



## Finding the Silver Lining

### Cloud Computing and Libraries

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## Agenda

- Defining Cloud Computing
  - The way we were...
  - Away we go!
  - The cloud computing stack
- Pros and Cons (in brief)
- Libraries and (in?) the cloud



## 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



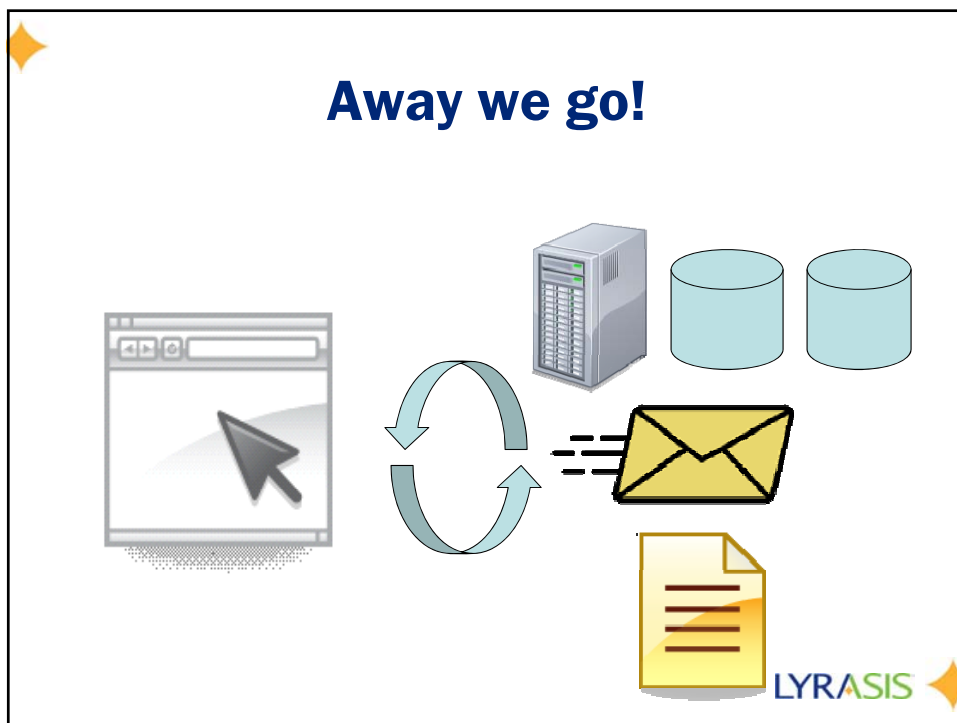
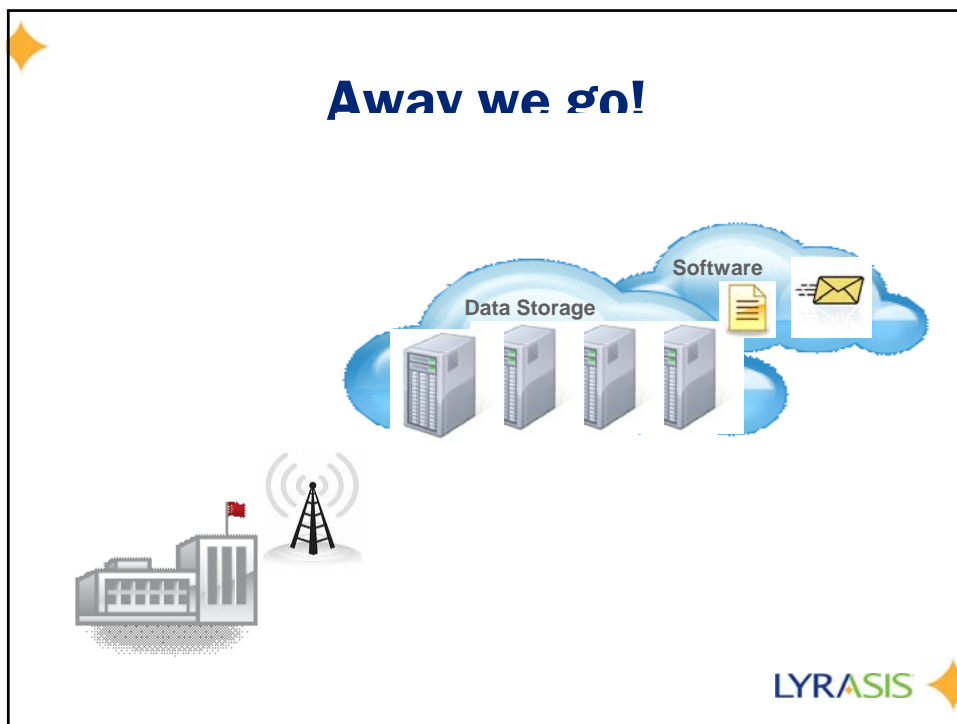
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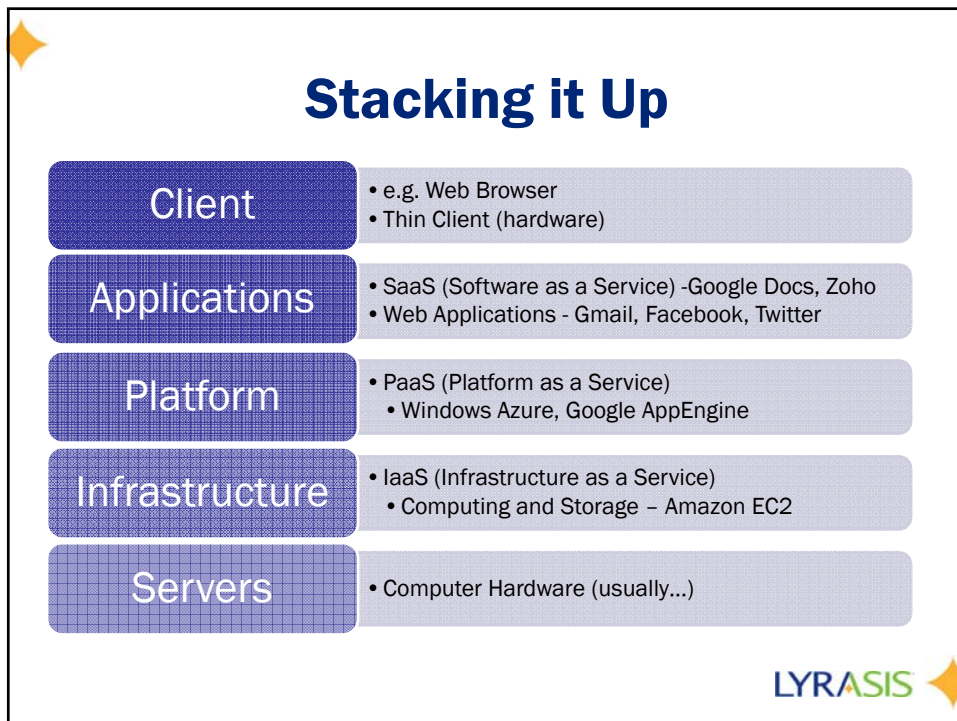
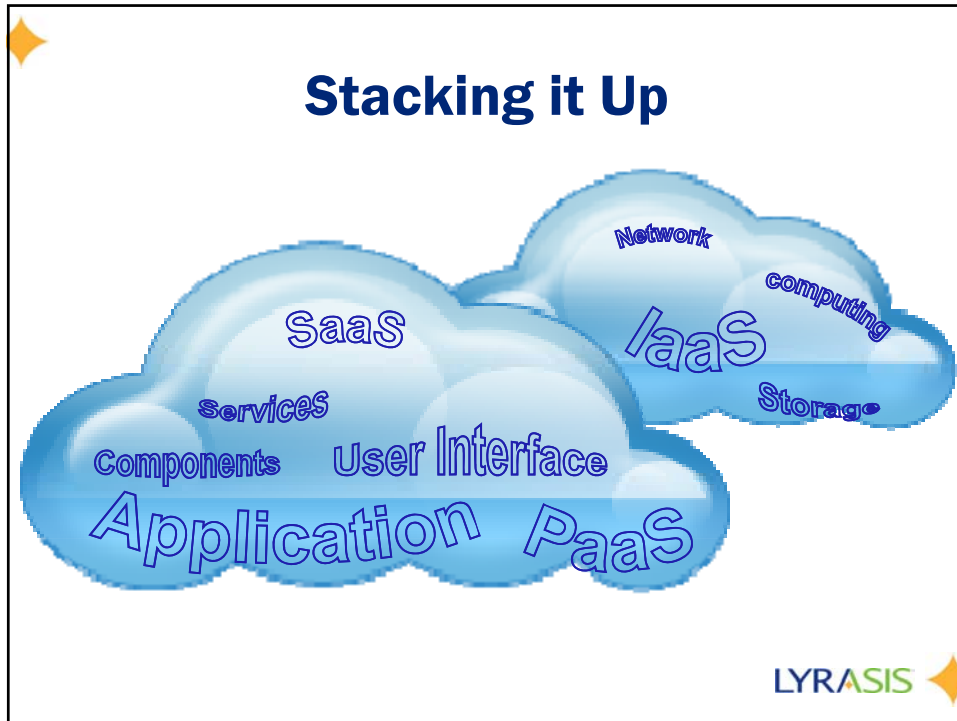
## The way we were.....

