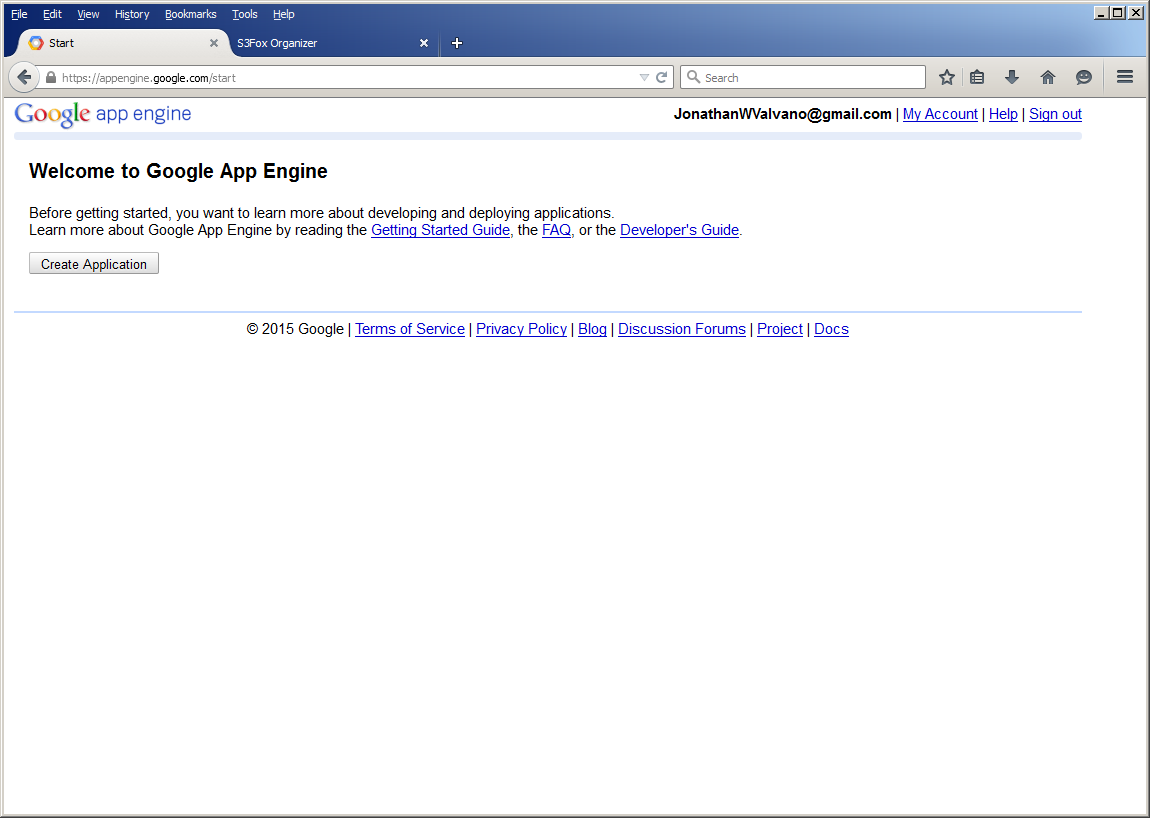
These directions explain how to create a **data logging server**

