How to set up Google Cloud Services

Go to <https://cloud.google.com/>

Graphical user interface, text, application, website

Description automatically generated

Fill out information such as country and select “Class Project/ Assignment”:

Graphical user interface

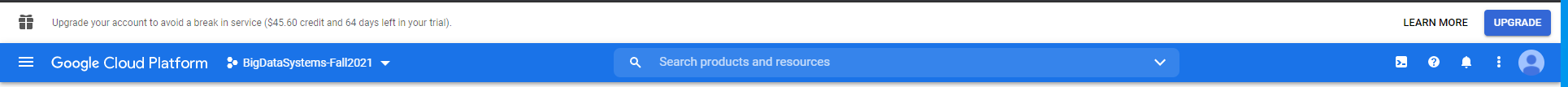
Description automatically generated

Graphical user interface, application

Description automatically generated

You can choose any payment method you like; your information will be used for verification only. Keep in mind that you will receive $300 free credit and this the credit you will use to perform your assignments (It is more than enough for assignment purpose). You can disable the service to save the remaining free credit after you finish with the assignments.

It is your responsibility to disable Google Cloud Platform after finishing the assignment to avoid any charge from Google



Graphical user interface

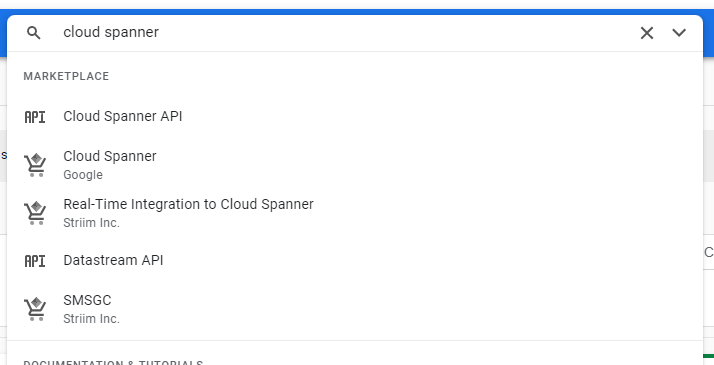
Description automatically generated with medium confidence

Create a project:

Graphical user interface, application, Teams

Description automatically generated

Enable Cloud Spanner API:



Creating a Spanner Instance:

A screenshot of a computer

Description automatically generated with medium confidence

Hit Create.

Now you should create a Database:

Graphical user interface, application

Description automatically generated

Graphical user interface, application

Description automatically generated

Creating a Credential File; you need to have credentials to connect to the databases/services from your applications, in our case, Jupyter notebook. On the menu, select “APIS & Services” and then “Credentials”:

Graphical user interface, application, Teams

Description automatically generated

Choose “Service Account”:

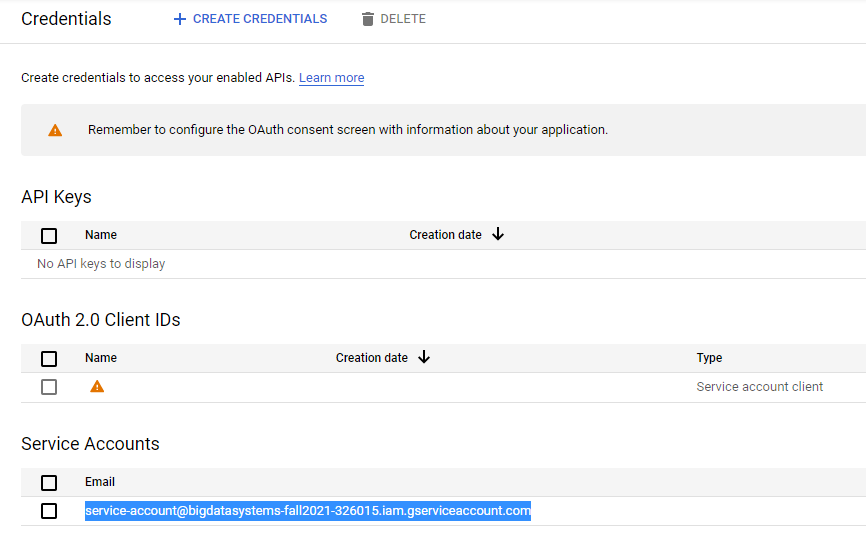
Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Copy service accounts for permission later



Click on service-account@bigdata...

