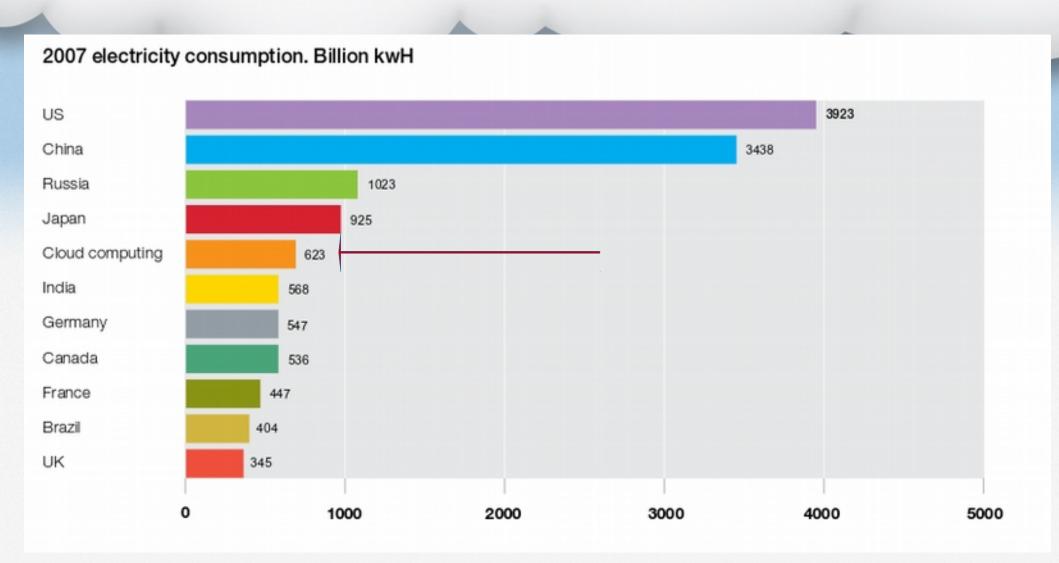


Komputasi Hijau? Apa itu?

• Komputasi hijau adalah kajian dan praktik penggunaan sumber daya komputer secara efisien. Sasaran primer program-program tersebut adalah pencakupan TBL (triple bottom line: manusia, planet, laba), suatu pengembangan spektrum nilai dan kriteria untuk pengukuran kesuksesan organisasi. Sasarannya antara lain adalah untuk mengurangi penggunaan bahan-bahan berbahaya, memaksimalkan efisiensi energi selama umur produk, dan meningkatkan daur ulang serta biodegradasi bagi produk gagal dan limbah pabrik.

wikipedia.org

Penggunaan Listrik untuk Komputasi Awan



Index Energi Bersih (Greenpeace.org 2012)

Company	Clean Energy Index	Coal	Nuclear	Persentase semakin besar Semakin banyak energi bersih Ramah lingkungan digunakan					
(Akamai	NA	NA							
amazon.com	13.5%	33.9%	29.9%						
Ć	15.3%	55.1%	27.8%	Microsoft	13.9%	39.3%	26%		
D&LL	56.3%	20.1%	6.4%	ORACLE:	7.1%	48.7%	17.2%		
facebook.	36.4%	39.4%	13.2%	(a) rackspace.	23.6%	31.6%	22.3%		
Google	39.4%	28.7%	15.3%	Sales force	4%	33.9%	31%		
(A)P	19.4%	49.7%	14.1%	twitter	21.3%	35.6%	12.8%		
IBM	12.1%	49.5%	11.5%	Y AH00!	56.4%	20.3%	14.6%		

energi bersih yang

.....waktu berjalan dan......