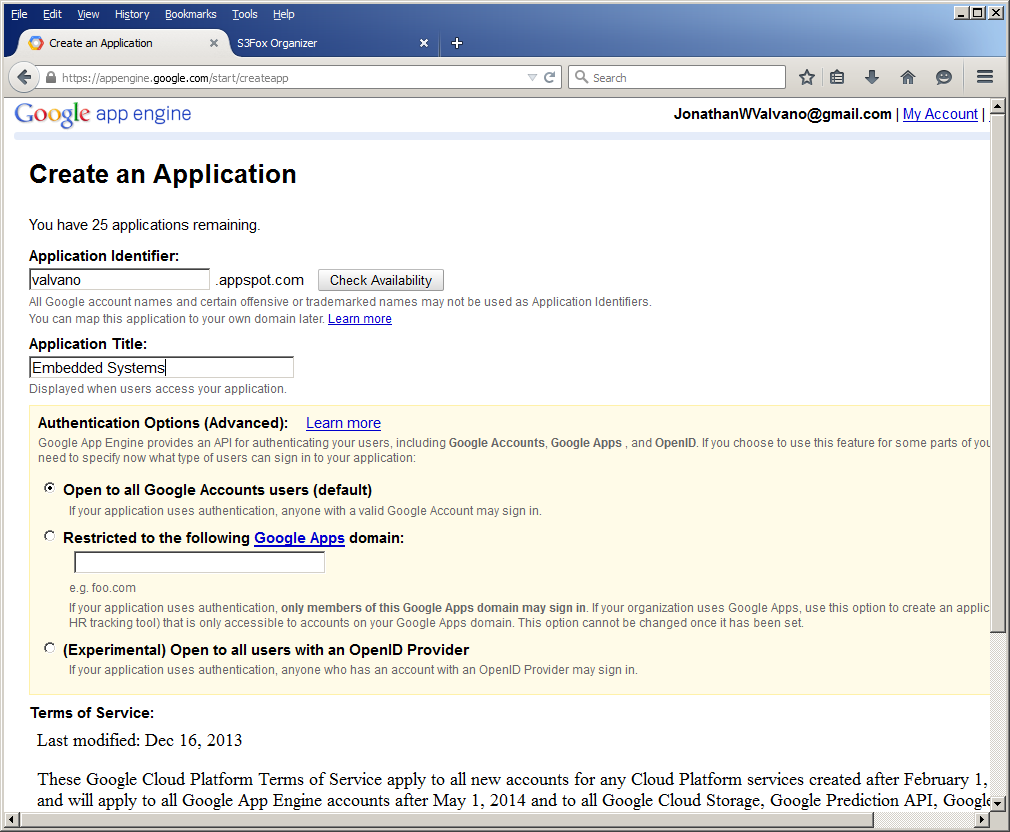
By Yerraballi and Valvano

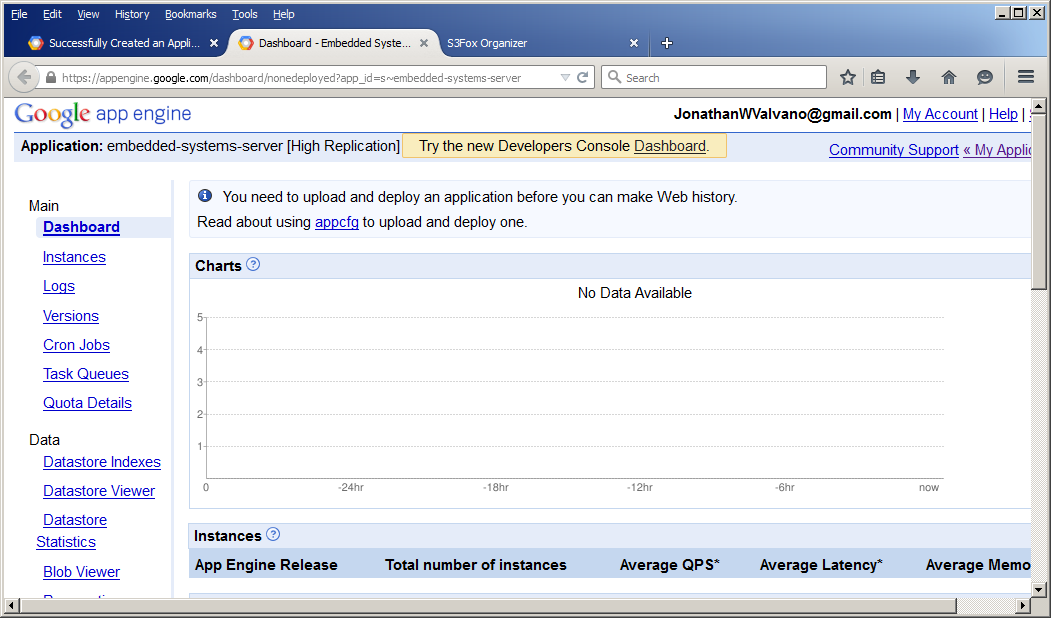
June 14, 2015

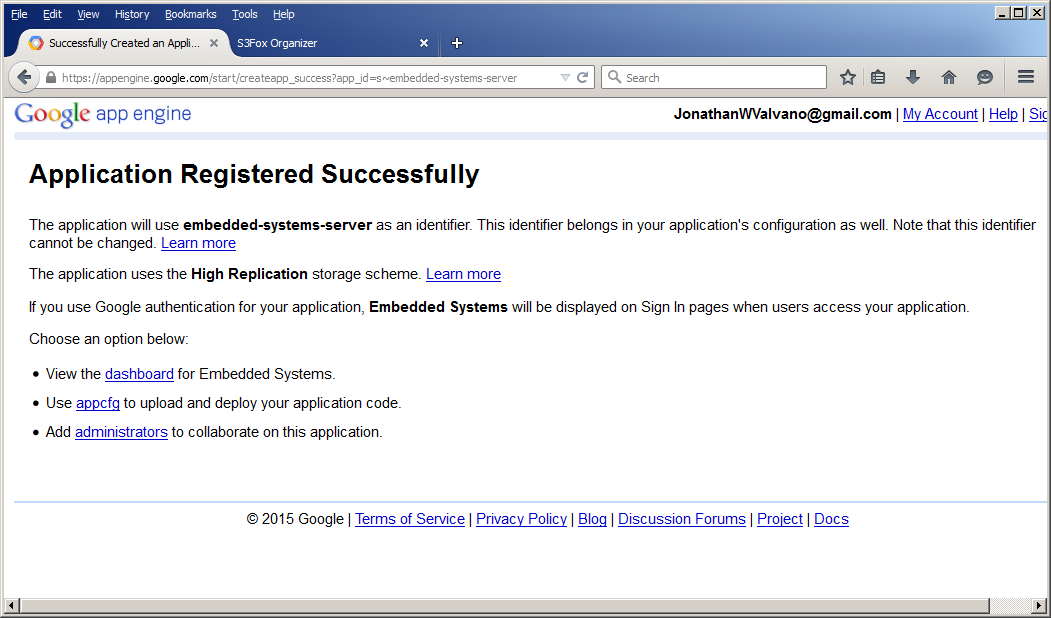
1) Create a google account at <https://appengine.google.com/start>



