

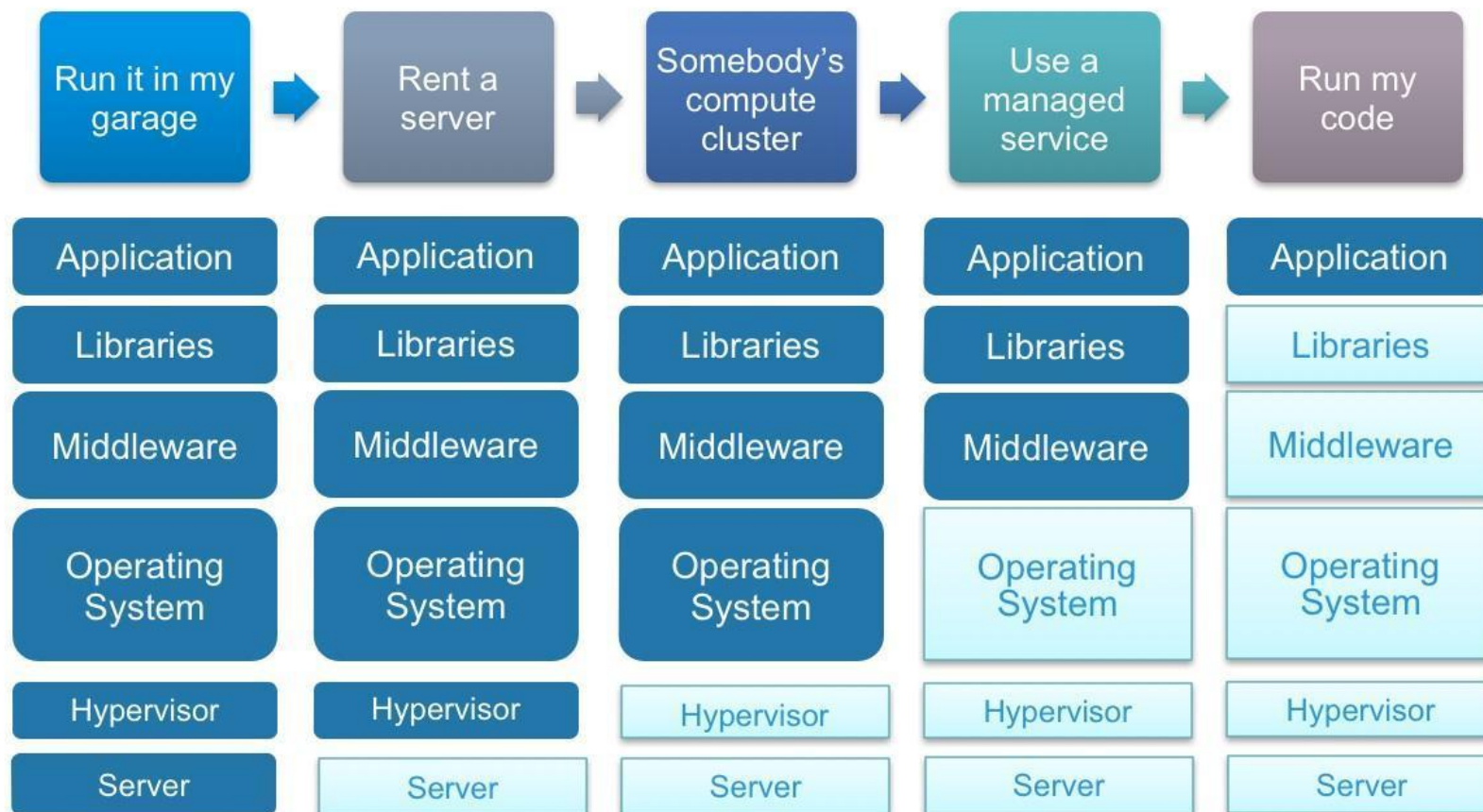


# Google App Engine

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Didier Girard  
COO  
SFEIR

# Life-cycle of a start-up







## Google App Engine - Pricing and Features

Create apps on Google's platform that are easy to manage and scale at a low total cost.