	1 11111111 1	11111111 / 111			1 1111111111111111111111111111111111111			
H	Clean Energy Index	Natural Gas	Coal	Nuclear	Energy Transparency	Renewable Energy Commitment & Siting Policy	Energy Efficiency & Mitigation	Renewable Energy Deployment & Advocacy
(Akamai	24%				А	С	А	С
amazon.com	23%	21%	27%	26%	F	С	D	D
· ·	100%	0%	0	0	А	Α	Α	А
ebay	10%	51%	29%	9%	В	D	В	С
f	49%	10%	25%	14%	А	A	A	В
Google	46%	15%	21%	13%	В	В	В	A
(IP)	22%	26%	41%	11%	С	D	В	С
IBM	24%	27%	30%	17%	В	В	В	С
Microsoft	39%	19%	30%	10%	С	С	С	С
ORACLE	17%	18%	50%	11%	D	F	D	D
@ rackspace	25%	21%	33%	21%	С	В	В	С
salesforce	23%	20%	25%	26%	A	В	С	С
YAHOO!	73%	6%	11%	8%	С	В	А	В

Tahun 2015

Riset Greenpeace.or g

Konsep 5 R Green Life Style





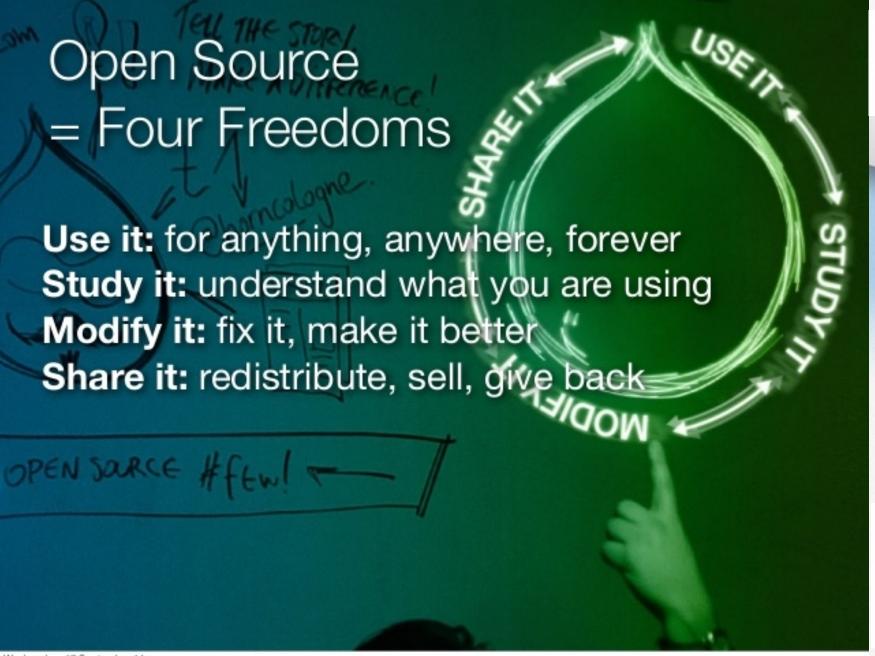








Mirip tetapi tidak sama benar ya????







Wednesday, 17 September 14

Bagaimana Open Source Bisa Berperan?

Faktor Model Pengembangan

- Model pengembangan kode sumber terbuka sangat mengandalkan prinsip berbagi sumber daya termasuk perangkat keras dan perangkat lunak
- Rencana proyek, kode sumber, pemindaian kesalahan (bug trackers) dan dokumentasi umumnya tersimpan dalam format digital secara online di "awan".
- Kontributor biasanya bekerja dari mana saja dan tidak menambah emisi karbon karena tidak perlu melakukan perjalanan khusus



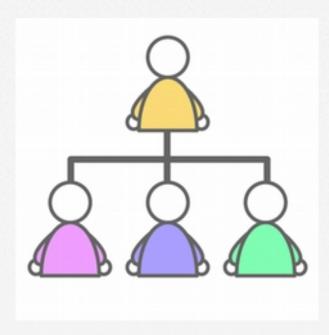
Konsumsi Energi Yang Lebih Rendah

- Pertimbangkan biaya energi satu perusahaan software, listrik/energi yang diperlukan komputer, lampu, a/c dan perawatan fasilitas pendukung lainnya.
- Perkiraan konservatif biaya ini berkisar 10 s/d 20% dari total biaya operasional perusahaan.



