

High Availability Cloud Computing Goes Public

Presenter: **Habib** Tabatabai

Session 4.2.2

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Nicholas Carr argues that computing will go the way of electricity. Use, purchase when needed. He calls it
“utility computing.”¹

1- The Big Switch: Rewiring the World, from Edison to Google, 2009, W. W. Norton & Company, ISBN: 978-0-393-33394-7

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- **Cloud computing is utility computing.**

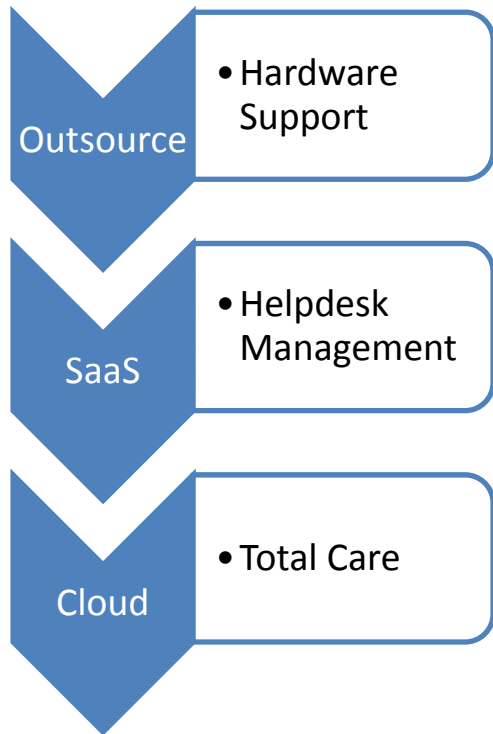
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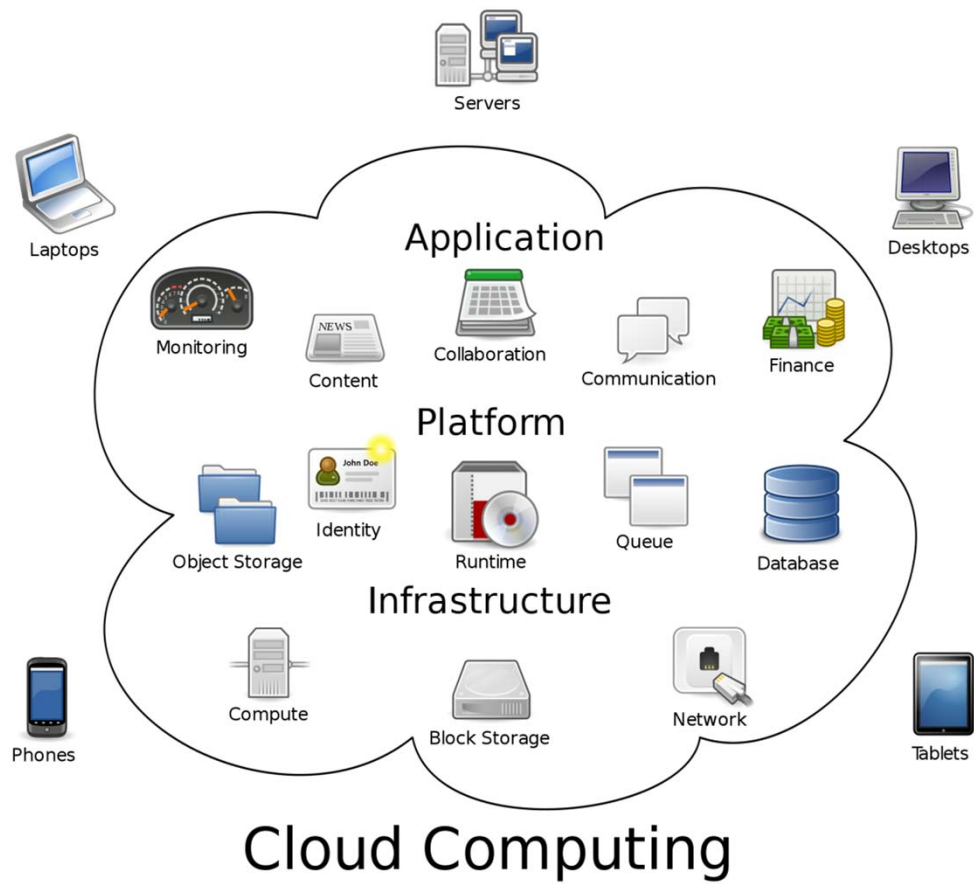
- Cloud computing is utility computing.
- **Service Oriented Modeling Framework (SOMF)**
 - Architects everything to be provided as a service on a thin(est) client.

