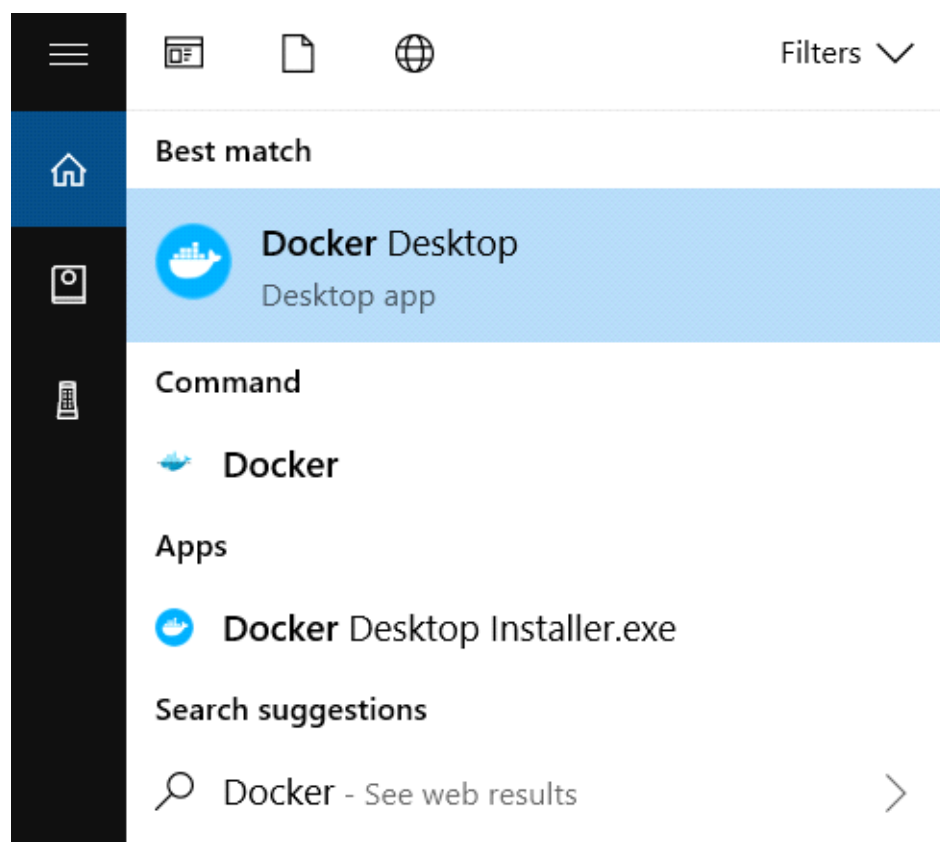


The goal of this project is to access a Gmail account and download a specific email, considering an email address and a text on the link inside of the email body, to do so we create a python script where you to specify an hour on the **config.json** where the script will run daily and write the files inside the folder specified also in the config file.

### Installing Docker Desktop

- Double-click Docker Desktop Installer.exe to run the installer. If you haven't
- already downloaded the installer (Docker Desktop Installer.exe), you can get it from Docker Hub ( <https://hub.docker.com/editions/community/docker-ce-desktop-windows> ) . It typically downloads to your Downloads folder, or you can run it from the recent downloads bar at the bottom of your web browser.
- Follow the instructions on the installation wizard to authorize the installer and proceed with the installation.
- When the installation is successful, click Close to complete the installation process.
- If your admin account is different from your user account, you must add the user to the docker-users group. Run Computer Management as an administrator and navigate to Local Users and Groups > Groups > docker-users. Right-click to add the user to the group. Log out and log back in for the changes to take effect.
- Docker Desktop does not start automatically after installation. To start Docker Desktop:



- Check if docker is enabled on terminal for that run `docker -version` on it:

```
C:\Users\gusta>docker -v
Docker version 20.10.12, build e91ed57

C:\Users\gusta>
```

