Lightning Talks



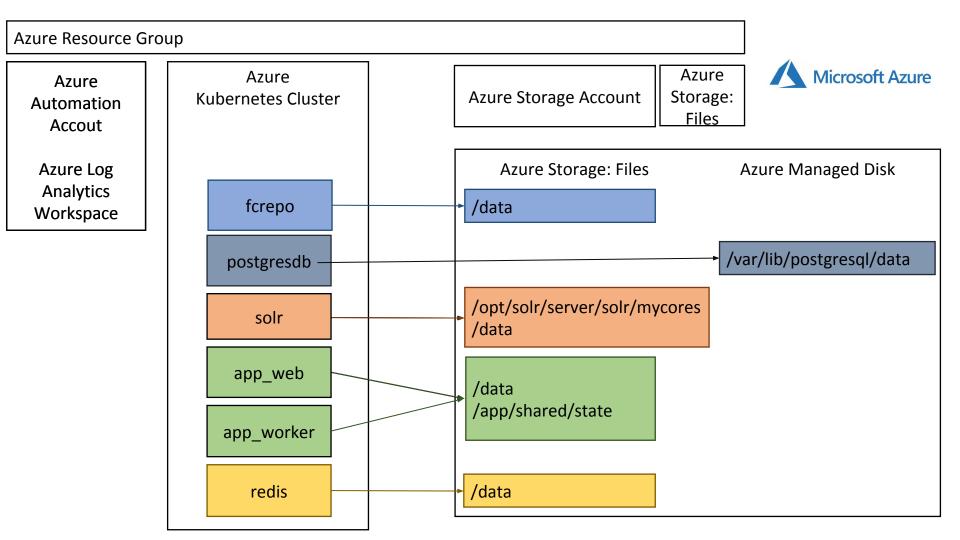
- Deploying a custom Hyrax on Azure with Terraform and Kubernetes from a standing start
- Controlled Vocabulary Options in Hyrax
- Scholarsphere is Dead, Long Live Scholarsphere!
- Work Estimation Records: Using agile for more accurate proposals
- New Tools for NU: Elixir, Broadway, Phoenix, and GraphQL
- Advancing Hyku Project
- Supporting & Connecting Women in Technology
- Iterating on a Hiring Process