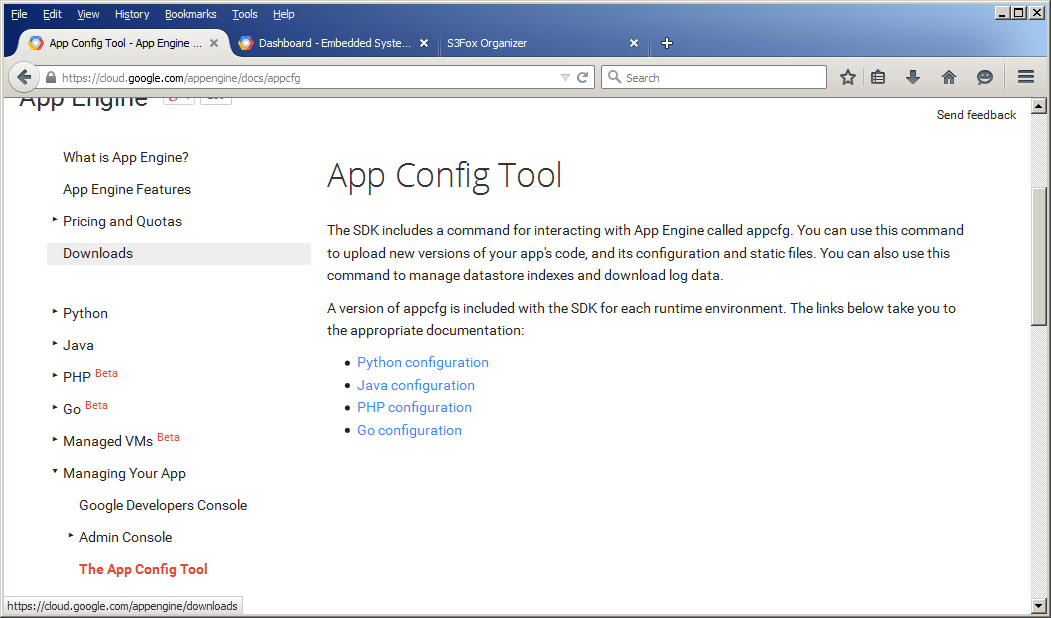
2) Create an application. You need a unique **application identifier**. Valvano was take, so this example is called embedded-systems-server. This will create the web site **embedded-systems-server.appspot.com.** Application Title is the name of the page

