

Cloud Service Market Trend in Japan

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Self Introduction

NTT Communications
 Marketing of Cloud Services

• Visiting fellow of The Center for Global Communications (GLOCOM), International University of Japan

• Blogger ITmedia Alternative blog [Business 2.0] http://blogs.itmedia.co.jp/business20/

• Books

the author of **Cloud Business** Nyumon (an introduction to cloud business)

the author of **Open Cloud** Nyumon (an introduction to Open Cloud)

• Twitter @masayukihayashi @cloud_1topi

Cloud Activities

- Cloud Utilization Promotion Agency, Adviser
- Open Cloud Demonstration Experiment Taskforce, Member
- Japan CloudStack Users Group, Adviser
- Open Compute Project Japan, Member
- Cloud Business Alliance
- SUCRE (SUpporting Cloud Research Exploitation), JP Member
- Nippon Cloud Working Group, Samurai Cloud Supporter
- Made in Japan Software Consortium
- ASPIC Open Data Group



Cloud Business

Market Forecast of Cloud Business

Japanese cloud market will reach 1 trillion yen in 2015, to 2 trillion yen in 2017
Companies about 70% of Company give priority to cloud, "cloud first" is expanding.



出所: MM総研 国内クラウドサービス需要動向 2013.8.30



Cloud Shift of IT Vendor

Almost all IT Vendor shift to Cloud Service Provider

* -	Telecom/DataCenter	NTT Com ► KDDI、Softbank	
4	-	IDC Frontier etc	
	* PaaS/SaaS offering based on IaaS	Microsoft (Windows Azure)	
*	Software Vender	Red hat (Open Hybrid Cloud)	
	 From Licensing to Service Offering 	VMware (vCloud Hybrid Service) IBM (Open Cloud)	
*	Hardware Vender	HP (HP Converged Cloud)	
	 From Hardware to Service Offering 	Dell (Dell Cloud Dedicated)	
*	* System Integrator		
	 Multi Cloud Consulting, Cloud Broker, Cloud Integrator 		
*	* IT Department		
	* Cloud Provider with in Enterprise		

Cloud Ecosystem





Domain Cloud EcoSystem



Cloud Ecosystem (IaaS)

Original Cloud Ecosystem

AWS(Amazon Web Services)

- Market Leader
- AWS Uses Group (around 30 in Japan)
- Partner (more than 100)
 - NRI、Hitachi、CTC、NTT Data, NEC etc

Microsoft (Azure)

- Windows Server & Office User
- Big Partner Ecosystem
- Partner Support [Cloud Competency] Program will start next year

Open Cloud Ecosystem

CloudStack、OpenStack

(Open Source Cloud platform

NTT Com 、 IDC Frontier、 KDDI、 SCSK、 Intec、 Uniadex etc

- Anti vender lock in
- Open API (+ Amazon API compatibility)
- Open Ecosystem

Original Ecosystem in Japan

Data Hotel, NIFTY Cloud、GMO Cloud、 Biglobe etc

Trend of Cloud Standardization



Cloud (Vertical Integration)

	SaaS/Bigdata Application Market (Uforge等) Cloud Management (RigtSclae、Scalr)		
			Integrated Platform
API –	Operational automation (Chef etc)	Cloud API Library (Deltacloud etc)	(Software Defined Data Center etc)
API -	Open PaaS (Cloud Foundry、OpenShift)		Multi Language, Multi Development Framework
(AWSE	5-物)		
API -	Open IaaS (OpenStack、CloudStack)		Commodity (IaaS) →Competition Layer will be Platform or SDN
	Multi Hyperviser (Xen Server、VMware etc)		
	Physical Server(Server, Stora	ae)	
Northbound			
API 1	SDN (Software Defined Networking)		
	Open Compute Project		Scale Merit

CloudStack Vender in Japan

Vender	Service	Summary
NTT Com	Cloud ⁿ	Support RDB, DNS, Autoscale, CDN, Global
IDC Frontier	IDCF Cloud Service IDCF Private Cloud Service	Public Cloud and Private Cloud
KDDI	KDDI Cloud Platform Service	Dedicated 「Premium」、VMの「Value」、Customaized 「Custom」
SCSK	NetXCloud/ Cloud System Enabler	Public Cloud and Private Cloud Solution
Uniadex	U-Cloud Cloud development	Multi Vender, Private Cloud Solution
Nissho electoronic	Nissho-Block	Private Cloud Platform [Nissho-Blocks IaaS]
Hitachi	Hitachi Cloud platform Solution	CloudStack and haddoop. Total Solution