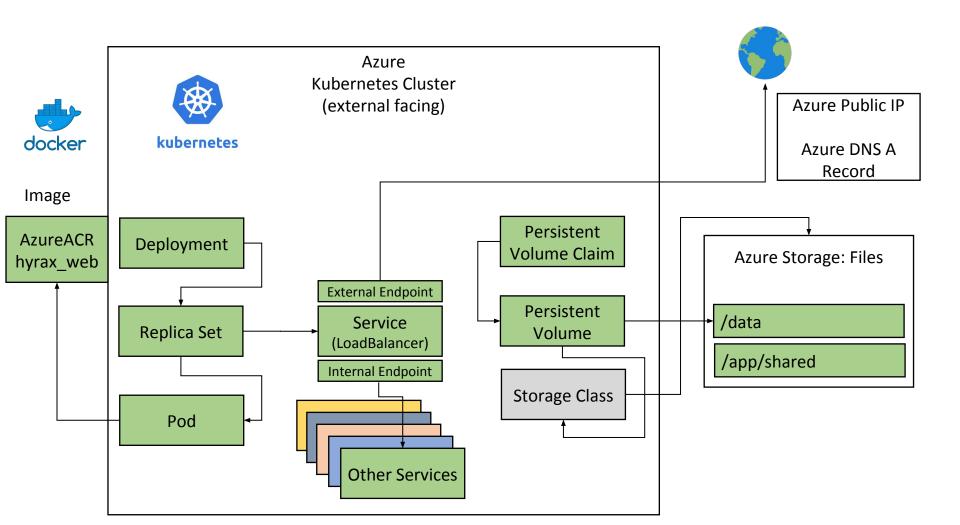


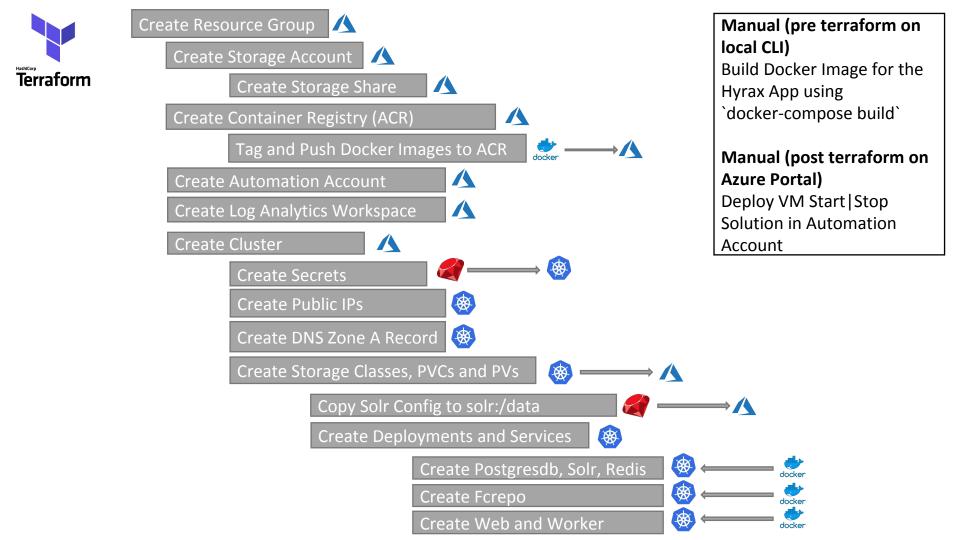
Deploying a custom Hyrax on Azure with Terraform and Kubernetes from a standing start

-Julie Rory McNicholl

Docker Images deployed to a ... Kubernetes Cluster hosted on ... Azure Cloud Services built using Terraform Infrastructure Creation







@todo

- Use remote-state
- Make running docker-compose build part of the terraform apply
 - Delay kubernetes deploy for hyrax/sidekiq until it's finished
 - Initiate only on a change in git revision/tag
 - Circle CI?
- Endpoint Security
 - SSL for the public endpoint(s)



Controlled Vocabulary Options in Hyrax

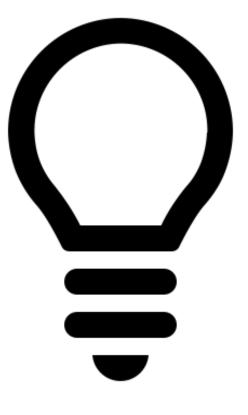
-Julie Hardesty

If you want to go far, go together!

Samvera Virtual Connect 2019

Proposed idea:

Include more controlled vocabulary options for Keyword and Subject fields by default in Hyrax



	A	В	С	D	Е	
1	Name	Year	Creator/Community	Classification Scheme	Controlled Vocabulary	Co
2	Indigenous/Native					
3	Brian Deer Classification Scheme	1977		\checkmark		
4	Mashantucket Pequot Thesaurus of American Indian Terminology				\checkmark	
5	BC First Nations Subject Headings - Names				\checkmark	
6	Native American Educational Services system (NAES closed in 2007)		Native American Educaional Services College: https://s			
7	Ojibway-Cree Cultural Centre classification (mod of BDC)			\checkmark		
8	National Indian Law Library Thesaurus				\checkmark	
9	Indigenous Materials Classification System			\checkmark		
10	Vacab Options		Union of British Columbia Indian Chiefs Resource Cent	\checkmark		
11	Vocab Options					
12						
13	Many available		http://homosaurus.org/contact		\checkmark	
14	Not many Linked Data		IHLIA LGBT Heritage			
15	Discussion needed (community a	nd technica	al approach)		\checkmark	
16	Gay Studies Thesaurus	1990			\checkmark	
17					\checkmark	
18					\checkmark	
19	LLACE Classification Scheme	2001	Lavender Library, Archives, and Cultural Exchange of S			
20						-
21	Women			Ц		_

Interested? Let's Unconference!

Julie Hardesty jlhardes@iu.edu @jlhardes Hyrax Vocabulary Options - Meetup
http://sessions.samvera.org/sessions/116

Scholarsphere is Dead, Long Live Scholarsphere!

