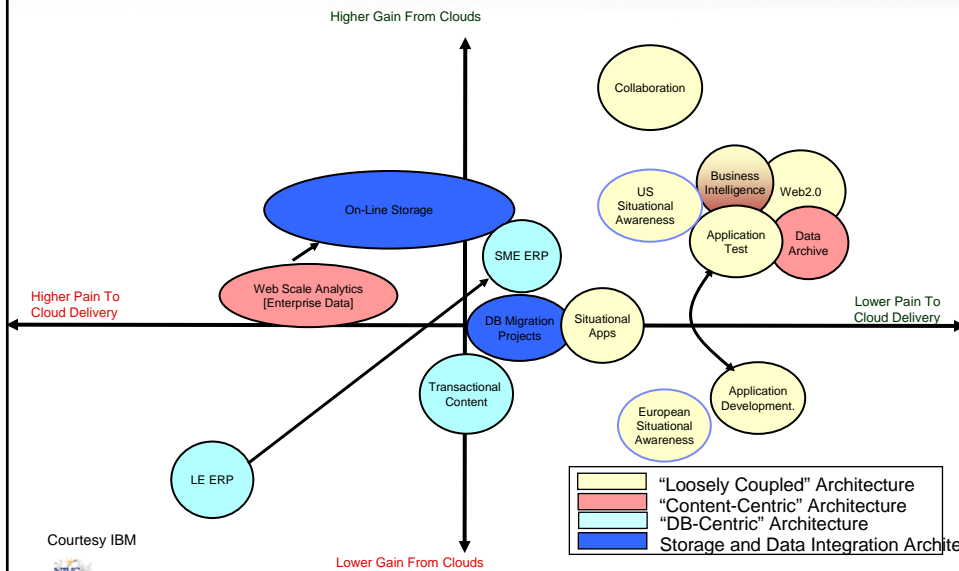


International Cloud Computing: What About the Data?

Kevin L. Jackson
General Manager, Cloud Computing Services
NJVC, LLC

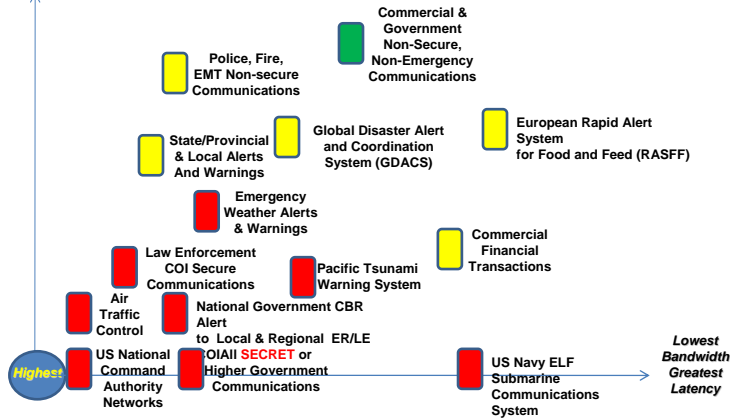


Cloud Computing is Ideal for “Loosely Coupled” Applications



Information Assurance Risk Factors by Domain

Least Degree of Trust
(Authentication,
Information Validation
& Privacy)



Courtesy Network Centric Operations Industry Consortium

International Cloud Data Environment

- ★ Browser-based applications
- ★ Ubiquitous data access
- ★ Global compatibility
- ★ Reduced capital requirements
- ★ “Frictionless” Environment (Viral Applications)
- ★ International marketplace of ideas



International Disaster Response: InRelief.org

United Nations Organizations

- * [Logistics Cluster \(World Food Program\)](#)
- [One Response](#)
- [ReliefWeb](#)
- [UN Population Fund \(UNFPA\)](#)
- [UNICEF](#)
- [UN Spatial Data Infrastructure](#)
- [UN World Food Programme](#)

