kloudless Documentation

Release 2.0.1

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Dec 17, 2020

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CHAPTER 1

Python library for the Kloudless API

Python library for the Kloudless API.

You need to sign up and create an application first before using this SDK.

1.1 Table of Contents

- *Requirements*
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1.2 Requirements

Python 2.7 or Python 3.5+

1.3 Installation

Install via pip:

```
pip install kloudless
```

Install from source:

```
git clone git://github.com/kloudless/kloudless-python
cd kloudless-python
python setup.py install
```

1.4 Getting Started

Most Kloudless API endpoints require connecting to an upstream service account first. Start by **navigating to** API Explorer **and connecting an account.**

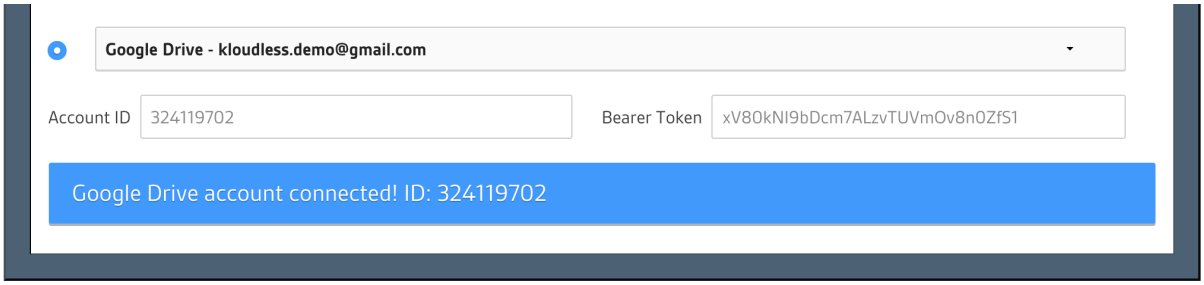

Fig. 1: Get the Bearer Token

After the account has been connected, copy the Bearer Token from the text box and use it to initialize an Account object:

```
from kloudless import Account
account = Account(token="YOUR_BEARER_TOKEN")
```

1.5 Full Documentation

Full documentation is hosted at Read the docs**.** A quick-start is included below.

1.6 Making API Requests

You can now make an API request with the account instance you've created.

1.6.1 If Connecting to a Storage Service

```
# retrieve folder contents
root_folder_contents = account.get('storage/folders/root/contents')
for resource in root_folder_contents.get_paging_iterator():
    print(resource.data)

# download the first file in root_folder
for resource in root_folder_contents:
    if resource.data['type'] == 'file':
        filename = resource.data['name']
        response = resource.get('contents')
```

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```
        with open(filename, 'wb') as f:
            f.write(response.content)
        break

# upload a file to root_folder
file_name = 'FILE_NAME_TO_UPLOAD'
headers = {
    'X-Kloudless-Metadata': json.dumps(
        {'parent_id': 'root', 'name': file_name}
    )
}
with open(file_name, 'rb') as f:
    file_resource = account.post('storage/files', data=f, headers=headers)
```

1.6.2 If Connecting to a Calendar Service

```
# retrieve primary calendar
calendar = account.get('cal/calendars/primary')
print('Primary Calendar: {}'.format(calendar.data['name']))

# iterate through events in first page with page_size equals 5
events = calendar.get('events?page_size=5')
for e in events:
    data = e.data
    print('{}: {}~{}'.format(data['name'], data['start'], data['end']))

# iterate thorough events in second page
next_page_events = events.get_next_page()
for e in next_page_events:
    data = e.data
    print('{}: {}~{}'.format(data['name'], data['start'], data['end']))

# create a new event on primary calendar
event = events.post(json={
    'start': '2019-01-01T12:30:00Z',
    'end': '2019-01-01T13:30:00Z',
    'name': 'Event test'}
)
```

1.7 Integrating OAuth Flow

You can use the Authenticator JS library to authenticate end-users via a pop-up and store the token server-side. Be sure to verify the token once it is transferred to your server. See `kloudless.application.verify_token`.

An alternate approach is to use the OAuth Authorization Code grant flow to redirect the end-user to Kloudless to connect their account to your app.

1.7.1 OAuth Integration Demo server

`examples/demo_server.py` provides the server-side logic of the 3-legged OAuth flow using helper methods from the Kloudless Python SDK. See `examples/README.md` for instructions on running the demo server.

1.7.2 Python Django Sample code

Insert the following code into Django views under `views/` directory and calling it via `urls.py`.