Adam Wead awead@psu.edu / @amsterdamos





Post Mortem

- Upgrading to Hyrax is problematic
 - Performance
 - Valkyrie integration is still forthcoming
 - Could require a migration
- Unable to update existing dependencies (ex. jQuery)
- Adding new features is limited; requires excessive effort
- Developer unhappiness
- Developer departures (unrelated to happiness)
- Difficulty finding part-time contractors
- Institutional upheaval: reorgs, mergers, & a new everyone



Scholarsphere Resurrected

- Focus on research data and scholarly publication (ex. Zenodo, Dryad, Figshare)
- Same data model & metadata
- Smaller application: minimal, standard dependencies (no Fedora)
- Distributed, scalable architecture with a *microservices-esque* approach
- Leverage new storage options such as AWS and Globus
- All functions are backed by an API to support researchers and migration



Current Status

- Finished six-week experimentation period deploying sample applications with 2 devs and 1 devops
- Rails 6: Postgres, Solr, Webpacker, Stimulus.js, Blacklight
- Metadata: JSON with Postgres (similar to Valkyrie)
- Storage: Amazon S3 via Shrine with Uppy.js
 - Tested 30 GB files for resumable, multipart uploading
- Jobs: Sidekiq, Amazon lambdas for derivatives (?)
- Deployment: DroneCI, Docker, Kubernetes
- First production release in early 2020



It's not you, it's me

- No, we're not leaving
- Samvera is a community, not software
- Hyrax, Valkyrie, and Fedora have a future at Penn State
- We don't know what that future is yet
- Breakout proposal: I know, Let's Build an API!





Thank You!

Questions? Come find me and let's talk more...



Notes & Shout-Outs

Zenodo: https://zenodo.org Dryad: https://datadryad.org/stash Figshare: https://figshare.com Example Shrine integration: https://github.com/psu-stewardship/ss-shrine Data model sketch: https://github.com/psu-stewardship/ss-json Current repo: https://github.com/psu-stewardship/scholarsphere-4

Thanks to WUSTL for hosting and to the SamveraConnect committee. Thanks to my colleagues at Penn State Libraries for being awesome!



Work Estimation Records



How we're using agile practices to improve our teams estimates

Aaron Collier (Stanford)

aaron.collier@stanford.edu

@aaronisbrewing

DLSS Infrastructure Team

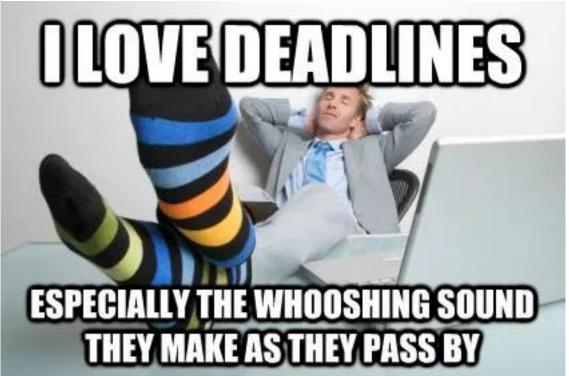


- Naomi Dushay
- Mike Giarlo
- Justin Coyne
- Justin Littman
- John Martin

- Jeremy Nelson
- Peter Mangiafico
- Astrid Usong
- Aaron Collier

Why are we here?





Software estimates are easy /s



Software engineers can be bad at estimates...

But it's worse when arbitrarily time constrained.





Architecture Decision Records

Guidelines we are following



- Capture the who, when, and why an estimate is requested
- Capture the who, confidence, and effort of the estimate
- Capture assumptions used in the estimate
- Outline the major tasks
- Risks/Challenges/External Dependencies
- Open questions
- Time estimate based ranges are followed
- Results (when possible)

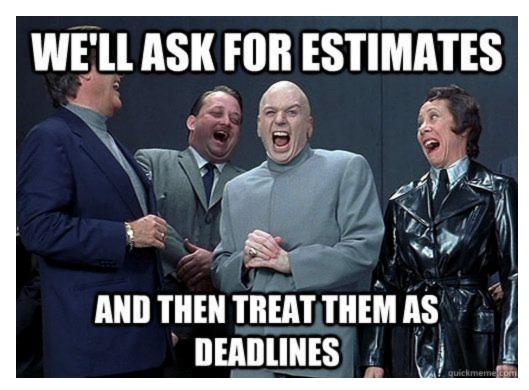
Making this Agile



- Two (or more) team members use a pairing session to write the estimate
- A pull request is submitted to the team for discussion
- Iterate on the estimate (and the template)
- Retro the estimate when completed (TBD)

How is it going?





Resources



- https://sul-dlss-labs.github.io/estimation/
- https://github.com/sul-dlss-labs/estimation
- <u>https://adr.github.io/</u>

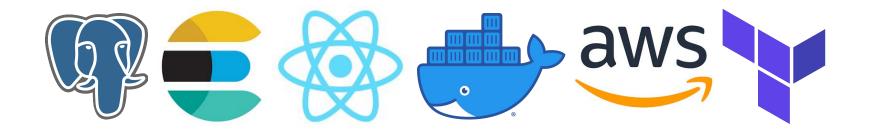




New Tools for NU: Elixir, Broadway, Phoenix, and GraphQL

-Michael B. Klein

What's Not New?