Biaya Tetap ("overheads") Yang Lebih Rendah

- Biaya ini meliputi antara lain gaji manajemen dan staf pemasaran, penjualan, administrasi, bagian legal dan lain lain
- "Overheads" adalah faktor yang menghantui untung rugi dan produktifitas setiap usaha



Virtualisasi

- Virtualisasi membantu penggunaan sumber daya yang lebih optimal dengan membuka peluang manajemen skalabilitas yang lebih mudah
- Teknologi berbasis open source banyak berperan di bidang ini, termasuk dalam implementasi komputasi awan



Distribusi Secara Online

- Peranti lunak open source umumnya didistribusikan secara online
- Ini berarti energi dihemat karena tidak perlu duplikasi media CD, membuat kemasan promosi dan proses pendistribusian yang lain
- Pada umumnya software open source memiliki dokumentasi dalam bentuk elektronik (secara online) juga, sehingga bisa mengurangi penggunaan kertas dan material lainnya..

Infrastructure Services

Storage

Amazon S3 Amazon EBS

CTERA Portal Mosso Cloud Files

Nirvanix

Compute

Amazon EC2 Serve Path GoGrid

Elastra

Mosso Cloud Servers Joyent Accelerators

AppNexus Flexiscale

Elastichosts

Hosting.com CloudNine

Terramark GridLayer

ITRICITY

LayeredTech

Services Management

RightScale enStratus

Scalr

CohesiveFT

Kaavo CloudStatus

Ylastic Dynect

CloudFoundry

NewRelic

Cloud42

Cloud Software

Data

10Gen MongoDB Oracle Coherence -Gemstone Gemfire

Apache CouchDb Apache HBase

> Hypertable TerraCotta

Tokyo Cabinet Cassandra

memcached

Appliances PingIdentity Symplified

> rPath -Vordel .

Financials

Concur -

Workday _

Beam4d _

Xero -

Compute

Globus Toolkit -Xeround Beowulf

Sun Grid Engine -Hadoop

> Gigaspaces DataSynapse

OpenCloud

Xeround

File Storage

EMC Atmos -ParaScale Zmamda

Legal

Fios

Sertifi

DirectLaw -

Advologix

CTERA

Cloud Management

3Tera App Logic OpenNebula

Open.ControlTier **Enomaly Enomalism**

Altor Networks

VMware vSphere OnPathTech

CohesiveFT VPN Cubed

Hyperic Eucalyptus

Reductive Lbs Puppet

OpenQRM

Appistry -

Desktop

Zoho

Productivity

IBM Lotus Live

Google Apps

Desktoptwo

Parallels

CLOUD

TAXONOMY

Software Services

Sales

Xactly

LucidEra

Success

Metrics

StreetSmarts

Platform Services

General Purpose

Force.com Etelos

LongJump

AppJet Rollbase

Bungee Labs Connect Google App Engine

Engine Yard

Caspio Qrimp

MS Azure Services Platform Mosso Cloud Sites

Business Intelligence

 Aster DB Quantivo

Cloud9 Analytics

Blink Logic **K2** Analytics

LogiXML Oco.

Panorama PivotLink

Sterna

ColdLight Neuron Infobright

Vertica

Integration

 Amazon SQS MuleSource Mule

OnDemand Boomi

SnapLogic

OpSource Connect

Cast Iron Microsoft BizTalk

Services gnip

SnapLogic SaaS Solution Packs Appian Anywhere

 HubSpan Informatica On-Demand

Development & Testing

Keynote Systems

Mercury

SOASTA SkyTap

Aptana

LoadStorm Collabnet Dynamsoft

Database

 Google BigTable Amazon SimpleDB FathomDB ─ Microsoft SDS

Zuora Content Human

Billing

eVapt

Redi2

OpSource

Aria Systems

Resources Management Taleo -Clickability -

Workday -ICIMS _

SpringCM -

CrownPoint -Social

Zembly.