	Free	Paid	Premier
Platform fee	Free	\$9/app/month	\$500/account/month
Dynamic scaling	✓	✓	✓
Java Runtime	✓	✓	✓
Python Runtime	✓	✓	✓
Go Runtime	✓	✓	✓
Usage based pricing		✓	✓
Infinitely scalable		✓	✓
SLA		✓	✓
Operational support			✓

### Tools

Google Plugin for Eclipse	✓	✓	✓
Code upload/download	✓	✓	✓
Graph History	✓	✓	✓
Request Logs	✓	✓	✓
Developer Access Control	✓	✓	✓

### Hosting

	Free quota per app per day	Price
On-demand Frontend Instances	28 free instance hours	\$0.08 / hour
Reserved Frontend Instances		\$0.05 / hour
High Replication Datastore	1G	\$0.24 / G / month
Outgoing Bandwidth	1G	\$0.12 / G
Incoming Bandwidth		Free

### APIs

Datastore API	50k free read/write/small	\$0.10/100k write ops \$0.07/100k read ops \$0.01/100k small ops
Blobstore API	5G	\$0.13 / G / month
Email API	100 recipients	\$0.01 / 100 recipients
XMPP API	10k stanzas	\$0.10 / 100k stanza
Channel API	100 channels opened	\$0.01 / 100 channels opened
Image Manipulation API	✓	✓
Memcache API	✓	✓
Users API	✓	✓
Task Queue	✓	✓
Files API	✓	✓
URL Fetch API	✓	✓
Cron	✓	✓
Prospective Search API (experimental)	✓	✓



# Security

Question: can your company afford to invest more in security than Google already does ?

- SAS70, SSAE-16, and ISAE3402-certified
- Google invests heavily in R&D and in security. Everyday.
- White paper :

<http://www.google.com/about/datacenters/inside/data-security.html>

# 9 months in the life of App Engine



Out of Preview  
MapReduce (Exp)  
99.95% SLA  
Python 2.7 (Exp)  
Premier Accounts

1.6.0 [11/2011]



HRD Migration Tool  
Log Reader API  
(Exp)  
Frontend Instance  
Classes

1.6.1 [12/2011]



Backup/Restore  
(Exp)  
Django + Cloud SQL

1.6.2 [01/2012]



Python 2.7 (GA)  
Traffic Splitting (Exp)  
Expanded Logs  
Storage

1.6.3 [02/2012]



Thread Support  
Memcache viewer  
NDB for Python  
(GA)

1.6.4 [03/2012]



Projection Queries  
Task Queue Stats

1.6.5 [04/2012]



Search API (Exp)

1.6.6 [05/2012]



EU Datacenters  
SSL for Custom  
Domain (GA)  
Cloud Endpoints  
Cloud SQL Open  
PageSpeed

1.7.0 [06/2012]

