Apprien - Google Play Integration Guide

Introduction

This document describes how to enable integration between Apprien automatic pricing engine and Google Play.

Apprien - Google Play integration guide

To communicate with Google Play Services, Apprien API needs access to Google Play Console via a Google Cloud Platform Service Account.

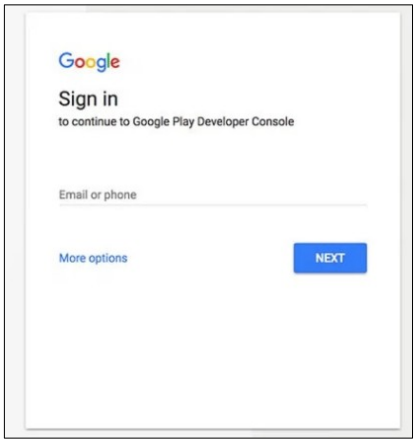
The service account access is granted to Apprien API with a Token Key, stored in JSON format.

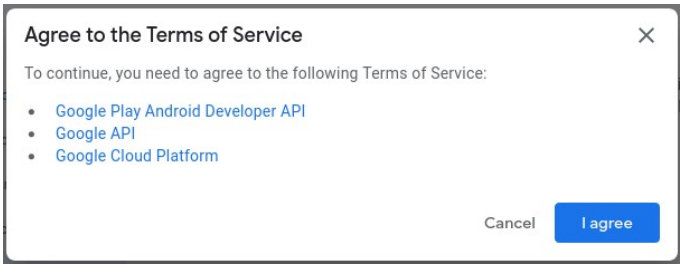
Creating a Service Account, granting access permissions and downloading the Google Access Key JSON-file

1. Log in to Google Play Console: https://play.google.com/console/

   - Note! You need to log in with your company's Owner-level Google Play Account. If you use another account (Editor-account), you can't create the required access tokens. Please find the main company founder/Account Owner level Google Play account.

   - Agree to the Terms of Service if prompted.

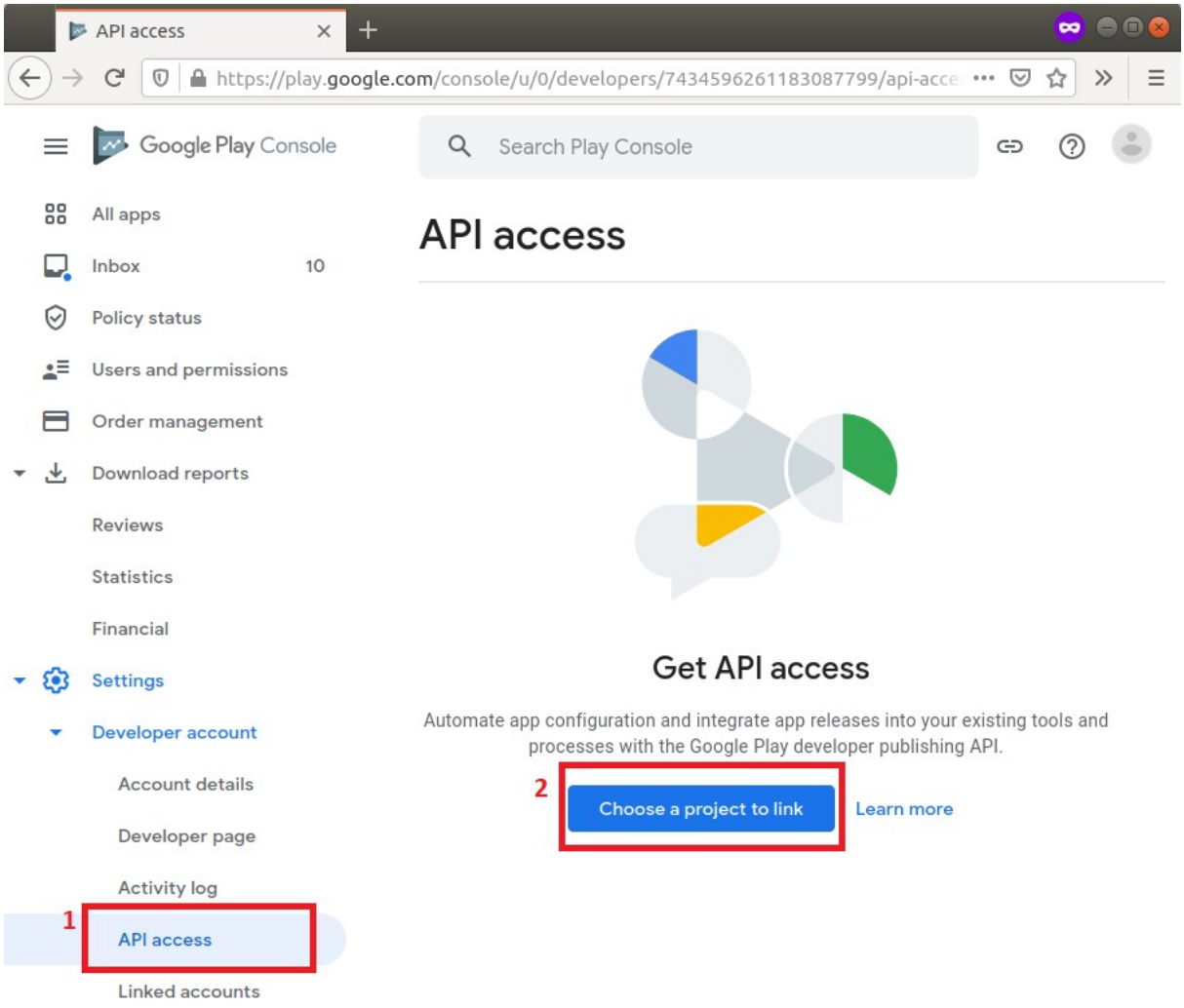




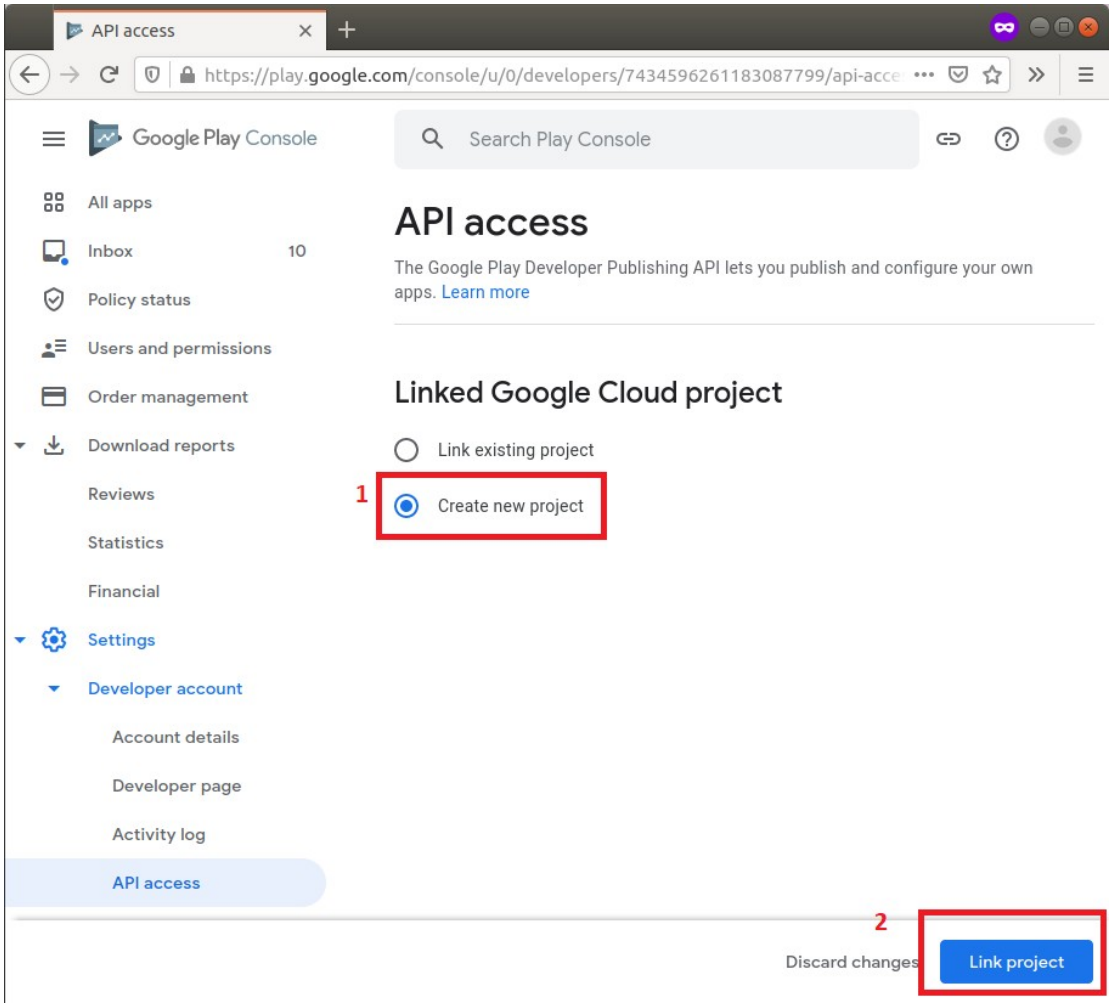
2. To link a Google Cloud Platform project to your Google Play Services account:
   2.1 In the left menu, navigate to **Settings→Developer account→"API access"**
   2.2 Click **"Choose a project to link"**

