

# Configuration

1. Create a Google Cloud Account
  - a. Go to <https://cloud.google.com>
  - b. Click on Start Free
  - c. Connect with your google account
  - d. Enter your credit card information, the \$300 free credit will be largely sufficient for this course (estimated costs: < \$2)
2. Create a Google Cloud Project

Google Cloud My First Project Search (/) for resources, docs, products, and more Search

Select from [dropdown] New Project NEW PROJECT

Search projects and folders

New Project

Project name \* OreillyKensu DataObservability ?

Project ID: oreillykensu-dataobservability. It cannot be changed later. EDIT

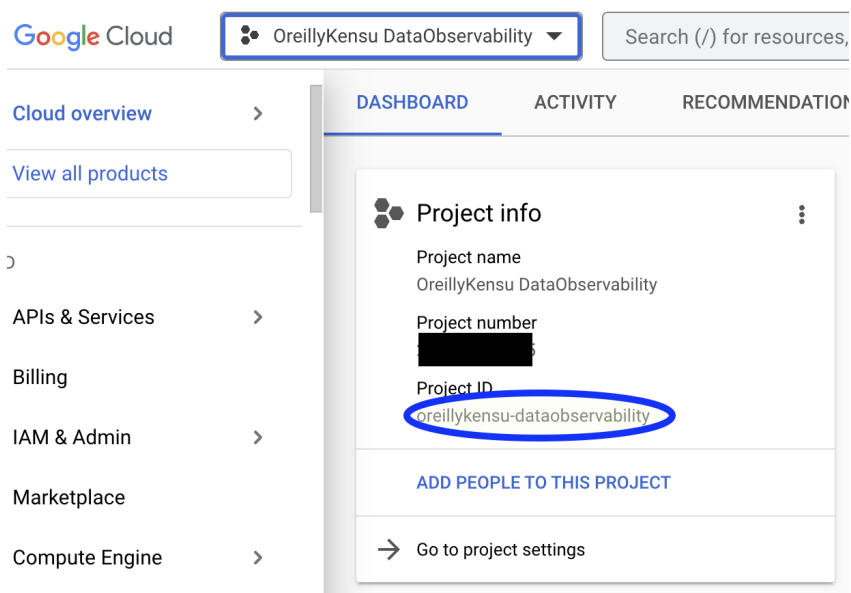
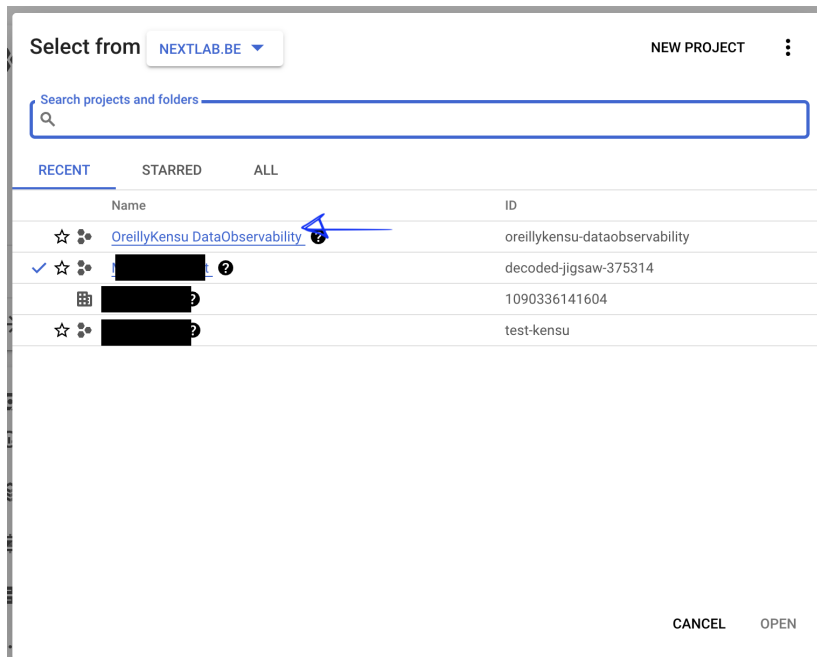
Organization \* [dropdown] ?

Select an organization to attach it to a project. This selection can't be changed later.

