Cloud Computing

Abstract

...difficult to ignore the impact of cloud computing
...range of vendor products...responses of IT organizations
...re-examination of computing platforms and software products

We present a consumer’s perspective of cloud computing...

adoption of cloud infrastructure services...new software products
...from technical, operational, legal and financial perspectives.

Presentation format

• Introduction
• Product & infrastructure context
• Investigations of IaaS / PaaS / SaaS
• Initial cloud experiences
• "Go forward" approach
• Learnings & cautions
• Q&A
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2009 Revenues $US 12.9 Billion
• Americas: 59%
• EMEA: 30%
• Asia: 11%

Footprint
Over 55,000 employees in more than 100 countries
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Minnesota datacenters

- 5 active data center modules on 3 sites; >100,000 sq. ft. of raised floor
- Network
  - 6x 1-gigabit Internet network pipes from 5 different providers;
  - transmission up to 6,000 megabits/second
  - high-speed connectivity to 400 locations worldwide
  - 68,000+ LAN ports on campus
- Server footprint
  - 15,000 mainframe MIPS running Z/OS & OS/390
  - 18,000 servers: 11630 Linux, 5170 Windows, 1270 Solaris/AIX
  - 10,000 virtual machines
- Storage footprint
  - 11 petabytes of installed storage disk & tape including 5PB NAS & 2.7PB SAN
- Database
  - 1600 Oracle servers, 640 Msft SQLServer, DB2 & others

Smaller datacenters in Ann Arbor & Limerick, Eire
Overview (14)

Select all topics: the topics selected

Cases: View all

Flood v. Kuhn
Supreme Court of the United States, June 18, 1970
467 U.S. 218

...Arbitration by professional baseball player who had been traded to another major league club without his previous knowledge or consent made a free agent of player...

...It is the collective bargaining representative for all major league baseball players...

...You must not forget, however, that there are only some 300 major league baseball players...

Charles O. Finley & Co., Inc. v. Kuhn
United States Court of Appeals, Ninth Circuit, April 13, 1971
569 F.2d 527

...Action was instituted on claim of professional baseball player and owner-cum-employer of commissioner of baseball with respect to issues which were contemporaneously authorized...

...The Major Leagues, in their joint action, adopted a Major League Manager, and, to whatever end, enforce the said Major League Manager and to whatever end, enforce the said...

...And 1 Law. 3 provides the case of a player, the player's Clubs, officers, employees, or players who is deemed by the Commissioner of Baseball, acting in his capacity as such, to have committed any offense against any regulation of the Rules, to a minimum punishment...
Product Context

TR Professional products address the information needs of distinct market segments--Legal, Tax & Accounting, Science & Healthcare--but the general information flow and application structure follow a common model.

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**Initial cloud experiences**
- Classification of 120 million European patent actions
- WestlawNext test harness
- Disaster recovery site for Novus content repository
  - 10% fixed infrastructure
  - 90% cloud capacity
- User-experience "big data" reduction & analytics
- Shared Hadoop clusters: 5 inhouse with expansion into commercial cloud
- Azure early technology adoption program

"Go forward" approach
- Learnings & cautions
- Q&A
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Product "Go forward" approach

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Learnings & Cautions
- Performance
- Management
- Reliability
- Financial implications
- Intrusion
- Data locality
- Information security; attorney-client data privilege & confidentiality
- Platform selection
- Brand protection

Q&A
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