So What Is New?





Elixir!

(language)



Broadway!

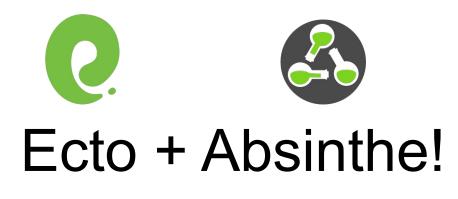
(concurrent, multi-stage data ingestion and processing)



Phoenix!

(web framework)





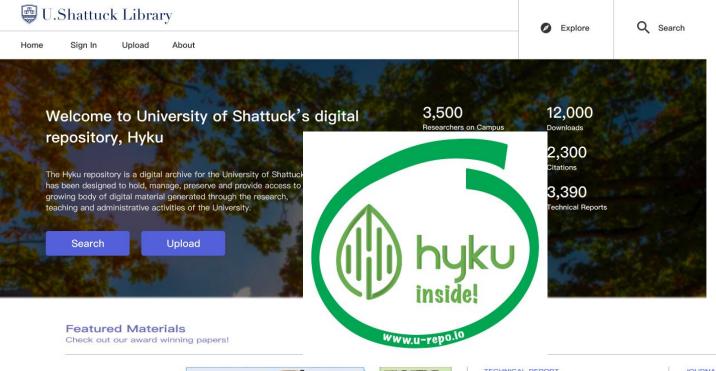
(sql + graphql)

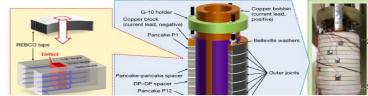




Advancing Hyku Project

-Brian Hole





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TECHNICAL REPORT

Chip assignment algorithms for dynamic wafer design in semiconductor manufacturing

Suhermanto, Herry

When the Sixth Session the Conference of Parties (COP6) of the United Nations Framework Convention

JOURNAL ARTICLE

Designing Accessible Interfaces: The Do's and Don't's of Color and Text

Nadir Abdessemed, Derick Kurda

The dos and don'ts of designing for accessibility are general guidelines, best design practices for making







Advancing Hyku:

Open Source Institutional Repository Platform Development (\$1M, 2 years)