   - If you already have a project linked, just check the name of the project and make sure, you are creating service accounts on the same linked project in the later steps in Google Cloud Platform console.

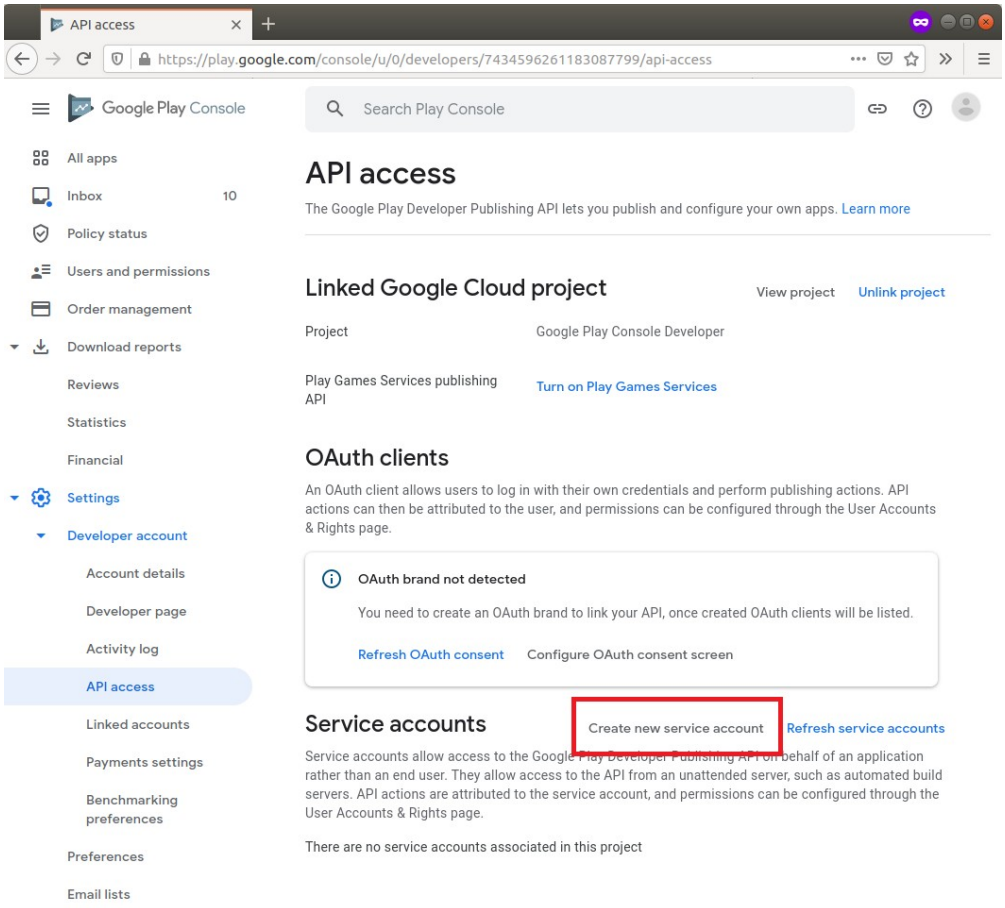
   - In this guide, the linked project name is "Google Play Console Developer"



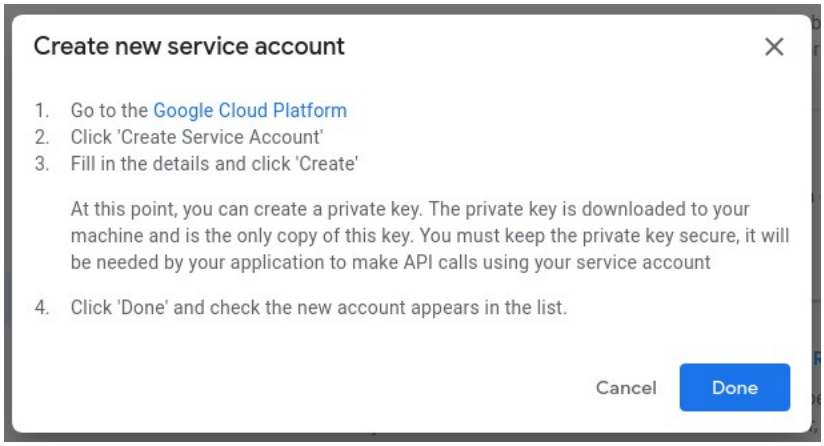
3. After creating the new project:
   3.1 Select **“Create New Project”**
   3.2 and Click **“Link Project”**



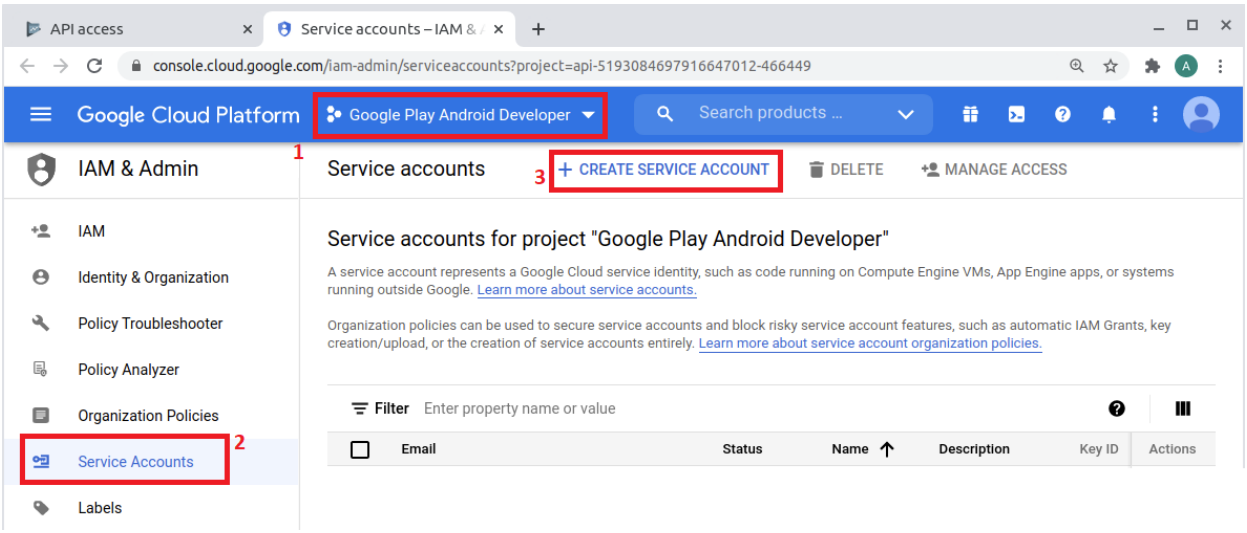
4. Click **“Create new service account”**