Amitive -

Networks Collaboration Ning -

Box.net -DropBox - Backup & Recovery

JungleDisk -Mozy -Zmanda Cloud -Backup

OpenRSM -Syncplicity -

CRM NetSuite -

Parature -Responsys

Rightnow Salesforce.com

LiveOps -

MSDynamics -Oracle On Demand

Document Management

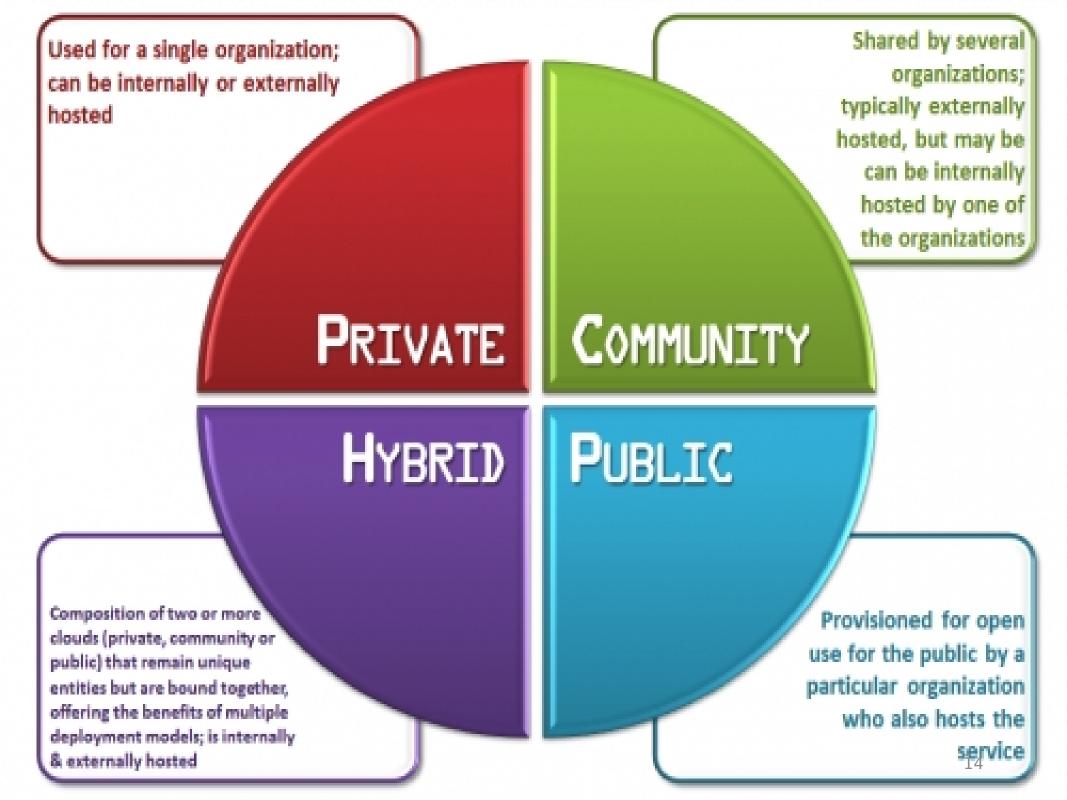
ClusterSeven

NetDocuments -Questys

DocLanding Aconex Xythos · Knowledge

TreeLive SpringCM -

OpenCrowd



Customer Scenarios









100% On Premises

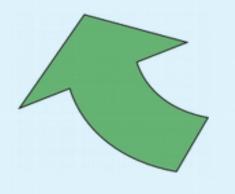
Hybrid

100% Cloud



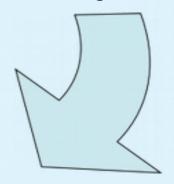
A Knowledge Management Driven Solution



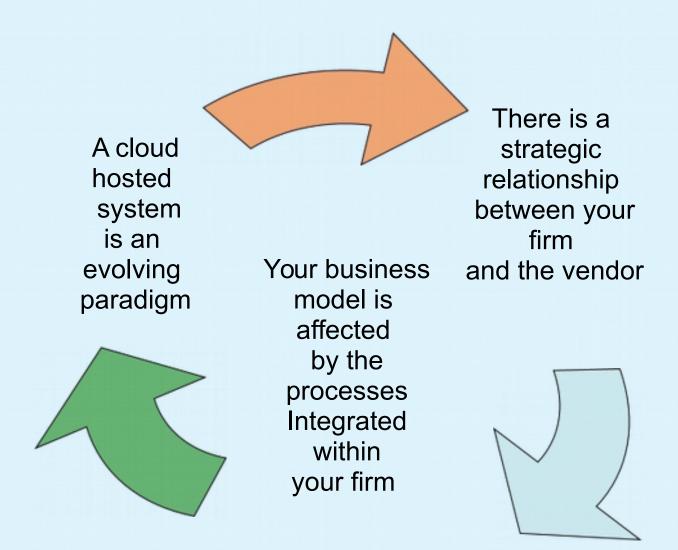


Train
the Trainers to
Build Your
Strategic
Knowledge
Base

Building
The
Culture of
Change with
Tools Leading
