



Welcome!

**The webinar will begin at
2:00 Eastern/11:00 Pacific**



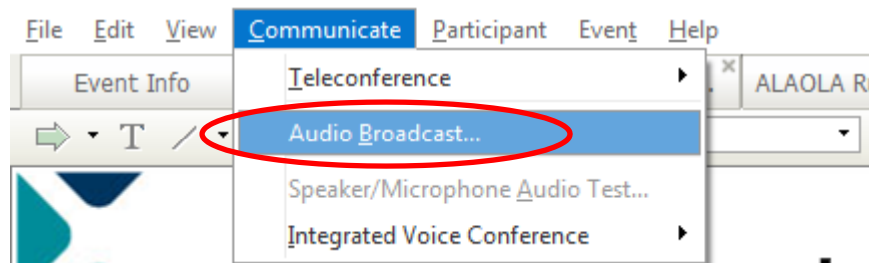
Audio Tips

Today's audio is streaming to your computer's speakers or headphones.

Too loud or soft? Adjust volume level in the Audio broadcast box:



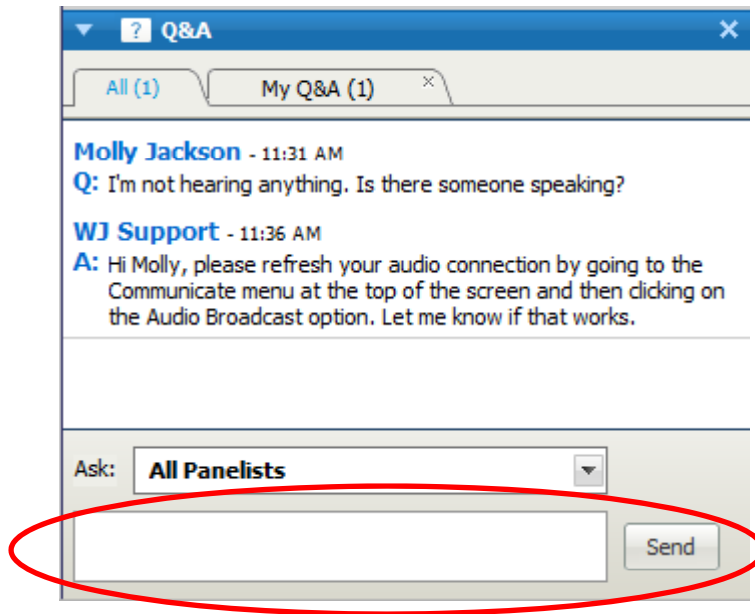
Lost all sound? Hear an echo? At the top of the screen, go to the **Communicate** menu and select **Audio Broadcast** to refresh your connection.





Need Help?

Please post **technical support questions** into the **Q&A Panel**.



Step 1: Type the problem in the **dialog box**.

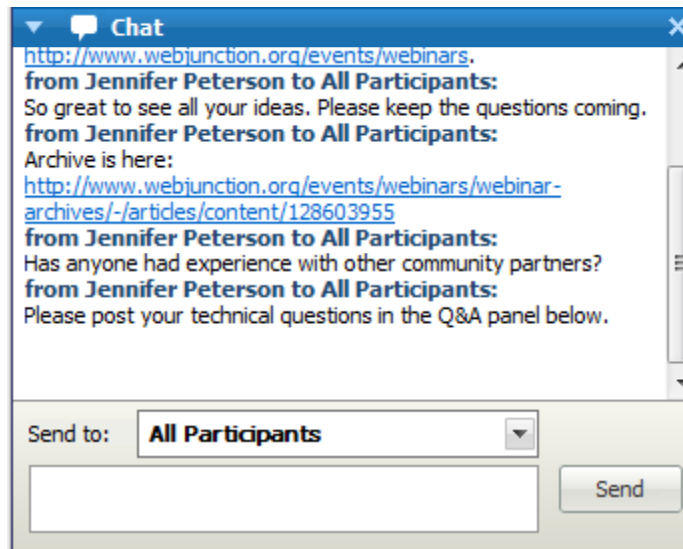
Step 2: Click **Send**.



Chat Etiquette

Use **Chat** to talk with attendees and presenters about the topic.

Do not post technical questions to Chat.

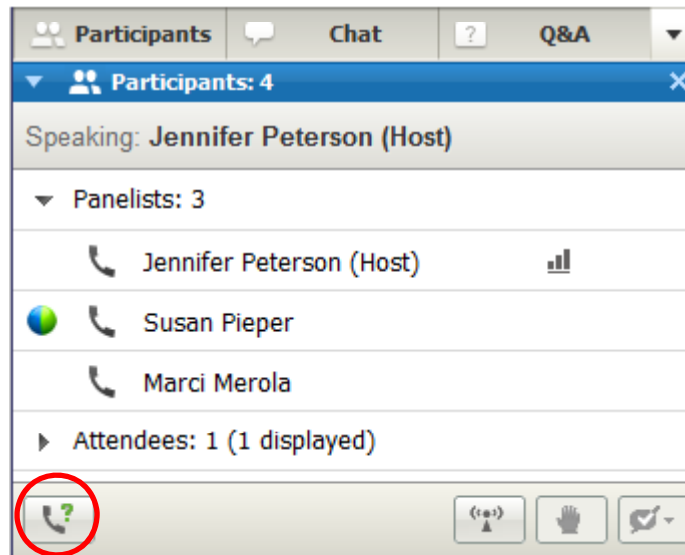


And if you're tweeting, use this hashtag: **#libcloud**



Telephone Access

If you not able to listen via your computer, you may join by phone.



