Hanging with Hydra

If you want to go fast, go alone
If you want to go far, go together

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Ohio IR Day
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What is Hydra?

Hydra is a technical framework to build a digital repository
- Ruby on Rails -- web application framework
- Fedora -- digital repository software
- Solr -- lightning fast indexer
- Blacklight -- faceted discovery interface
Hydra community is growing exponentially.
Decisions and Dates

• Fall 2013 -- Join Project Hydra as a Partner, hire developer

• January 2014 -- Join shared development project for Curate, an Hydra IR

• March 2014 -- Start building server environment

• May 2014 -- Curate development suspends, bug squashing
Decisions and Dates

• August 2014 -- Name chosen: Scholar@UC

• September 2014 -- Server environment up and running, test and abuse application in name of security.

• October 6, 2014 -- Launch Scholar@UC with small group of early adopters

• Spring 2015 -- University wide roll out
UC Digital Repository
Phase 2 – Production Environment

BigIP LTM 3900 Load Balancing Appliances
(Redundant Configuration)

Users with a Web Browser
Users access the DR application with a web browser over 443 (SSL) only

HTTP/HTTPS
(TCP 80/443)

VLAN 100
HTML, CSS and JavaScript or REST Client Applications

Authentication Server
An external authentication service, Shibboleth users to the application. login.uc.edu

Fedora Server
(Rubymo, Object Storage)

Database Server
MySQL database used internally to maintain a minimal index of its objects’ identifiers and locations. No content or metadata is stored here.

Apache+Passenger+Rails
Hydra (Create, Update, Delete), Blacklight (Read)
two servers – load balanced or active/passive

Solr Server
(Solrizer Index)

Scalable SAN Disk (15TB)

HTTP/HTTPS
(TCP 80/443)

search server with a REST-like API. You put documents in it (called “indexing”) via XML, JSON, CSV or binary over HTTP. You query it via HTTP GET and receive XML, JSON, CSV or binary results.

September 27, 2013
It Takes a Village Small City

- Steve Marine, Associate Dean (10%)
- Linda Newman, Head of Digital Collections and Repositories (80%)
- Glen Horton, Software Developer (90%)
- Thomas Scherz, Software Developer (90%)
- Patrick Burke, Software Developer (25%)
- James Van Mil, Software Developer/Librarian (65%)
- Carolyn Hansen, Metadata Librarian (20%)
- Nathan Tallman, Digital Content Strategist (20%)
- Elizabeth Meyer, Visual Resources Librarian (15%)
- Dan Gottlieb, Associate Dean (15%)
- Ted Baldwin, Director of Science and Engineering Libraries (15%)
- Eira Tansey, Digital Archivist/Records Manager (10%)
- Arlene Johnson, Digital Humanities Strategist (10%)
- Mark Faulkner, A.J. Bothe, Andy Carlson, Jim Dusing, Bev Upton -- system administration (dev ops), Central IT
Scholar@UC
The UC digital repository, part of the UC Research Hub.

Type keywords in here

Search

Scholarly Articles
Scholar@UC supports published and unpublished scholarly articles and more.

Begin!

Scholarblog

- Scholar@UC 0.2.0 Released

10/16/2014 10:36:52 AM
An updated version of Scholar@UC is now available at https://scholar.uc.edu. The updates are mostly bug fixes and small...

scholar.uc.edu  projecthydra.org
github.com/uclibs/scholar_uc