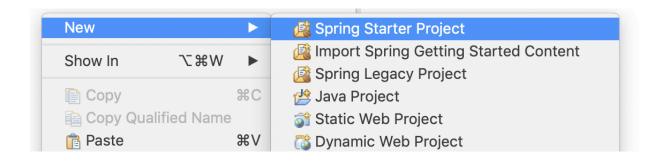
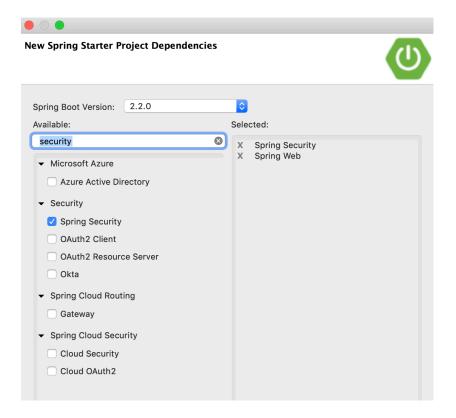
# Create a Spring Boot Application to Authenticate using OAuth via Google Provider

1. Create a Spring Boot application using Spring Boot Starter



2. Add Web & Security modules



3. Add the following dependencies in **pom.xml** for **OAuth2** integration

4. Add the following properties in **application.properties** and observe the *MAGIC* when you RUN the APP

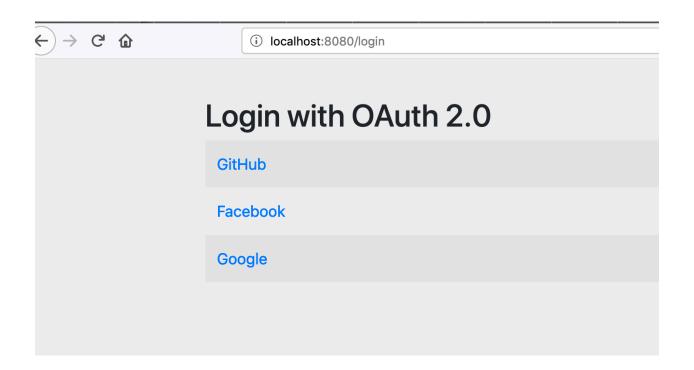
```
#Google app details
spring.security.oauth2.client.registration.google.client-
id=<vour client id>
spring.security.oauth2.client.registration.google.client-
secret=<your client secret>
#Facebook app details
spring.security.oauth2.client.registration.facebook.client-
id=<vour client id>
spring.security.oauth2.client.registration.facebook.client-
secret=<your client secret>
#Github app details
spring.security.oauth2.client.registration.github.client-
id=<vour client id>
spring.security.oauth2.client.registration.github.client-
secret=<your client secret>
#Spring MVC details
spring.mvc.view.prefix: /WEB-INF/views/
spring.mvc.view.suffix: .jsp
spring.mvc.static-path-pattern=/resources/**
```

#### 5. RUN the APP

## 

Here, we declare **two properties** for each provider. We will be implementing the **Google provider**, but you can add any number of providers.

Just adding these properties will create more magic, and your login page will suddenly change to the following:

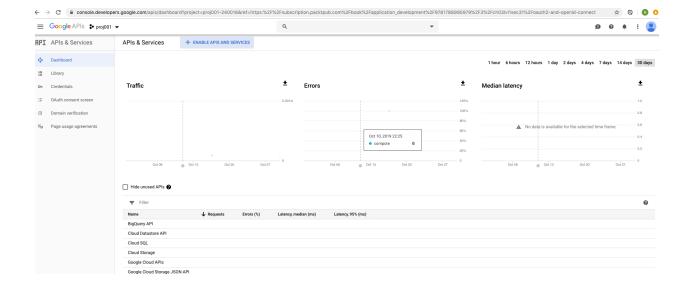


# Google Provider setup

6. We will be using Google as our provider in this example. Navigate to <a href="https://console.developers.google.com/">https://console.developers.google.com/</a> and perform the following steps:



7. Login with your google credentials and you will see the following google console page



8. Click on Project Name next to Google APIs icon

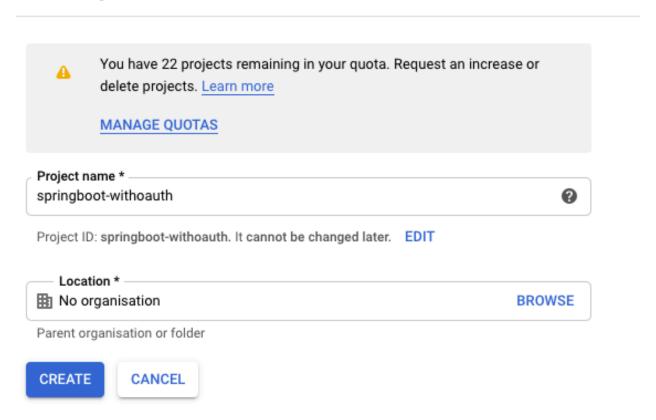


9. Click on **NEW PROJECT** button

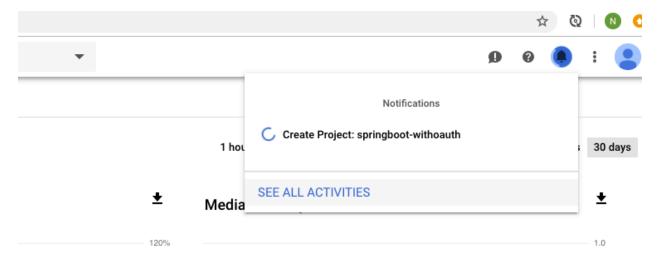


## 10. Enter the Project Name and click on **CREATE** button

# New Project



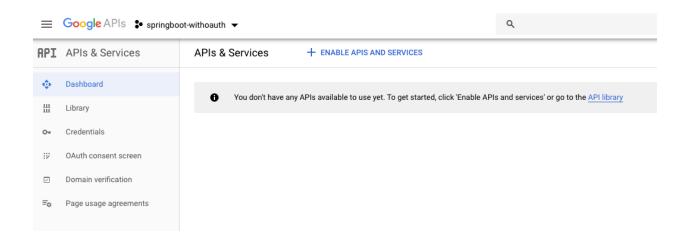
# Project creation in progress



11. Click on the Project Name next to Google API link and select the newly created Project **springboot-withoauth**:



12. You will see this default screen for the new project



#### 13. Click on the Credentials link on the side menu

#### APIs

#### Credentials

You need credentials to access APIs. Enable the APIs that you plan to use and then create the credentials that they require. Depending on the API, you need an API key, a service account or an OAuth 2.0 client ID. For more information, see the authentication documentation.

Create credentials

#### APIs

#### Credentials

You need credentials to access APIs. Enable the APIs that you plan to use and then create the credentials that they require. Depending on the API, you need an API key, a service account or an OAuth 2.0 client ID. For more information, see the authentication documentation.

#### Create credentials \*

#### API kev

Identifies your project using a simple API key to check quota and access.

#### OAuth client ID

Requests user consent so your app can access the user's data.

#### Service account key

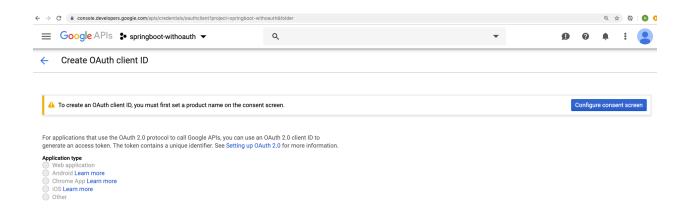
Enables server-to-server, app-level authentication using robot accounts.

#### Help me choose

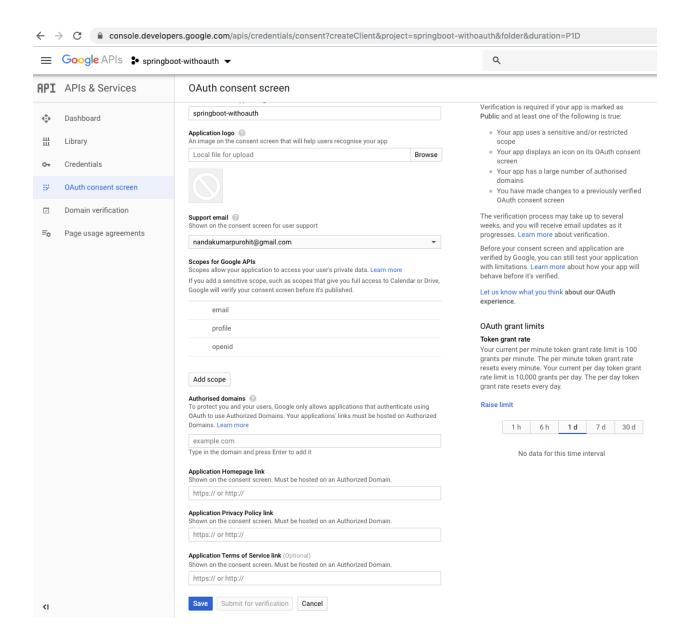
Asks a few questions to help you decide which type of credential to use

14. From the drop-down menu, click on **OAuth client ID**. This will navigate you to the page shown in the following screenshot. Please note that the **Application** type radio group will be disabled at this stage:

Click on the **Configure Consent Screen** button on the following screen



15. Enter the relevant details (*leave the optional* fields out while filling in the form), as shown in the preceding figure, and click on the Save button.



16. Enter the relevant details (leave the optional fields out while filling in the form), as shown in the preceding figure, and click on the Save button.

You will be navigated back to the page shown in the following figure.