Step 1: Click on **Phone Icon** under the Participants list.

Step 2: Call the toll-free number provided.

Step 3: Enter the **Access Code** and **Attendee ID** provided.



Customize your experience

Panels can be opened or closed by clicking on the panel name at the top of the column, or by using the X in the individual panel.

Hover over edge of panels to drag and resize.



The screenshot displays a webinar interface with two main panels. The top panel is titled "Participants" and shows "Participants: 4". It lists "Speaking: Jennifer Peterson (Host)", "Panelists: 3" (Jennifer Peterson (Host), Susan Pieper, Marci Merola), and "Attendees: 1 (1 displayed)". The bottom panel is titled "Chat" and shows a message from "WJ Support to All Participants" with a "Send" button. A red circle highlights the close button (X) on the Participants panel, and a red arrow points down to the Q&A panel. Another red arrow points to the right edge of the Chat panel.



Remember to post to **Q&A panel** if you need technical assistance.

Other Technical problems?

Contact WebEx support

Event Number: 713 233 359

Phone: 1-866-229-3239



Co-Produced by:
Jennifer Peterson
WebJunction
Community Manager



Co-Produced by:
Sharon Streams
WebJunction
Senior Manager
Community Services



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State Library of **North Carolina**

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Research

Exploration, innovation and community for libraries and archives.





Today's Presenter



Roy Tennant
Senior Program Officer,
OCLC Research

Cloud Computing 101

Roy Tennant

OCLC Research



<http://www.flickr.com/photos/bixentro/1372124151/>

Cloud Computing

- Wikipedia definition:

“Cloud computing is Internet-based computing, whereby shared resources, software and information are provided to computers and other devices *on-demand, like electricity.*”



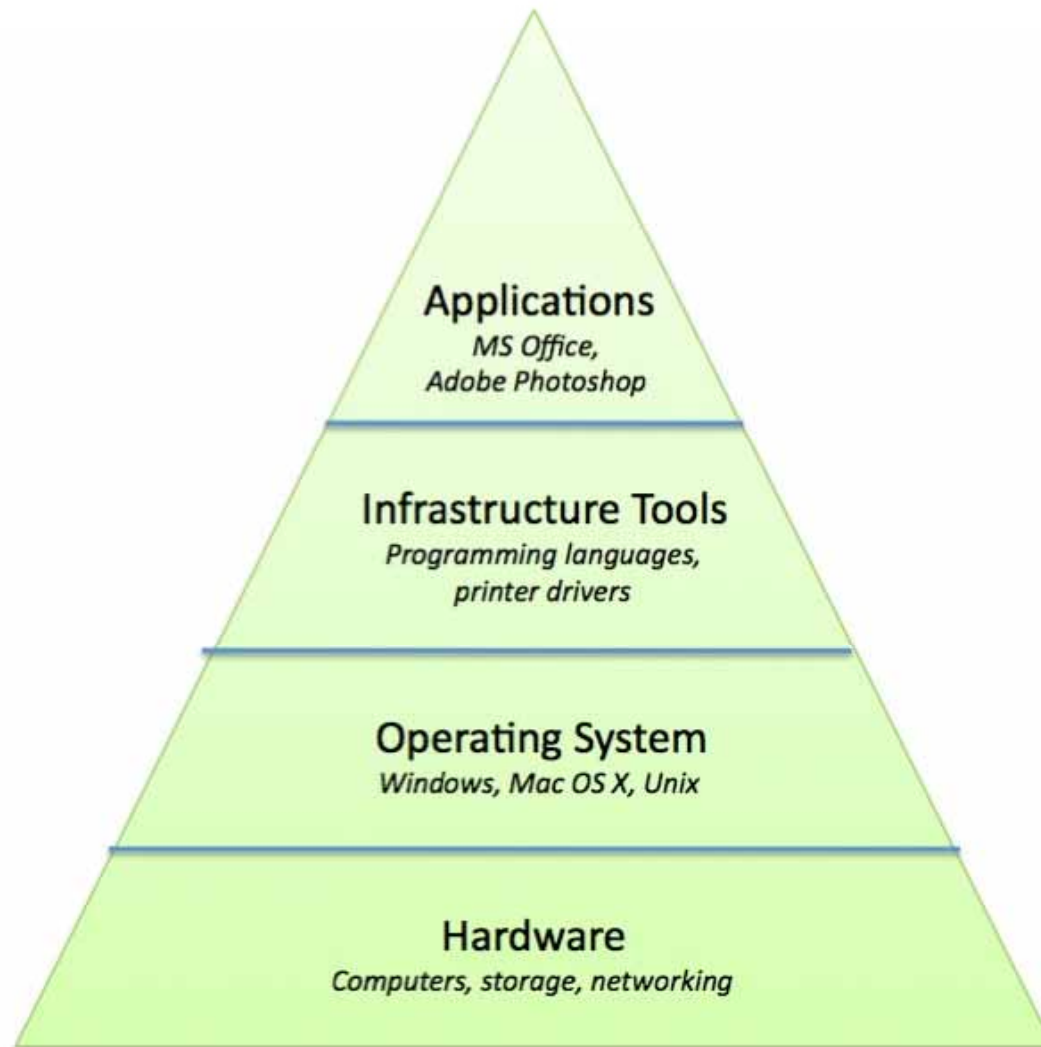
What Does it Offer?

