Avoiding 'Cloud Failures' – Strategies to Use the Cloud Effectively

Martin Capurro
Product Management & Development
CenturyLink Dedicated Hosting & Cloud Services
Mainframe Age
Central Networked Computing

- Processing is concentrated in main central processing unit (CPU).
- Used mainly by large organizations for critical applications, typically bulk data processing such as census, industry and consumer statistics, enterprise resource planning, and financial transaction processing.

Server Age
Distributed Computing

- Processing is decentralized. In distributed computing, a computational problem is divided into many tasks, each of which is solved by one or more computers.
- Consists of multiple autonomous computers that communicate through a computer network. The computers interact with each other in order to solve a common computational problems.

Cloud Age
On Demand Computing

- Processing activities performed over the Internet
- On-demand computation, software, data access, and storage services that do not require end-user knowledge of the physical location and configuration of the system that delivers the services.

We are in Year 2 for Cloud Computing
Cloud Isn't One Thing - It's a Matter of Perspective

Cloud Allows for Efficiency in IT Services & Supporting Infrastructure

- **SW Development**: Rapid Deployment
- **Start Ups**: Low Entry Cost
- **Enterprise**: Efficiency Flexibility
- **Managed Hosting**: Highly Automated Services

It Just Works
Or in Some Cases - Forego Everything & Rent the Software

Applications

Messaging * Collaboration * Customer Marketing * Web Sites * Industry-Specific Application

Programing Languages

Platform as-a-Service

Services

• Web-delivered SW
• VDI Software Service

Databases

Platform as-a-Service

Services

• Development Environments
• Run-Time Environments
• Database Services

Operating Systems

Infrastructure as-a-Services:

• Operating Systems
• Storage
• Servers
• Network
• Security
• Load-Balancing

Storage

Infrastructure Services

• Operating Systems
• Storage
• Servers
• Network
• Security
• Load-Balancing

Bare Metal

CenturyLink™
What’s Happening?

**Has Happened . . .**

CenturyLink™ + Qwest

**Is Happening . . .**

Creation of CenturyLink Data Hosting & Cloud Services (DHCS)

**Is Yet to Happen . . .**

CenturyLink™ + SAVVIS
Thank You

Contact Information:
Martin Capurro – martin.capurro@centurylink.com