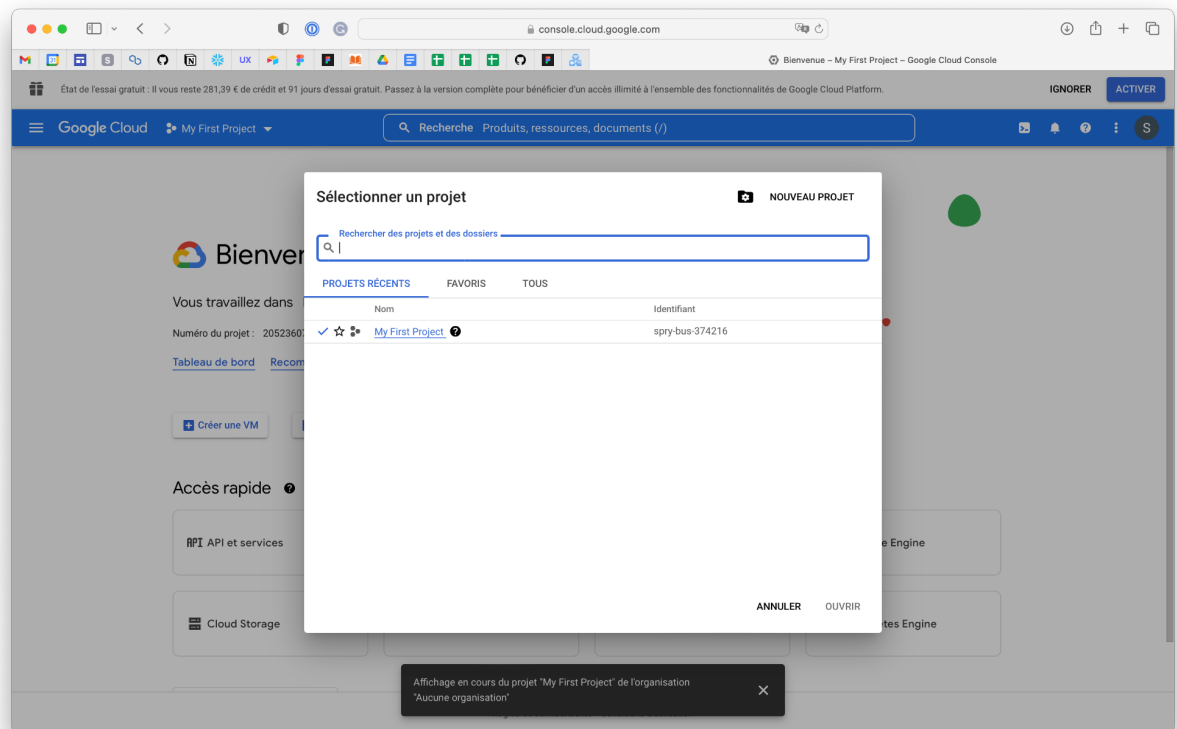
Location \* [dropdown] BROWSE

Parent organization or folder

CREATE CANCEL



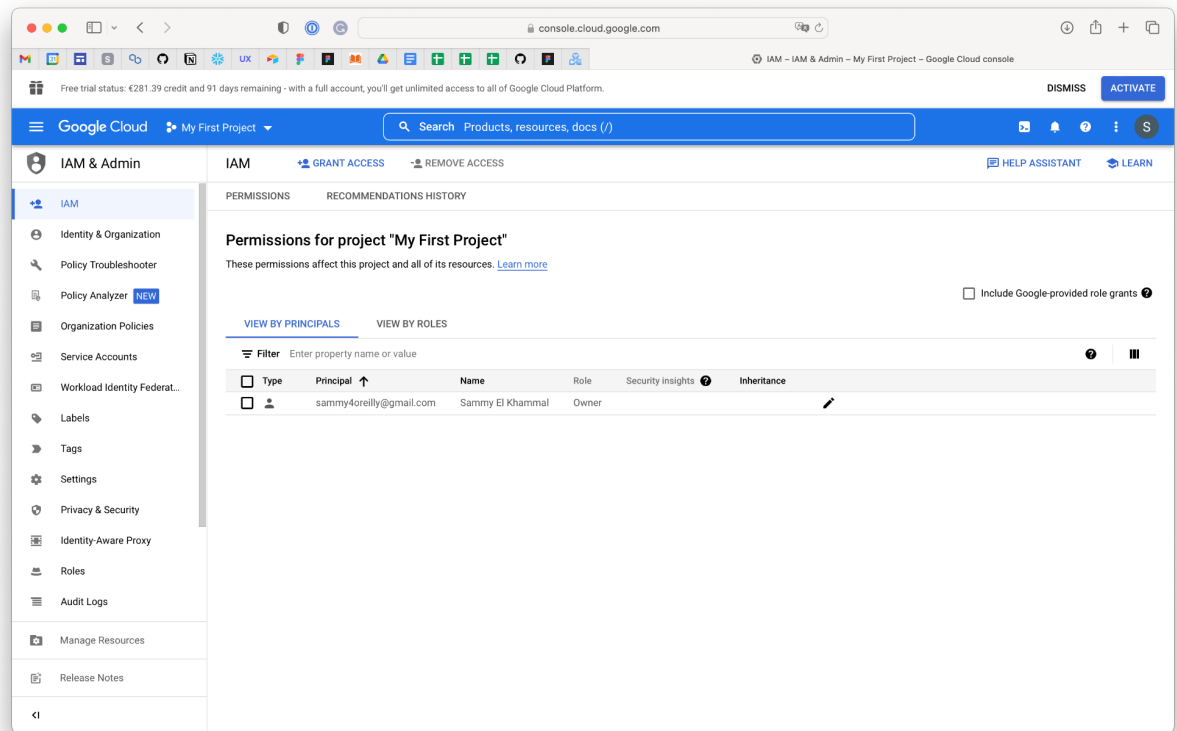
- Note: You can also use the default one "My first project" created when you registered. Please note the project-id.
- Save the id of the project, you will need it for the course!