- The ability to *acquire computing power at will*
- The chance to *pay only for what you use*
- The opportunity to *stop at any time without financial penalty*
- *Access to your data or service from anywhere on the Internet*

How Does It Work?

- Basic Computing Concepts
- Cloud Computing Service Layers:
 - Software as a Service
 - Platform as a Service
 - Infrastructure as a Service
- Consumer vs. Enterprise cloud computing
- Enabling Technologies

Computer Systems are Layered



Service Layers

- **Software as a Service (SaaS)**
 - Software that can be accessed and used on the Internet
 - Examples: Google Docs, Flickr, Gmail, etc.
- **Platform as a Service (PaaS)**
 - Everything but the end-user software provided as a service
 - Example: Google App Engine
- **Infrastructure as a Service (IaaS)**
 - Only the physical infrastructure provided as a service
 - Example: Amazon's suite of Web Services

Consumer vs. Enterprise Services

- **Consumer Cloud Computing:**
 - Cloud services aimed at end-users
 - Examples: Gmail, Flickr, Zoho, Google Docs (SaaS)
- **Enterprise Cloud Computing:**
 - Cloud services for organizations
 - Examples: Amazon Web Services, RackSpace (IaaS); Yahoo Pipes (PaaS); Salesforce.com (SaaS)

Enabling Technologies

The background of the slide is a photograph of a bright blue sky filled with large, fluffy white cumulus clouds. The clouds are scattered across the frame, with some appearing closer and more detailed, while others are further away and less distinct. The overall tone is bright and clear.

The Internet



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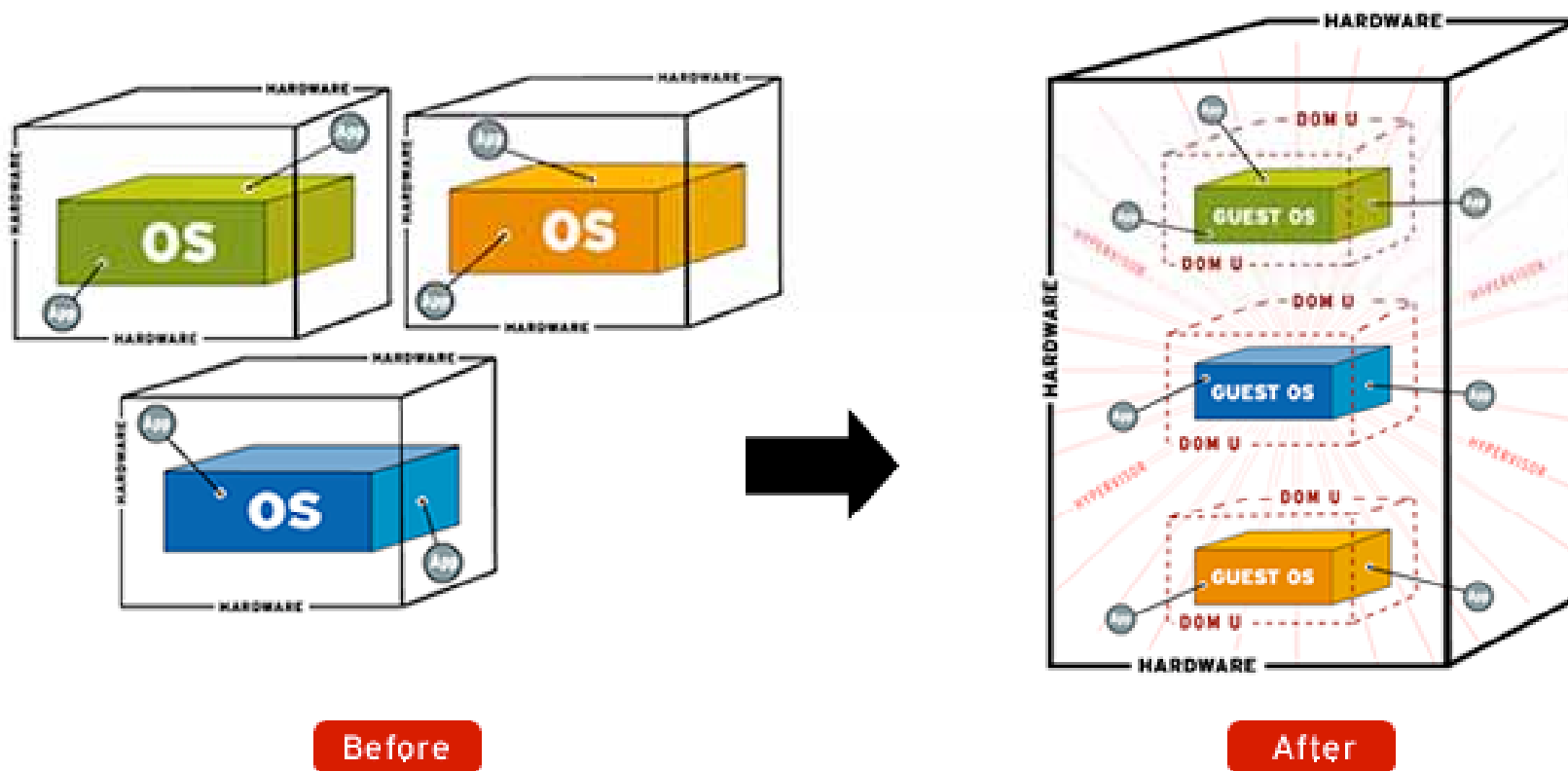