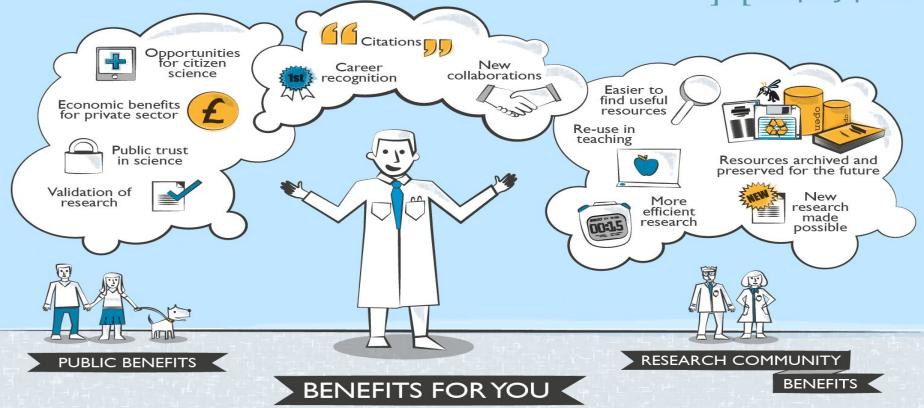
ARCADIA A CHARITABLE FUND OF

ISBET RAUSING & PETER BALDWIN





]u[ubiquity press



brian.hole@ubiquitypress.com | @ubiquitypress

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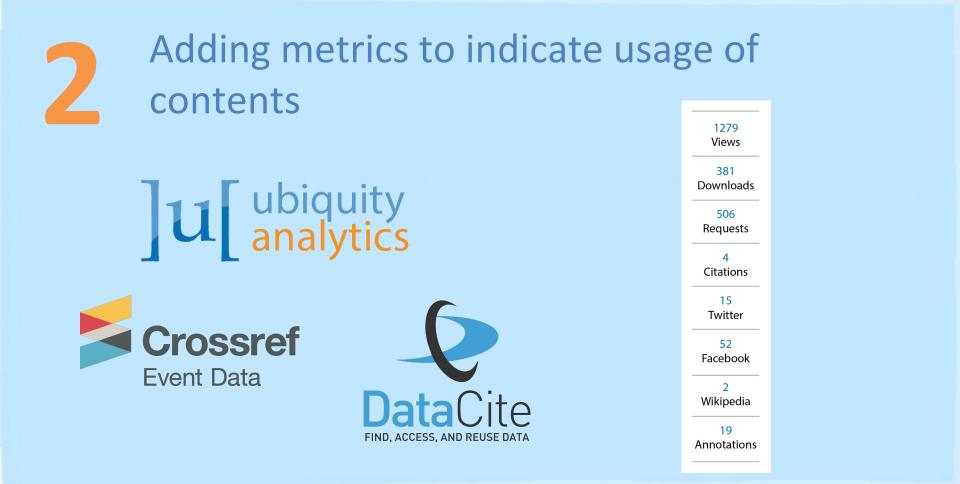
Integrating open-resource discovery tools to automatically scale repository contents











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Connecting and syncing with author identification and profile services





Connecting Research and Researchers



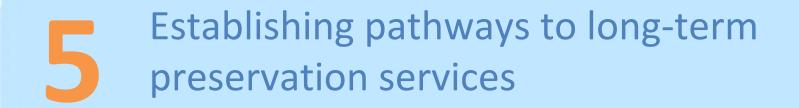










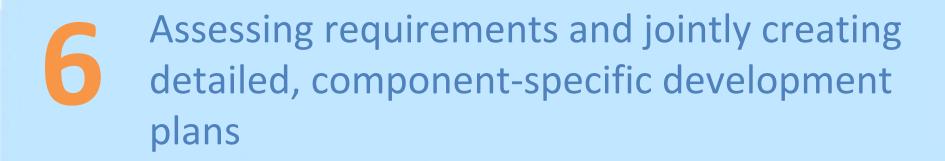
























Supporting & Connecting Women in Technology

-Robin Ruggaber

AnitaB.ORG



- Mission
 - "At AnitaB.org, we envision a future where the people who imagine and build technology mirror the people and societies for whom they build it. We connect, inspire, and guide women in computing, and organizations that view technology innovation as a strategic imperative.
 - Our social enterprise supports women in technical fields, as well as the organizations that employ them and the academic institutions training the next generation. A full roster of programs help women grow, learn, and develop their highest potential."

Founder



- Community (international, restricted to women, and safe)
 - 1987 Anita Borg plus 12 like minded women enrolled in Anita's vision
 - Syster social infrastructure
- Grace Hopper Conference
 - 1994 Anita and Dr Nelle Whitney established an annual Grace Hopper Conference in honor of Grace Hopper

Community



- Systers (primarily mailing lists but also online infrastructure)
 - international, private to women technologist, and safe
 - representing 6000 women, 60 countries, 50 Academic Institutions and Fortune 500 Companies
 - Supporting various affinity related to culture, place and facet of technology
- Career Support
 - curriculum for career guidance
 - continual research to identify top companies known for equality
 - job boards
 - Grace Hopper Conference annual, multi track, showcasing women's technology work and innovations, connecting women

What about all the men interested in supporting us? Check out the Ally Curriculum



Iterating on a Hiring Process

-Jeremy Friesen

Guiding Principle

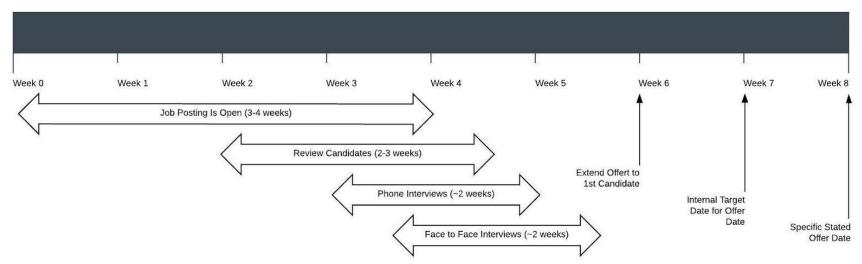


Treat hiring a new employee as your most important project.

Roadmaps and Quorum



8 Week Hiring Timeline



Job Posting *≠* Position Description



Write a job posting that reflects your organization's aspirational best days

Create a Rubric



Before you get started, determine your measurement criteria.

Communication



Send your phone interview questions in advance and require written responses in advance of their phone interview.

Links



See a <u>more in-depth document</u> or contact me at <u>jfriesen@nd.edu</u>