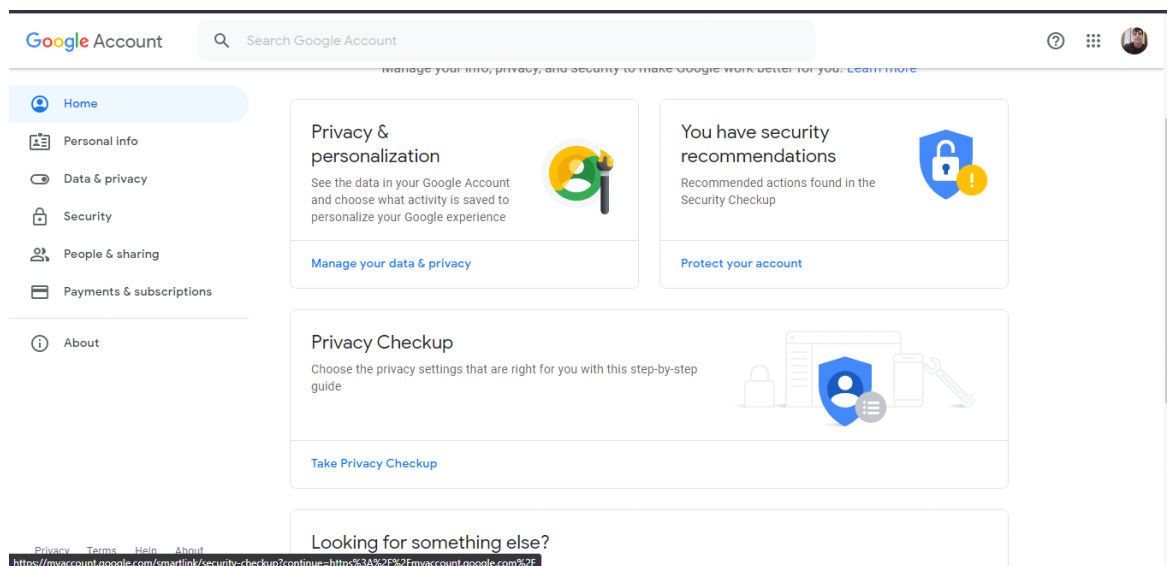
### **Data Directory**

The code saves the files inside the directory **C:\data**, so we have to create this directory so that is possible to map it inside the docker container and allow to save the files in it.

### **Gmail App Password**

Make sure your normal gmail account two factor authentication is enabled for your security. Now you need to create an app password, so that is possible for the application to login into your Google Account.

- Enter on your google account configuration panel, which should be similar to the following image.



- After that click on security on the sidebar menu and then should see the following screen.


Google Account

Home  
Personal info  
Data & privacy  
**Security**  
People & sharing  
Payments & subscriptions  
About

## Security

Settings and recommendations to help you keep your account secure

**You have security recommendations**  
Recommended actions found in the Security Checkup



[Protect your account](#)

**Recent security activity**

App password created	Dec 27 · State of Rio de Janeiro, Brazil	>
App password created	Dec 23 · State of Rio de Janeiro, Brazil	>
App password removed	Dec 23 · State of Rio de Janeiro, Brazil	>

[Privacy](#) [Terms](#) [Help](#) [About](#)  
<https://myaccount.google.com/notifications?origin=3>

- Then find the signing into Google part, there we can create the app password.

Google Account

Search Google Account

Home

Personal info

Data & privacy

Security

People & sharing

Payments & subscriptions


About

App password removed

Dec 23 · State of Rio de Janeiro, Brazil

Review security activity (5)

Signing in to Google



Password

Last changed Oct 29, 2014

2-Step Verification

On

App passwords



2 passwords

- Now click on the app passwords line, after that will show the following screen, then fill the form on select app put **Mail** and in select device put **Windows Computer**, then click on Generate.

## ← App passwords

Verification. You'll only need to enter it once so you don't need to remember it. [Learn more](#)

Your app passwords

Name	Created	Last used	
E-mail no meu Computador Windows (2)	Dec 27	Dec 27	
E-mail no meu Computador Windows	Dec 23	Dec 23	

Select the app and device you want to generate the app password for.

Mail ▼ Windows Computer ▼

**GENERATE**

- The following pop-up will open copy the password that is generated in the yellow box, like the image.
- **Do not follow the 'how to use it' instructions from google**

## Generated app password

Your app password for Windows Computer

hjeb dnkq mosp lybi

### How to use it

1. Open the "Mail" app.
2. Open the "Settings" menu.
3. Select "Accounts" and then select your Google Account.
4. Replace your password with the 16-character password shown above.

Just like your normal password, this app password grants complete access to your Google Account. You won't need to remember it, so don't write it down or share it with anyone.

[Learn more](#)

DONE

## Run the Project

- You have to create inside the root folder of the project the **config.json** file, where we put some parameters that may change, file must have the following structure.

```
{
  "email_searched": "no-reply@globalforestwatch.org", # email address that will be searched
  "exec_time": "06:22", # hour and minute that script will be executed daily
  "file_name": "file", # name that will be use when writing the file
  "p_gmail": "123", # email password
  "u_gmail": "xxx@gmail.com", # user gmail account that we be used to login
  "find_word": "(.CSV)", # word that should be used to find the url on the email content;
  "write_path": "C:\\directory\\write\\file\\" # directory to write the csv file;
}
```



this type of file is a key and value, you don't need to add the part in red it is just a comment that I added to explain when the parameter is used. **You have to use the write\_path as `"/data/"`, because docker use it to map from container to you machine.**

- “**exec\_time**” informed above is when the script will access your email, find the ones that match with the requirements, and try to download, he will only do it daily on this specific time.
- We create a log file to write what is happening is easier to understand and to debug, the code writes the py-gmail.log file inside the directory **C:\data**.
- For every try to download the file, the system will retry **10 times** and wait **1 minute** between the calls.
- **Do the following steps to run de project**

- Check if Docker is running

- Generate the Gmail app password if needed

- To run the project first you have created the `config.json`

- Run the `run.bat` script

- If you want to change the write directory you have to change the run.bat in the following line 7:

```
docker run -d -v c:/data:/data py-gmail-app
```

the part marked on red is that defines where on your local machine will map `/data/` this folder is where the container write the csv file, and in will write it on your machine directory.