OpenStack Vender in Japan			
事業者名	サービス名称	概要	
GMO Internet	Onamae.com VPS	OpenStack and optional service	

Open PaaS

	API	Authentication, Billing	1
Developme nt tool/	SDK	Development kit for Mobile software	
	Development Framework	Rails、Sinatra、Spring、Node.js、Eclips etc CLOU FOUND	A second second
	Programing Language	Ruby、Java、Python、PHP、Apex]
	Application Server	Apache Tomcat、Jboss	1
Core PaaS	Data base service	MySQL、PostgreSQL、MongoDB、Redis、Amazon RDS、 OracleDB、Microsoft SQL、Database.com	
	Messaging	RabbitMQ、Amazon SQS、Red Hat MRG	1
	Other Service Support	API	1
	Other PaaS Function	Application Integration、Business Process Management、 Data Integration、Portal、Security	
			-

IaaS (Amazon EC2、CloudStack、OpenStack、Eucalyptus、VMware vSphere etc)



Use Case

Case Study A Company (1/2)



Case Study A Company (2/2)

Approximately 30% ICT cost reduction achieved through consolidation of local systems

Server	Network	Business App
 Migrate almost 1,700 physical servers to Cloud 30% remained on-premise(CAD, control system) 25% disposal of servers in process of migration 	 Concentrated on one global carrier We offered 5-6 alternative options for each branch office, such as support system, number of staff, etc. 	 Integrated ERP package on a company-wide basis. Outsourcing common operation Standardize document rules



Big Data Business

Big Data Business Market

• Domestic big data technology / services market in 2012, 20.6 billion. Expected to reach 1,015 billion in 2017



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Domestic big data technology / service market End-User Revenue forecast 、2011~2017

出所: IDC Japan 国内ビッグデータテクノロジー/サービス市場予測を発表2013.8.26

Big Data for public and Open Data



Data Scientist

Rising alongside the relatively new technology of big data is the new job title data scientist. While not tied exclusively to big data projects, the data scientist role does complement them because of the increased breadth and depth of data being examined, as compared to traditional roles.



The number of graduates with the skills of data analysis in the world

• University number of graduates with a talent related to data analysis, Japan 3,400



Number of graduates with deep analytical training in 2008¹

(出所) McKinsey Global Institute^r Big data: The next frontier for innovation, competition, and productivity」 2011.5

Data Scientist in Japan

Vender	Data Scientist	Summary
Accenture	100 (300)	Provides a wide range of analysis from strategic planning, to the operation. Expand the service to the axis six areas of SCM optimization and social media analysis, training, diagnosis, and M2M
Unisys	50	Scenarios classification of one 4 CRM/O2O, social and industrial infrastructure, compliance and risk management, information systems infrastructure construction, to collect data, the implementation application tool and application of each scenario and hypothesis testing, and construction of big data analysis infrastructure
Hitachi	80(300)	Order to create value through their big data, supported by point of view close to the management more
Fujitsu	100(The double by 2015)	100 engineers human strength as a group of experts to analyze big data. System building several hundred people, including SE can provide the relevant services of big data
NEC	100(300 by 2015)	Promotion of participation in the demonstration experiment with customers and strengthen development of advanced technology, including M2M and Hadoop, and marketing and promotion in the company-wide

http://www.nikkei.com/article/DGXNZO57421630X10C13A7EA1000

Data Scientist in Japan

User	Team	Summary
JAL	Business Analyst	In order to increase the number of PV op-ed page of the trip ticket selling site, View trend analysis of the member site.
Oosaka GAS	Business Analalys Center(10)	The expert group mathematical programming, statistical analysis, environment, climate, energy, and IT. The reform and improvement of repair completion rate of household gas appliances, the decision-making process in the data analysis
P&G	Business Analyst	Decision-making, such as consumer behavior, to explore the site in potential customers with, business analysts provide options and data required for decision-making
Као	Data Scientist(6)	Expand to promotional products and measures the results of the data analysis. Brand value improvement to analyze the repeat rate. It also analyzes the flow rate to other companies, to implement the brakes are coming out from the counter products
Toshiba	Business Analyst	Line design, transport, analysis by digital simulation of three production, efficiency of semiconductor production

