button is prominently displayed. Below the search bar, the text "Search or Browse" is visible. The main content area is divided into two sections: "Author" and "Work Types". The "Author" section lists several names with small circular icons next to them, including Adamus Bremensis, Adler, Adolph Peter, Alexis, Willibald, Andersen, Anton, Andersen, H. C., Anderson, Rasmus B., Antonsen, T., Appel, Hans, Arenstorff, C. J. von, and Baggesen, Baggesen. The "Work Types" section shows a "DOD bog" button with the number "439" next to it. Below these sections, there are buttons for "Books", "People", and "Works". At the bottom of the page, there is a footer section for "Det Kongelige Bibliotek" and "Nationalbibliotek og Københavns Universitetsbibliotek", providing contact information for Søren Kierkegaards Plads 1 - 1219 København K, including phone numbers and email addresses. The browser's status bar at the bottom shows the URL `sifd-hydra.kb.dk/?[person_name_ssi]=Baggesen,+Baggesen&locale=en`.

Yggdrasil



- Integration with bit repository for long-term preservation
- Managed from Valhal

The screenshot shows the Valhal web interface in a Firefox browser. The address bar shows the URL: `sifd-hydra.kb.dk/works/valhal:1706/preservation?locale=en`. The page header includes the Valhal logo, a user profile for 'Anders Conrad' with a 'Log Out' button, and a 'SIFD_R4.0.0_RC2 Home' link. Below the header, there are navigation links for 'New Book', 'New Person', and 'New Work', along with a search bar. The main content area is titled 'Change preservation profile' and features a table with three columns: 'Profile name', 'Bitsafety', 'Confidentiality', and 'Long term preservation'. The table lists three profiles: 'storage', 'simple', and 'eternity'. Below the table, there is a 'Preservation profile' dropdown menu currently set to 'storage'. Further down, there is a 'Change comment for preservation' section with a text input field and an 'Inherit preservation' checkbox. At the bottom of this section are two buttons: 'Update settings' and 'Perform preservation'. The footer of the page contains links for 'Show Work', 'Edit metadata', 'Preservation settings', 'Dissemination settings', and 'Works'.

Profile name	Bitsafety	Confidentiality	Long term preservation
storage	Minimum Bitsafety (Not in Bitrepository: 1 local copy, no integrity checks)	Low confidentiality (Everyone with access to Valhal).	false
simple	Medium Bitsafety (Bitrepository with 3 x copies: 2 full and one checksum, and regularly integrity checks)	Medium confidentiality (no access through bitrepository, and limited access to basic_files at pillars/backends)	true
eternity	Maximum Bitsafety (15 x copies: 10 in Bitrepository with daily integrity checks, 5 on open sites on the Internet, 1 on other the Moon and 1 in another galaxy)	Minimum confidentiality (public accessible through the Internet)	true

Preservation profile
storage

Change comment for preservation

Preservation comment

Inherit preservation
☐

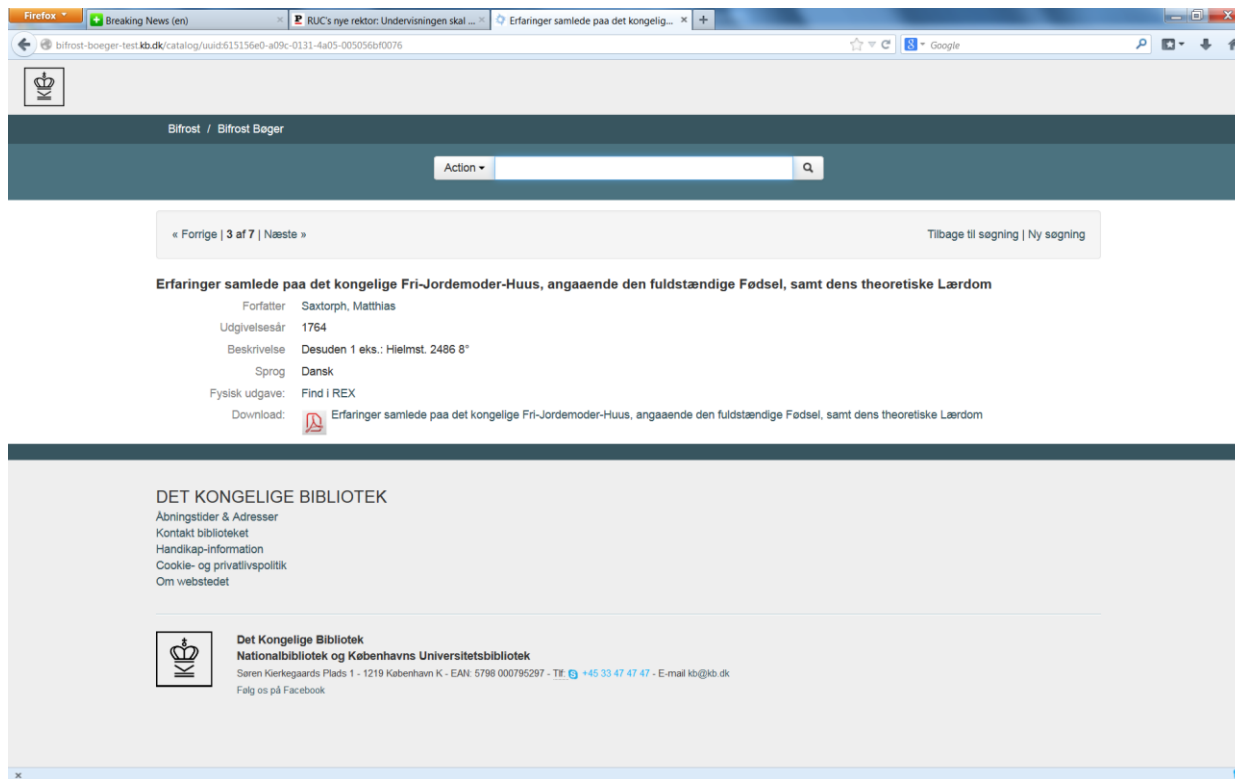
[Update settings](#) [Perform preservation](#)

[Show Work](#) | [Edit metadata](#) | [Preservation settings](#) | [Dissemination settings](#) | [Works](#)

Bifrost



- Repository for dissemination objects
- General and specialised applications for discovery and object delivery



Technology



- Entirely open source!
- All Royal Library code available on Github
- Software framework: Hydra
 - projecthydra.org
- Repositories: Fedora Commons
 - fedora-commons.org
- Search engine: Solr
 - lucene.apache.org/solr
- User interfaces and applications: Blacklight
 - projectblacklight.org

Community



- The technology is state of the art
- **BUT**
- The community is of equal – or higher - importance!
- Knowledge sharing
- Shared solutions and gems (code)
- Make your voice heard!
- Working groups forwarding important topics
- Welcome to new European Partners!

Conclusion



- Hydra is enabling:
- Strategic development
- Organisational development
- Technology and software development