

Google App Engine

Advantages & Disadvantages

Google App Engine



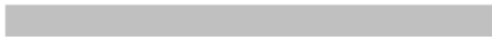
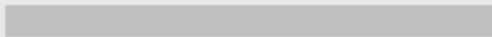
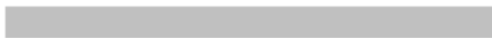
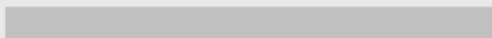

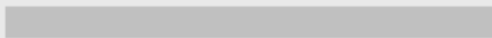

Run your web applications on Google's infrastructure.

Google App Engine enables developers to build web applications on the same scalable systems that power our own applications.

Features


- Scalable
- Easy to deploy - Load 'n go!
- Dev Web Server
- Free, up to an extent
- Python based
- Useful APIs:
 - Datastore
 - Images
 - Mail
 - Memcache
 - URL Fetch
 - Users

Quotas

Application Quotas ?		24-hour moving window
CPU Used		0.00 of 199608.00 Gigacycles (0%)
Data Sent		0.00 of 2048.00 Megabytes (0%)
Data Received		0.00 of 2048.00 Megabytes (0%)
Emails Sent		0.00 of 2000.00 Emails (0%)
Megabytes Stored		0.00 of 500.00 Megabytes (0%)
Data Sent (HTTPS)		0.00 of 2048.00 Megabytes (0%)
Data Received (HTTPS)		0.00 of 2048.00 Megabytes (0%)

Scalable?

- Number of users - scalable
 - 1 to 1000....
- Complexity of your application - **not** scalable
 - Respond in seconds
 - Various datastore limitations
 - No streaming
 - No cron jobs....etc

Current Load ?			
URI	Requests	Avg CPU	% CPU
	last 14 hrs	last hr	last 14 hrs
/ajax/getpic	68	24074 	87%
/ajax/status	67	220	2%
/ajax/newgame	67	1086	10%
/game	58	0	0%
/favicon.ico	46	06	0%

Easy to deploy

- One click deploy
 - Almost always
- One way transfers - development
- Version Control?

Datastore

- Easy to use
- Not a relational database
 - No joins
 - No aggregate functions
 - Counting is surprisingly difficult
 - Expensive process
- Memcache helps

Conclusion

- Excellent for web developers looking to scale their simple (relatively) app in terms of users.
- A **preview release**, looking forward to:
 - Multiple languages
 - Additional Datastore functions:
 - count, rand, join?