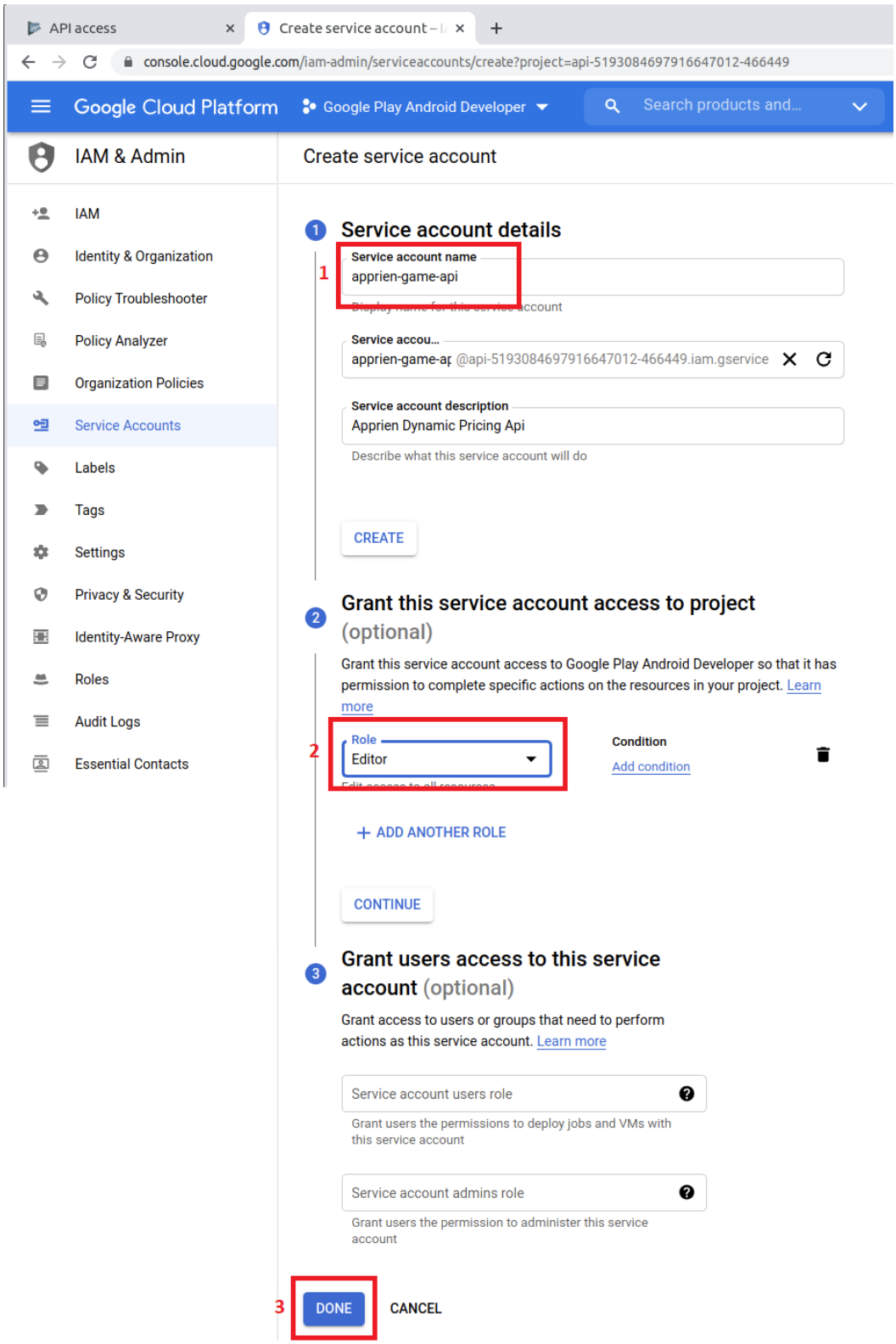
5. Click the **“Google Cloud Platform”** link or go to https://console.cloud.google.com/iam-admin/ on a new tab on your browser



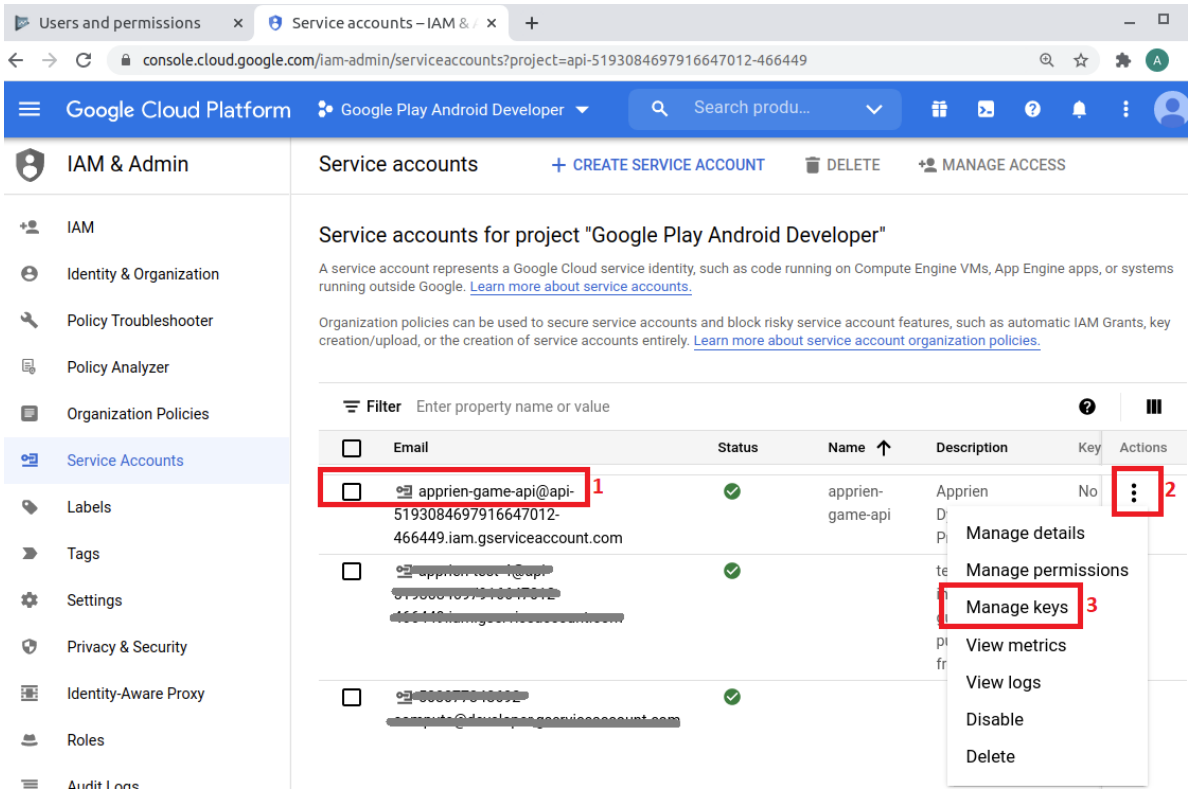
6. In the Google Cloud Platform dashboard, under ”IAM & Admin”
   6.1 Make sure you are **on the same linked project** that was linked in the Google Play Console in previous steps.
   6.2 On the left menu, navigate to **”Service Accounts”**
   6.3 Select **”+ CREATE SERVICE ACCOUNT”**



7. Enter service account details:
   7.1 Service account name: **“apprien-game-api”**
   7.2 Role: **“Editor”**
   7.3 Click **“Done”**