Inexpensive commodity servers



<http://www.flickr.com/photos/johnseb/3425464/>

Virtualization



Application Stacks



BITNAMI

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BitNami makes hosting software in the cloud a simple and enjoyable process.

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[Get Started](#)



All BitNami applications are also available as free downloadable installers, virtual machines and Amazon Machine Images



[Downloads](#) ↓

What This All Means

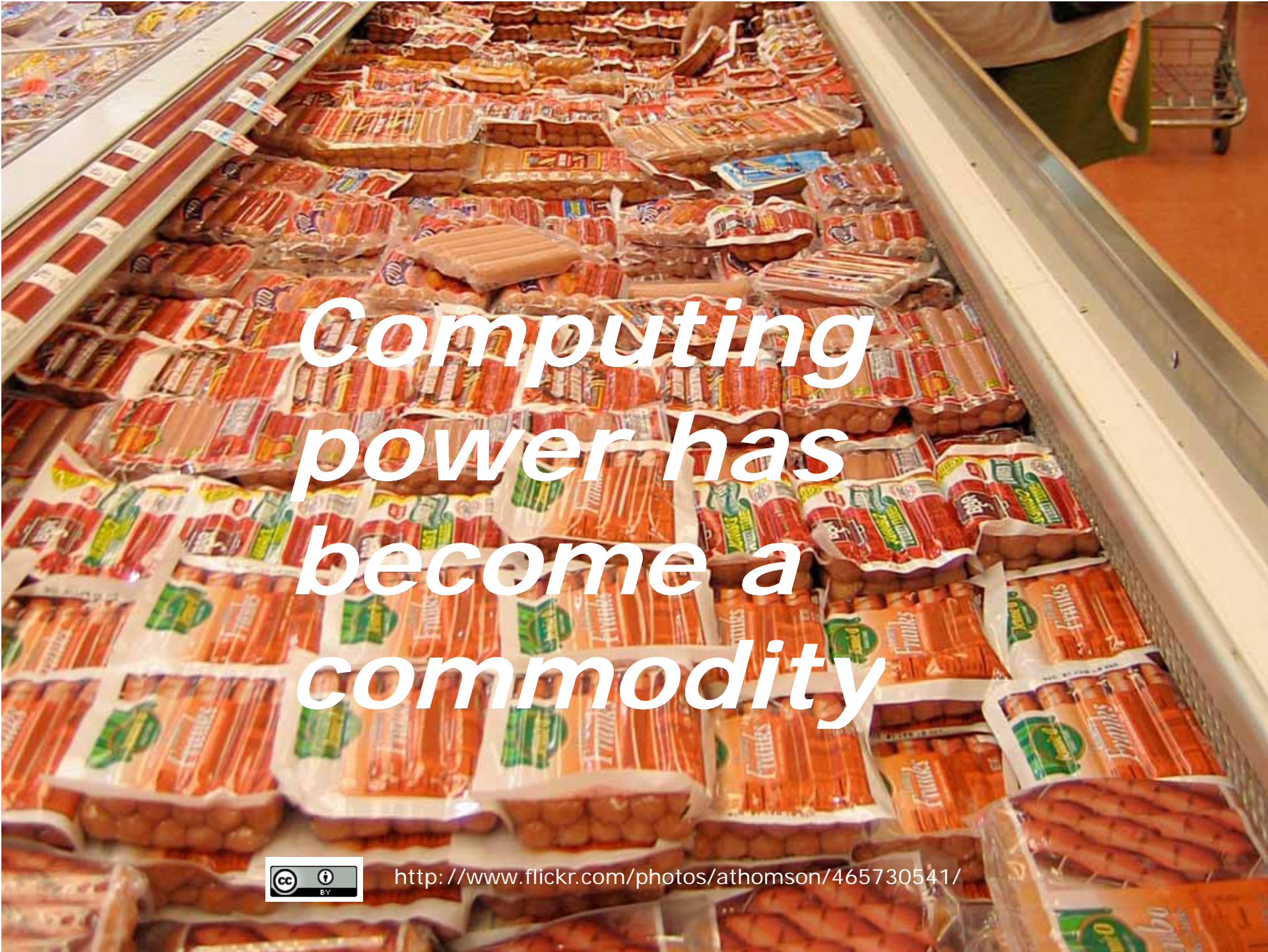


The background of the slide is a photograph of a bright blue sky filled with large, white, fluffy cumulus clouds. The clouds are scattered across the frame, with some appearing more prominent than others. The overall tone is bright and clear.

