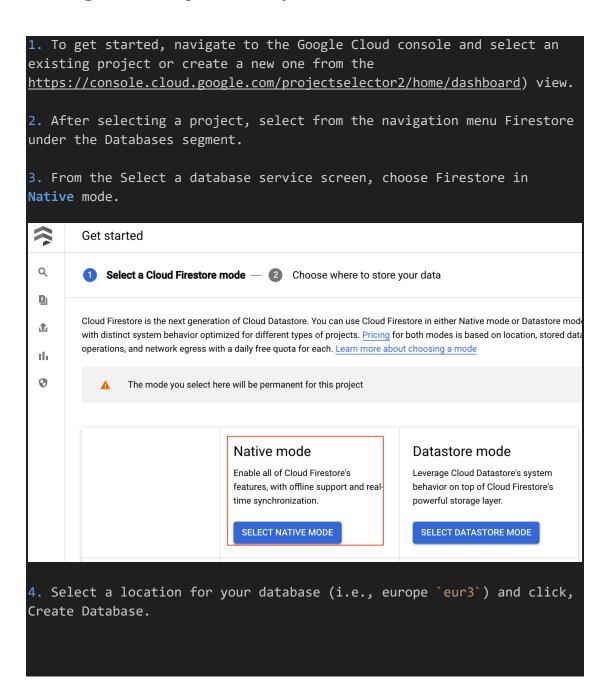
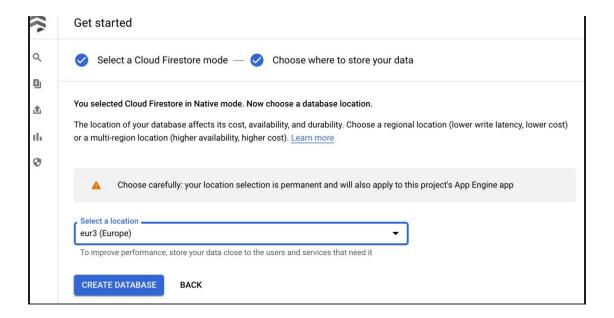
This document provides guidance for connecting to Google's Cloud Console, Firestore. The content and images are primarily derived from Dimitris Trihinas' notes for the Big Data Management and Processing course in the MSc in Data Science, with some modifications made by me.

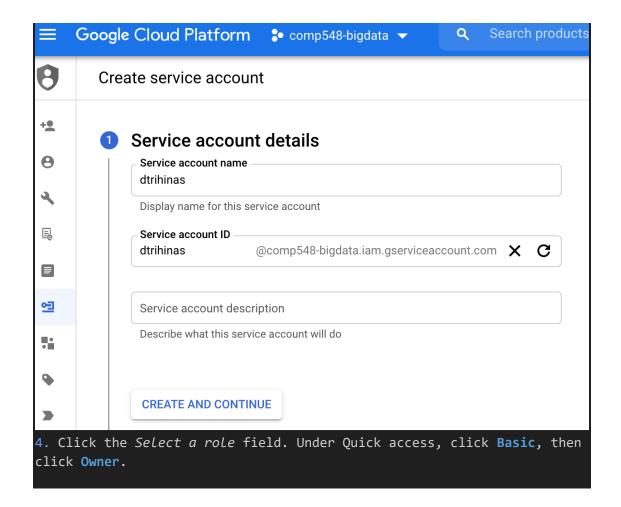
Getting Started - preliminary.

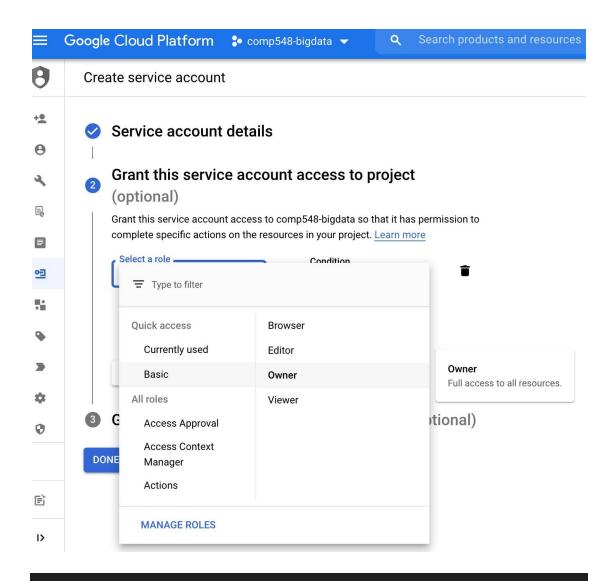




Setting up the Authentication

- 1. In Google Cloud navigate to the 'Create Service Account' with this https://console.cloud.google.com/projectselector/iam-admin/serviceaccounts/create?supportedpurview=project).
- 2. Select the project you have associated with the created database.
- 3. In the `Service account name` field, enter a name. The Cloud Console fills in the Service account ID field based on this name. When done, click Create and Continue.

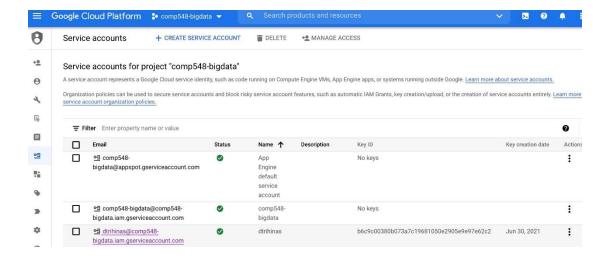




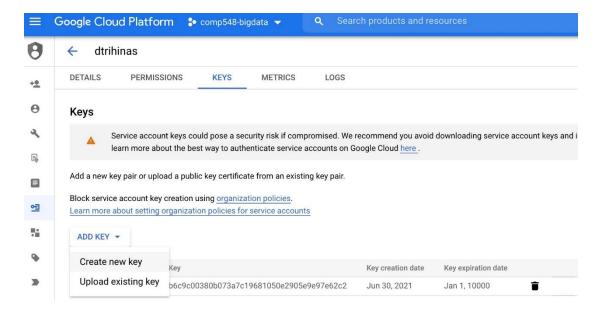
5. After, click Done to finish creating the service account.

Below, we create our key - Important for the connection

6. From the **service account view** click on the service account you have just created.



7. Go to the **Keys** tab and click **ADD KEY** and then **Create Key** (if given an option, use as key type `json`). Download your key to your local environment.



Note: the below only needs to be performed once and then you can use it for as many databases as you need to associate with your google cloud project.

8. Now, that you have downloaded your key, it is time to use it in your python application/notebook through the firestore SDK. To do so, we must first set an environment variable for the current session. This is OS dependent. To avoid having to write instructions for linux, macOS, windows, android, etc in a notebook environment you may use the following:

%env GOOGLE_APPLICATION_CREDENTIALS=TYPE_HERE_THE_PATH_TO_YOUR_KEY

The line above is the first line in my Jupyter Notebook Project file. Hence, that concludes the explanation and setting-up stage, and we proceed with the ipynb file.