- Software
  - Upfront purchase
  - Licensing
  - Maintenance and updates
- Data storage
  - Purchase hardware
  - Maintenance and backup




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## The Silver Lining

- Faster deployment
- Cost
- Scalability
- Security
- Reliability through Redundancy
- Easier updates/enhancements
- Greater Access to Technical Resources
- Accessibility




## Chance of Showers

- Cost
- Privacy and Security
- Vendor lock-in
- Threat of major outages
- Data integrity
- Intellectual Property Management
- Organizational impact








## Libraries in the Cloud

SaaS	Free Web Applications
Data Storage and Computing	Libraries, specifically



## SaaS

	Email, Calendars, Documents, User Groups and much more
	Productivity, Collaboration, and Business Applications
	Cloud-based gaming??
	CRM and other business applications



# Free Web Applications



delicious  
social bookmarking


twitter

facebook

Gmail  
by Google

Google docs

## Data Storage and Computing in the Cloud



amazon  
webservices  
Amazon Simple Storage Service (S3)  
Amazon Elastic Compute Cloud (EC2)

Google  
App Engine  
Run your apps on Google Infrastructure

Microsoft Azure

Rackspace Managed Hosting

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## Library Specific Stuff



### LibLime

- Koha Express – Hosted open source ILS for smallish libraries
- LibLime Enterprise Koha – More capacity (and controversy!)



Web Scale Management Services  
Digital Archive

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## Libraries have been in the Cloud

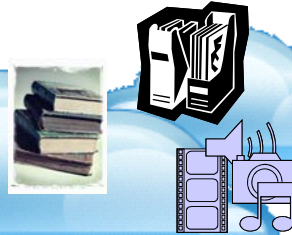
- Consortia
  - OCLC, RLG, etc.
- Integrated Library Systems
  - By the end of 2009, almost all vendors of library automation systems offered an SaaS option
  - All of Auto-Graphics new customers in 2009 chose the SaaS version of AgentVerso
  - Nearly half of Polaris's new customers since 2006 chose SaaS

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## Library Resources in the Cloud

- Our serial subscriptions
- Our books
- Our audiobooks
- Our movies and videos
- Our government documents
- Our catalogs
- Our digital collections



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## Helpful Resources

- Altimeter Group. Customer Bill Of Rights: Software-as-a-Service
  - <http://www.scribd.com/doc/20961989/AG-Customer-Bill-of-Rights-SaaS-Live>
- Boss, Richard W. Software as a Service. PLA Technotes.
  - <http://www.ala.org/ala/mgrps/divs/pla/plapublications/platechnotes/applicationservicepr.cfm>
- Cloud Computing in Plain English
  - <http://commoncraft.com/cloud-computing-video>

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## Helpful Resources

- Kroski, Ellyssa. "Library Cloud Atlas: A Guide to Cloud Computing and Storage: Stacking the Tech. Library Journal, 09/10/2009
  - <http://www.libraryjournal.com/article/CA6695772.html>
- Peters, Chris. What is Cloud Computing and How will it Affect Libraries?
  - <http://www.techsoupforlibraries.org/blog/what-is-cloud-computing-and-how-will-it-affect-libraries>
- Reese, George. The Economics of Cloud Computing. O'Reilly Community, 10/24/2008
  - <http://broadcast.oreilly.com/2008/10/the-economics-of-cloud-c.html>

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## Thank You for Attending!

### Questions/Comments

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