**1) Infinite, immediately
available computer
power**



<http://www.flickr.com/photos/fboyd/1783247600/>



*Computing
power has
become a
commodity*



<http://www.flickr.com/photos/athomson/465730541/>

A vibrant blue sky filled with large, white, fluffy cumulus clouds. The clouds are scattered across the frame, with some appearing more prominent than others. The overall scene is bright and clear.

2) Easy come, easy go



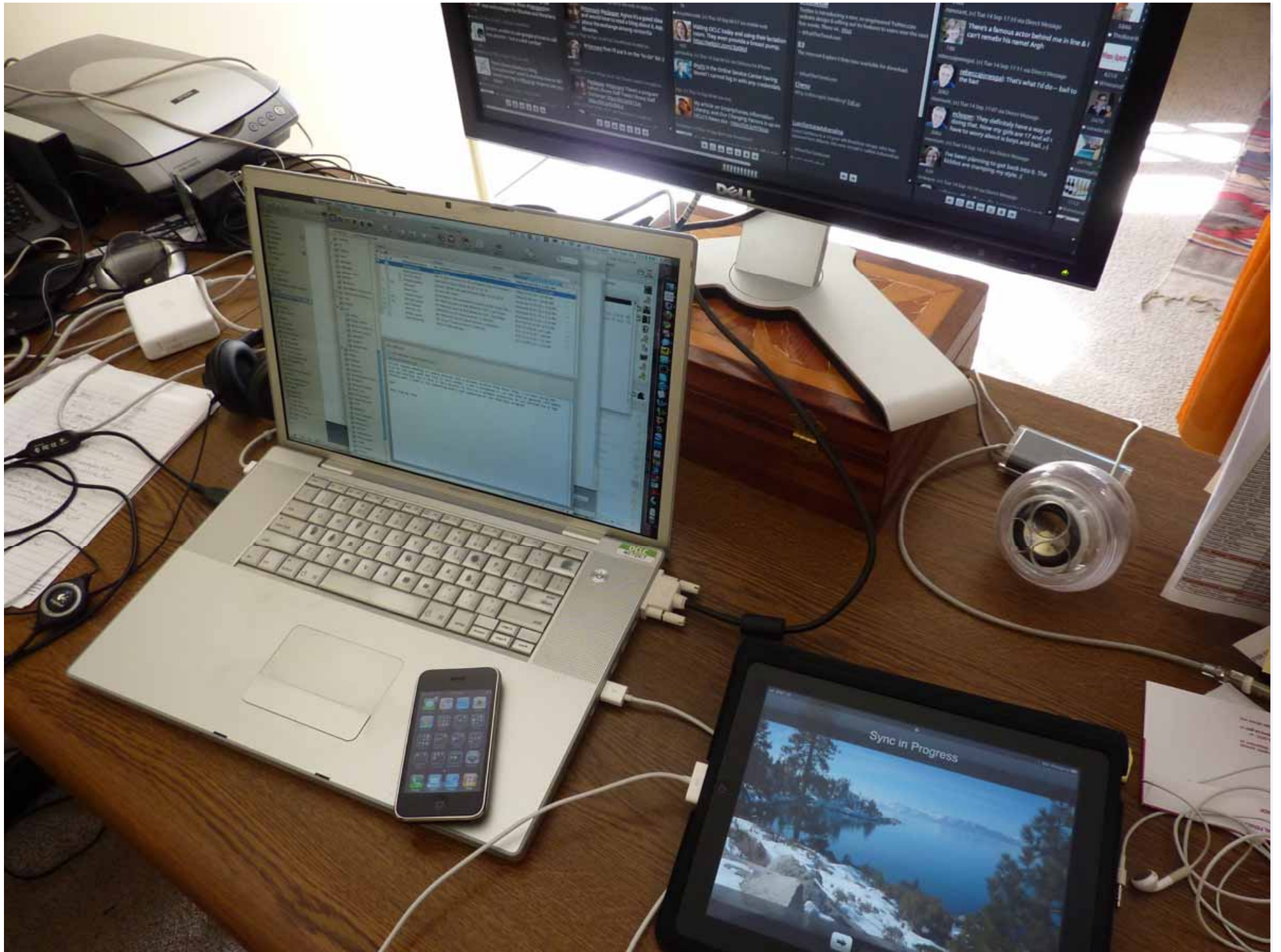
<http://www.flickr.com/photos/amagill/3366720659/>



<http://www.flickr.com/photos/jonezes/434355721/>

3) Ubiquitous information





The background of the slide is a photograph of a bright blue sky filled with large, white, fluffy cumulus clouds. The clouds are scattered across the frame, with a particularly large one in the lower right quadrant. The overall tone is bright and optimistic.

**4) The cost of innovation
is forever lowered**

Launch Instance Wizard

Cancel

CHOOSE AN AMI CREATE KEY PAIR CONFIGURE FIREWALL LAUNCH

Choose an Amazon Machine Image (AMI) from one of the tabbed lists below by clicking its **Select** button.