```
from django.http import HttpResponseRedirect, HttpResponse
from django.conf import settings

from kloudless import get_authorization_url, get_token_from_code


def start_authorization_flow(request):
    """
    Redirect the user to start authorization flow.
    """
    url, state = get_authorization_url(app_id=settings.KLOUDLESS_APP_ID,
                                       redirect_uri=settings.KLOUDLESS_REDIRECT_URL,
                                       scope='storage')

    request.session['authorization_state'] = state
    return HttpResponseRedirect(url)


def callback(request):
    """
    The endpoint for settings.KLOUDLESS_REDIRECT_URL.
    """
    params = request.GET.dict()
    token = get_token_from_code(app_id=settings.KLOUDLESS_APP_ID,
                                api_key=settings.KLOUDLESS_API_KEY,
                                orig_state=request.session['authorization_state'],
                                orig_redirect_uri=settings.KLOUDLESS_REDIRECT_URL,
                                **params)

    # store the token
    request.user.kloudless_token = token
    request.user.save()
    return HttpResponse('Account connects successfully.')
```

CHAPTER 2

Core Concepts

- You can make http requests with most classes in this library, like `Client`, `Account`, `Resource`, `ResourceList`, etc.
- Response data will be wrapped into the `kloudless.resources.base.Response` and its subclass like `kloudless.resources.base.ResponseJson`, `Resource` and `ResourceList`.

CHAPTER 3

Logging Request Urls during Development

You may find it useful to enable logging for every http request by setting the log level to `DEBUG`. It will print the exact http url being requested.

```
from kloudless.util import logger

logger.setLevel('DEBUG')
```

CHAPTER 4

Verifying the Bearer token

If the bearer token was transferred to the server from Authenticator JS library or the client-side implicit grant flow, it's highly recommended that you verify the token.

```
from kloudless import verify_token
from kloudless import exceptions

app_id = "YOUR_APP_ID"
token = "BEARER_TOKEN_TO_VERIFY"
try:
    token_info = verify_token(app_id, token)
except exceptions.TokenVerificationFailed:
    print("Token:{} does not belong to App:{}".format(token, app_id))
except exceptions.APIException as e:
    # if other API request errors happened
    print(e.message)
else:
    print(token_info)
```

CHAPTER 5

Modifying Global Config

- *base_url*: default to *https://api.kloudless.com*
- *api_version*: default to *1*

```
from kloudless import configuration
from kloudless import Account

account = Account(token="YOUR_BEARER_TOKEN")
print(account.url) # 'https://api.kloudless.com/v1/accounts/me'

# Configuration changes would affect the Account and Client create afterward
configuration['base_url'] = 'http://localhost:8002'
configuration['api_version'] = '2'

account = Account(token="YOUR_BEARER_TOKEN")
print(account.url) # 'http://localhost:8002/v2/accounts/me'
```

CHAPTER 6

Modifying API Version for One Request

You don't have to modify the global config if you only want to change the api version for particular endpoints. The `api_version` parameter is available for all http methods.

For more options available for http methods, see *`kloudless.client.Session.request()`*.

```
from kloudless import Account

account = Account(token="YOUR_BEARER_TOKEN")

# Request to 'https://api.kloudless.com/v1/accounts/me'
response = account.get()

# Request to 'https://api.kloudless.com/v2/accounts/me'
response = account.get(api_version=2)
```

CHAPTER 7

Getting Upstream Raw Object

If you want to access the `raw` object from the upstream service, please set the `get_raw_data` parameter to `True`. This is available for all http methods.

For more options available for http methods, see *`kloudless.client.Session.request()`*.

```
from kloudless import Account

account = Account(token="BEARER_TOKEN_FOR_CALENDAR_SERVICE")

calendar = account.get('cal/calendars/primary', get_raw_data=True)
print(calendar.data['raw'])
```

CHAPTER 8

Setting Default Headers for All Requests

Setting default headers for all requests is useful whenever you want to always include raw data or make use of user-impersonation.

```
from kloudless import Account

account = Account(token='BEARER_TOKEN_FOR_CALENDAR_SERVICE')
account.headers['X-Kloudless-Raw-Data'] = 'true'

# the request afterward would include raw data by default
calendars = account.get('cal/calendars')
```

CHAPTER 9

Retrieving Events

Once you enable activity monitoring for your application, you'll be able to query for activity using our Events API. See Events Documentation for more information.

```
from kloudless import Account

account = Account(token="YOUR_BEARER_TOKEN")

# You can skip this step by using the cursor you stored.
cursor = account.get('events/latest').data['cursor']

# Iterating all events through pages with page_size equals 50
events = account.get('events', params={'cursor': cursor, 'page_size': 50})
for event in events.get_paging_iterator():
    print(event.data)

# You can store the latest cursor for next time usage
latest_cursor = events.latest_cursor
```

CHAPTER 10

Calling Upstream Service APIs

You can make requests to the upstream service API (a.k.a. pass-through requests) by using `kloudless.account.Account.raw()`.