International Organizations

- * [CARE International](#)
- [Disaster Charter](#)
- [International Rescue Committee](#)
- [Oxfam International](#)
- [Red Cross](#)
- [Save the Children](#)
- [Ushahidi](#)

United States Organizations

- * [AmeriCares](#)
- [Direct Relief Person Finder](#)
- [Project Hope](#)



Scientific Collaboration: NASA & Japan NII

- * Jointly served publicly-available selections of Mars Orbiter data sets
- * First step in NASA's efforts to demonstrate how cloud standards can facilitate interoperability and data portability for the benefit of the international science community
- * NASA and NII will collaborate on open source reference implementations of interoperable cloud services



Market Collaboration: EuroCloud



“The cloud model stands for global reach, ecosystem partnerships and integration. Our goal in developing EuroCloud is to promote SaaS and cloud services and applications across Europe and encourage its take up. EuroCloud will be an accelerator of business, of technological relationships and application integration. It will represent the cloud industry in Europe -- taking into account local differences -- and be an excellent platform for exchanges with America or Asia,”

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[Turkey](#)
[Ukraine](#)
[United kingdom](#)



★ Pierre-José Billotte, EuroCloud

Challenges

★ Legal Issues

- Differences in consumer protection laws
- Management of transborder data flows
- International data privacy and security safeguards
- Cross border regulatory enforcement
- Electronically Stored Information / E-Discovery

★ Interoperability, Portability

- Use and consistent implementation of open standards.
- Market consolidation on a limited number of proprietary protocols/interfaces

★ Increase “Digital Divide”

- Dependency on high broadband speeds at affordable prices
- Reduced incentive for the development of locally-based internet computing expertise and capability



Data Confidentiality, Privacy, Integrity

- ★ Data stored, transmitted and processed outside of the organization
- ★ Shared computing environments
- ★ No physical control of data
- ★ Physical and logical access managed by provider
- ★ No controls to prevent data modification
- ★ No logging events on data (access, modification, transmission)



Regulation and Compliance

- ★ Data subject to new laws
- ★ Exposure to foreign governments and subpoenas
- ★ Retention requirements vary among jurisdictions
- ★ Audit of provider's environment
- ★ Increased complexity to comply with standards



Cloud Musings by Kevin L. Jackson
PERSONAL COMMENTS AND INSIGHTS ON CLOUD COMPUTING RELATED TECHNOLOGIES AND THEIR USE IN THE PUBLIC SECTOR TO SUPPORT NET-CENTRIC OPERATIONS.

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Kevin L. Jackson (@GovCloud)
CLOUD MUSINGS ON FORBES

Federal Agencies Lack Cloud Exit Strategy
Ninety percent of federal IT managers recently surveyed either say their agencies don't have or report being unaware of whether their agencies have a cloud computing exit strategy, according to a survey commissioned by Quest Software Public Sector.

Agencies need a cloud exit strategy if they want to move their data or change cloud providers, government and industry experts say.

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Bob Gourley
Salvatore Gabuvasa

GovCloud: Cloud Computing for the Business of Government
A Practical Primer to Business, Design and Architecture of Public Cloud Solutions
Desk Reference and Guide for Managers

Transparency Computing

National Reconnaissance at Cloud Expo

Cloud Expo 2011 New York \$800 Savings here! In the fall of 2009, while she was Deputy CIO of the Central Intelligence Agency, Jill Tumbler Singer shared with attending conference delegates her view that Enterprise Cloud Computing was "The Infrastructure's Ultimate Revenge" - noting it was a faster, better, cheaper, and safer computing environment for the enterprise. Then she wrote about Enterprise Cloud Computing for Cloud Computing Journal, defining it as "a behind-the-firewalls use of commercial, internet-based cloud technologies specifically focused on one company's or one business environment's computing needs." Now, one year into her promotion to CIO of the National Reconnaissance Office, Singer is coming back to speak for the second time in the International Cloud Expo series. She will be addressing the audience at New York's Jacob Javits Convention Center on wh... (more)

Thank You!

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