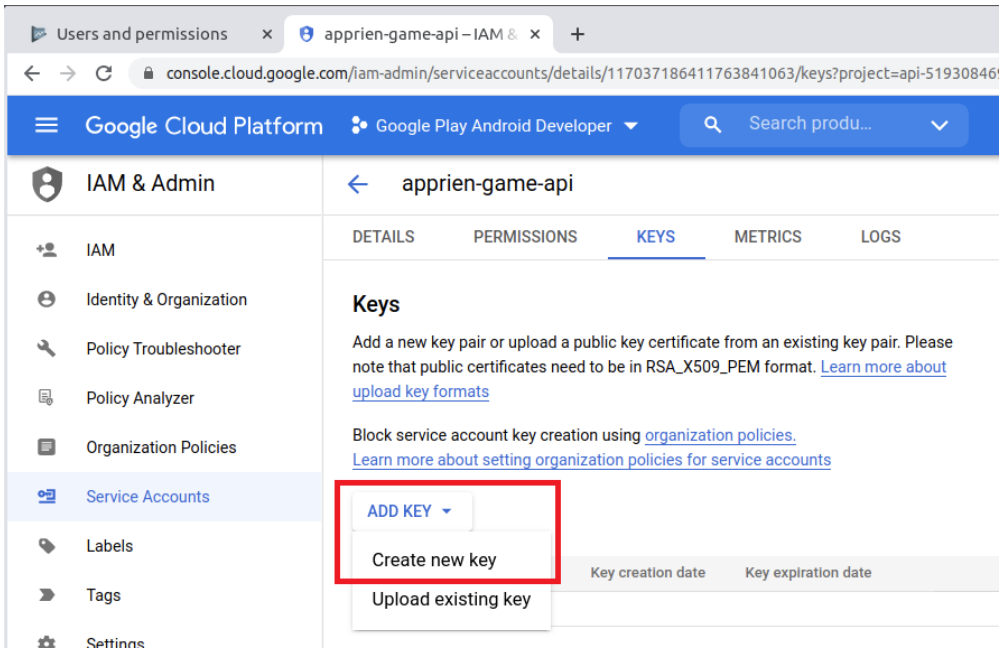


8. On the list of Service Accounts
   8.1 Find the “**apprien-game-api**@api-...”-row on the accounts list
   8.2 under “Actions”-column, click the **“:”-icon** on the row



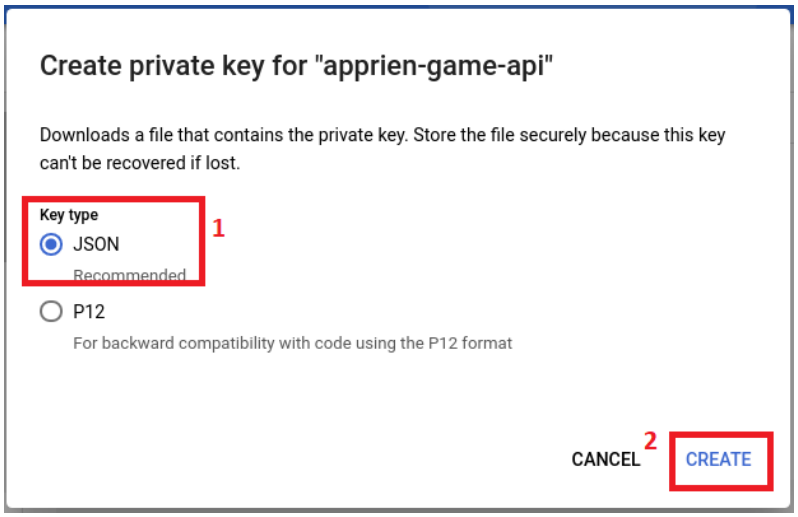
   8.3 select **“Manage keys”**

9. Select **“Add Key”** and then click **“Create new key”**

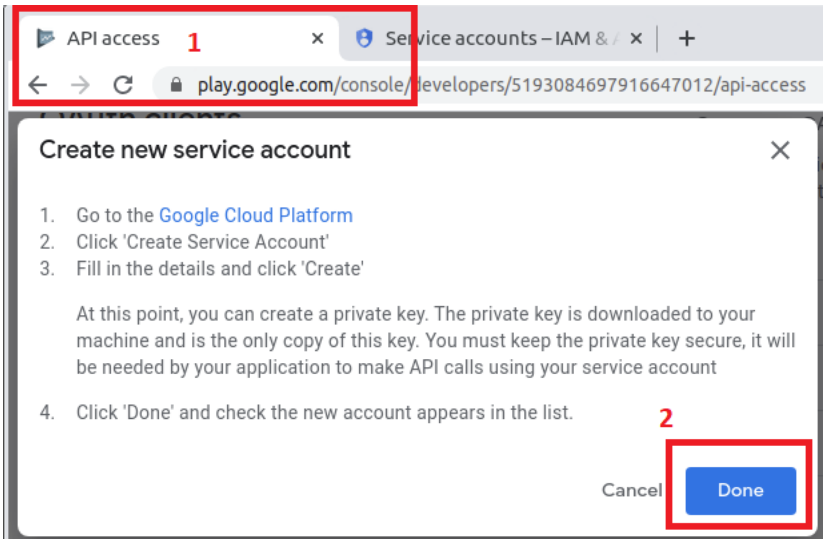


10. Select Key Type: **“JSON”** and click **“Create”**
    The JSON file will now be downloaded.

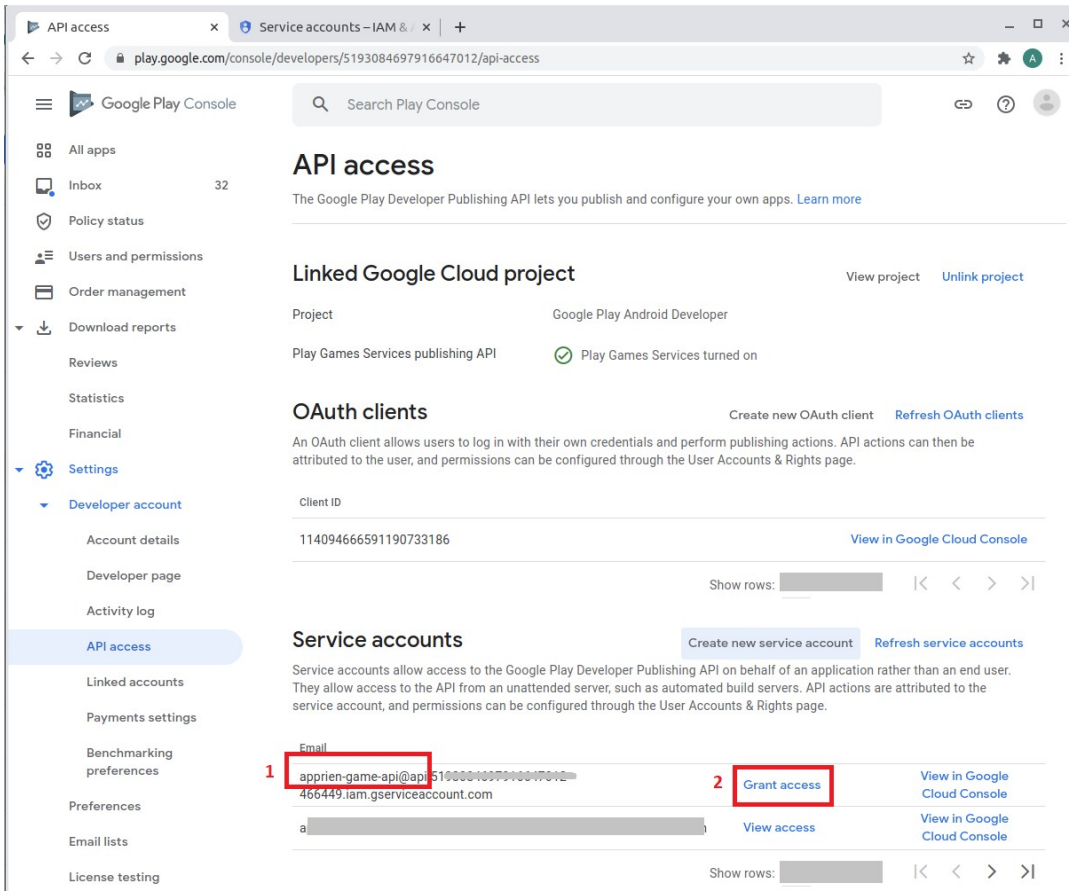
    Save the JSON-file on your device in safe location where you find it.
    This JSON file is needed by Apprien to communicate with Google API.