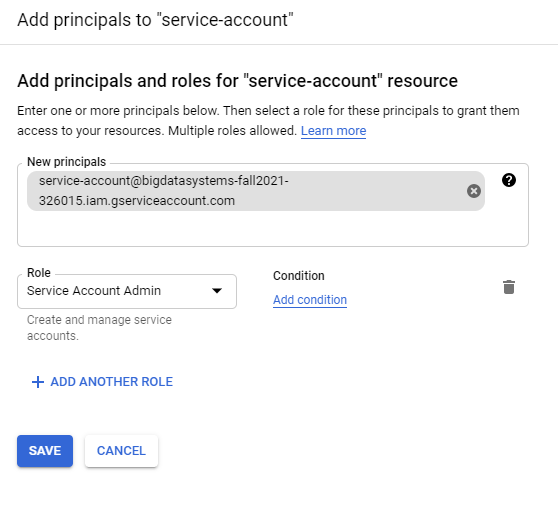
Graphical user interface, text, application, chat or text message

Description automatically generated

Click on Grant Access

Graphical user interface, text, application, email

Description automatically generated



Click on Keys tab then Create New Key

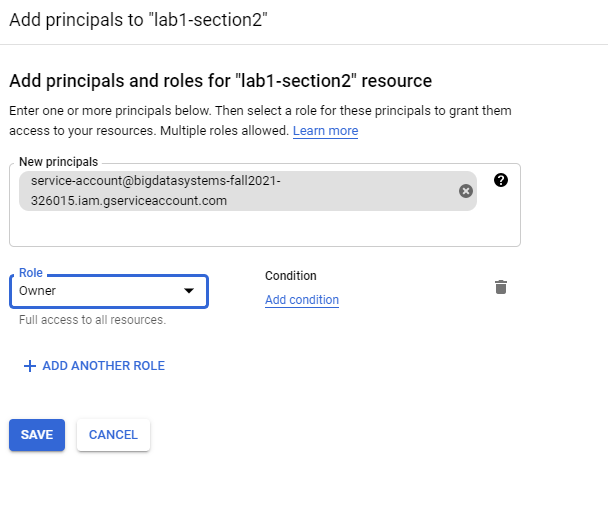
Graphical user interface, text, application, Teams

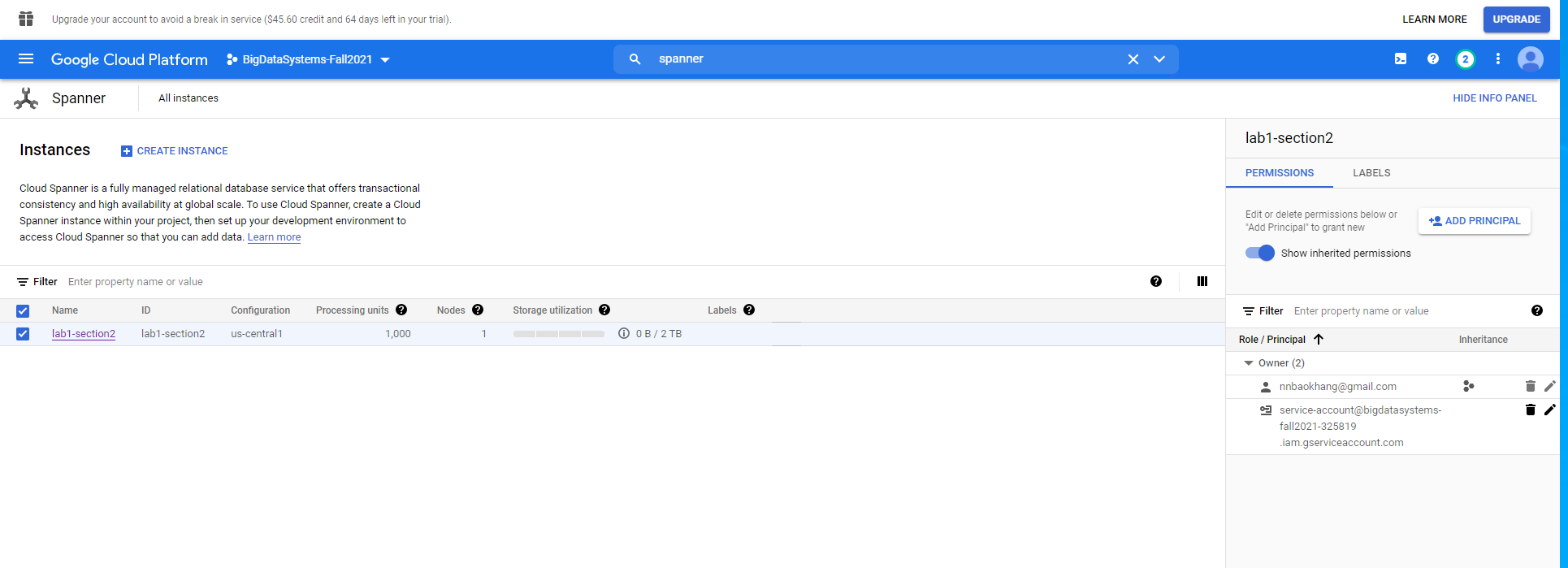
Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Make sure your service account will be added to Spanner under Permission tab

