Cloud Computing: Impact on Library Services

What is Cloud Computing?

Poll
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How familiar are you with Cloud Computing? (Choose one)

A. Very familiar, we use it all the time
B. Somewhat familiar
C. Have only heard the words
D. Never heard of it before

Cloud Computing: The practice of using a network of remote servers hosted on the Internet to store, manage, and process data.

What does it really mean?

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Disadvantages
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Security

Cost

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Buy Out
Iron Mountain
Lock - In

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Cloud Architecture

How does it work?

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What does the Library need?

1. Cloud Host
2. Reliable Internet

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Software as a Service
Easier to Administer
Everyone has the Same Version
SaaS
Accessible from Anywhere Collaboration is Easy
Software is Automatically Updated

Platform as a Service
Easier to Administer
Geographically Distributed Teams
PaaS
Services Obtained Worldwide One Vendor, One Bill
Operating System is Automatically Updated

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Platforms
- Dynamic Scaling Policy-Based Services
- Complete Desktop virtualization
- Infrastructure as a Service
  - Easier to Administer
  - Complete Desktop virtualization
  - IaaS
    - Dynamic Scaling
    - Policy-Based Services
    - Administrative Tasks are Automated

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Development as a Service

Identity as a Service

Security
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Types of Cyber Crime
- Hacking
- Identity Theft
- Spam
- Viruses

Cost of Crime
- $400 Billion in 2011
- $1.71 Billion in 1st Quarter of FY2014
- $80 Billion by 2017
- 5% of IT Budget Goes Toward Security

Securing Data

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Amazon Physical & Environmental Security

Generators

Uninterrupted Power Supply

Climate & Temperature Controls

Monitors

Electrical, Mechanical, & Life Support Systems & Equipment

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Securing Data to the Cloud

Backup

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Timed Access

Financial Systems

Cost

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Pricing Models

Pay as You Go

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Pre-Pay

TechRepublic Comparison

Avoiding Unneeded Expenditures

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Estimate Your Usage

https://cloudability.com/

Check Your Usage

PRICE BREAK!

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Diet

Cost of Ownership

Operational Costs

Salary + Benefits = Labor
Utilities
Rent
Software / Licensing
Monthly Labor

Salary & Benefits = $5,000
Time spent on task = 20%
$5,000 x .20 = $1,000

Adjustments

3 Temp workers
@ $5,000 each
$5,000 x 3 = $15,000
For 2 months
$15,000 x 2 = $30,000

Utilities

Electric company charges you $.10 per kwh
Kwh = Kilowatt Hour
1 Kilowatt = 1,000 watts
825 Watt Server
Runs 24/7
825 x 24 = 19,800 watts per Day
Divided by 1,000 = 19.8
19.8 x $.10 = $1.98 per day
= $60.22 / mo = $722.70 / yr

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Rent

= $5 per sq foot

Your Server room is 10’ by 10’

10 x 10 = 100 sq ft x $5 = $500

Licensing

A mail exchange server = $1800/yr

Google mail server = $0

Transitioning to the Cloud

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Poll

Does your library currently use the Cloud? (Choose all that apply)

A. Data Storage
B. Webmail
C. Media Streaming
D. OPAC
E. Other

Planning for Change
What to Move?

Software

Email
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Which Vendor?

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### This Month’s Activity as of July 9, 2011

The billing cycle for this report is Jul 1 – Jul 31, 2011. The ARS serve usage charges on this page currently show activity for all accounts through approximately 07/08/2011.

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Questions?

Thank you.

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