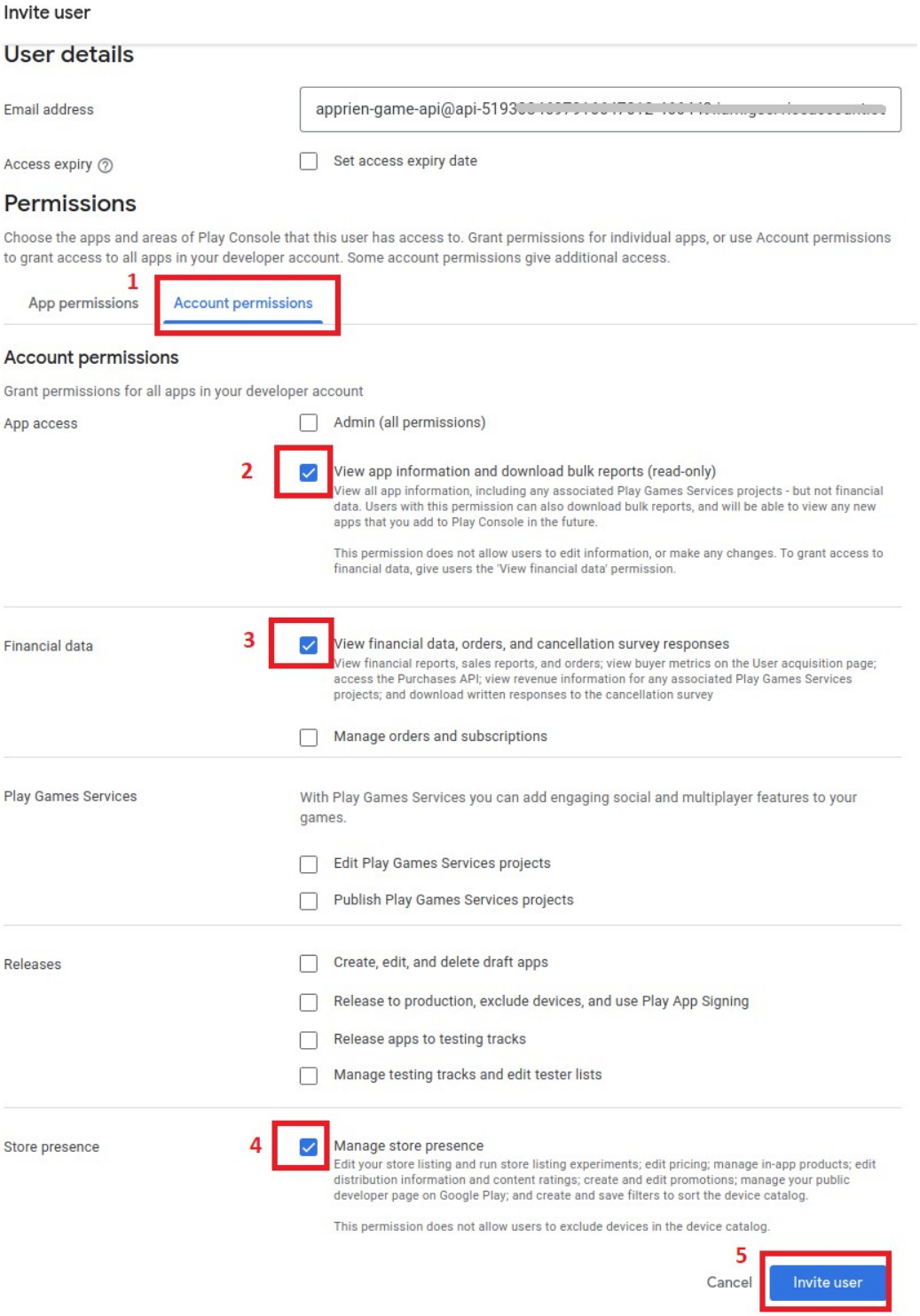
11. Navigate back to “**API Access**” tab on your browser or go to
    https://play.google.com/console/api-access .
    - Click “**Done”** if prompted



12. Under API access → Service accounts
    12.1 Find ”**apprien-game-api@...”-** account on the list
    12.2 Click **”Grant access”**



13. Under “Invite user” scroll down under “Permissions”:
    13.1 Select **”Account permissions”**
    13.2 App access → **View app information** and download bulk reports (read-only)
    13.3 Financial data → **View financial data**, orders and cancellation survey responses



Google Cloud Bucket ID

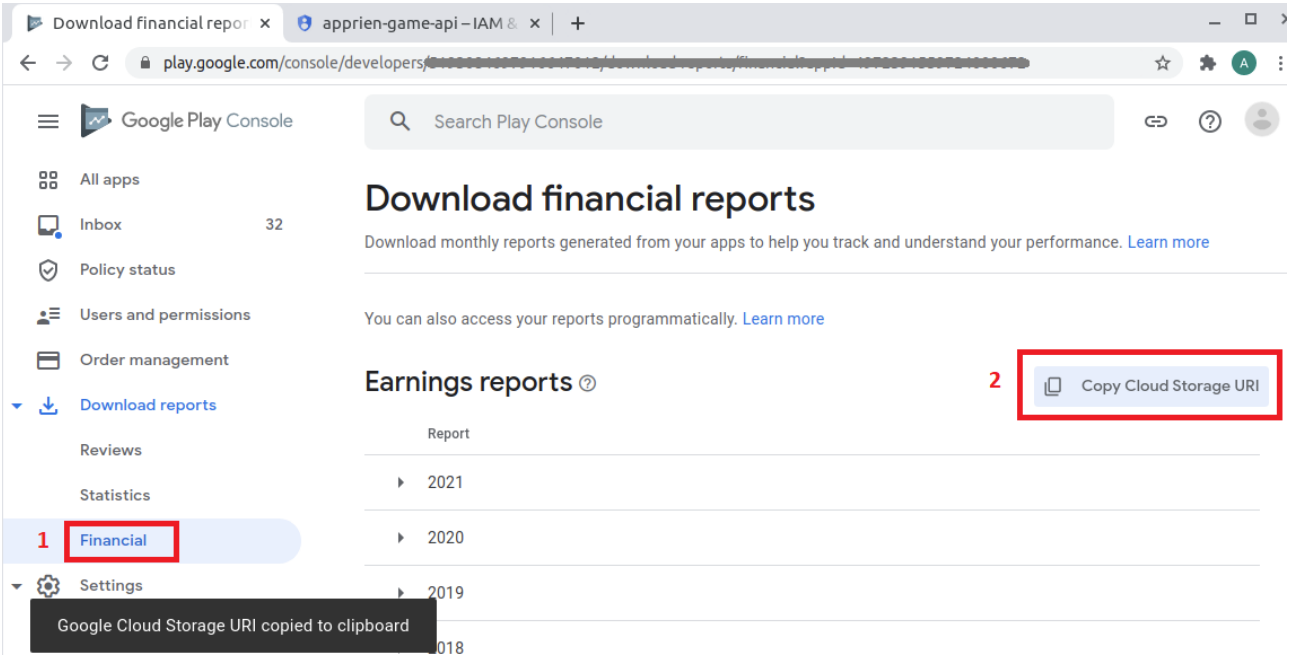
To read and analyze sales data, Apprien API needs the Bucket ID for **Earnings reports**.