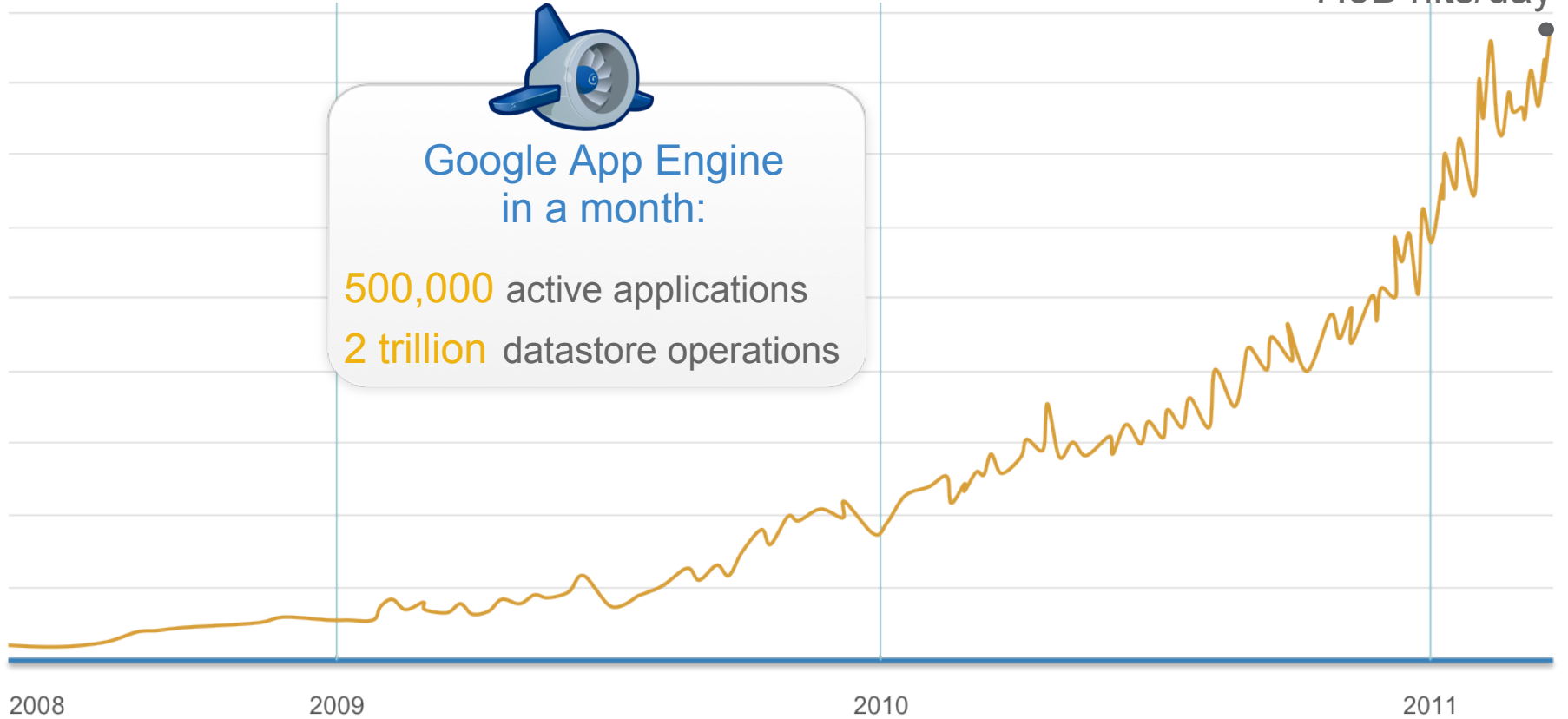


## Google App Engine in a month:

500,000 active applications

2 trillion datastore operations

7.5B hits/day



App Engine  
Launch  
Python  
Datastore  
Memcache  
logs export

Batch write/read  
Https  
Status-  
Dashboard

Java  
DB Import  
cron

Task Queues  
XMPP  
incoming email

Blobstore  
Appstats  
cursors  
Mapper

Multitenancy  
Instance Console  
Always On  
hi-perf imag  
10 min tasks

Hi-Replication  
Datastore  
Channel API  
Files API  
Remote API  
Search API





# Google AppEngine : A **Cloud** Application Server





# CloudSQL



- Fully-managed, highly-available relational DB
- Developer Console
- Synchronous replication over multiple Data Centers
- Google AppEngine integration (JDBC, JPA 2.0, ...)
- MySQL Import/Export, Scheduled backups
- Co-exists with Datastore
- Support in Google Eclipse Plugin
- Requires explicit authorization of AppEngine apps
- Now fully available and supported

# (Full-Text) Search API

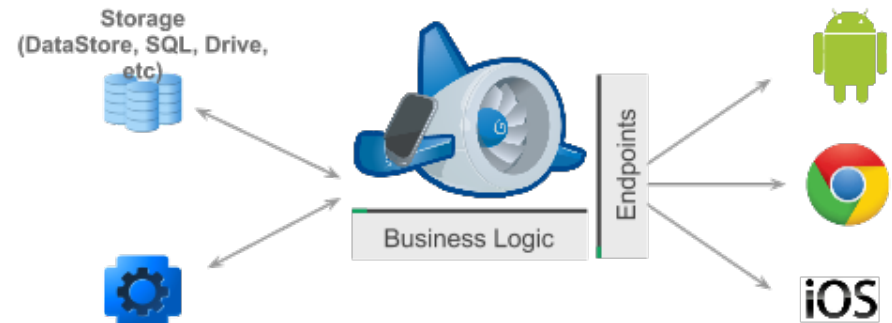
- “Google” queries over non-structured content
  - Find an email
  - Find a document
  - Navigate an activity stream
- Index content as documents
  - Index creation
  - Natural or explicit ordering
- Build and execute queries
- Present results
  - Sorting options
  - Cursors and pagination



