

Google App Engine demo

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- Few words on cloud computing
- Google App Engine & Java
- Demo
- Problems I met
- Questions



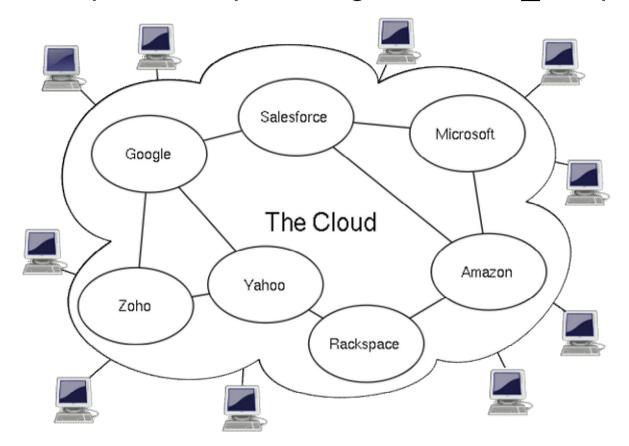


(source: http://en.wikipedia.org/wiki/Cloud_computing)

- Cloud computing is a style of computing in which dynamically <u>scalable</u> and often <u>virtualized</u> resources are provided <u>as a</u> <u>service</u> over the <u>Internet</u>
- Users need not have knowledge, control over technology infrastructure



(source: http://en.wikipedia.org/wiki/Cloud_computing)





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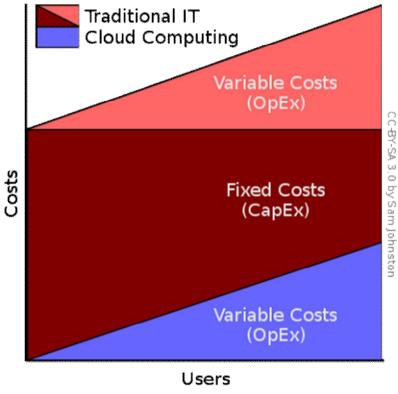
 Cloud computing is a computing paradigm where the boundaries of computing will be determined by economic rationale rather than technical limits

/Ramnath K. Chellappa/





(source: http://en.wikipedia.org/wiki/Cloud_computing)



Cloud Computing Economics





(source: http://en.wikipedia.org/wiki/Cloud_computing)

Criticism

Jonathan Weber

Back to the 50-60s: "dumb" terminals connecting to mainframe computers

Richard Stallman

"simply a trap aimed at forcing more people to buy into locked, proprietary systems that would cost them more and more over time."





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Google App Engine

- Cool:
 - Google's platform
 - Free until a certain quota
- Price:
 - "power of simplicity",
 - limitation of rights
 - content out of control
- First: Python, then Java





Google App Engine & Java



- Since April 2009
- Java still has the "Early look" tag on it
- Release notes
- Roadmap





Java support

- Servlet container: "sandbox VM"
- JDO/JPA annotation support + BigTable
- Eclipse plugin / command prompt
- Administration console





Sandbox VM

- Java Servlet Runtime
 - White list
- Compatibility with Java Frameworks



BigTable

- Like a BIG HASHMAP (key, properties, ...)
- No schema
- Entity groups strange transactionhandling
- Writes are really expensive
- Reads are really cheap





JDO/JPA

- Works only with limitations
 - Using jdo
 - Using ipa
- Owned and unowned relationships



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Some thoughts

- GWT RPC can't serialize entities
- 1000 files limit solution ZipServlet
- java.awt.Image not on White list





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