to Behavioral
Change

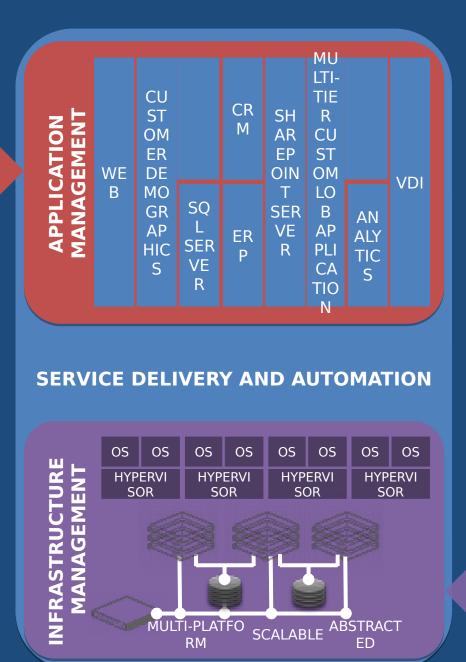


The Evolving Paradigm



Private Cloud Defined

NEW: SQL Enterprise = Cores



Windows Server & System Center = Processors

Evolution of Loeb's "Private Cloud"

Risk

- Business Continuity / Disaster Recovery Objectives
- Geographic Vulnerabilities
- Scalability Challenges
 - Increasing: Headcount, Offices, Application Platforms
 - Sites/Local Datacenters
- Virtualization
 - Early adoption of the Technology
 - Maturity and Confidence in the Technology



Evolution of Loeb's "Private Cloud"

Loeb's Concerns with moving to Cloud Infrastructure

- Migration of Legacy/Traditional Platforms and Services
- Latency (Distance/Performance)
- Costs
- Connectivity

Evolution of Loeb's "Private Cloud"