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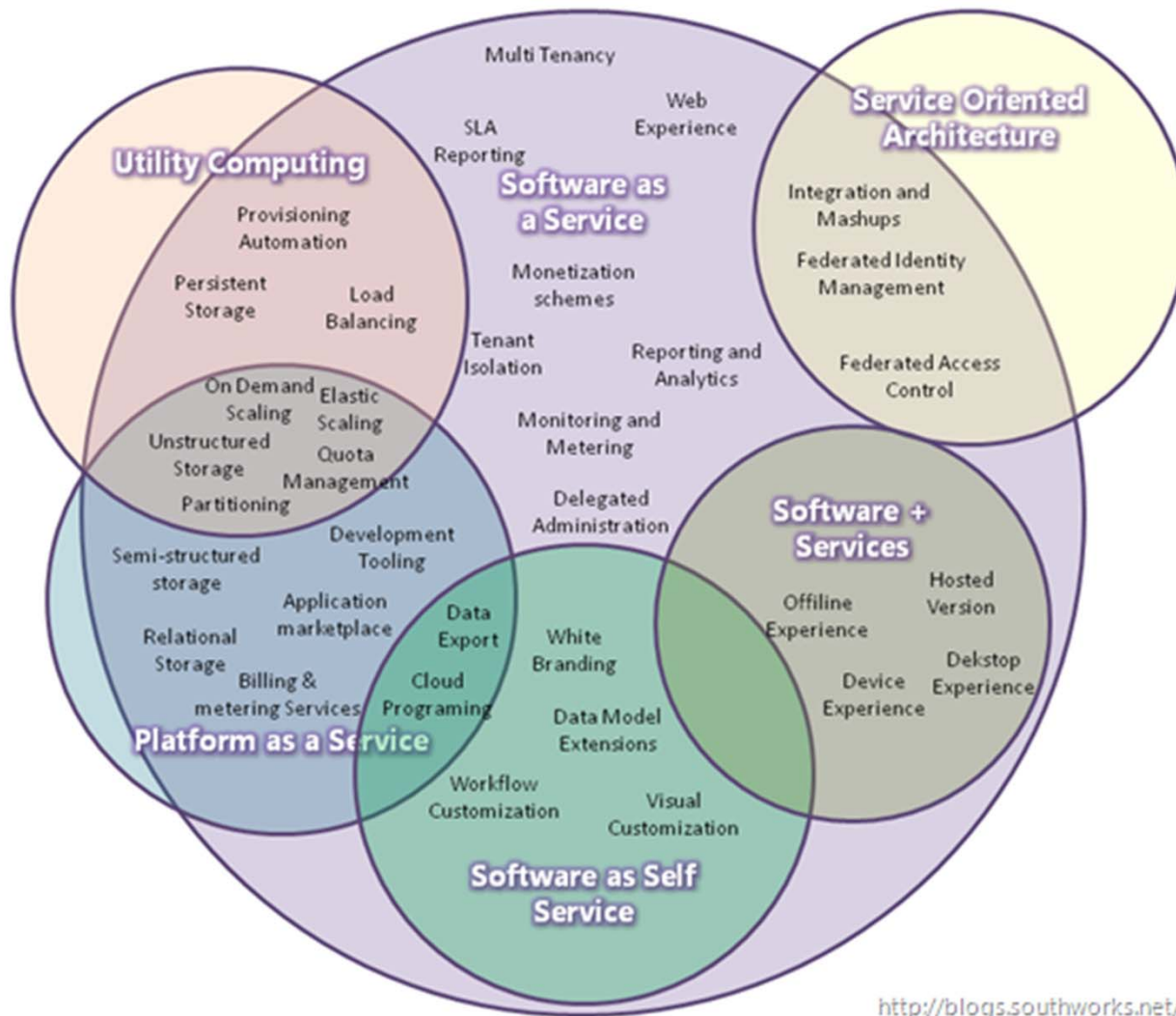
- US National Institute of Standards and Technology defines cloud computing as “a model for enabling convenient, on-demand network access to a shared pool of configurable computing resources (e.g. network, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction.”



Historical evolution of reliance on external technical assistance



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Cloud Offers Advantages:

Scalability

Adjust needs.

Instant Software Updates.

Unlimited Storage Capacity.

