

### **Reuven Cohen**

\* Founder & Chief Technologist, Enomaly

\* Creator of the Enomaly Elastic Computing Platform

\* Instigator of Cloud Camp (Worldwide series of events)

\* Creator of the Cloud Interoperability Forum

**\*** IEEE Program Chair on Cloud Computing

\* Sun Microsystems Board of Advisors

\* Writing cloud guide for O'Reilly (2009)

\* Blogs at www.elasticvapor.com

# World Wide Cloud UnSession

\* Federated

**\*** Global

- \* Interoperable
- \* Scalable
- \* Self Healing
- \* Hybrid, Intracloud

### **Cloud Computing**

- Cloud Computing = Internet Computing
- Internal Cloud = Intranet
- External Cloud = Internet
- No System Boundaries
- No physical or geographic limitations
- No internal composition or ownership
- Service Oriented
- "Internet centric computing"



# Cloud Computing Challenges

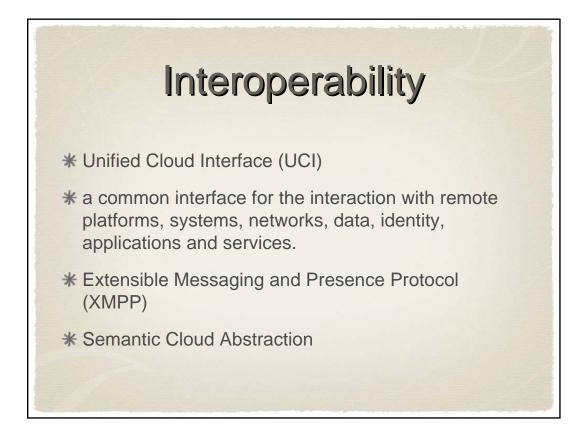
- \* Enterprise IT wants Control
- \* Business units want flexibility
- \* Data Portability and Interoperability
- \* Trust & Security
- \* Network Latency and Availability
- **\*** IT Transparency
- **\*** Disaster Recovery
- **\*** Cloud Costing

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## **Cloud Barriers**

- \* Data Security & Privacy
- \* Regulatory Control (SoX, HIPPA, etc)
- \* Lack of Audit, Governance & Accountability
- \* Questionable Reliability & Performance
- \* Lack of Management Tools
- \* Lack of Integration with Internal Infrastructure
- \* Lack of Regional "Clouds"
- \* Lack of Turn key cloud platform solutions







# GeoPolitical Cloud Computing

- **\*** Geo-targeted Computing
- \* Regulatory Concerns (i.e. US Patriot Act)
- \* Compliance (Sarbanes Oxley, HIPAA)
- \* Accountability & Audibility
- **\*** Data Authority
- \* Jurisdiction and data protection laws