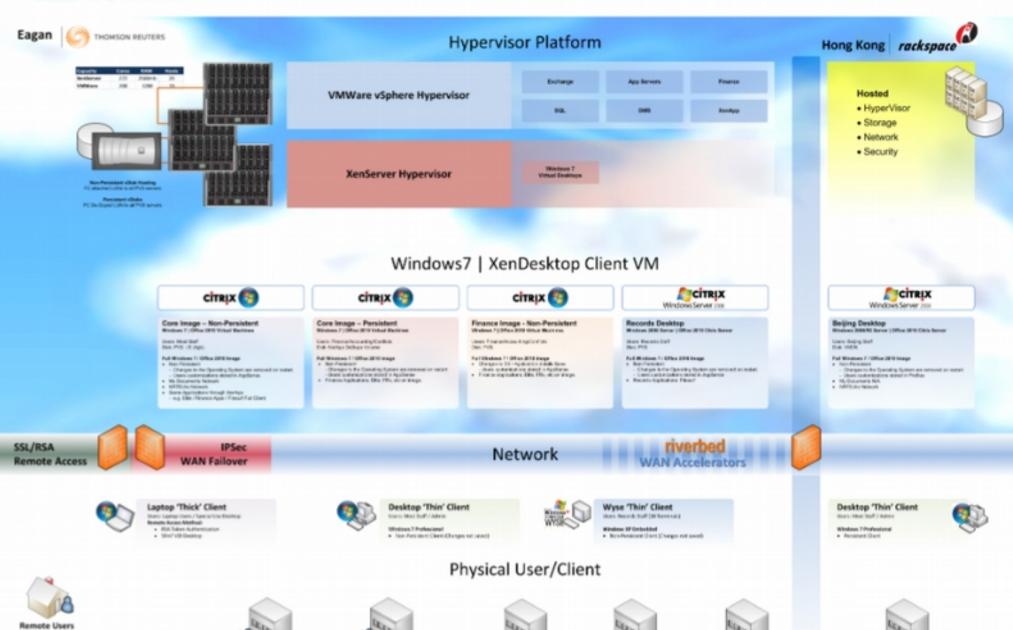
Building Blocks of Loeb's Private Cloud

- Virtualization (HyperVisor)
- Storage
- Connectivity
- Security





Loeb Internal 'Cloud' | Windows7 | Xen



Chicago

Nashville

Washington DC

New York

Clouds: Stratus, Cumulus or Visio Stencil?

Cloud Infrastructure

- Private Clouds (Internal)
 - Provider Datacenter (Rackspace, Sungard, Thomson)
 - Off Premise Equipment
- Public Clouds | Software as a Service (SaaS)
 - Google Apps, Salesforce, Office365
- Hybrid Clouds | Infrastructure/Platform as a Service (laaS/PaaS)
 - Virtualized Infrastructure
 - Amazon AWS, Rackspace, OpenStack
 - Platform Development
 - Amazon EC2, Salesforce, Microsoft Azure

Private, Public & Hybrid Challenges

- Hybrid Model
 - Private for the Infrastructure Interim Step
 - Public for KM and Future Hosted Solutions



Security, Risk, Privacy & The Innovation Tight Rope

- Homeland Security Memo
 - Law firms breached for "sensitive information"

- Hosted evolving developing resources
 - A secure, competitive platform



Security, Risk, Privacy

Risk

- Connectivity
 - Redundancy
 - Carrier, Route and Transport Diversity
- Cloud Outages
- Oark Clouds?

Privacy

- Data Exposure / Loss
- Control and Ownership

Security, Risk, Privacy

Security

- Surface Area
- Security Policies
- Multi-Factor Authentication
- Securing the Desktop/Client

Access Anywhere

We live in a Connected World

- Internet Usage in the US:
 - 1990: 0.8% of Population
 - o 2009: 78.1%
- From Luxury to Necessity

Accessing the Cloud

- Browsers, Thin/Cloud Clients, iPads, Smartphones
- Citrix (WinFrame to XenApp)
 - It's not enough
 - Common Issues

Access Anywhere

The Era of VDI

- Universal Virtual Desktop
- Consistent Experience Everywhere
- User Customizations
- Profile Management

Access Anywhere

Smaller Firms

- GotoMyPC
 - Agent on Users Desktop PC
 - Accessible Anywhere

Larger Firms

- XenDesktop
 - Enterprise Ready
 - Scalable Provisioning
 - AppSense Environment Manager
 - Leveraging XenApp Hosted Applications

Access it Anywhere

- Single Sign on Solutions
 - Consumer solutions driving enterprise level adaptation
- What does this mean for the industry and how can legal and our clients benefit?



Third Party Integration

- Challenges in competitive Intelligence Solutions
 - Merging solutions through Google Docs & Sites
- Availability through Apps Marketplace
- How will Large Players and Emerging Vendors Merge?

