

Tiny Web Apps Google App Engine

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What are "tiny web apps"?

The Lean Startup by Eric Ries

"A core component of Lean Startup methodology is the build-measure-learn feedback loop. The first step is figuring out the problem that needs to be solved and then developing a minimum viable product (MVP) to begin the process of learning as quickly as possible. Once the MVP is established, a startup can work on tuning the engine. This will involve measurement and learning and must include actionable metrics that can demonstrate cause and effect question."



In the web world, I call this MVP a "tiny web app"

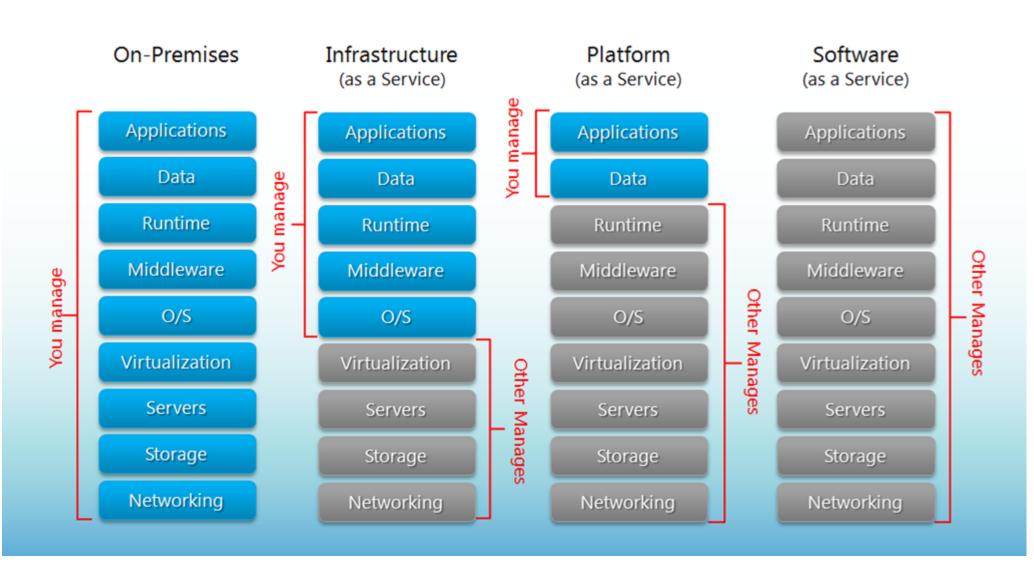
or - just because it's fun



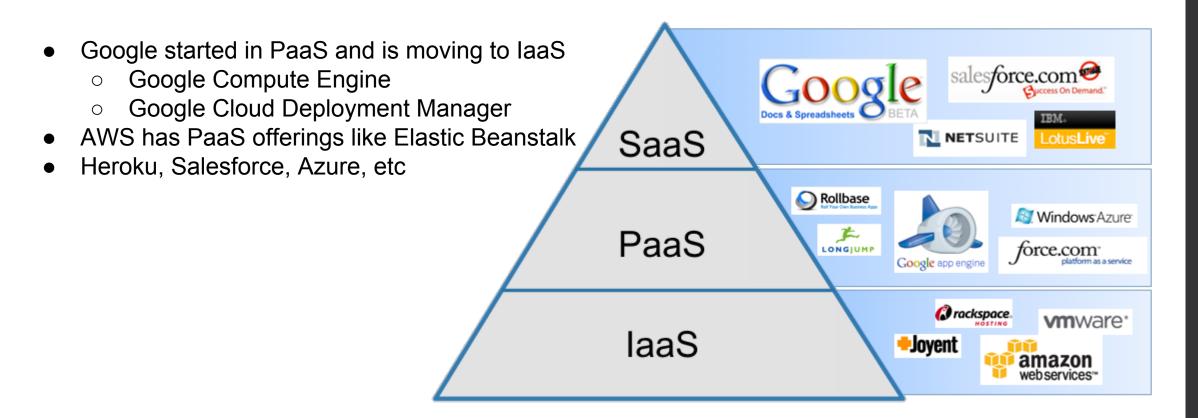
Goals

- Build something quickly
- Minimize development and hosting costs
- Minimize issues that would hinder early adoption
- Be able to scale with demand quickly

Separation of Responsibilities



*aaS?



Google App Engine

Google app engine

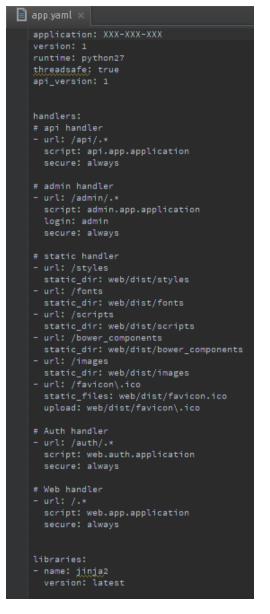
- Fully managed platform
- Web Management Console
- Supports Python, Java, PHP, Go and has language specific SDK's
- SDK to run local development just like production
- Command line utility to upload app to production
- Multiple storage options:
 - Cloud Datastore NoSQL
 - Cloud SQL fully managed MySQL database
 - Cloud Storage object storage

Google App Engine

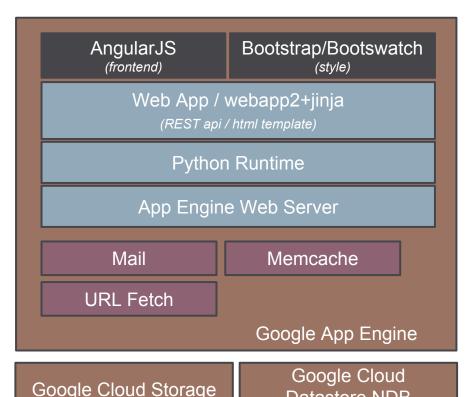


- Built in services:
 - Channel bidirectional channel with client
 - Images manipulate image data
 - Mail send and receive
 - Memcache explicit and automatic
 - Task Queues
 - Users google accounts, google apps, OpenID
 - XMPP
- Scheduled tasks, DoS protection, Auto-indexing

dailysegment.com



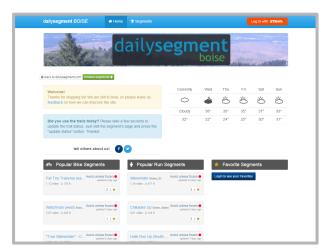




(static images for FB)

Datastore NDB

(schemaless DB)



Google Apps (DNS and SSL Certificate)

Demo

Google app engine

- Simple Python Web App
 - Angular js/css served statically out of app
 - Bootstrap "self" with template & grunt-replacestring
- Leverages GAE User, Email, Memcache, NDB services

https://github.com/mattmessinger/boise-angularjs-gae-demo