In Google Play Console, navigate to **Download reports → Financial**
https://play.google.com/console/download-reports/financial

On right side of ”Earnings Reports”, Click the **”Copy Cloud Storage URI”**-link

- The Bucket ID is now on your clipboard, and you can Paste it to your preferred text editor and send to Apprien Support, or in the Apprien Dashboard.

- Your Bucket ID would be in the form ***”pubsite_prod_rev_12345...”***



Setting up Project in Apprien Dashboard (beta)

In order to configure dynamic pricing for each In-App Product, we need to open a new Game Project in the Apprien Dashboard.

Required information for Apprien setup:

- Google Token **JSON-file** downloaded on Step 10
- Financial Reports **Bucket ID** *'pubsite_prod_rev_12346...'*
- App/Game **Bundle ID** *'com.YourApp.bundle.id'* (note: case sensitive!)

Note: At this point the Apprien Dashboard in on Beta stage and Apprien team will prefer doing the set-up process for you before creating Apprien Dashboard account.

After going through the integration guide steps above, send the info listed above to Apprien team in a secure form (password encrypted zip or private message for example) so we can continue the setup process.

support@apprien.com

Configuring IAP Products in Apprien Dashboard (beta)

If you have your beta user account to Apprien Dashboard, you can setup the Apprien project and configure the IAP product items by going through the following steps:

Note: You will need: Apprien Account (granted by Apprien team: support@apprien.com)

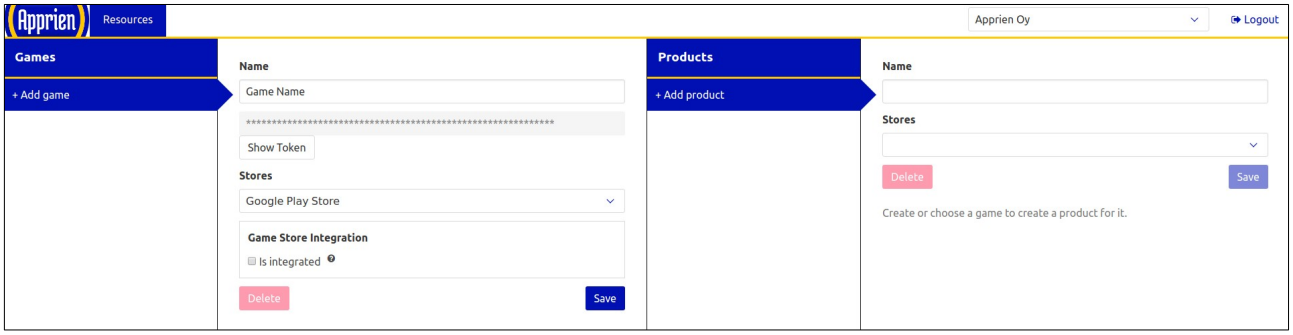
Register/Login your company account on https://dashboard.apprien.com

The Registration Wizard will create two accounts and one team:
i) Your personal account, which will be the ”admin/owner account” for your game company
ii) Company account
iii) Admin Team for your company. The personal account is assigned as the ”team manager”.

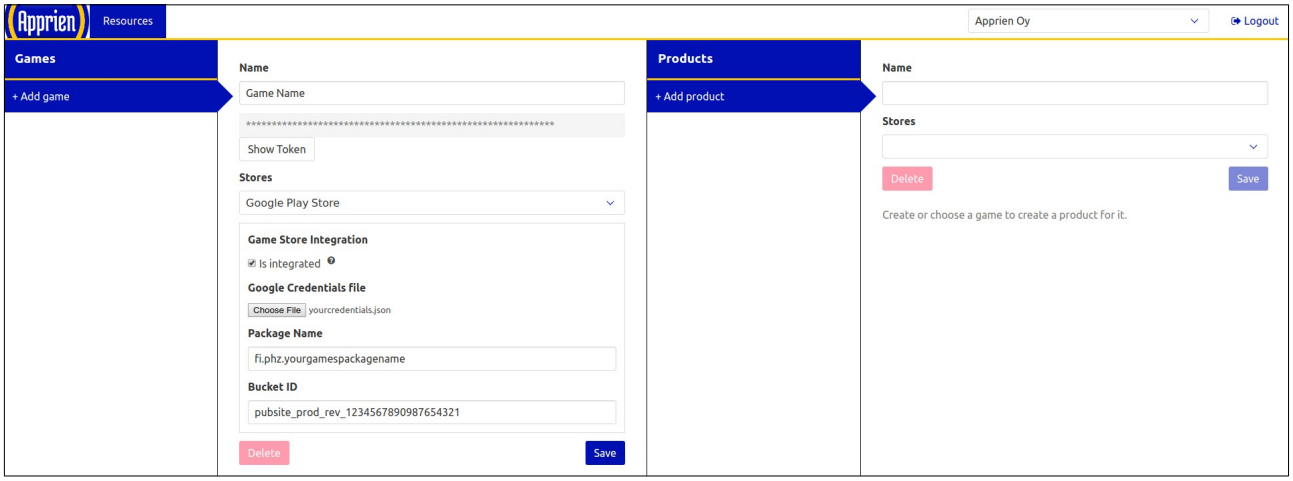
You can later invite more people to the Admin Team.

Log in to https://dashboard.apprien.com

1. On the “Resources” view
   1.1 Click “+ Add Game”
   1.2 Fill Game Name -field
   1.3 Click the **”Is Integrated”** checkbox to check it

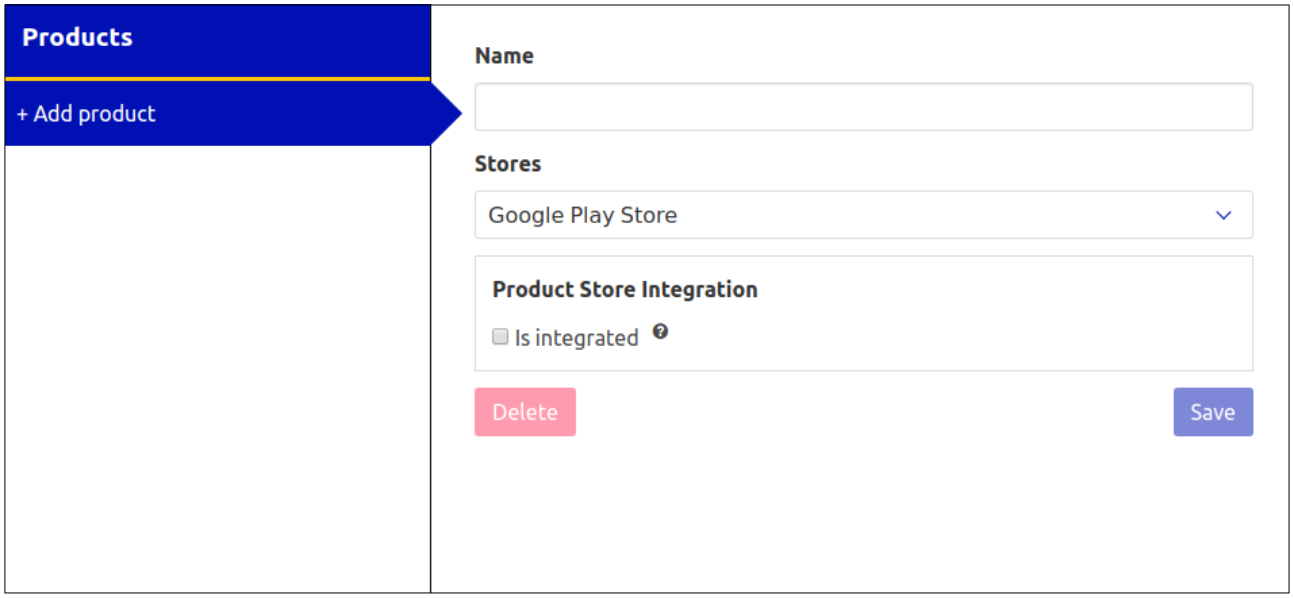


2. After checking the checkbox, you will see additional fields that you'll need to fill:
   2.1 Add Your Game's **Google Credentials file** by choosing the **Google API JSON** credentials file from Your filesystem
   2.2 Package Name: Enter the bundle id of your App/Game: (this is case sensitive)
   2.3 Bucket ID: Enter the earnings reports **Bucket ID** copied from google play in previous integration steps
   2.4 Click **"Save"**



