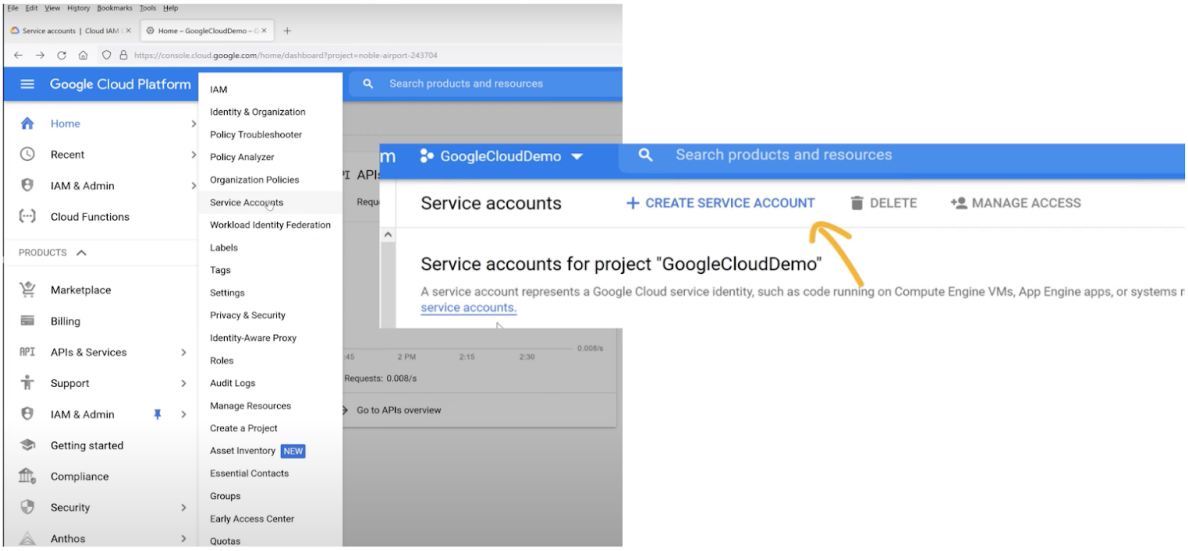
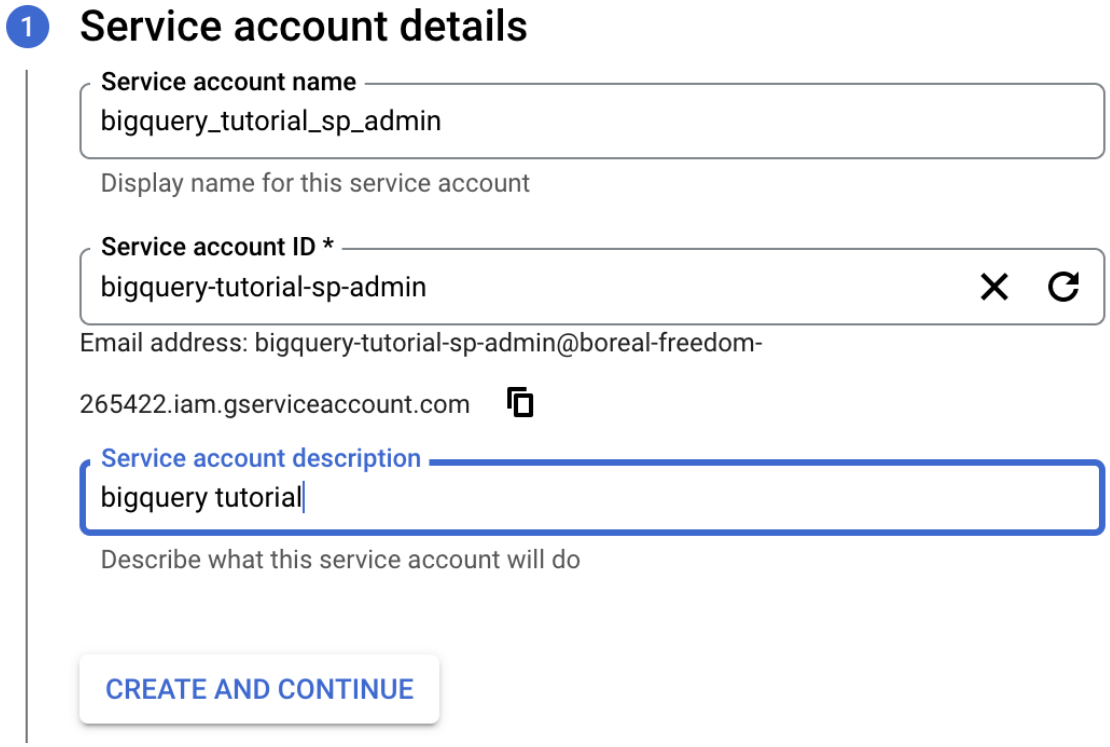
**BigQuery Setup Instructions**

