

# Google Appengine

.....  
Hosting for alle

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BEKK

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@aslakjo

I gamle dager!

# Google Appengine

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- ▶ Hosting
- ▶ Cloud / skyen
- ▶ Gratis



Ide!

Hacking!

Også ... ?

# Hosting

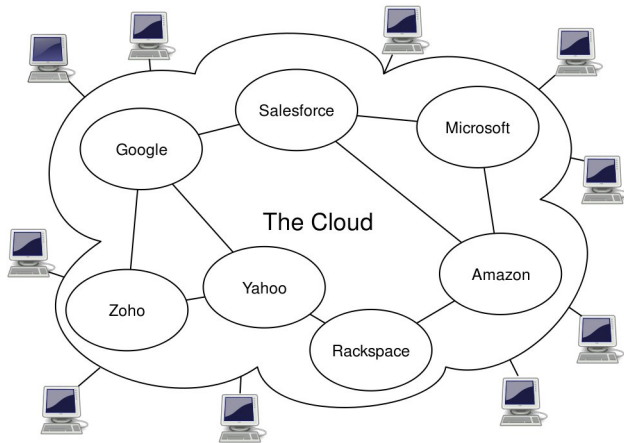
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- ▶ Noen må kjøre webappen din
  - ▶ Hosting
- ▶ Den må være der
  - ▶ Oppetid
- ▶ Billig / gratis
  - ▶ Pris
- ▶ Enkelt
  - ▶ Deployment



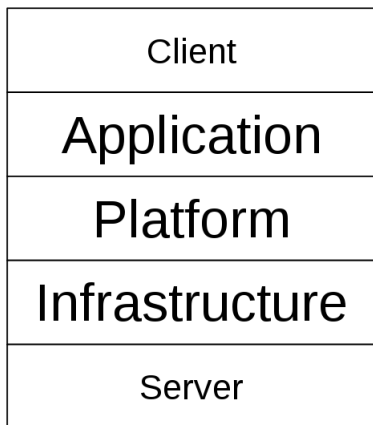
# Cloud / skyen

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<sup>1</sup>Sam Johnston - [http://en.wikipedia.org/wiki/File:Clou\\_computing.svg](http://en.wikipedia.org/wiki/File:Clou_computing.svg)  
Appengine



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<sup>2</sup>[http://en.wikipedia.org/wiki/File:Cloud\\_Computing\\_Stack.svg](http://en.wikipedia.org/wiki/File:Cloud_Computing_Stack.svg)



- ▶ Student
  - ▶ Lite med penger
- ▶ Ny grynder
  - ▶ Lite med penger
- ▶ Lite komersiell / eksprimentell ide
  - ▶ Lite med penger

# Gratis - tror du

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- ▶ Betaler for de du bruker
- ▶ Gratis ved lite bruk
  - ▶ GAE req < 43,200,000, CPU < 6.5 CPU-hours(100%)
- ▶ Så for de aller fleste forhold – Gratis

Hvordan!

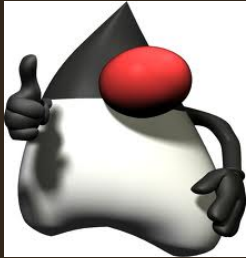
# Appserver

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Appengine er en (nesten) standard appserver.

```
/
/WEB-INF/
/WEB-INF/appengine-web.xml
/WEB-INF/web.xml
/WEB-INF/classes/aslakjo/HelloWorldServlet.class
/WEB-INF/lib/
```

```
<web-app>
  <servlet>
    <servlet-name>HelloServlet</servlet-name>
    <servlet-class>aslakjo.HelloWorldServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>HelloServlet</servlet-name>
    <url-pattern>/hello</url-pattern>
  </servlet-mapping>
</web-app>
```



```
javax.servlet.http.HttpServlet  
ant package || mvn war:war
```





Ruby on Rails  
\$> jruby warbler



Demo

# Begrensninger

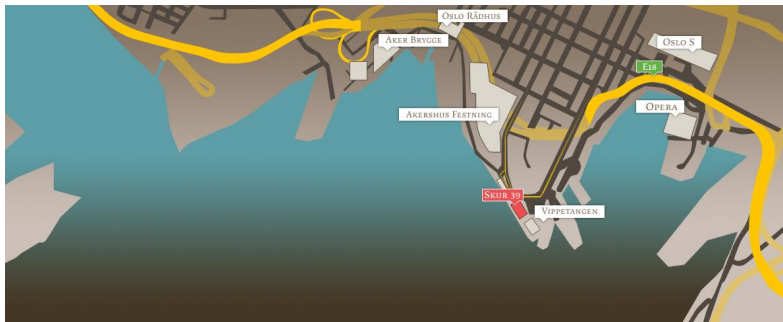
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Appengen er bare nesten en vanlig appserver.

- ▶ Lagring på Google BigTable
  - ▶ Det finnes løsninger for JPA, men de funker bare i det små.
- ▶ Sikkerhetspolicy
  - ▶ Ingen tråder
  - ▶ Ikke alle JDK klasser er tilgjengelige
  - ▶ Egene begrensning på standard APIet
  - ▶ Egen classloader

# Spørsmål?

<http://github.com/aslakjo/appengine-demo>



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