Add IAP Products to Apprien Dashboard

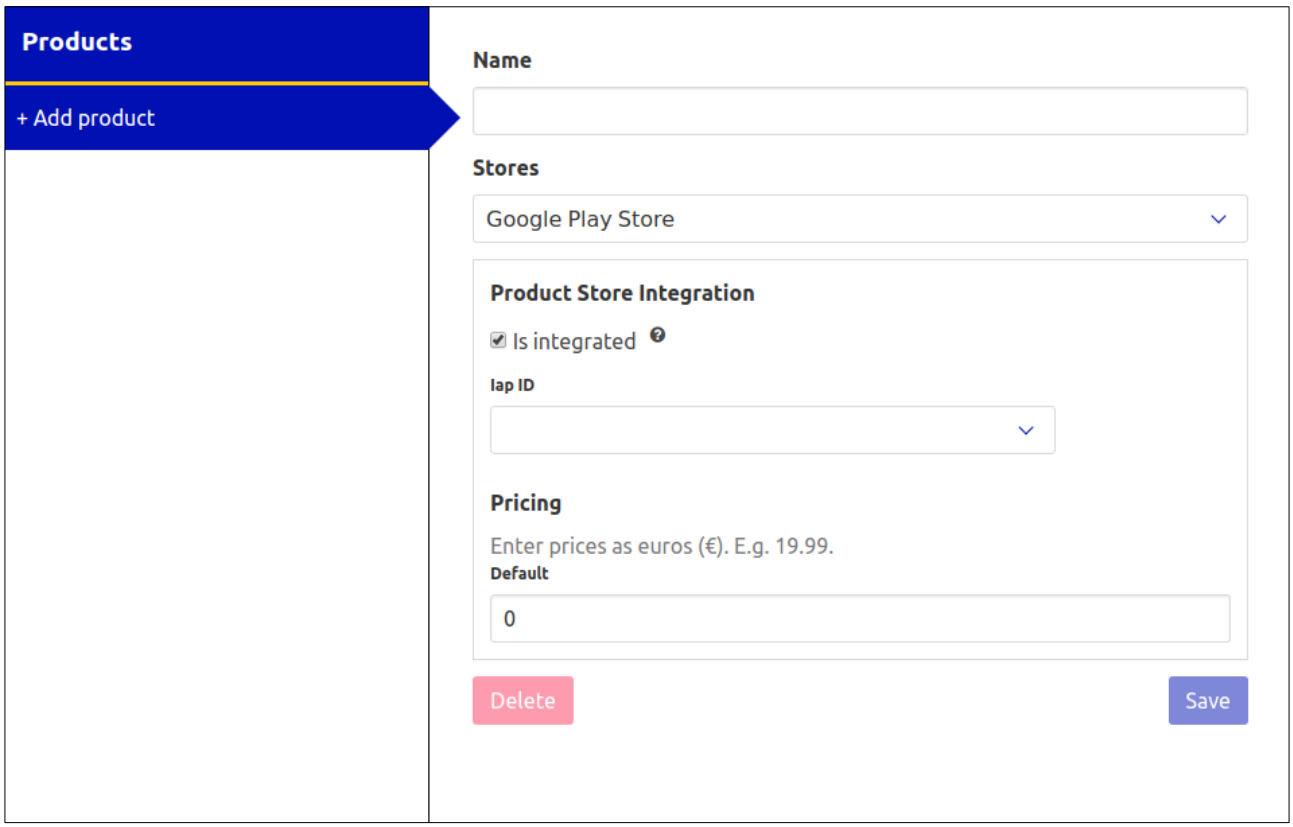
1. Navigate to **"Resources -> Products"**
   1.1 Select **"+Add Product"**
   1.2 Fill in the Product's name
   1.3 Stores-menu should now show Google Play Store



1.4 Select “**Is integrated”** checkmark to continue

2. Select the corresponding Google Play IAP for the product in the **“Iap Id”** dropdown

   Note: if the dropdown does not show google play iap products, the apprien dashboard needs to sync data from Google Play. -> Select “Sync” to start synchronization process.



Test Users

Apprien Team is happy to help you out in testing out the integration. To enable us to test your game, there are two test permissions that needs to be enabled from Google Play Console.

1) Download Test Builds

For the Apprien test team to able to help you with testing, and to download test builds, please add the following Apprien test users to test users:

antti.j.hatinen@gmail.com
phz@phz.fi
support@phz.fi

2) Test IAP purchases with Test Card

To enable IAP purchase testing please set the users to be able to purchase IAPs with a test credit card without real money.

All Applications → Settings

License Testing
antti.j.hatinen@gmail.com
phz@phz.fi
support@phz.fi

Debugging

Google has provided example code how to debug the Google APIs by using e.g. a Python client.

See https://support.google.com/googleplay/android-developer/answer/6135870?hl=en

Here is an example fetchReports.py

```
# Setup
# pip install --upgrade google-api-python-client
# pip install oauth2client==1.5.2

import json
from httplib2 import Http
from oauth2client.client import SignedJwtAssertionCredentials
from apiclient.discovery import build

# Change these variables to fit your case
client_email = 'apprien-test@myproject.iam.gserviceaccount.com'
json_file = 'myservicekey.json'
cloud_storage_bucket = 'pubsite_prod_rev_02603822452123456789'
report_to_download = 'earnings/earnings_201803_57696733075-42.zip'

private_key = json.loads(open(json_file).read())['private_key']
credentials = SignedJwtAssertionCredentials(client_email, private_key,
'https://www.googleapis.com/auth/devstorage.read_only')
storage = build('storage', 'v1', http=credentials.authorize(Http()))

print storage.objects().list(bucket=cloud_storage_bucket).execute()
#print storage.objects().get(bucket=cloud_storage_bucket,
object=report_to_download).execute()
```

Troubleshooting

Here are the descriptions of the typical problems found during the integration, and solutions found.

Cannot find Create Service Account -link

You need to use Google Play Owner account, and you current privileges might be inssuficient. Ask from your organization who has the Owner -account permissions to Google Play Developer Console and provide this document to the relevant person.

Fail to create SKU variants

Solution: You need to click **Grant Access** on Steps 9-10.

403 Forbidden - Fetching Google Sales Reports

(Python) Google API client returns:
<HttpError 403 when requesting
returned "apprien-test@myproject.iam.gserviceaccount.com does not have storage.objects.list access to pubsite_prod_rev_02603822452123456789.">

Solution: Missing View app information -permission

You are missing the **View app information** -permission. See Step 10.

403 accessNotConfigured - Google Play Android API is not enabled

Google API returns

```
<HttpError 403 when requesting
returned "Access Not Configured. Cloud Storage JSON API has not been used in
project 254746224709 before or it is disabled. Enable it by visiting
https:\/\/console.developers.google.com\/apis\/api\/storage-
api.googleapis.com\/overview?project=254746224709 then retry. If you enabled
this API recently, wait a few minutes for the action to propagate to our
systems and
retry.","extendedHelp":"https:\/\/console.developers.google.com\/apis\/
api\/storage-api.googleapis.com\/overview?project=254746224709
">
```

Solution: You need to enable Google Play Android API from Google API management.