Quick Start My AMIs **Community AMIs**

Viewing: All Images All Platforms ubuntu 1 to 50 of 438 AMIs

AMI ID	Manifest	Platform	
ami-7a50013	Kaavo-basic-ubuntu/imod-basic-ubuntu-32bit.manifest.xml	Ubuntu	Select
ami-a9a443c0	Kaavo-basic-64bit-ubuntu/imod-64-bit-basic-Ubuntu.manifest.xml	Ubuntu	Select
ami-52a0463b	cloudspaceamis/CLOUDSPACE_UBUNTU_MYSQL5.1_PHP5_EBS_IMAGEMA	Ubuntu	Select
ami-43af4f2a	FHI_GID_UBUNTU_32_081209/image.manifest.xml	Ubuntu	Select
ami-4aa84b23	FHI_GID_UBUNTU_32_092809/image.manifest.xml	Ubuntu	Select
ami-7922c210	FHI_GID_UBUNTU_32_090209/image.manifest.xml	Ubuntu	Select
ami-881bfbe1	FHI_GID_UBUNTU_32_091509/image.manifest.xml	Ubuntu	Select
ami-9d03e2f4	FHI_GID_UBUNTU_32_GENERIC_072109/image.manifest.xml	Ubuntu	Select
ami-9900e4f0	acquia_amis/image_bundles/Generic_Ubuntu_8_04_2008_11_01_12_05_57_E	Ubuntu	Select
ami-93b454fa	descubrimos-bucket/descubrimos_07-13-09_nginx-0.7_mongrel-1.1.5_ruby-1.9	Ubuntu	Select
ami-bbf514d2	soren-us-east-1-jaunty-20090711/ubuntu-ec2-jaunty-i386.img.manifest.xml	Ubuntu	Select
ami-801bfce9	cloud-lp/im-ubuntu-sympclp-64.manifest.xml	Ubuntu	Select

Potential Drawbacks

- Security and Privacy
- Network Latency
- Usage-based pricing (unpredictability)
- Integration with local systems

A photograph of a bright blue sky filled with large, white, fluffy cumulus clouds. The clouds are scattered across the frame, with some appearing more prominent than others. The overall scene is bright and clear.

Cloud Computing in Libraries

All items		Refresh	
<input checked="" type="checkbox"/>	<input type="button" value="Share"/>	<input type="button" value="Folders"/>	<input type="button" value="Delete"/> <input type="button" value="Rename"/> <input type="button" value="More actions"/>
1-50 of 58		Last modified	
Name	Folders / Sharing	Date	
TODAY			
<input type="checkbox"/> <input type="button" value="Star"/> <input type="button" value="Document"/> Cloud Computing - LITA	<input type="button" value="Lock"/> Not shared	12:03 pm me	
YESTERDAY			
<input type="checkbox"/> <input type="button" value="Star"/> <input type="button" value="Spreadsheet"/> NCIP 2.0 Connectors	<input type="button" value="Share"/> Randy to everyone, 2 c	Sep 30 Randy	
EARLIER THIS YEAR			
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<input type="checkbox"/> <input type="button" value="Star"/> <input type="button" value="Image"/> Testing	<input type="button" value="Lock"/> Not shared	Sep 1 me	
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<input type="checkbox"/> <input type="button" value="Star"/> <input type="button" value="Document"/> OCLC Cooperative Platform White Paper	<input type="button" value="Share"/> me to everyone, 8 colli	May 24 me	
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<input type="checkbox"/> <input type="button" value="Star"/> <input type="button" value="Spreadsheet"/> ILS API Functionality	<input type="button" value="Lock"/> Emily to 4 collaborat	Mar 20 Karen	
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Cloud Computing

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Tower and the Cloud



Tower and the Cloud

ISBN: 0967285399

The emergence of the networked information economy is unleashing two powerful forces. On one hand, easy access to high-speed networks is empowering individuals. People can now discover and consume information resources and services globally from their homes. Further, new social computing approaches are inviting people to share in the creation and edification of information on the Internet. Empowerment of the individual -- or consumerization -- is reducing the individual's reliance on traditional brick-and-mortar institutions in favor of new and emerging virtual ones. Second, ubiquitous access to high-speed networks along with network standards, open standards and content, and techniques for virtualizing hardware, software, and services is making it possible to leverage scale economies in unprecedented ways. What appears to be emerging is industrial-scale computing -- a standardized infrastructure for delivering computing power, network bandwidth, data storage and protection, and services. Consumerization and industrialization beg the question "Is this the end of the middle?"; that is, what will be the role of "enterprise" IT in the future? Indeed, the bigger question is what will become of all

of our intermediating institutions? This volume examines the impact of IT on higher education and on the IT organization in higher education.