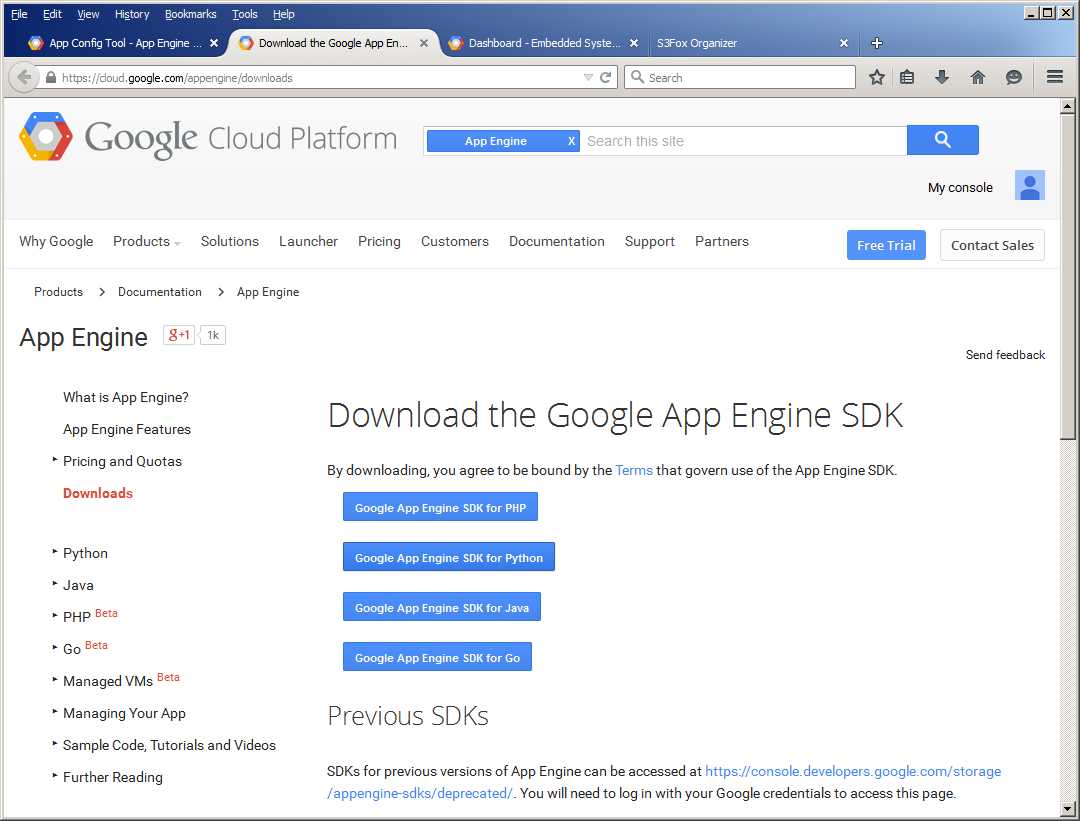


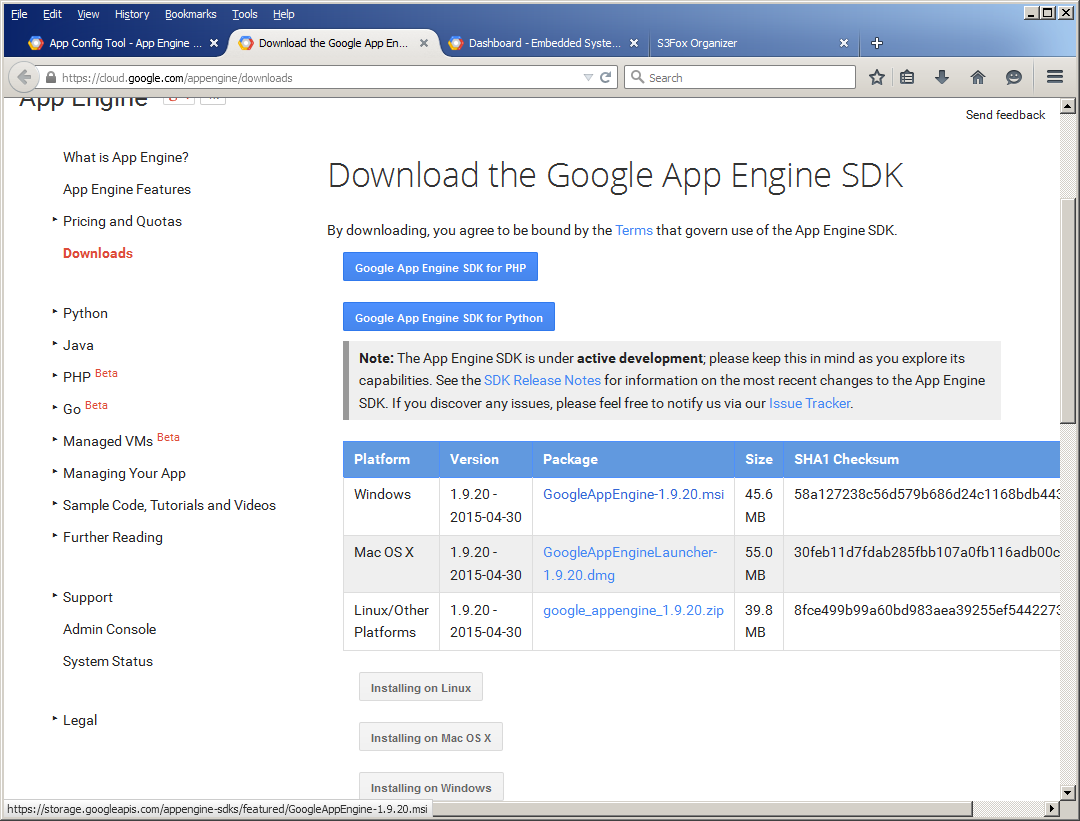




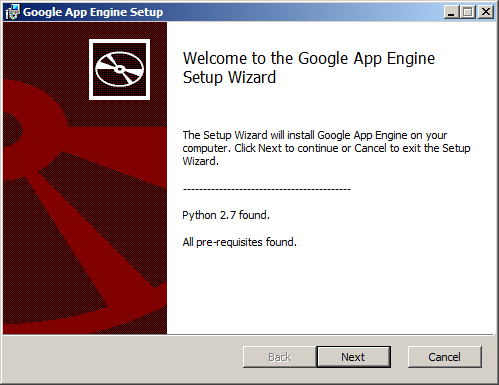
3) Use the **App Config Tool** to download the Google App Engine for Python



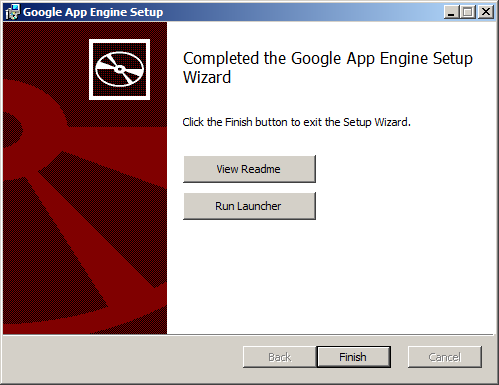




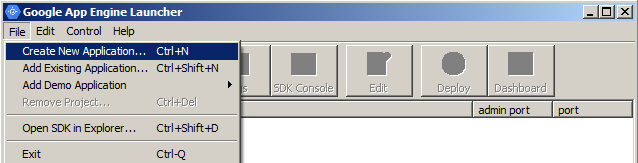
4) Download and Install Python 2.7 (this version only)