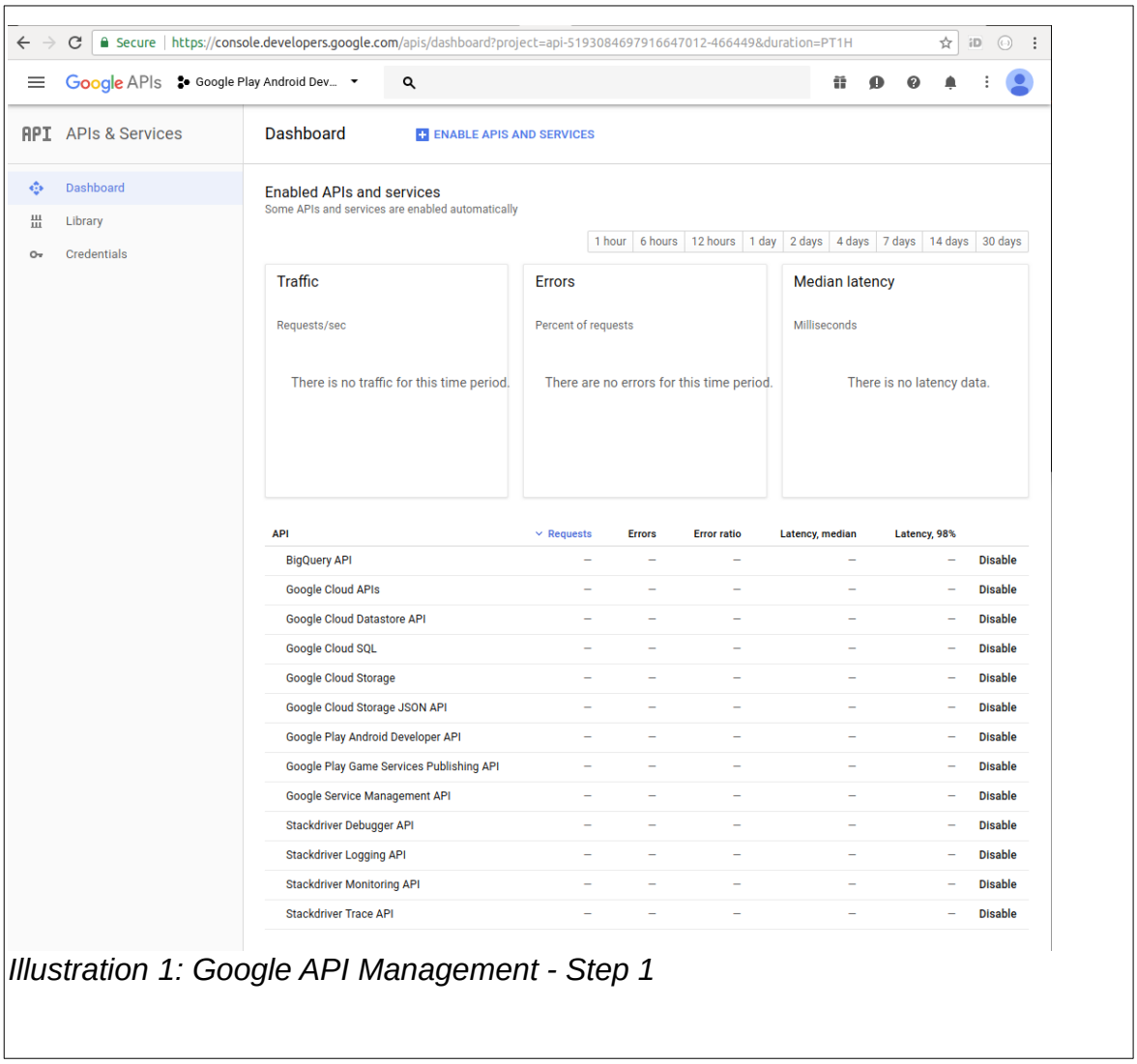


Illustration 1: Google API Management - Step 1

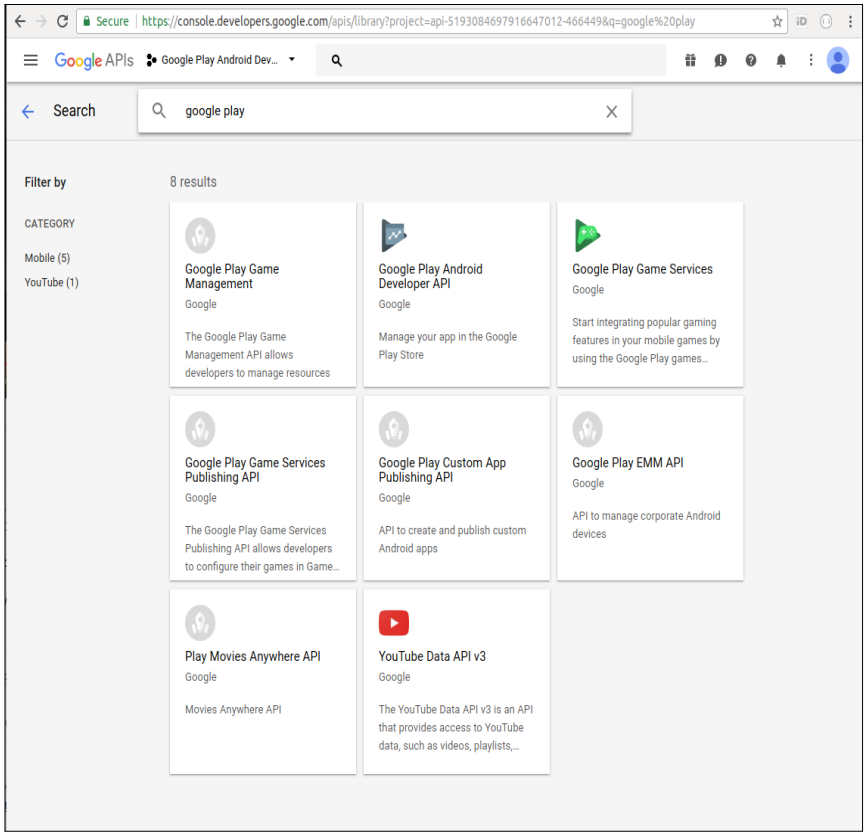


Illustration 2: Google API Management - Step 2

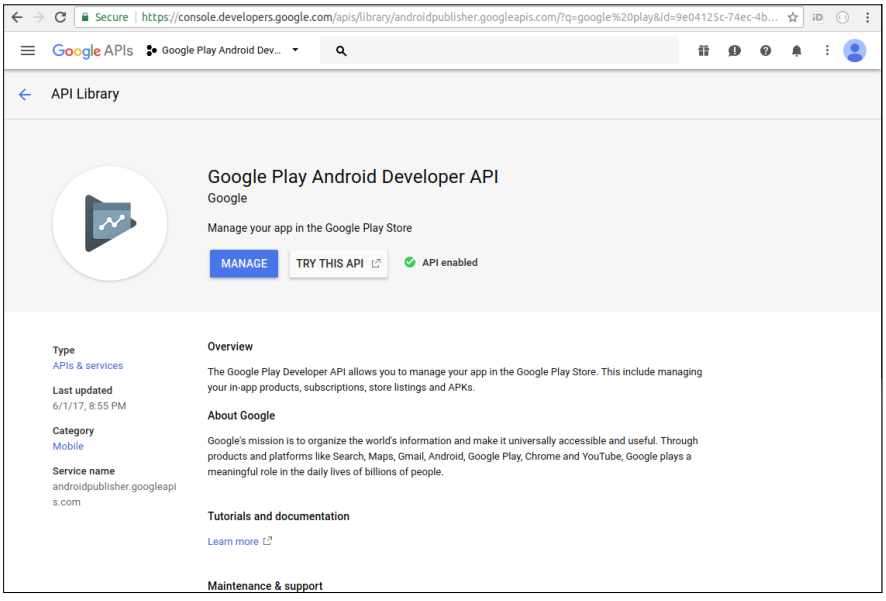


Illustration 3: Google API Management - Step 3

Support

Apprien Support Staff are more than happy to help you with any problems. Please contact our technical support 24/7

by email

support@apprien.com

by web

https://support.phz.fi

by phone

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