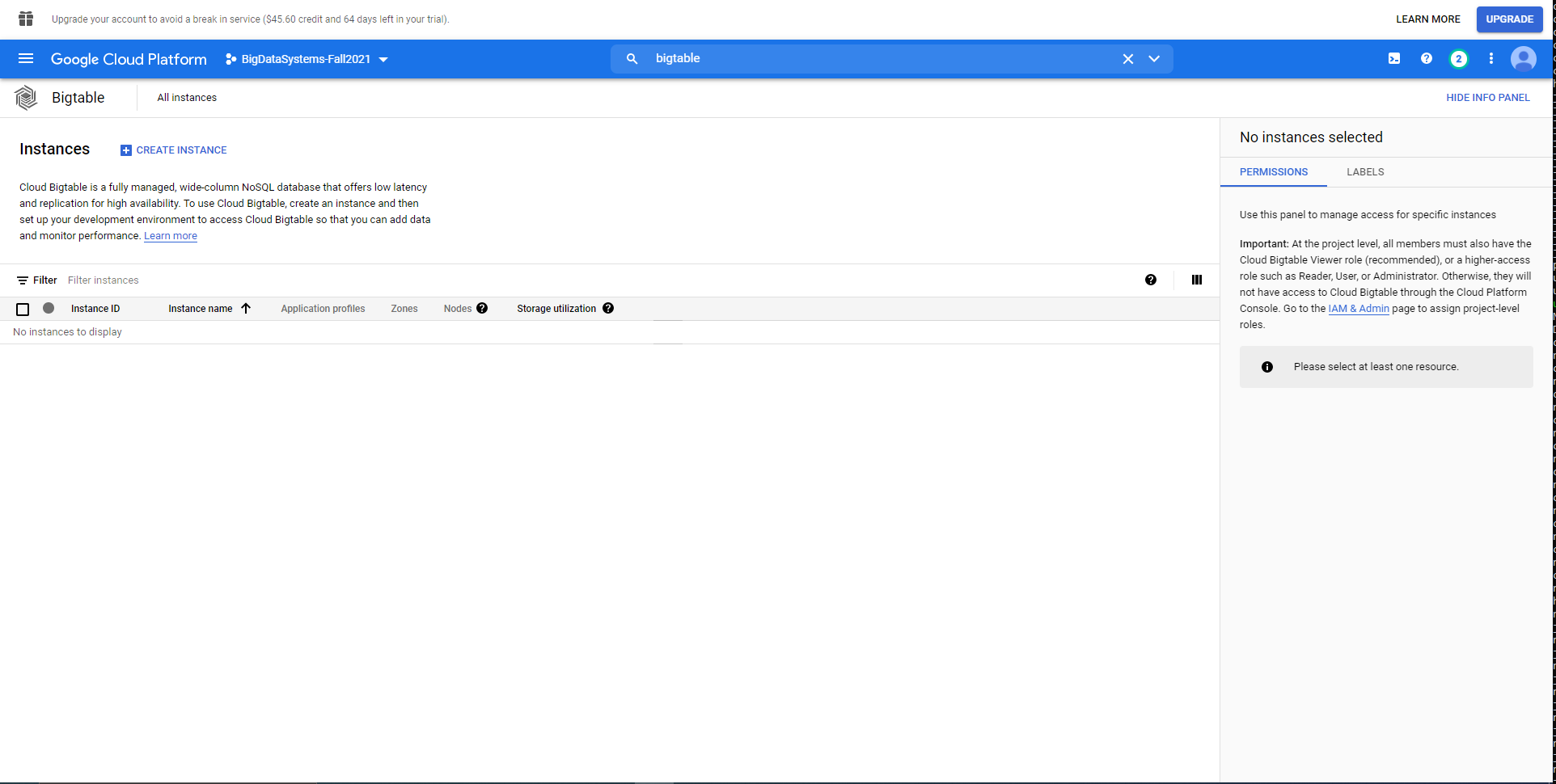


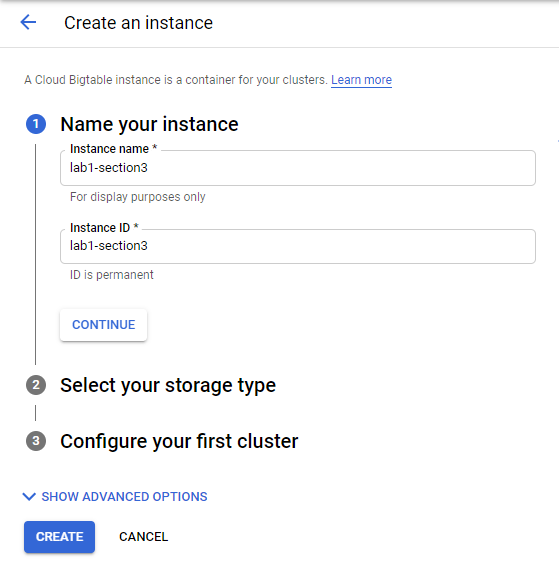


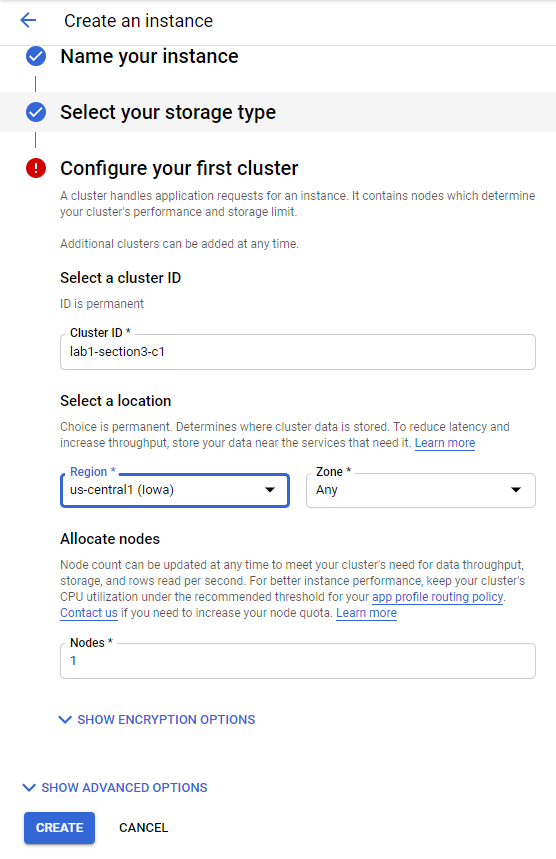
You should see a new download file name bigdatasystems-fall2021…json. Please keep this file, so later you can utilize this credential json file to access to Google Cloud API.