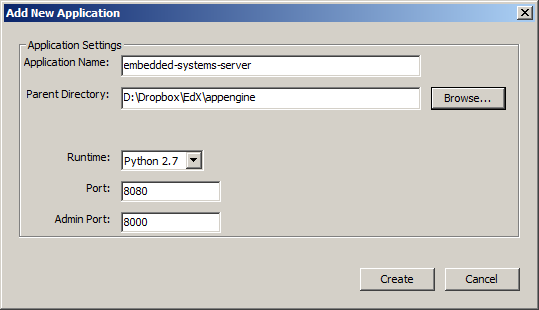


Install with default settings

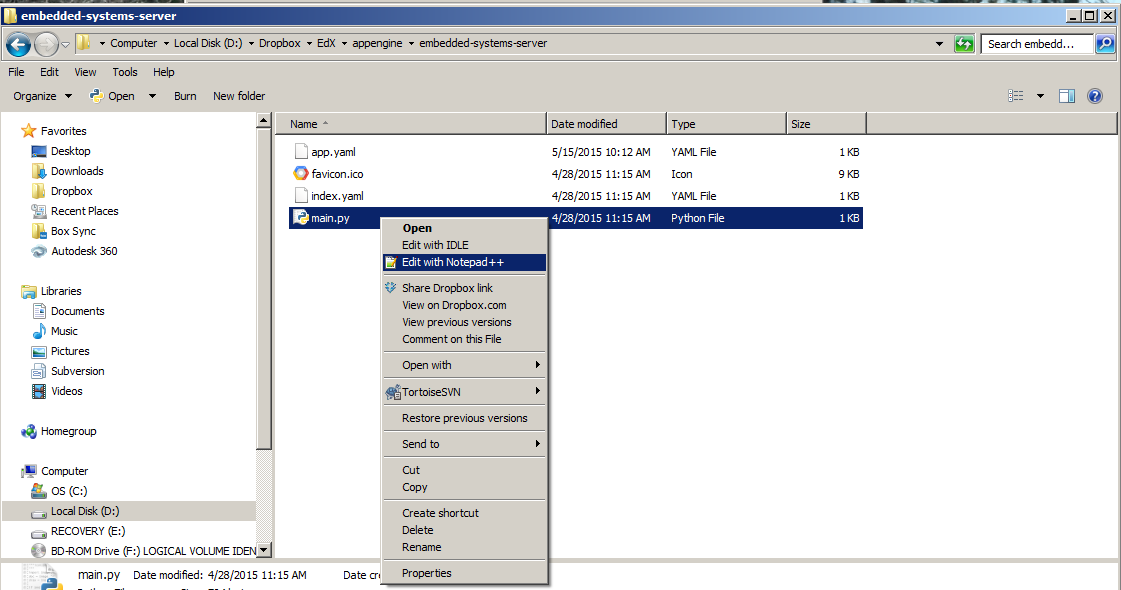


5) Create a new application; use the same application name as step 1 ; the parent directory is somewhere on your computer

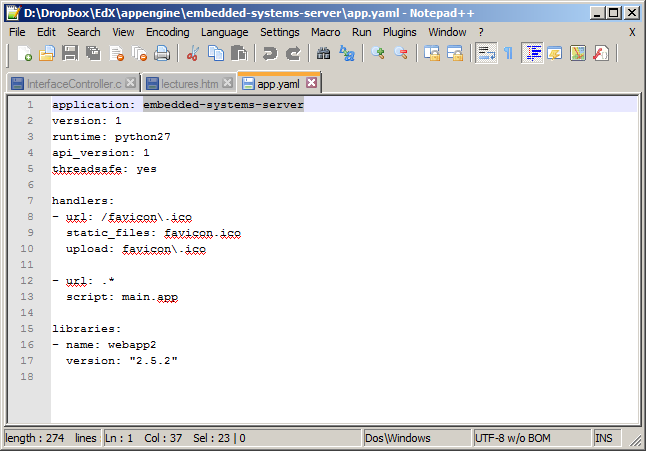




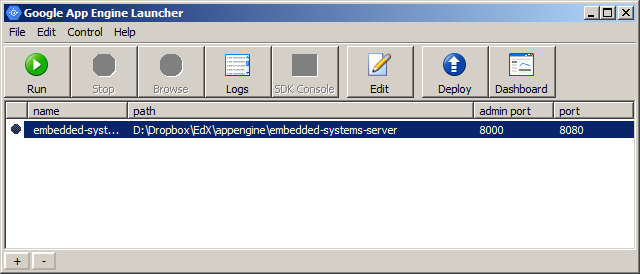
6) Open/edit **main.py** and copy paste Yerraballi’s Python code from his MOOC server



7) Open/edit **app.yaml** and verify application name matches application created in google app engine

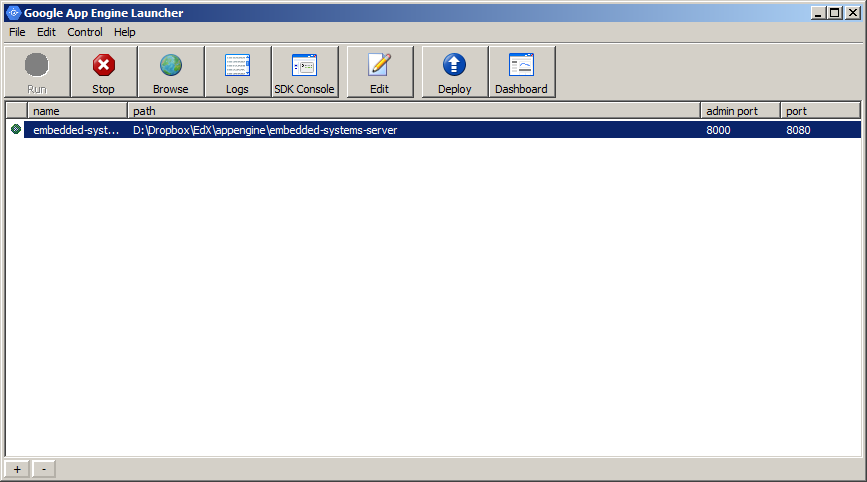


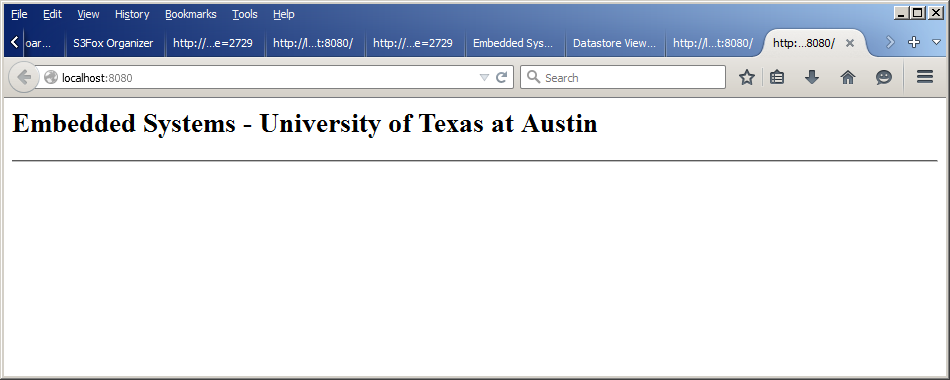
8) Start the **Google App Engine** and run your application



