OAuth 2.0 – Google API V3

1. OAuth 2.0 explanation

https://developers.google.com/api-client-library/python/guide/aaa_oauth#oauth

Steps to perform on the google side:

- Go to the Google Developers Console
 (https://console.developers.google.com/) and login with any google user (you can use any google account but I'm using here the Calendar user as well).
- 2. Create a new project. You can call it **openhab**.
- 3. Under the project that you have just created, in the sidebar on the left, expand **APIs & auth**. Next, click **APIs**. In the list of APIs, make sure the status is **ON** for the Calendar API.
- 4. In the sidebar on the left, select **Consent screen**, fill **PRODUCT NAME** with the value **openhab_jcal** and select **Email address**. Save the form (**PRODUCT NAME** is not required to be **openhab_jcal** but this will be the name on the consent page).
- 5. Once the form is saved, you will get a dialog to create a Client ID. If you didn't get the dialog automatically (browser dependent), In the sidebar on the left, select **Credentials** and on the right press **Create new Client ID**
- 6. Application type should be Installed application and Installed application type should be Other (See picture below)

	OAuth	
kuku Overview	OAuth 2.0 allows users to share specific data with you (for example, contact lists) while keeping their usernames, passwords, and other information private.	Create Client ID
Permissions Billing & settings	Learn more	Web application Accessed by web browsers over a network.
APIs & auth	Create new Client ID Public API access	Service account Calls Google APIs on behalf of your application instead of an end-user.
Credentials		Installed application Runs on a desktop computer or handheld device (like Android or iPhone).
Push	Use of this key does not require any user action or consent, does not grant access to any account	INSTALLED APPLICATION TYPE
Source Code	information, and is not used for authorization.	Chrome Application Learn more
Compute Storage	Create new Key	PlayStation 4 Other
Big Data		Create Client ID Cancel
Support		
Need help?		

- Press Create Client ID
- 9. Once the Client ID was created, press **Download JSON** and save the file on your machine.

	OAuth OAuth 2.0 allows users to share specific data with you (for example, contact lists) while keeping their	Client ID for native application		
		CLIENT ID	••••••••••••••••••••••••••••••••••••••	
	usernames, passwords, and other information private.	CLIENT SECRET		
ıgs	Create new Client ID	REDIRECT URIS	um:ietf:wg:oauth:2.0:oob http://localhost	
		Reset secret Down	load JSON Delete	

Steps to perform with the command line(TBD):

- 1. Call getAuthURL and provide the location of the ***.json** you downloaded from the **Google Developers Console**
- 2. You will see the Authorization Url printed to the console.
- 3. Copy the URL to your favorite browser.
- 4. You will be asked to login with the Calendar google user
- 5. From there you will be redirected to a consent page with the application name you defined previously in the **Google Developers Console** asking for permission to access your Calendar.
- 6. Press Accept and you will be redirected to a page containing a code.
- 7. Copy this code and go back to console.
- 8. Call getUserCredentials command and provide both the code, the location where you want the client credentials to be saved and the path to the *.json file.
- 9. If all goes well and you receive no error, you will see a file created in the location you specified in step 8.
- 10. In openhab config you will have to specify the location of the json file (client secrets) ,the folder holding the client credentials and the calendar ID in case you are not using the default.