

## Purpose

This document outlines how to use the galaxy API to upload data to a history. This method uses the bioblend python package to facilitate the communication with the galaxy API.

Details for bioblend can be found here:

[https://bioblend.readthedocs.io/en/latest/api\\_docs/galaxy/docs.html](https://bioblend.readthedocs.io/en/latest/api_docs/galaxy/docs.html)

<https://pypi.org/project/bioblend/>

## Setup

### Python Configuration

Install python 3.9 or above. Recommend using a virtual environment. Install the packages in the requirements.txt. Create a requirements.txt file with the following python packages or download the requirements.txt and script from [here](#) (unzip the package):

```
aiohappyeyeballs==2.6.1
aiohttp==3.12.15
aiosignal==1.4.0
attrs==25.3.0
bioblend==1.6.0
certifi==2025.8.3
charset-normalizer==3.4.3
frozenlist==1.7.0
idna==3.10
multidict==6.6.4
propcache==0.3.2
PyYAML==6.0.2
requests==2.32.5
requests-toolbelt==1.0.0
tinydb==4.8.2
tuspy==1.1.0
typing_extensions==4.14.1
urllib3==2.5.0
yarl==1.20.1
```

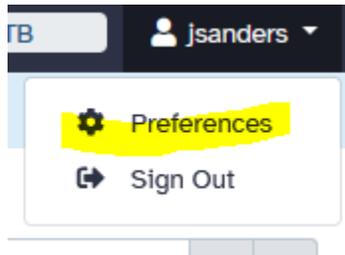
Then install the packages (within the virtual environment):

```
pip3 install -r requirements.txt.
```

## Galaxy API Key

You will need to setup an API key in galaxy using the following instructions.

- Login to the galaxy instance
- Click on preferences under your user profile



- Click Manage API key

## User preferences

You are signed in as **james.sanders@fda.hhs.gov** and you are using **100.3 MB** of disk quota is: **3.0 TB**.

-  **Manage Information**  
Edit your email, addresses and custom parameters or change your public name
-  **Change Password**  
Allows you to change your login credentials.
-  **Manage Toolbox Filters**  
Customize your Toolbox by displaying or omitting sets of Tools.
-  **Set Dataset Permissions for New Histories**  
Grant others default access to newly created histories. Changes made here
-  **Manage API Key**  
Access your current API key or create a new one.
-  **Manage Notifications**

- Create and save the key

## Script Usage

Provided is a script that can list your histories and upload a set of files to the specified history. The script and python required library requirements.txt file can be downloaded from [here](#). Example usage:

- List Histories. Replace apikey with API key generated previous step.

```
python gtupload.py --galaxy_url https://galaxytracr.org --api_key apikey --action  
list_histories
```

- Upload data. Replace apikey with API key generated previous step and a history id in your account. For --files specify the path to the files.

```
python gtupload.py --galaxy_url https://galaxytracr.org --api_key apikey --action upload --  
history_id "56dfceb94881c7a4" --files "file1" "file2"
```

- It is also possible to upload multiple files at a time that are in a folder like the following:

```
python gtupload.py --galaxy_url https://galaxytracr.org --api_key apikey --action upload --  
history_id "facc9652a1a6fc" --files test/*.txt
```