9) Edit your **main.py** for behavior of your server; you can see there are fields it will log

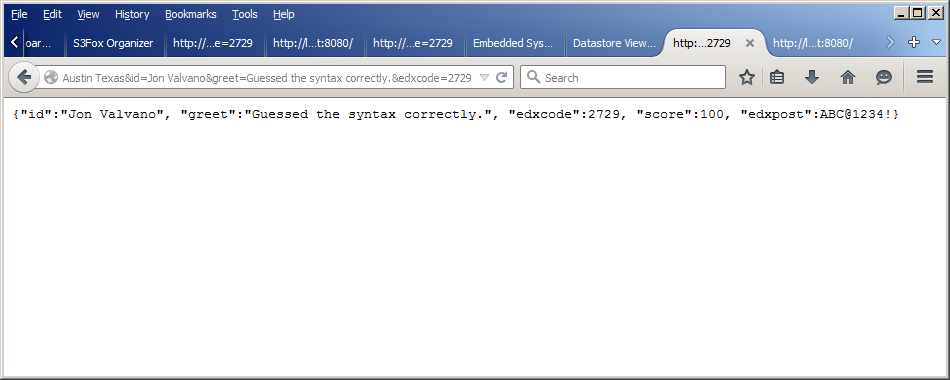
10) Wait until icon turns green and click browse



