The Future Ahead: Cloud Computing

Kantanu Kundu Founder & CEO, A2Zapps.com

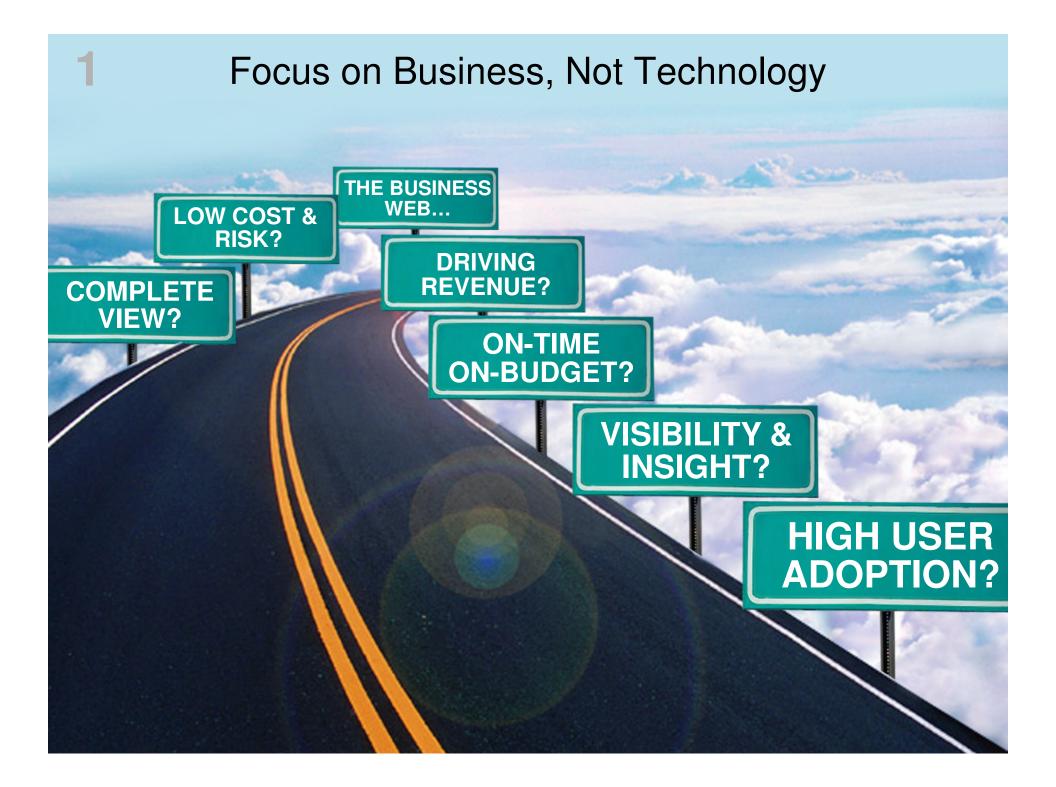
"Computation may someday be organized as a public utility..."

opined McCarthy during 60s

What Is Cloud?

A new way of delivering solutions to customers over the web

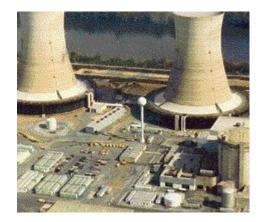
Why Is It Getting So Popular?



On-Demand (Pay-as-you-Grow)

Traditional Software

2



On-Demand Utility



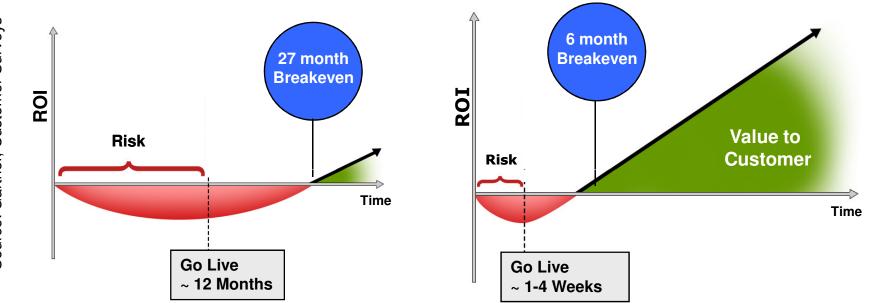
Build Your Own

Plug In, Subscribe Pay-per-use

Delivers Value in Weeks Not Years

Traditional Solution

Cloud-based Solution



⁴⁴Fast time-to-value for customer management deployments often outweigh the potential benefits of a more complex traditional deployment...faster implementations and simpler user interfaces are behind the move toward SaaS. Large enterprises are jumping on the bandwagon.**??** – Robert Bois, AMR Research

