**Testing Google Cloud Services**

**Objective**

* Can we use this for our project?
* Can we use this for our project demo?
* Are there any costs?
* How do we start a database instance on GCS?
* How do we create the database and tables in postgresSQL?
* How do we populate the database with data?
  + Directly?
  + Remotely?

**Findings**

* **How do we start a database instance on GCS?**
  + Access the console @ console.cloud.google.com
  + On the left hand menu, select SQL
  + It will ask you to select the project you want the database to be associated with. In my teams case it is the app “Dogeons and Dragons”.
  + Select an Instance ID: dogeonsanddragons
  + Select a postgres PW: \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*
* **How do we create the database and tables in postgresSQL?**
  + From the Google Cloud Console, you open the Cloud Shell.
  + Follow instruction under the header “Connect to your instance using the psql client in Cloud Shell” <https://cloud.google.com/sql/docs/postgres/quickstart>
  + CREATE TABLE UNITS( **UNIT\_ID SERIAL PRIMARY KEY**, name VARCHAR NOT NULL, etc);
    - Primary Key Setup: Serial auto increments an integer to be used as the primary key for the record. It is an integer, not null and unique.
* Ran into some issues using Google Cloud Shell in the Firefox Browser.
* Installed Google Cloud SDK and local postgresSQL for testing.

**Conclusion**

**Switched to MySQL Instance because of familiarity. Setup went smoothly, was able to remotely connect and modify the database.**