[Comments \(0\)](#)

My Profile



Sybil Harrison

Contact Info:
250-370-3604
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Subjects:

Articles

- [Cloud Computing and Information Policy: Computing in a Policy Cloud?](#)

Cloud computing is a computing platform that resides in a large data center and is able to dynamically provide servers with the ability to address a wide range of needs, from scientific research to e-commerce. The provision of computing resources as if it were a utility such as electricity, while potentially revolutionary as a computing service, presents many major problems of information policy, including issues of

- Amazon S3
- Amazon EC2**
- Amazon VPC
- Amazon Elastic MapReduce
- Amazon CloudFront
- Amazon RDS

Navigation

Region: US East

- > **EC2 Dashboard**
- INSTANCES
 - > Instances
 - > Spot Requests
- IMAGES
 - > AMIs
 - > Bundle Tasks
- ELASTIC BLOCK STORE
 - > Volumes
 - > Snapshots
- NETWORKING & SECURITY
 - > Elastic IPs
 - > Security Groups
 - > Placement Groups
 - > Load Balancers
 - > Key Pairs

Amazon EC2 Console Dashboard

Getting Started

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.

[Launch Instance](#)

Note: Your instances will launch in the US East (Virginia) region.

Service Health

Current Status	Details
Amazon EC2 (US East - N. Virginia)	Service is operating normally

[View complete service health details](#)

My Resources

You are using the following Amazon EC2 resources in the US East (Virginia) region: [Refresh](#)

- 0 Running Instances
- 0 Elastic IPs
- 0 EBS Volumes
- 0 EBS Snapshots
- 3 Key Pairs
- 5 Security Groups
- 0 Load Balancers
- 0 Placement Groups

Related Links

- > Documentation
- > All EC2 Resources
- > Forums
- > Feedback
- > Report an Issue

[Serials Solutions](#) > [Discovery Solutions](#) > The Summon™ Service

The Summon™ Service

True Web-Scale Discovery: Full-Breadth of Library Content - Easy & Fast.

Your library, with a single starting point.

The Summon™ web-scale discovery service enables a familiar web-searching experience of the full breadth of content found in library collections—from books and videos to e-resources such as articles. It goes beyond federated search, beyond next-generation catalogs to create an all-new service for libraries.

Through one simple search to a single unified index, the Summon service provides instant access to the breadth of authoritative content that's the hallmark of great libraries. No need to broadcast searches to other databases—it provides one search box for a researcher to enter any terms they want and quickly get credible results in one relevancy ranked-list.

Librarians like the service's power to transform their institution's search experience, and have found it easy to set up and integrate into their current library operations.



Discovery Solutions
The Summon™ Service
Features
Content & Coverage
Testimonials
News
Become a Participant
Resources
AquaBrowser[®]
360 Link
360 Search



Quick Links + En
Search at www.exlibrisgroup.com GO

Home > Products > Alma library management services > Overview

Products
Primo Discovery and Delivery
Aleph, Voyager integrated library systems
SFX scholarly linking
MetaLib metasearching
Verde e-resource management
DigiTool digital asset management
Ex Libris Rosetta preservation of digital assets
bX Usage-Based Services
» Alma library management services
Overview
Discover Alma
Alma Customer Stories

Ex Libris Alma

The Next-Generation Library Services Framework

Ex Libris Alma supports the entire suite of library operations—selection, acquisition, metadata management, digitization, and fulfillment—for the full spectrum of library materials, regardless of format or location.

Recognizing libraries' present and future needs, and in collaboration with diverse global partners, Ex Libris has developed the Alma next generation library management service to consolidate, optimize and extend the range of library services.

- **Consolidate:** unify the disparate systems today's libraries manage for electronic, digital, and print resources
- **Optimize:** optimize workflows through shared data and collaborative services as well as a cloud-based infrastructure
- **Extend:** re-direct resources to focus on extending library services within and outside their institutions in direct support of teaching and research goals

Customer Center

Brochure



Download Brochure

Alma FAQs


The Alma library management service and its Benefits - FAQs



OCCL WorldShare™ Manager

www.oclc.org/webscale/

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OCCL WorldShare™ Management Services

OCCL WorldShare™ Management Services

The first cooperative management service for libraries

OCCL WorldShare™ Management

My Tasks(0)

Discover Items

My Library Holdings Only

Keyword

architecture

Search

Discover Items Search...

ECO ARCHITECTURE

by Fisanick, Christina.

Book: English

Publisher: Farmington Hills, MI : Gre

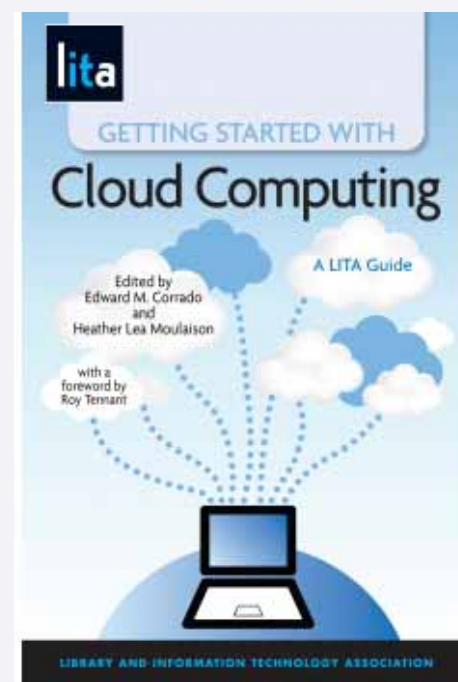
“ Webscale management, in conjunction with WorldCat Local, represents the most significant development in librarianship since automation. My anticipation is that WMS will continue to evolve as new technologies and user needs demand.”