Source: Gartner, Customer Surveys

3

Mash-Ups: Composite Web Services Apps

Combining heterogeneous web services creates new apps & value



⁽⁴Mash-ups should do what Lotus Notes did for an earlier generation: empower user-driven innovation at the level of individuals, workgroups, and departments. **)**

-Jon Udell, Infoworld

Ok. I got it....but confused with so many buzzwords **Private Cloud Public Cloud** PaaS SaaS laaS **Hybrid Cloud Enterprise Cloud**

Who you provide to?

What do you provide?

How do you provide?

The Consumer Cloud



The Enterprise Cloud

Salesforce.com Rackspace Amazon EC2 SAP Business ByDesign

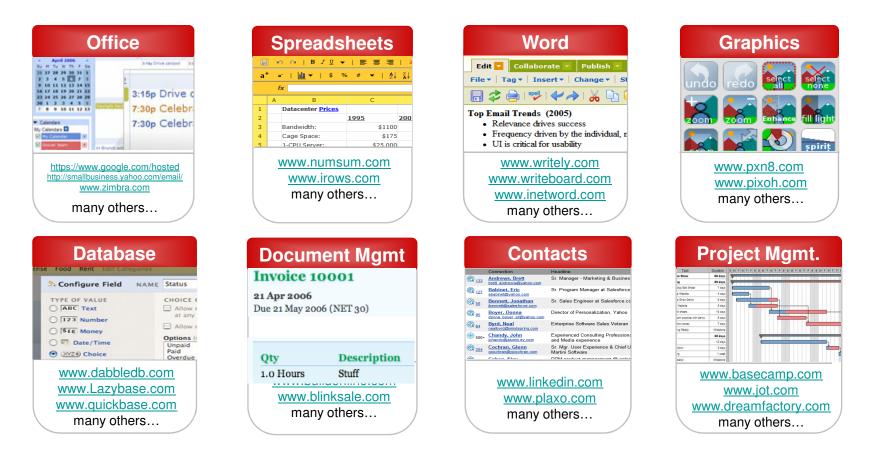
Microsoft Dynamics Microsoft Azure Netmagic A2Zapps.com

What do you provide?

SaaS - Business Applications – CRM, HR, ERP etc.
PaaS - Development Platform
IaaS - Server Infrastructure & Management

Software-as-a-Service

No Applications Market Is Untouched



^{CC}The appeal is obvious: SaaS is quicker, easier and cheaper to deploy than traditional software, which means technology budgets can be focused on providing competitive advantage, rather than maintenance.**?**

-The Economist, April 20, 2006

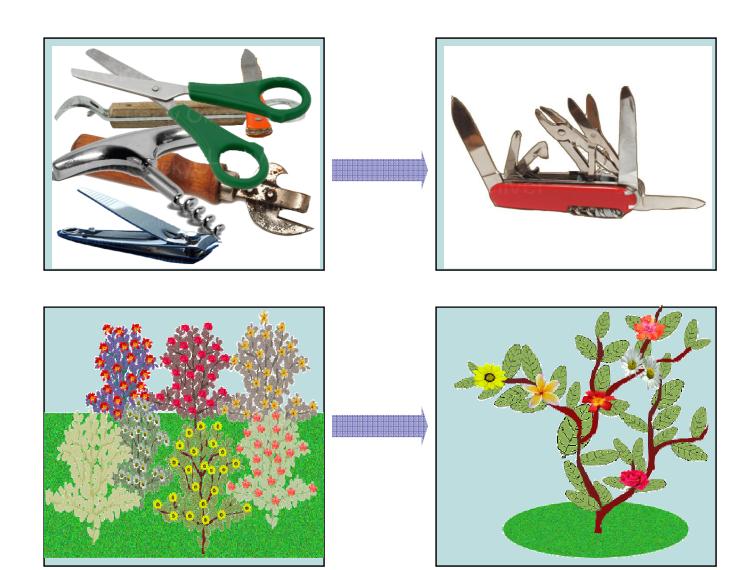
Platform-as-a-Service

Build SaaS Applications

'In' Cloud Vs. 'For' Cloud

Force.com A2Zapps.com MS Azure OrangeScape

SaaS Vs. PaaS



Infrastructure-as-a-Service Cloud Enabler

offering virtualized servers on pay-as-your-use model...

How do you provide?

