EVERY CONNECTION has a starting point.

Cloud Computing and Libraries

Matt Goldner
Product & Technology Advocate
Why the cloud?

- Libraries are doing more than ever
- Silos, costs, time requirements, inefficiency are hindering libraries
- Cloud computing has helped other industries
- Libraries building “cloud” services with OCLC
- Web-scale Management Services bring the power of the Cooperative to core library services
- Enables libraries to focus on innovation
How doing more created the current library technology infrastructure
In the 1970s...
In the 1980s...
In the 1990s...
In the 2000s...

Users
- Self Service
- Institutional Repository

Library
- ILS
- OPAC
- Circulation
- Acquisitions
- A to Z List
- ERM
- Resolver

Print Vendors
- Electronic Vendor

Cataloging
- Meta-search
- Cataloging Utility
- National/Global System
- Consortial System

Electronic Vendor
- List
- Vendor

Institutional Repository
- Vendor
- List
- Vendor

Meta-search
- List
- Vendor
- List
- Vendor

Cataloging Utility
- List
- Vendor
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National/Global System
- List
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Consortial System
- List
- Vendor
- List
- Vendor
Web scale value proposition

70% INFRASTRUCTURE

30% INITIATIVE

Amazon.com: http://www.slideshare.net/goodfriday/amazon-web-services-building-a-webscale-computing-architecture
Cloud Computing

A style of computing in which scalable and elastic IT-enabled capabilities are delivered as a service to external customers using Internet technologies.

-Gartner Group

Simple: Web-based applications with shared data and services.
Web scale value proposition

Before cloud computing...

70% INFRASTRUCTURE

30% INITIATIVE

Amazon.com: http://www.slideshare.net/goodfriday/amazon-web-services-building-a-webscale-computing-architecture
Efficient storage of data in the cloud: Common use data
Efficient storage of data in the cloud: Data by agreement

Users

Partners

Suppliers

Library

Common Use Data

Data by Agreement

Patron Auth

Circ Counts

Ordering

Licenses
Efficient storage of data in the cloud: Private data
Improved interaction

Users
- Local Users
- Local Visitors
- Worldwide Users

Data

Library

Suppliers
- Aggregators
- Jobbers
- Book Sellers

Partners
- Search Engines
- Libraries
- Consortia
- Social Sites
- Utilities

OCLC
More efficient and flexible workflows

- Library
  - Identification & Selection
  - Acquisition
- Data
- Suppliers
  - Accession & Description
- Partners
  - Access, Circulation, & Delivery
- Users
  - Discovery
- Deaccession & Preservation
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Theresa Brown

Account Overview

- 2 items checked out
- 0 items overdue
- $3.10 current fine balance
- 0 requested items ready to pick up
- 3 requested items not yet available
- 0 items claimed returned

Enter barcode

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Web-scale Management is more than ready-made services

Any next-generation solution must enable levels of access for local development and participation unparalleled in the history of library automation

Web-scale Management Services offer:

- A platform on which to build your library’s future
- A platform that enables innovation
How the platform works

WorldCat® Hello Matt!

Search for an item in libraries near you

Enter title, subject or author

Search WorldCat

If you add your current interests to your Facebook profile, we'll add a WorldCat quick search for you here.

Reading Suggestions

In WorldCat.org you can create lists of books, music, video and more, organized any way you'd like. These selections are from recent WorldCat.org lists of books "to read". See more.
Example: Putting a Bestseller Widget into Acquisitions

OCLC Web-scale Management Service

- New York Times
- Oprah
- USA Today
- Amazon
- Washington Post

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Result 1-10 of 20

Order
Example: Integrating with your local system
Top reasons that OCLC Web-scale Management Services are unique

- **The approach**
  - Traditionally other services are “hosted” in the cloud, library by library, and not as a centralized set of data and software
  - System is Service Oriented Architecture (SOA) by design, not API’s bolted on to the system as an after thought
  - Provides a Platform to build extended services on
  - Built on a workflow engine to make workflows flexible and expandable
Top reasons that OCLC Web-scale Management Services are unique

- The capabilities
  - System built on aggregated shareable data
    - Built by the community: WorldCat, holdings, vendors, etc.
    - Added by OCLC: knowledge base, evaluative content, etc.
  - Simplified identification and selection of materials using WorldCat
  - Unified acquisitions workflow for physical and electronic materials to match today’s collection
  - Single search and delivery user interface to match today’s users
Top reasons that OCLC Web-scale Management Services are unique

• The community
  • OCLC is uniquely positioned to add the OCLC network to the data, services, and infrastructure that is being offered
  • Allows cooperative intelligence among libraries
  • Allows cooperative workflows between libraries
“Today’s librarians are engaging information seekers wherever they are—at the beach, in the street, on the stage, on the Web—to extend their impact and set in motion growing waves of relevance and usage.”

“The mission of librarians is to improve society through facilitating knowledge creation in their communities.”

R. David Lankes, Syracuse University
Keynote, 29th Annual Charleston Conference
Thank you