Seeding the Clouds, Saving the Day

Web Scale Solutions for Libraries

Presented by Jennifer Bielewski
Moving Library Cooperation to Web Scale

A series of member discussions hosted by OCLC and LYRASIS.
LOUIS

• Oct 14, 2011
• LOUIS Conference
• Overview of Cloud Computing & OCLC WMS system
We see OCLC Web-scale Management Services as a way to bring improvements and efficiencies to our staff functions in the areas of acquisition, processing, and circulation support. Moreover, a web-based approach makes sense to us; we want to manage information, not hardware.”

– Mark Roosa, Dean of Libraries, Pepperdine University (Web-scale pilot participant)
Think

- Google
- Amazon Cloud Services
- Spotify
- Facebook
- Flickr
What is web scale/cloud computing?

- "Cloud computing is the delivery of scalable IT resources over the Internet, as opposed to hosting and operating those resources locally, such as on a college or university network."*

- 'Web-scale' refers to how major web presences architect systems and services to scale as use grows**

  - *EDUCAUSE, “7 things you should know about cloud computing”
  - **Lorcan Dempsey’s Web Log “Web Scale”
Libraries focus on...

• What we're best at
• What's unique
• What's local
• What ONLY we can do
While Web Scale solutions take care of:

- What's best crowd-sourced
- What's a commodity service
- What's shared
- What's outside our wheelhouse
- Everything else!

» Tim Rogers, “Survive is the New Thrive: Factors Leading Libraries to Web Scale”
http://tinyurl.com/49k9qx8
OCLC® Web Scale
Management Services--goals

• Leverage the size and scope of WorldCat, the largest library catalog on earth, and the OCLC cooperative
• Allow for shareable data about back-office services
• Work entirely on the Web, eliminating many support issues
• Integrate with discovery and delivery functions
• A cooperative platform in order to better share costs and encourage future innovation
Workflow efficiency
OCLC® Web Scale Management Services-Functionality

• Acquisitions
  – Physical and electronic in same system
  – Integrated license management
  – Shared vendor data
  – Cooperative collection building
Cataloging

- **Cataloging:**
- Shared tools for data creation and enrichment
- Insert metadata management into the library supply chain
- Automated workflows for physical materials
- Automated workflows for electronic materials
- Automated loading of records from digital repositories
- Simplify description and accession of materials
Circulation:

- Intuitive staff interface that simplifies routine tasks
- Foundation for building on cooperative collection development to lead to simplified collection sharing
- Enables all forms of resource sharing to become network circulation tasks (in the future)
User Interface - WorldCat Local

- Single search of all library collections – physical, electronic, and digital
- Smart delivery resolver for best access
- Workflow tools that aid users in organizing and re-using information
- Integration with search engines and widgets to weave library into the Web
- Increases usage of library materials
OCLC® Application Gallery

- Best analogy—Itunes App Store
- User created apps
- OCLC created apps
- Some free, some $$$

- http://www.oclc.org/applicationgallery/
Forthcoming additions

- Course reserves (if not already, high priority)
- Cooperative Intelligence
- License manager
- Workflow engine
- Accessible, extensible platform (Application gallery)
For a complete demonstration of OCLC Web Scale Management Services

- Matt Goldner, OCLC
- From our “Moving Library Cooperation to Web Scale” virtual event:

Early Adopters

- Orbis Cascade Alliance
- Linfield College
- Washington State University
- Pepperdine University Libraries
- Idaho Commission for Libraries
- Boundary County District Library
- Payette Public Library
- Cooperative Information Network (CIN)
- CPC (Craven, Pamlico, Carteret) Regional Libraries (NC)
OCLC/LYRASIS Partnership

• Goal:
  – “To engage, inform, educate and prepare libraries for web scale management services.”
LYRASIS role—preparation: training & consulting

- OCLC cataloging
- Metadata management
- Resource sharing and consortial borrowing services
- All related LYRASIS consulting and professional development services.
Your role: web scale solutions

• Understanding the landscape
• Asking the right questions
Who’s driving?

- Students, faculty, and staff
  - New devices, new needs, new demands, new formats
- Administration
  - Still gaining cloud computing experience, question security and fear being “locked in”
- IT Departments
  - Struggling to deliver scalable, secure, reliable, and cost-effective technology services in a time of shrinking budgets and growing demands for increased operational efficiencies

Bristow, Dodds, Northam, and Plugge in “Cloud computing and the power to choose” Educause Review, 45 (3)
Common campus services are moving to web scale

- e-mail
  - Google campus
- Research—computer power and processing
  - MyExperiment—UK-sharing scientific workflows
- Cloud services—free and fee based
  - Amazon Web Services, LibGuides
- What are you using already?
Asking the hard questions

- Business requirement questions
- The reliability questions
- The availability questions
- The upgrades, maintenance and outages questions
- The security questions
- The privacy questions
- The data ownership questions
- The integration questions
- The customization questions

“Diversity Limited presents--before you buy: ten questions to ask your cloud vendor”
And of course...
## The math-cost of ownership

<table>
<thead>
<tr>
<th>Model</th>
<th>Up front cost</th>
<th>Ongoing cost</th>
<th>Ten years in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Old Model</td>
<td>License Fee + 10% --in implementation costs</td>
<td>Annual maintenance +15% of original license fee</td>
<td>Paid 2.6 X original license fee</td>
</tr>
<tr>
<td>OCLC WMS</td>
<td>Implementation fee (No upfront license fee)</td>
<td>Annual subscription (close to what early adopters were paying for annual maintenance fee)</td>
<td>Paid 1.6 X original license fee, %38 percent savings</td>
</tr>
</tbody>
</table>

**Other savings:**
Hardware, local hosting, maintenance, 3rd party software, vendor hosting

**Soft costs:**
Workflow efficiencies, added functionality, create capacity to do new things with staff
Cloud computing calculator

- Many available
- Denver Public Library

- [http://denverlibrary.org/content/cloud-calculator](http://denverlibrary.org/content/cloud-calculator)
Helpful resources

- Denver Public Library, Cloud Calculator
  - [http://denverlibrary.org/content/cloud-calculator](http://denverlibrary.org/content/cloud-calculator)
- EDUCAUSE—Cloud Computing
  - [http://tinyurl.com/6adlf83](http://tinyurl.com/6adlf83)
- Goldner, M. “OCLC Web Scale Management Services: building the future.” Presentation.
- Lorcan Dempsey’s Web Log
  - [http://orweblog.oclc.org/](http://orweblog.oclc.org/)
- OCLC® Web Scale Management Services
  - [http://www.oclc.org/webscale/](http://www.oclc.org/webscale/)
OCLC® -
Important Documents

- OCLC Data Security Policy
- OCLC Privacy Policy
- Databases, vendor record sets, etc. in WorldCat Local
  - http://www.oclc.org/us/en/worldcatlocal/overview/content/default.htm
Questions?
Thank You!

Questions?
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