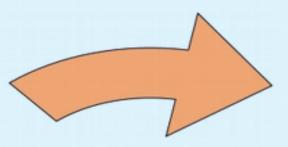


Integration with the Cloud

Third Party Applications and Services

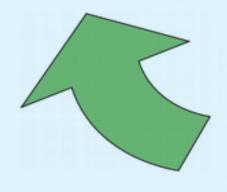
- Authentication
 - Single Sign-on
- Application Integration
 - Microsoft Office
 - DMS / Document Authoring
 - Voicemail / Faxing
 - Larger Firms = Third-Party Integration Footprint
 - Google Apps, Office365 no longer feasible
 - Size can dictate the Cloud Computing solution
 - No one-stop solution

Social Media Aspects

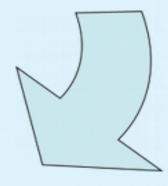


They meet with Search & Ad Revenue

Google Microsoft Facebook



How is their competition driving change within the industry?



Social Media Integration

- Internal 'Client' Focused Social Media Environment
 - Integrate through Areas of Practice, Case Mgmt, Info Mgmt
- Blogger/Youtube now available for Enterprise Deployment
 - The decentralized model
- Streamlined processes in Knowledge Sharing/Communication
 - Rethinking how we drive business



The next step for Loeb

- A different approach in our China Cloud environment
- Integrating Cloud 'Services' Work Anywhere Initiative
- XenDesktop, XenApp, Edgesight, AppSense
- Diverse Platform Support
 - o iPads, Macs, Smartphones, Chrome Laptops

Static Steps Stagnate

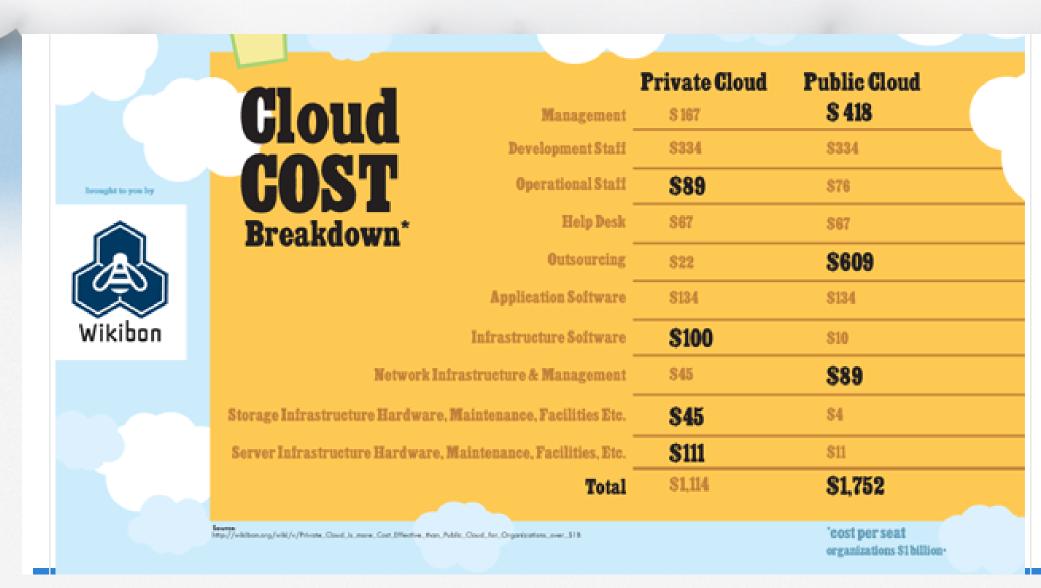
- Continually Plan and Re-adapt
 - Project Management and Document Automation
 - Alternative Staffing, Outsourcing, and AFA's
 - The shifting landscape in Video and Communications
 - Evolving platforms Info Mgmt, Tech Ops, Apps, Org Mgmt
 - John Alber's Law 2020

Lanjutan...