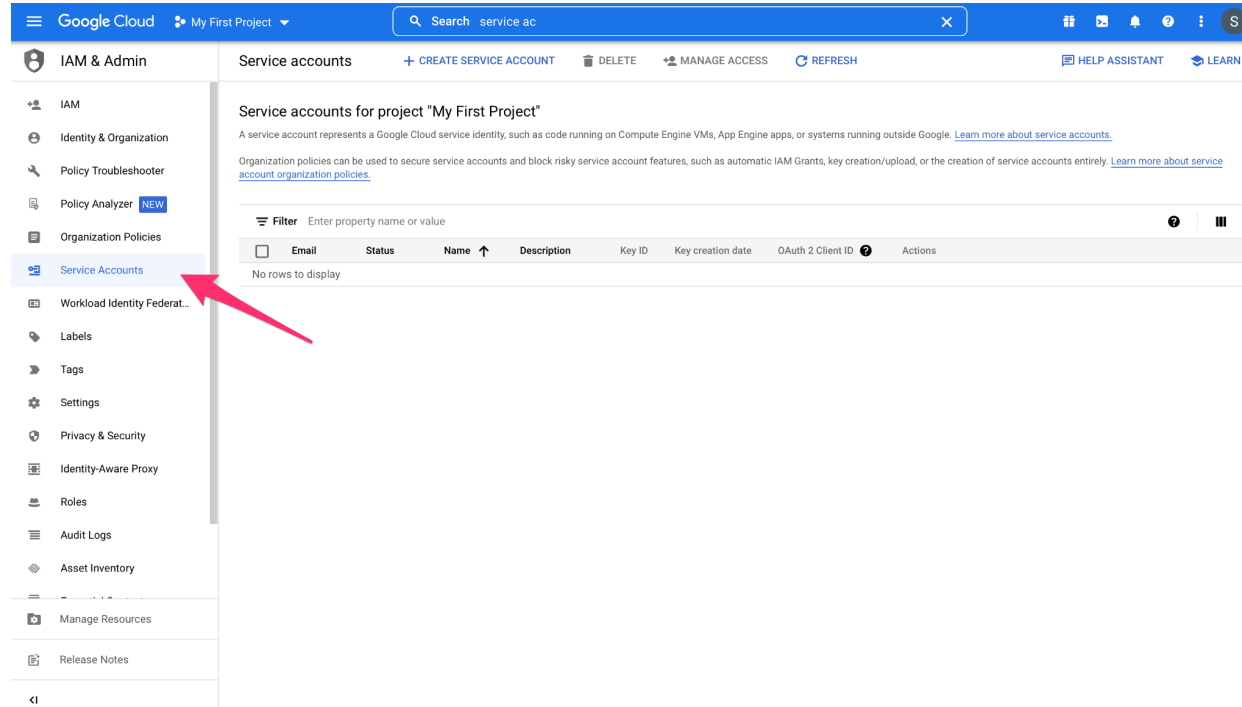
### 3. Create a service account

Service accounts are used to perform automated tasks, such as accessing Google APIs or using GCP services like Compute Engine and Cloud Storage, on behalf of a user or application. Service accounts are associated with a project in GCP and have their own set of credentials, including a private key and a client ID.

- a. Go to the IAM & Admin panel (accessible through the Search tab)



- b. Click on "Service Accounts"



c. Click on “Create Service Account”

The screenshot shows the Google Cloud IAM & Admin console for a project named "My First Project". The left sidebar contains a navigation menu with the following items: IAM, Identity & Organization, Policy Troubleshooter, Policy Analyzer (marked with a "NEW" badge), Organization Policies, Service Accounts (highlighted in blue), Workload Identity Federat..., Labels, Tags, Settings, Privacy & Security, Identity-Aware Proxy, Roles, Audit Logs, Asset Inventory, Manage Resources, and Release Notes. The main content area is titled "Service accounts" and includes a search bar with the text "Search service ac". Below the search bar, there are several action buttons: "+ CREATE SERVICE ACCOUNT" (highlighted with a red arrow), "DELETE", "MANAGE ACCESS", and "REFRESH". The page also features a "HELP ASSISTANT" button and a "LEARN" button. The main content area displays the heading "Service accounts for project 'My First Project'" followed by a description of service accounts and links to learn more. Below this, there is a filter bar with the text "Filter Enter property name or value" and a table with columns: Email, Status, Name (sorted ascending), Description, Key ID, Key creation date, OAuth 2 Client ID, and Actions. The table currently shows "No rows to display".