Peter G. Obuchan, Newbury College Director of Library Services

Case Study: Digital Resource Commons

- Created their own “application stack” for digital repository software
- Any member institution could get up and running in minutes via Amazon Web Services

“The results of the DRC cloud project thus far,” writes Davison “have been *a cost-effective, agile response to seemingly insurmountable delays in hardware provision and staffing*; a rapid development of technical proficiency that can be shared throughout the state and with the DSpace community at large; and a compelling model for more independent institutional control and access to site administration.”

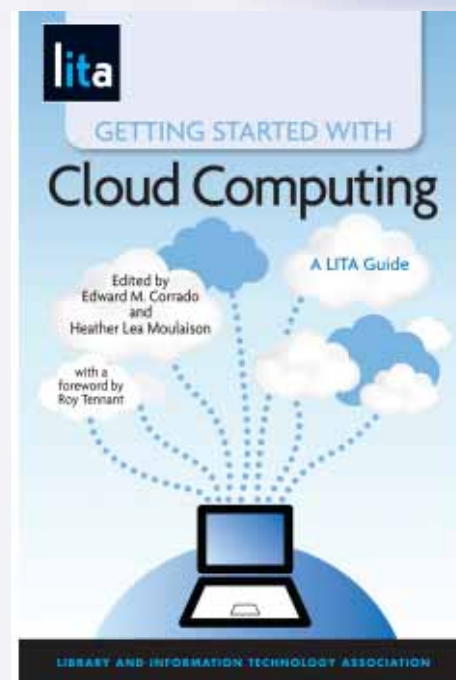


Questions to Consider

- Can you avoid having to buy new hardware by using a cloud service?
- Can you reassign staff previously charged with managing your servers?
- Are there any laws or policies that prevent you from having data off-site?
- How do the relative costs pencil out?
- Does your potential use require massive amounts of data to be transferred? (cloud services may charge for data throughput)

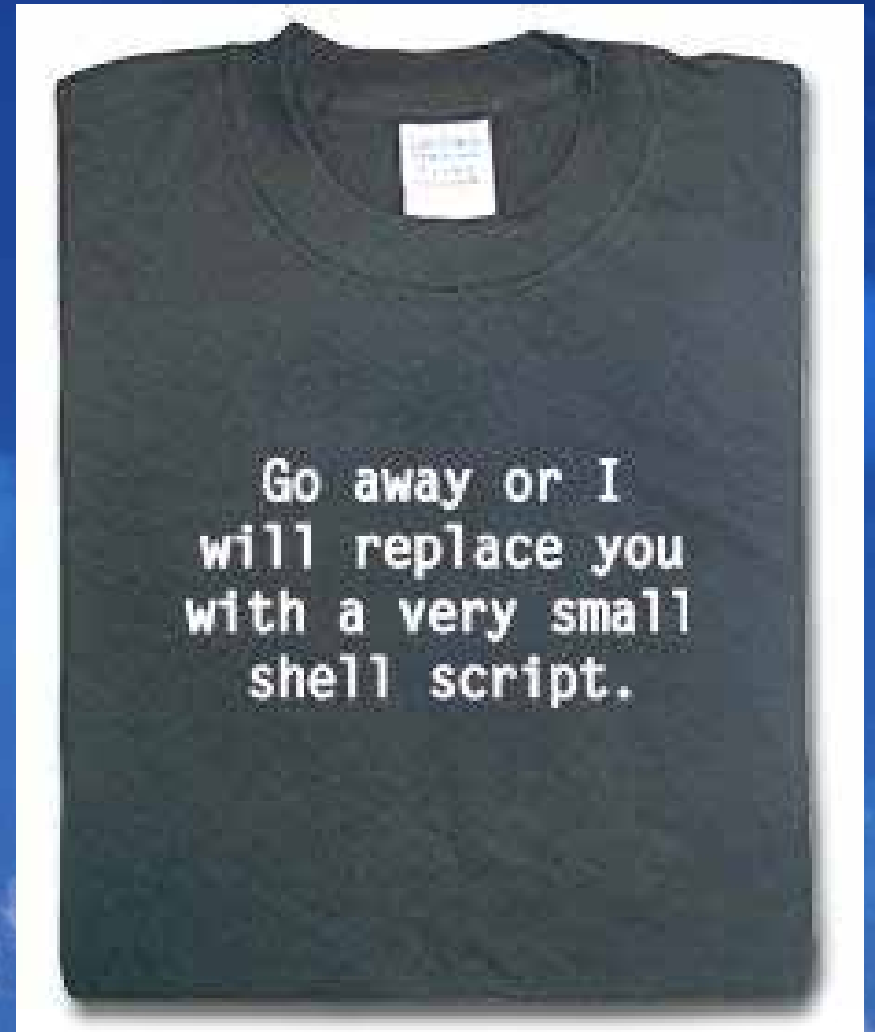
Where To Go From Here

- Ed & Heather's book —>
- *Current Cites*, currentcites.org
- LITA programs and workshops at ALA and LITA National Forum
- Other professional conferences
- Blogs, twitter, etc. for current awareness
- The usual set of magazines and journals



**Questions?
Comments?**

Roy Tennant
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Stay Involved

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webjunction.org

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webjunction.org/crossroads

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