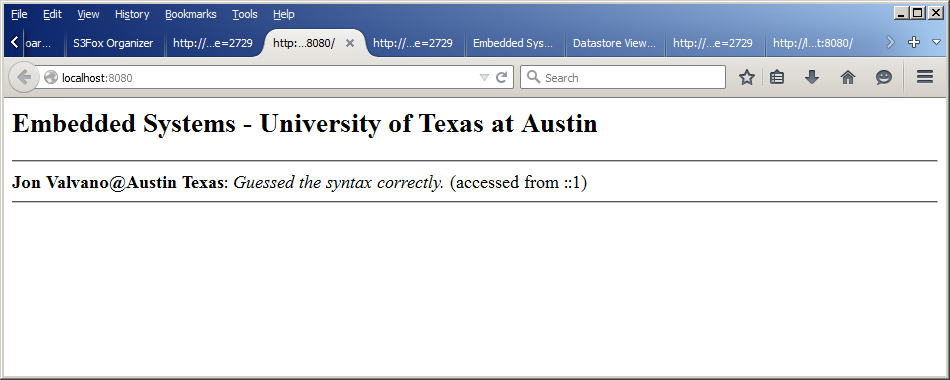


11) Type in this query to test logging on the local version

**localhost:8080/query?city=Austin%20Texas&id=Jon%20Valvano&greet=Guessed%20the%20syntax%20correctly.&edxcode=2729**

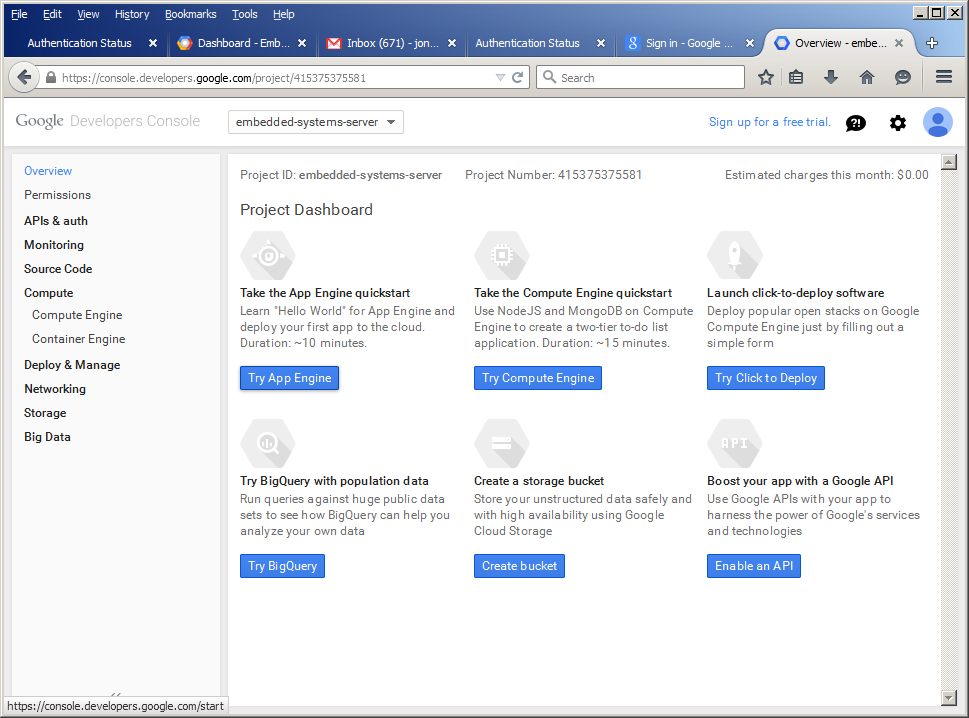


12) look at **localhost:8080** in a browser on the local machine

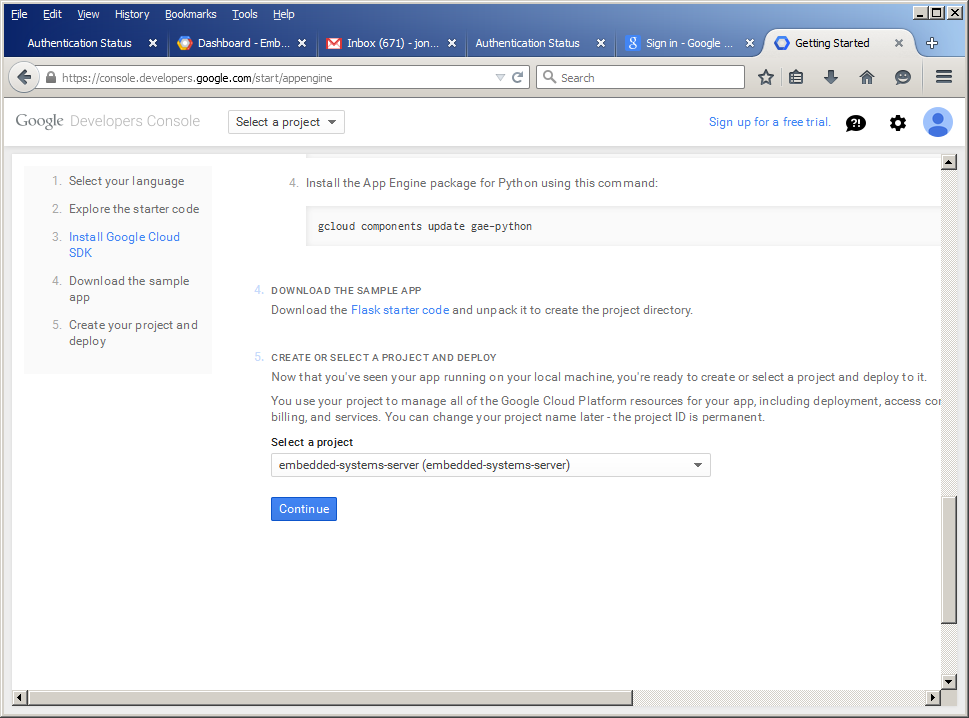


Debug operation on local machine; repeat steps 9,10,11,12 as needed

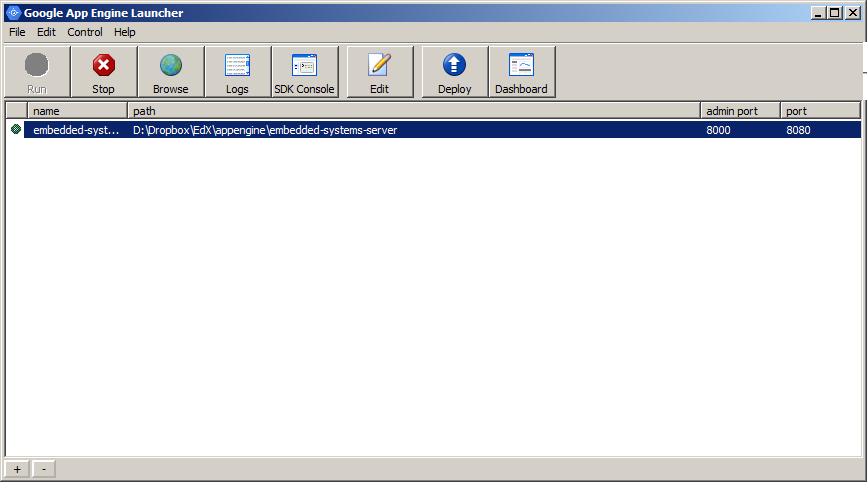
13) Go to **appengine.google.com**, sign up and complete the **quickstart**