Increased Computing Power.

Sustainability

Data protected.

Systems are maintained independent of your schedule.

Less technical knowledge required.

Reduced Cost

Lowers IT Infrastructure Costs.

Easy implementation.

National and International laws and regulations.

- Who can have what where?
- Security of private information

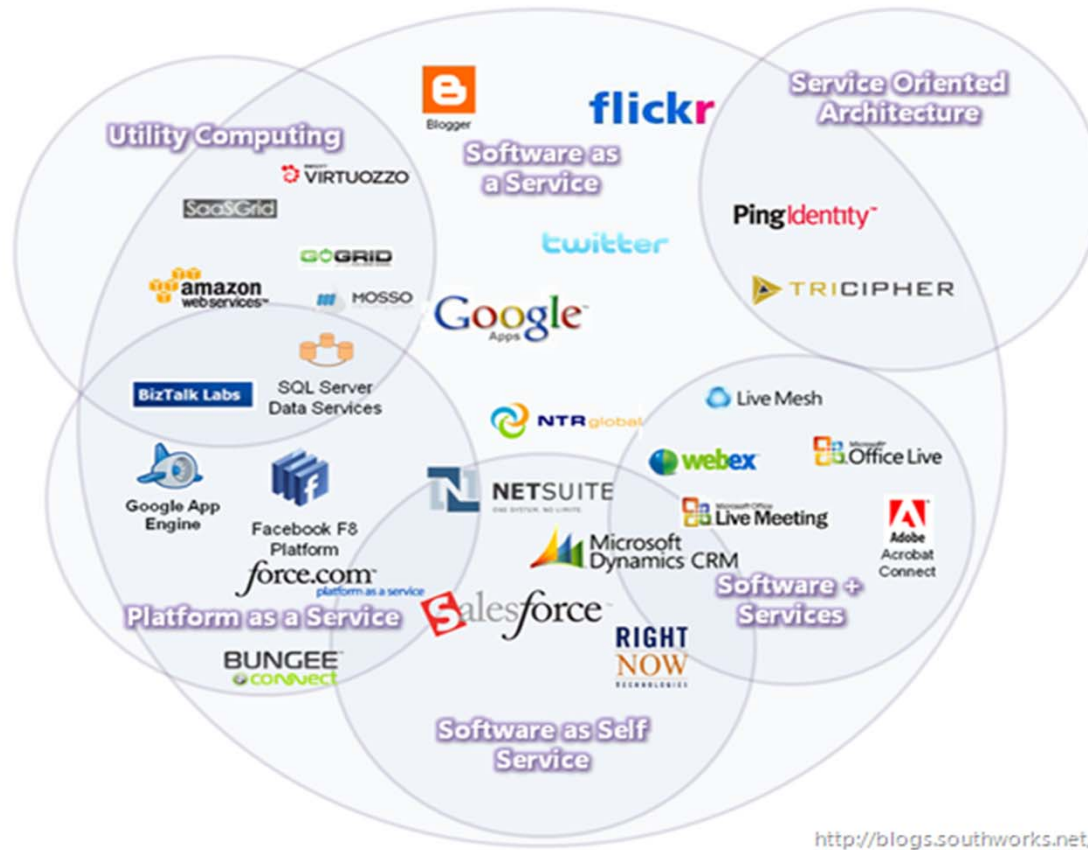
Accessibility of services

- Continuous Connectivity
- Bandwidth or response time
- Data security

Data Ownership

- Strong contracts
- Vendor reputation

A Cloud Computing Market Scan



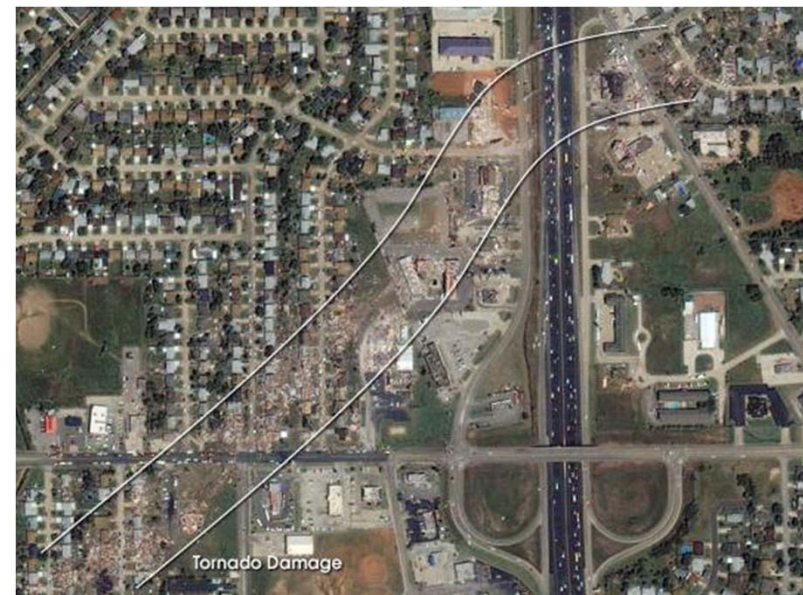
- Enomaly: Canadian, hosts France Telecom, NBC, the Canadian government, Deutsche Bank, Best Buy, several universities
- Amazon: *New York Times*, *Washington Post* and Eli Lilly
- AT&T: U.S. Olympic Committee
- Google: Arizona State University and Northwestern University
- GoGrid: SAP and Novell
- Microsoft: Epicor, S3Edge and Micro Focus are among the customers using Azure to develop cloud apps.
- Salesforce: 55,400 customers in many industries including financial, media, energy, healthcare, and retail
