:milky_way: UDS : Unlimited Drive Storage

Store files in Google Docs without counting against your quota.

sorry @ the guys from google internal forums who are looking at this

Development on a web-based JS version has started here.

> Note: After June 1st 2021, starting June 1, 2021, Google will count Docs, Sheets, Slides, Drawings, Forms and Jamboard files against the user's storage quota.

Features

- Upload files to Google Drive without using storage space
- Download any stored files to your computer

Logic

- Google Docs take up 0 bytes of quota in your Google Drive
- Split up binary files into Google Docs, with base64 encoded text
- Size of the encoded file is always larger than the original. Base64 encodes binary data to a ratio of about 4:3.
- A single google doc can store about a million characters. This is around 710KB of base64 encoded data.
- Some experiments with multi-threading the uploads, but there was no significant performance increase.

Setup & Authentication

1. Clone the Repository and setup the requirements `pip3 install -r requirements.txt`
2. Head to Google's API page and enable the Drive API
3. Download the configuration file as 'client_secret.json' to the UDS directory
4. Run `python3 uds.py` or `./uds.py` for initial set up

UDS Core

Upload

```
1  > ./uds.py --push Ubuntu.Desktop.16.04.iso
2  Ubuntu.Desktop.16.04.iso will required 543 Docs to store.
3  Created parent folder with ID 1fc6JGpX6vUWiwflL1jBxM1YpuMHFAms8
4  Successfully Uploaded Ubuntu.Desktop.16.04.iso:
   ███████████████████████████████[] 100%
```

```
1  [Layout]
2  ./uds.py --push argument
3
4  argument: Path_to_file+file_name
```

List

```
1   > ./uds.py --list
2   Name                      Size    Encoded    ID
3   ----------------------    -----   ---------
        --------------------------------
4   Ubuntu.Desktop.16.04.iso  810 MB  1.1 GB     1
        fc6JGpX6vUWiwflL1jBxM1YpuMHFAms8
5   Ubuntu.Desktop.18.10.iso  1.1 GB  1.3 GB     1
        RzzVfN9goHMTkM1Hf1FUWUVS_2R3GK7D
6
7   Also supports searching with a query!
8
9   > ./uds.py --list "18"
10  Name                      Size    Encoded    ID
11  ----------------------    -----   ---------
        --------------------------------
12  Ubuntu.Desktop.18.10.iso  1.1 GB  1.3 GB     1
        RzzVfN9goHMTkM1Hf1FUWUVS_2R3GK7D
```

```
1  [Layout]
2  ./uds.py --list
3
4  arguments: query
```

Download

```
1  > ./uds.py --pull 1fc6JGpX6vUWiwflL1jBxM1YpuMHFAms8
2  Downloaded Ubuntu.Desktop.16.04.iso: ████████████████████████████[]
     100%
```

```
1  [Layout]
2  ./uds.py --pull argument
3
```

```
4  argument: id_of_file
```

Delete

```
1  > ./uds.py --delete 1fc6JGpX6vUWiwflL1jBxM1YpuMHFAms8
2  Deleted 1fc6JGpX6vUWiwflL1jBxM1YpuMHFAms8
```

```
1  [Layout]
2  ./uds.py --delete argument
3
4  argument: id_of_file
```

Alpha Extensions

Grab

```
1  > ./uds.py --grab test.7z
2  Update Successful!
3  Downloaded test.7z: ████████████████████████[] 100%
```

```
1  [Layout]
2  ./uds.py --grab argument
3
4  argument: name_of_file
```

Erase

```
1  >./uds.py --erase test2.7z
2  Update Successful!
3  Deleted test2.7z
```

```
1  [Layout]
2  ./uds.py --erase argument
3
4  argument: name_of_file
```

Update

```
1  > ./uds.py --update
2
3  Name        Encoded   Size
```

```
 4  ---------   --------   -----
 5  file_name   1.1 GB     810 MB
 6
 7  "User.txt"
 8  Name        Encoded    Size
 9  ---------   --------   -----
10  file_name   1.1 GB     810 MB
11
12  "data.txt"
13  {
14      "file0": "1fc6JGpX6vUWiwflL1jBxM1YpuMHFAms8"
15      "file2": "1fc6JGpX6vUWiwflL1jBxM1YpuMHFAms9"
16  }
```

```
1  [Layout]
2  ./uds.py --update
3
4  arguments: None
```

Bulk Extensions

Bunch

```
 1  > ./uds.py --bunch test
 2  test.7z.1 will require 1337 Docs to store.
 3  Created parent folder with ID 1fc6JGpX6vUWiwflL1jBxM1YpuMHFAm12
 4  Successfully Uploaded test.7z.1: ████████████████████████████[] 100%
 5  test.7z.2 will require 1337 Docs to store.
 6  Created parent folder with ID 1fc6JGpX6vUWiwflL1jBxM1YpuQQFAm12
 7  Successfully Uploaded test.7z.2: ████████████████████████████[] 100%
 8  test.7z.3 will require 600 Docs to store.
 9  Created parent folder with ID 1fc6JGpX6vTOiwflL1jBxM1YpuQQFAm12
10  Successfully Uploaded test.7z.3: ████████████████████████████[] 100%
```

```
1  [Layout]
2  ./uds.py --bunch argument[1] argument[2]
3
4  argument[1]: name_in_files, or wildcard "?" without quotes
5  argument[2]: directory, default is current directory of UDS
```

Batch

```
1  > ./uds.py --batch file_name
2  Update Successful!
3  Downloaded file_name.7z.1: ████████████████████████████[] 100%
```

```
4  Downloaded file_name.7z.2: ██████████████████████████ [] 100%
5  Downloaded file_name.7z.3: ██████████████████████████ [] 100%
```

```
1  [Layout]
2  ./uds.py --batch argument
3
4  arguments: name_in_files, or wildcard "?" without quotes
```

Wipe

```
1  > ./uds.py --wipe file
2  Update Successful!
3  Deleted file.7z.1
4  Deleted file.7z.2
5  Deleted file.7z.3
```

```
1  [Layout]
2  ./uds.py --wipe argument
3
4  arguments: name_in_files, or wildcard "?" without quotes
```

Only Compatible with Python 3.