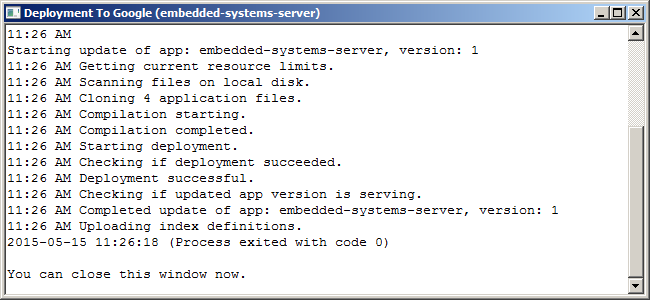


Scroll down and click **complete**



14) **Deploy** to cloud, log into google if needed

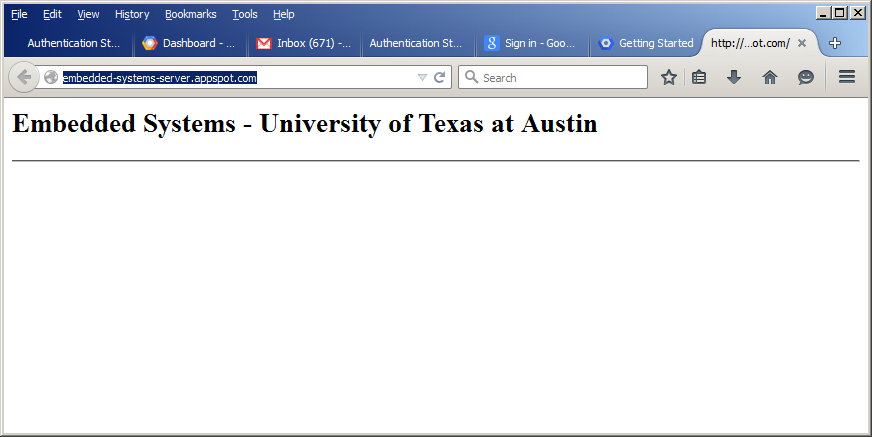




Log into google account, accept terms

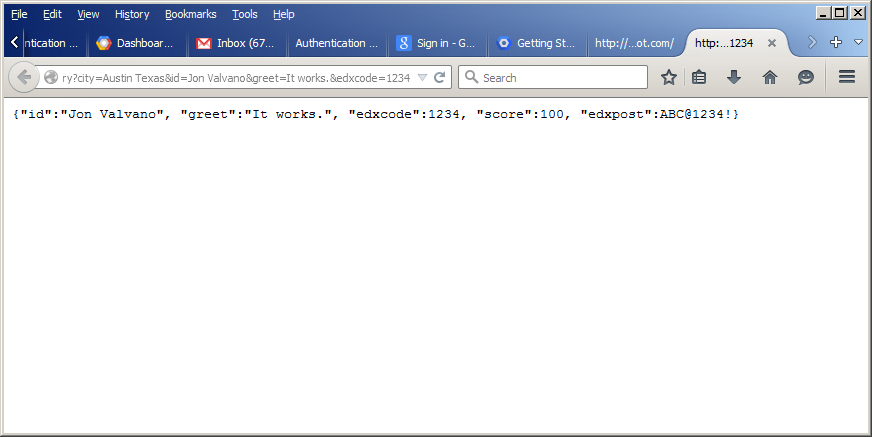
15) Check server on the internet

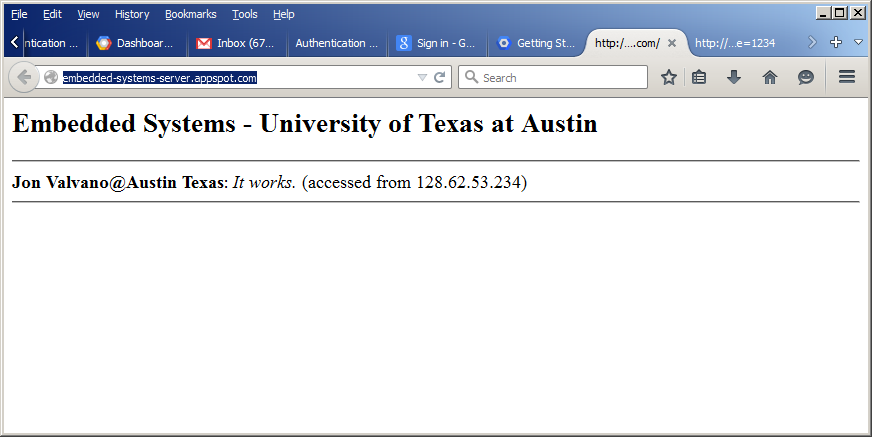
**embedded-systems-server.appspot.com**



16) Test logging typing this into a browser, with different **city id greet**

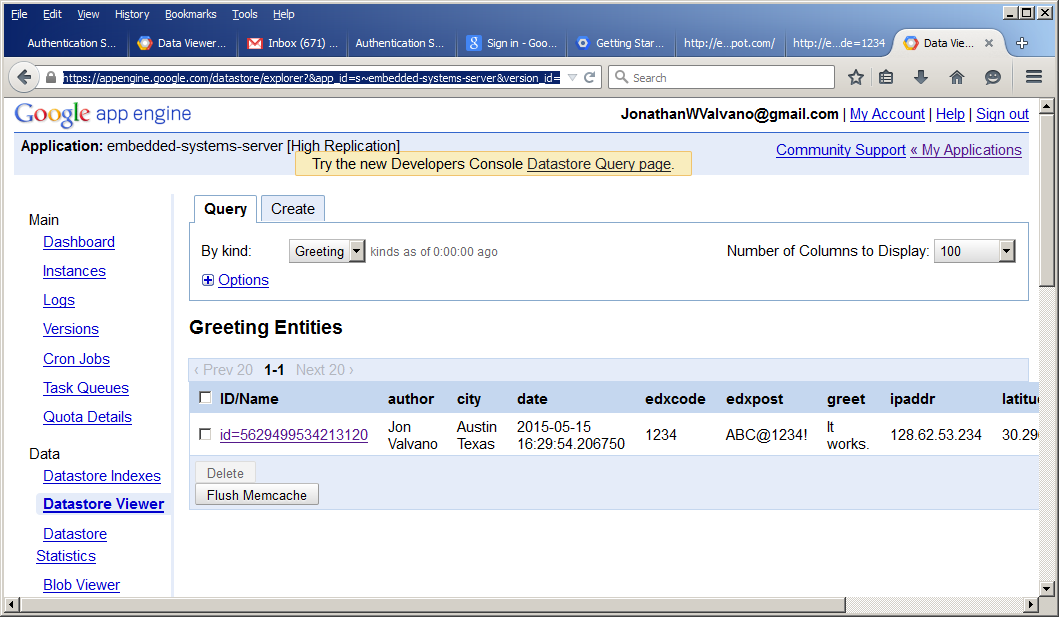
**embedded-systems-server.appspot.com/query?city=Austin%20Texas&id=Jon%20Valvano&greet=It%20works.&edxcode=1234**





17) Go to <https://appengine.google.com/>

Click server, click **Datastore Viewer**



18) Test with TM4C123/CC3100 smart object using **CC3100DataLog\_4C123** project

Good luck. This procedure was developed by Ramesh Yerraballi and documented by Jonathan Valvano