- Aepona: Ireland

Cloud hosting can be use just for storage or application host.

- For on-demand cloud storage like Amazon Simple Storage Service (S3), companies like Zmanda, CommVault, TwinStrata, ElephantDrive provide a web based management frontend to manage your backup and restore with ease.
- Amazon offers Elastic Compute Cloud (EC2), for computing capacity

- Mother nature forces some of us to look at cloud hosting as a more secure solution.

Moore, Oklahoma, US, 1999 Tornado





University of Hawaii (Library) flood, US, 2004

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Joplin, Missouri (Hospital)
Tornado, US, 2011



France 2009 Storms

And who can forget earthquake and Tsunami in Japan?

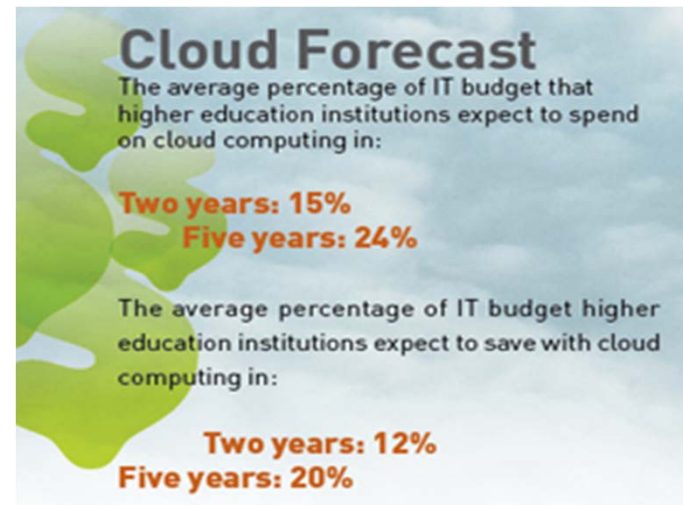
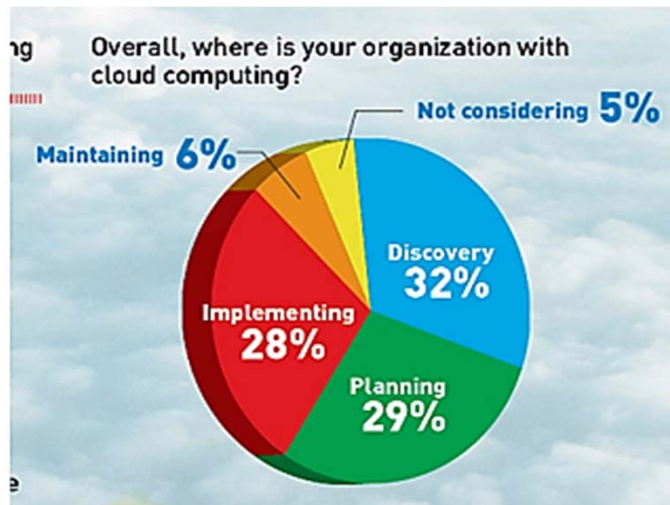
Cloud Services in Libraries

Worldcat

All ExL “Total Care” Systems

LibGuides

Caught my attention <http://www.edtechmag.com/> Sept/Oct 2011 Issue



Questions – Comments – Feedback

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