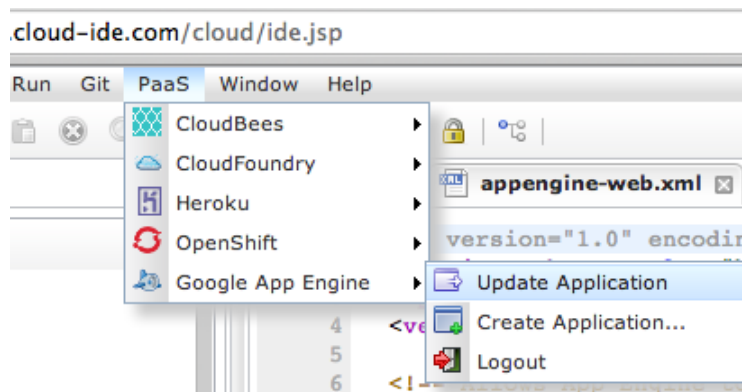
# Recent improvements



AppEngine  
EU Datacenters



Google Cloud Endpoints



# We're only getting started...

- Supported Product (November 2011)
- 99.95% SLA
- Fully-managed with dedicated reliability staff
- Security
- Strong growth !
- Now with an IaaS sister project !
  - Google Compute Engine



Google™



Google  
Forbes®



ROVIO

Buddypoke™



UBISOFT™

# Conférence des Évêques de France

actus ▾

diocèses ▾

ressources ▾

accès direct sites ▾

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Partager : [f](#) [t](#)

🕒

**Horaires**

📍

Carte

🏛️


Annuaire

💬

Actualité

👤

Connexion



🕒

Rechercher messe / célébration

📍

Rechercher sur une carte

🏛️

Rechercher église / lieu de culte

▶ Aide à la recherche

[Afficher les prochaines messes autour de levallois-perret](#)

Contactez-nous

Exemples de recherches:


[levallois-perret](#)  
[94800](#)  
[st malo](#)  
[76 st etienne](#)  
[vincennes](#)

Dernières recherches:

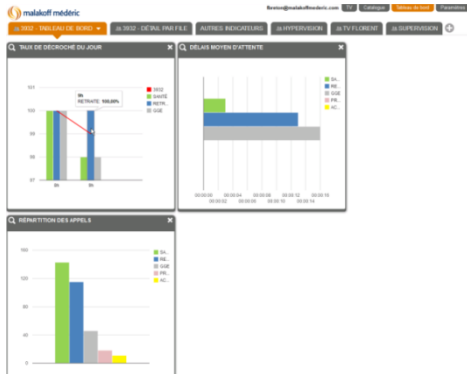
[FONTENAY COMTE](#)  
[lyon](#)  
[PAROISSE THEVE ET NONETTE](#)  
[ESTREES SAINT DENIS](#)  
[FONTENAY COMTE](#)

BLOG BIOÉTHIQUE

Se former, s'informer, dialoguer



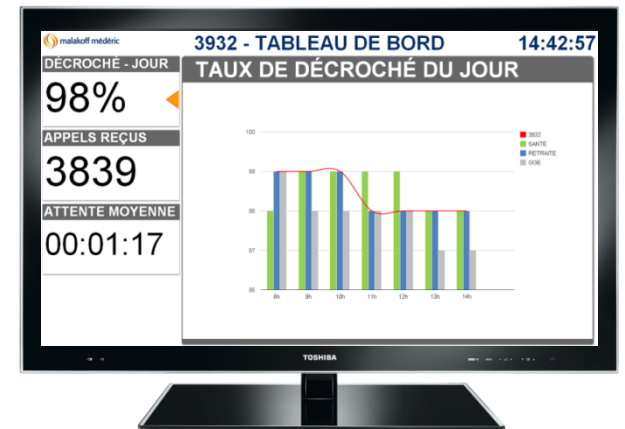
# Malakoff Mederic



WEB



Smartphone



Tv



Java sur le Cloud,  
la fin des standards ?

Doit-on avoir un  
Java Cloud Edition ?

Java EE (~~7~~ 8)  
a-t-il un intérêt ?

Est-ce que Java est le bon langage pour le Cloud ?

Qu'est ce qui vous retient de  
faire du Java dans le Cloud ?