Public Cloud

Private Cloud

Hybrid Cloud

Private Vs. Public Cloud

Single Tenant Isolated



- Multiple Software Versions
- Higher Maintenance/IT Cost
- Less Vendor Innovation
- Higher Control (Just a perception)

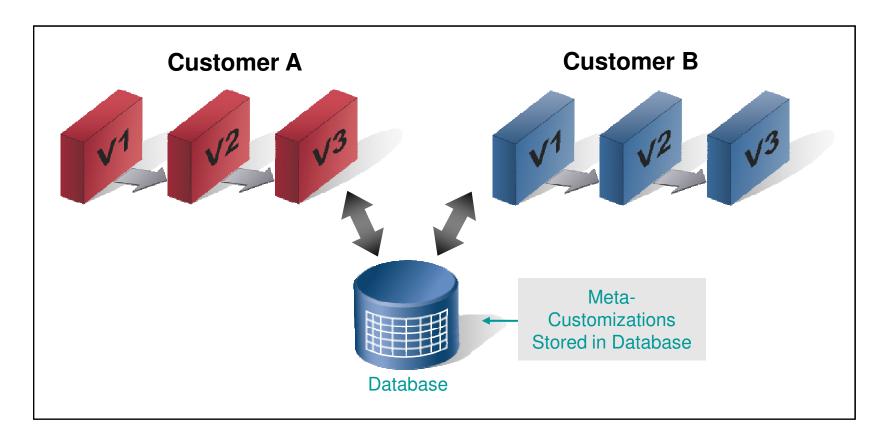
- ➔ Greater Vendor Innovation
- High Performance and Any Time Monitored Infrastructure for Every Customer

Without multi-tenancy, a SaaS offering can't cultivate a Web. 2.0-like community of developers who add functionality that all can share. **?**

—Eric Knorr, InfoWorld

Multi-Tenant Shared

Easy Meta Data Customization



Upgrade Meta-Customizations With Zero Customer Effort

1 to 10,000+ Users on the Same Instance



→ World-class performance & scalability for <u>any-size</u> business

- Same Features
- Same Scalability
- Same Global Solution

- Same Performance
- Same Reliability

Companies of all sizes are now using hosted applications as revenue generation becomes a top priority. This, coupled with shorter implementation times, makes the hosted model very attractive.**?**

Better Integrate-ability & Extensibility

- Multiple ways for Integrating External Applications with SaaS Platform
 - Web Services/XML/REST API
 - HTTP URL
- Mass Data Import or Export Interface
- Support for AJAX <u>Advanced Java Script And XML</u>

Development-as-a-Service

Be Your Own Developer. Choose Right Platform. Develop and Deliver in Few Days.

- Don't Invest in Hardware or Software Tools
- Subscribe to SaaS Platform & Develop Unlimited Business Apps for Any Industry
- Use Extensibility Features of SaaS Platform, Mashups To Create New Services
- Focus more on Customer's business needs than programming languages
- Deploy Solutions For Your Customers In Few Days/Weeks

New Technologies Shaping the Future of Software

RESTAPI HTML5 AJAX Web 2.0 Virtualization

JSON

JQuery

Opportunities

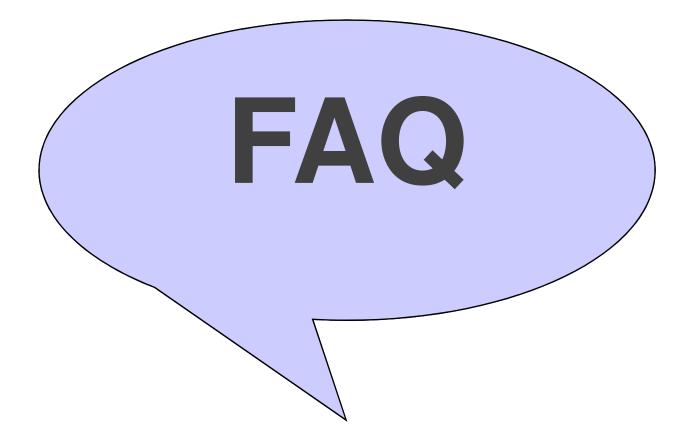
Education Healthcare

Online Retail e-Agriculture

e-Panchayat

And many more...

On Demand *is* the Future of Software...



FAQ

- How do these SaaS platform (PaaS) help independent developers, innovators?
- What will the role of a software consulting company be in the future?
- I want to develop a solution on a SaaS platform.
 What is the next step?



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