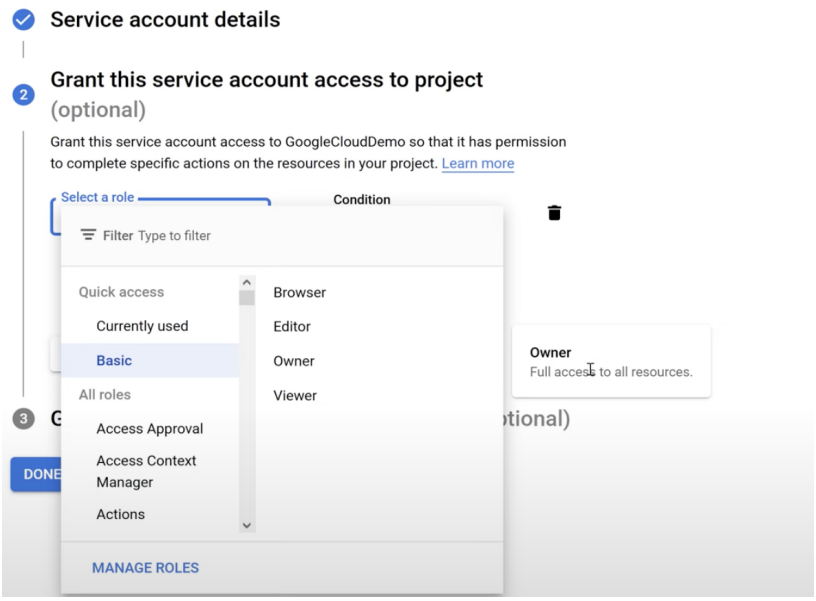
1. Make sure you have a Gmail account set up .
2. Go to console.cloud.google.com. Click on the navigation (hamburger icon on upper left), then click on IAM & Admin. Under IAM & Admin click on services accounts and create a service account:



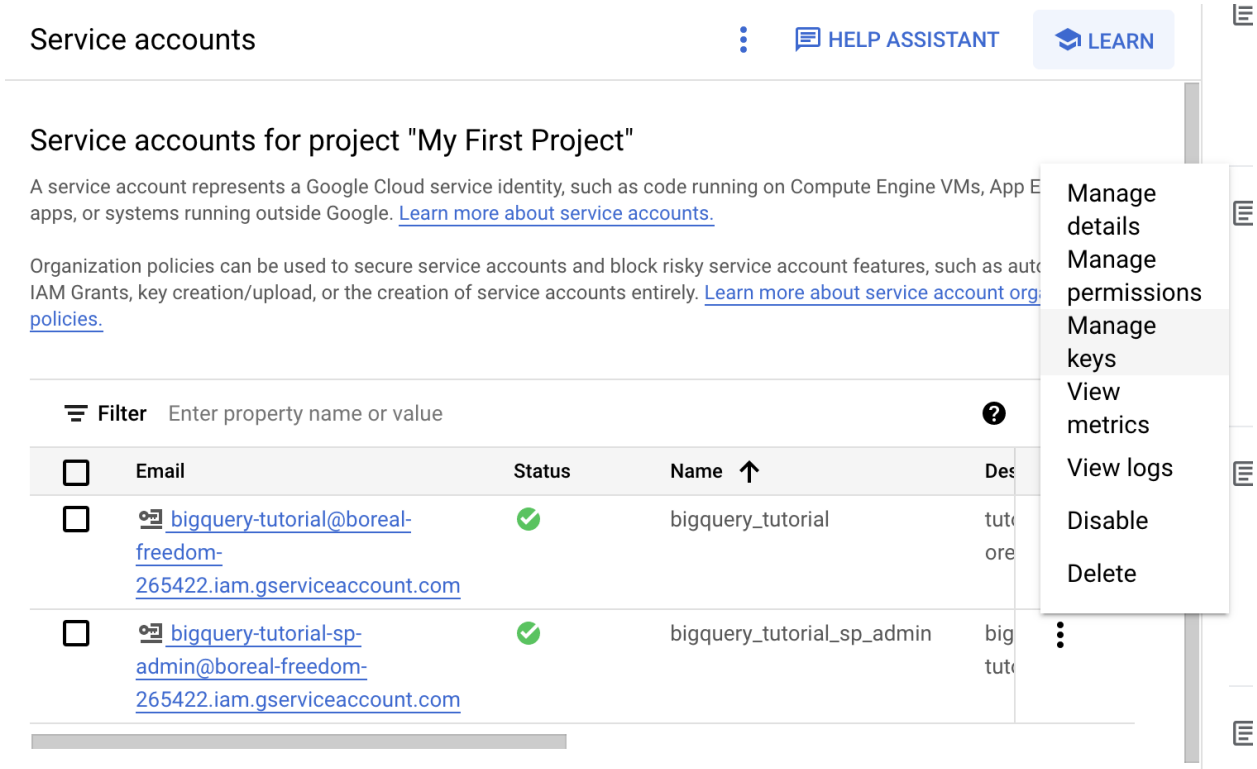

3. Next add name and description. Click create and continue:



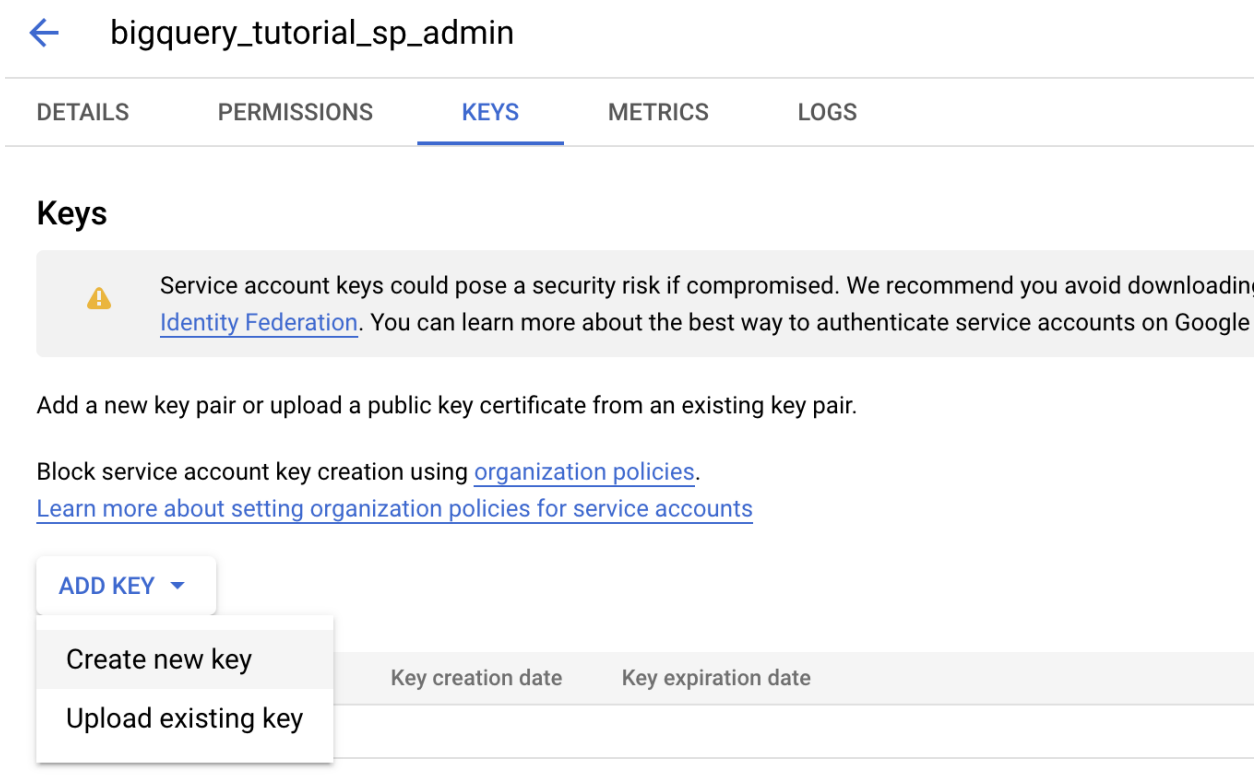

1. Next click on basic, then owner, then continue and then done:




Next click on manage keys for your newly created service account:




Click on add and create keys:




Select JSON and click create:

# Create private key for "bigquery_tutorial_sp_admin"

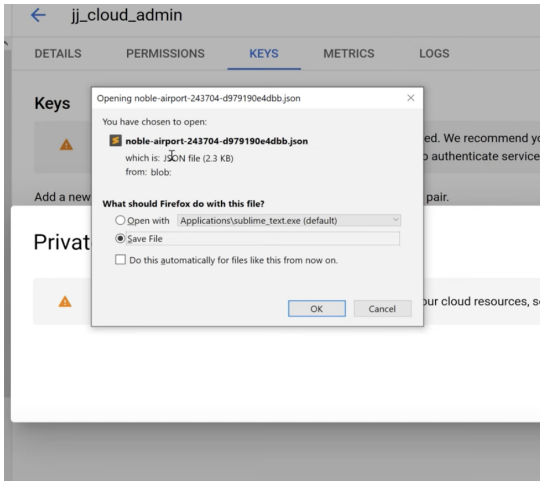
Downloads a file that contains the private key. Store the file securely because this key can't be recovered if lost.

**Key type**

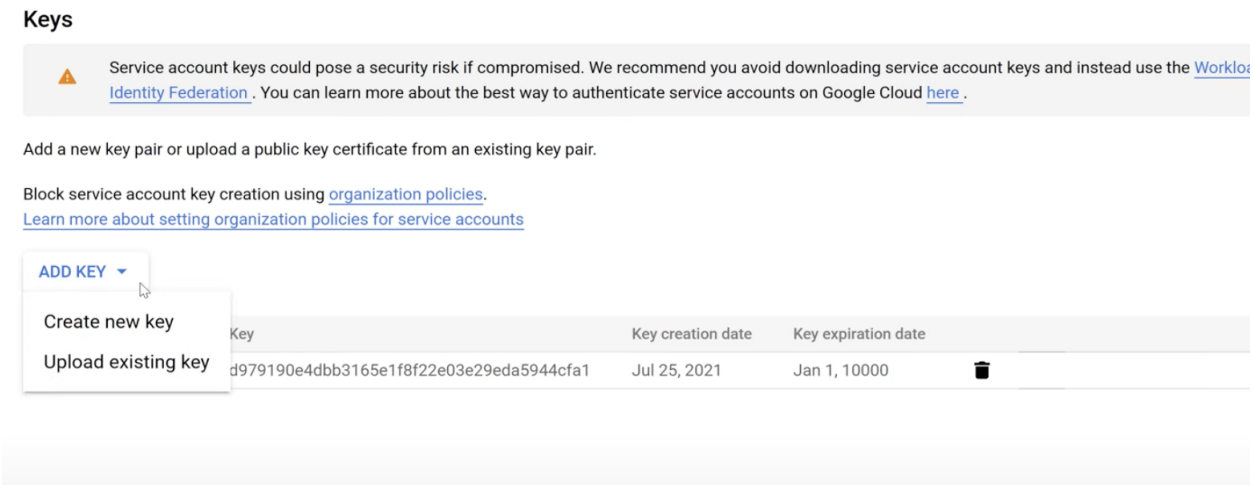
- (•) JSON
  Recommended
- ( ) P12
  For backward compatibility with code using the P12 format

CANCEL CREATE

Create JSON and save in project folder. You can now save the JSON to your computer. I recommend renaming the file to something easy to understand:




If you lose your key you can easily create a new one:




To create a BigQuery client, create a new folder on your desktop called ‘bigquery_tutorial’. Next, open a Jupyter notebook and save it in the ‘bigquery_tutorial’ folder. Also drag and drag the JSON private key file into the ‘bigquery_tutorial’ folder.

You can use the following code to create a client. In the first cell of your Jupyter notebook copy, paste and execute this command:

```
%pip install google-cloud-bigquery
```

In the subsequent cell you can paste the following to define your bigquery client:

```
import os
from google.cloud import bigquery
os.environ['GOOGLE_APPLICATION_CREDENTIALS'] = 'oreilly_demo_key.json'
client = bigquery.Client()
```

During the course you will learn how to access tables using this client!