Google Cloud My First Project Search service ac

IAM & Admin

Service accounts + CREATE SERVICE ACCOUNT DELETE MANAGE ACCESS REFRESH HELP ASSISTANT LEARN

Service accounts for project "My First Project"

A service account represents a Google Cloud service identity, such as code running on Compute Engine VMs, App Engine apps, or systems running outside Google. [Learn more about service accounts.](#)

Organization policies can be used to secure service accounts and block risky service account features, such as automatic IAM Grants, key creation/upload, or the creation of service accounts entirely. [Learn more about service account organization policies.](#)

Filter Enter property name or value

<input type="checkbox"/>	Email	Status	Name ↑	Description	Key ID	Key creation date	OAuth 2 Client ID	Actions
No rows to display								

- d. Enter a name and an id for your service account. For example, “workshop”.

Google Cloud

My First Project

Search service ac

IAM & Admin

IAM

Identity & Organization

Policy Troubleshooter

Policy Analyzer NEW

Organization Policies

**Service Accounts**

Workload Identity Federat...

Labels

Tags

Settings

Privacy & Security

Identity-Aware Proxy

Roles

Audit Logs

Asset Inventory

Create service account

1

Service account details

Service account name

workshop

Display name for this service account

Service account ID \*

workshop

X ↺

Email address:

workshop@spdy-bus-374216.iam.gserviceaccount.com

📄

Service account description

Describe what this service account will do

CREATE AND CONTINUE

2

Grant this service account access to project (optional)

3

Grant users access to this service account (optional)

DONE

CANCEL

- e. The service account needs the following role: “Editor”. Click on the role and confirm.

✓ **Service account details**

2 **Grant this service account access to project (optional)**

Grant this service account access to My First Project so that it has permission to complete specific actions on the resources in your project. [Learn more](#)

Select a role IAM condition (optional) ?

Filter Type to filter

Quick access

Currently used

Basic

By product or service

Access Approval

Access Context Manager

Actions

Roles

Browser

Editor

Owner

Viewer

[MANAGE ROLES](#)

**Editor**  
View, create, update, and delete most Google Cloud resources.  
See the list of included permissions.

- f. Click on “Done”. You will be redirected to the Service account page.

Service accounts

+ CREATE SERVICE ACCOUNT

DELETE

MANAGE ACCESS

REFRESH

HELP ASSISTANT

LEARN

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Filter

Enter property name or value

?

|||

<input type="checkbox"/>	Email	Status	Name ↑	Description	Key ID	Key creation date	OAuth 2 Client ID <div>?</div>	Actions
<input type="checkbox"/>	<div><div></div><div>workshop@spry-bus-374216.iam.gserviceaccount.com</div></div>	<div>✓</div>	workshop		No keys		117057785226316493628 <div><div></div></div>	<div>⋮</div>

4. Create a service account key.

- a. In the service account page, click on the previously created account.

- b. Click on `Keys`

The screenshot shows the Google Cloud IAM console for a service account named 'workshop'. The 'KEYS' tab is selected, indicated by a red arrow. The page title is 'Service account details'. Below the title, there are two input fields: 'Name' with the value 'workshop' and a 'SAVE' button, and 'Description' with a 'SAVE' button.

- c. Select `Add Key` and click on `Create new key`

The screenshot shows the Google Cloud IAM console for the 'workshop' service account, with the 'KEYS' tab selected. A warning message is displayed: 'Service account keys could pose a security risk if compromised. We recommend you avoid download about the best way to authenticate service accounts on Google Cloud [here](#).' Below the warning, there is a section titled 'Keys' with instructions: 'Add a new key pair or upload a public key certificate from an existing key pair.' and 'Block service account key creation using [organization policies](#). [Learn more about setting organization policies for service accounts](#)'. At the bottom, there is an 'ADD KEY' button with a dropdown arrow. The dropdown menu is open, showing two options: 'Create new key' and 'Upload existing key'. A red arrow points to the 'Create new key' option. Below the dropdown, there is a table header with two columns: 'Key creation date' and 'Key expiration date'.

- d. Make sure the JSON key type is selected, then click on `Create`. This will download a JSON file. We will need it for the course. Please rename the file



`google\_credentials.json`

## Create private key for "workshop"

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

5. Collect your credentials from Kensu
  - a. Follow the steps on <https://docs.kensu.io/getting-credentials>