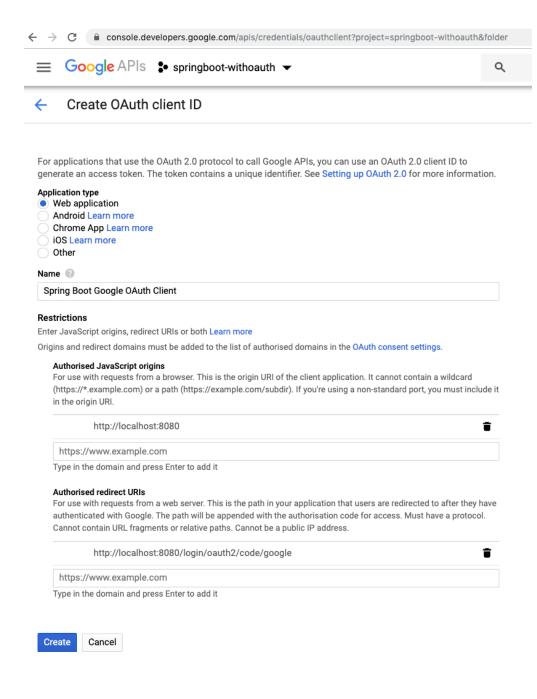
This time the Application Type is enabled.

Name = Spring Boot Google OAuth Client

Authorised JavaScript origins = http://localhost:8080

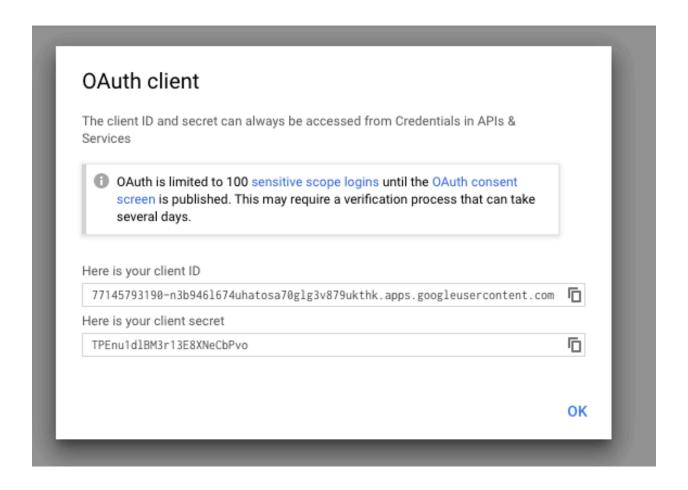
Authorised redirect URIs = http://localhost:8080/login/oauth/code/
google

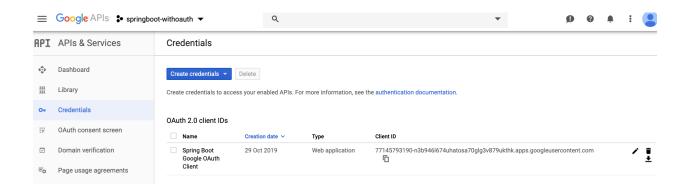
17. Then, click on **Create** button



18. You will see a following screen with a confirmation on OAuth Client ID and Client Secret code generation.

Click on OK



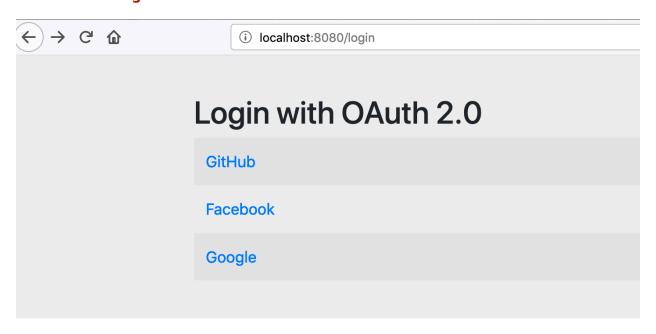


19 Copy and Paste these credentials in your application.properties for Google account

# #Google app details

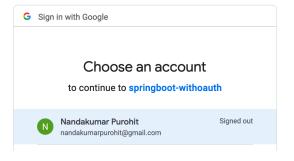
spring.security.oauth2.client.registration.google.clientid=<your-generated-client-id>
spring.security.oauth2.client.registration.google.clientsecret=<your-generated-client-secret>

# 20. RUN the APP Click on Google link

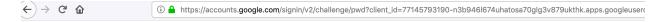


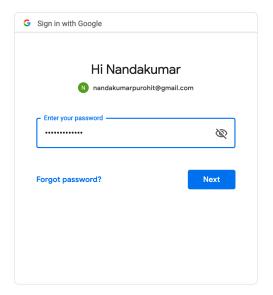
## 21. You will be redirected to Google login page





### 22. Login with your Google credentials





23. Observe that you get the following response



# **Spring Security OAuth and OIDC Google Sample**

Welcome 118164094545438500238 into Spring Boot LDAP managed user using BASIC authentication.