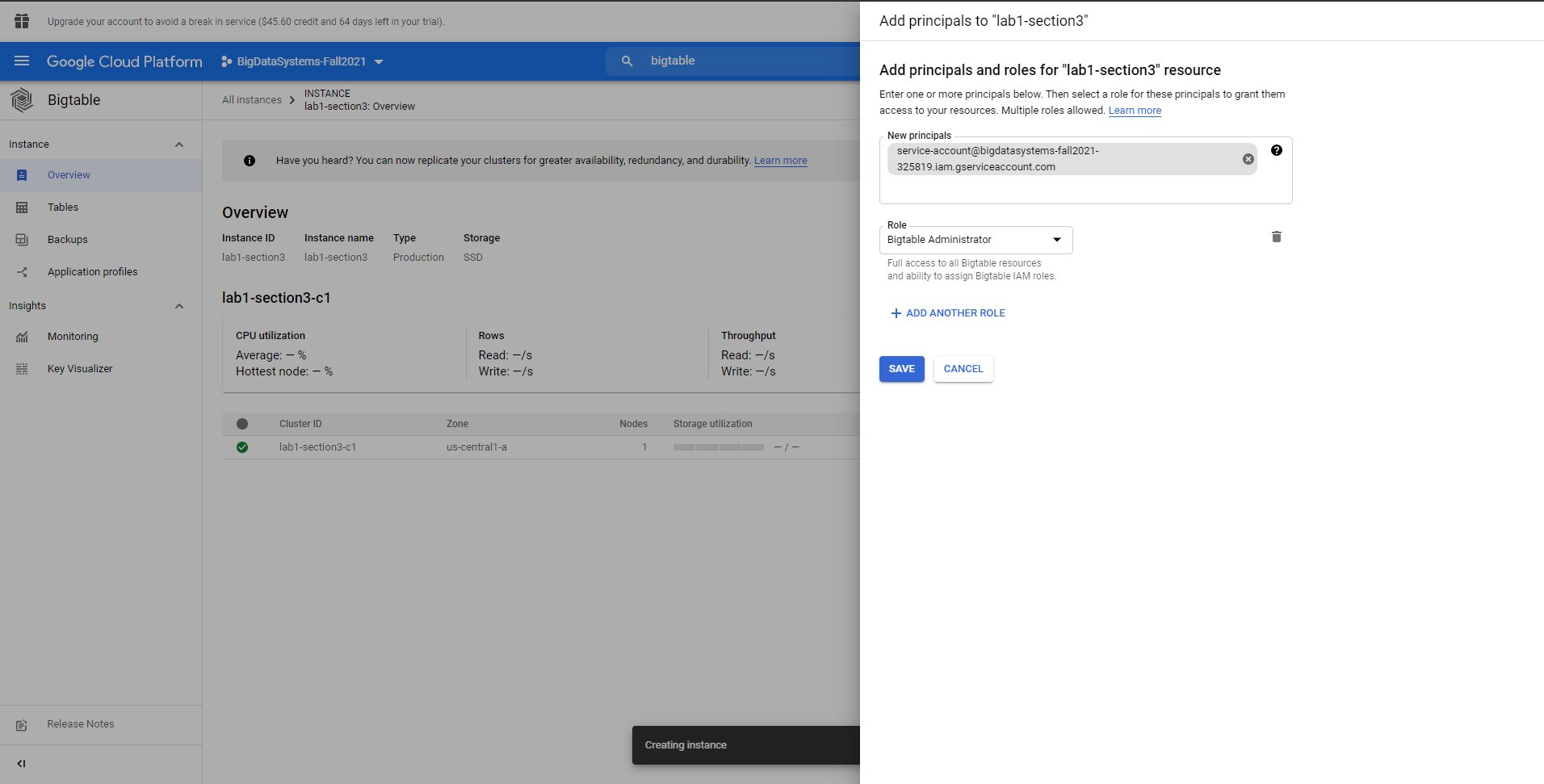
Enable Big Table:

Navigate to this page









Noted:

You need to make sure that you are authorized to access Google Service API by adding service-account to Permission tab under Google Service API. Otherwise, you will not able to connect to Google Cloud API

For example:

To check if service-account has access to Big Data API, you need navigate to Big Table, choose an instance, check permission tab.