Keuntungan: Menghemat bandwidth internet ketika layanan itu hanya diakses dari jaringan internal. Proses bisnis tidak tergantung dengan koneksi internet, akan tetapi tetap saja tergantung dengan koneksi jaringan lokal (intranet).

Kerugian: Investasi besar, karena kita sendiri yang harus menyiapkan infrastrukturnya. Butuh tenaga kerja untuk merawat dan menjamin layanan berjalan dengan baik.

Private Cloud vs. Public Cloud

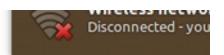


http://wikibon.org/blog/private-cloud-computing/

Future Moves



LEGALTECH® WEST COAST | MAY 17-18, 2011



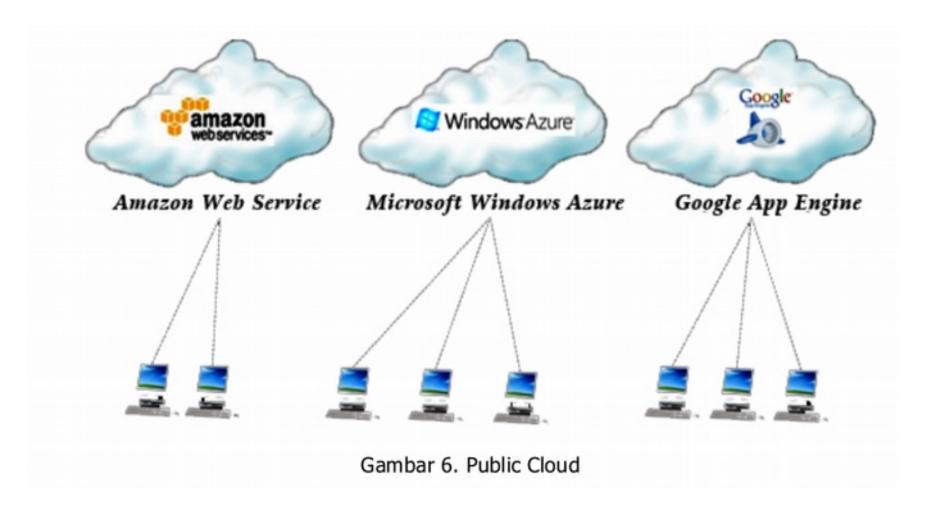
Public Cloud



Public Cloud

 Cloud Public atau cloud eksternal mendeskripsikan komputasi cloud pada arti tendensi tradisional, yang mana sumber daya dengan ketentuan dinamis pada suatu fine-grained (perbaikan), basis pelayanan sendiri lewat Internet, melalui aplikasi web / jasa web, dari satu lokasi penyedia off-site oleh pihak ketiga yang berbagi sumber daya dan daftar kegunaan pada suatu fine-grained utility computing.

Public Cloud





Apa arti Cloud Computing bagi Service Provider?

_□□ (

- Cepat menyediakan layanan
- Mengurangi skala server
- Meningkatkan tingkat utilisasi resources
- Memperbaiki efisiensi pengelolaan
- Biaya pemeliharaan lebih rendah
- Lokasi infrastruktur di area biaya gedung dan listrik yang rendah
- Memberikan 'business continuity service'
- Meningkatkan efisiensi manajemen operasional
- Meningkatkan 'service level'
- Arsitektur yang kompleks
- Mengubah model binis dan tingkat kepercayaan

The Enterprise Agreement Supports Your

Cloud

Deployment Choice

Deploy software On-Premises, Private and Public cloud

Flexibility to Add or Adjust Products and Services

Match workloads of different types of users when needed

Cloud Ready When You Are - Transition When it Make Sense

License software and cloud services all in one agreement

Value

Most cost effective way to purchase and manage licenses

Move Between On-Premises and Cloud

Responsive to changes in business requirements or expectations

Streamlined Agreement Structure

Reduces effort to add to or modify your EA and Enrollments

DO YOU USE THE CLOUD?