```
from kloudless import Account

account = Account(token="'BEARER_TOKEN_FOR_GDRIVE_SERVICE'")

# Using raw method to forward request to Google Drive API
response = account.raw('GET', '/drive/v2/about')
```

CHAPTER 11

Making Application Level Requests

In rare cases, you may want to make requests in the application level. You can make use of `kloudless.client.Client` for requests.

```
from kloudless import Client

# See https://developers.kloudless.com/docs/latest/meta#introduction-to-the-meta-api
# Use meta bearer token to initialize Client
meta_client = Client(token='YOUR_META_BEARER_TOKEN')

# Get info of your applications
applications = meta_client.get('meta/applications')
print(applications.data)

# Use API key to initialize Client
client = Client(api_key='YOUR_API_KEY')

# Get all accounts connect to your application
accounts = client.get('accounts')
print(accounts.data)
```

CHAPTER 12

kloudless.application - Oauth methods

kloudless.application.**verify_token**(*app_id*, *token*)

Verify whether the `token` belongs to Application with `app_id`.

Refer to Verify the token for more information.

Parameters

- **app_id** (*str*) – Application ID
- **token** (*str*) – Account's Bearer token

Returns (dict) Token information

Raise *kloudless.exceptions.TokenVerificationFailed*

kloudless.application.**get_authorization_url**(*app_id*, *redirect_uri*, *scope='all'*, *state=''*, *extra_data=''*, ***params*)

Get the url to start the first leg of OAuth flow.

Refer to Authentication Docs for more information.

Parameters

- **app_id** (*str*) – Application ID
- **redirect_uri** (*str*) – Redirect URI to your application server
- **scope** (*str*) – A space-delimited string of scopes that indicate which services a user can connect, and which permissions to request
- **state** (*str*) – An arbitrary string which would be redirected back via `redirect_uri` as query parameter. Random url-safe Base64 string would be generated by default
- **extra_data** (*str*) – A URL-encoded JSON object containing data used to pre-fill default values for fields in the Kloudless authentication forms. For example, the domain of a WebDAV server
- **params** – Additional query parameters

Returns *tuple(url, state)*: Redirect the user to `url` to start authorization. Saved `state` in user's session for future validation

Return type *tuple(str, str)*

`kloudless.application.`**`get_token_from_code`**(*app_id*, *api_key*, *orig_state*, *orig_redirect_uri*, ***params*)

Retrieve bearer token from authorization code.

Parameters

- **`app_id`** (*`str`*) – Application ID
- **`api_key`** (*`str`*) – API Key
- **`orig_state`** (*`str`*) – `state` from *`kloudless.application.get_authorization_url()`* call
- **`orig_redirect_uri`** (*`str`*) – `redirect_uri` used while calling *`kloudless.application.get_authorization_url()`*
- **`params`** – The included query parameters while Kloudless redirects user to Redirect URI of your application server

Returns (str) Bearer token

Raise *`kloudless.exceptions.OauthFlowFailed`*

CHAPTER 13

kloudless.client - Client

class kloudless.client.**Session**

Bases: requests.sessions.Session

The Session class helps build Kloudless specific headers.

__init__()

Initialize self. See help(type(self)) for accurate signature.

request(*method*, *url*, *api_version=None*, *get_raw_data=None*, *raw_headers=None*, *impersonate_user_id=None*, ***kwargs*)

Override requests.Session.request() with additional parameters.

See API-wide options for more information about *get_raw_data*, *raw_headers* and *impersonate_user_id* parameters.

Parameters

- **method** (*str*) – Http method
- **url** (*str*) – Request url
- **api_version** (*int*) – API version
- **get_raw_data** (*bool*) – Set to True if the raw object from upstream service is present. This is equal to the X-Kloudless-Raw-Data request header.
- **raw_headers** (*dict*) – Headers fowarded to upstream service. This is equal to the X-Kloudless-Raw-Headers request header
- **impersonate_user_id** (*str*) – User id to access or modify data for individual user accounts. This is equal to the X-Kloudless-As-User request header.
- **kwargs** – kwargs passed to requests.Session.request()

Returns requests.Response

Raises *kloudless.exceptions.APIException* or its subclasses

class kloudless.client.**Client**(*api_key=None*, *token=None*)

Bases: *kloudless.client.Session*

Base Client class to send all http requests in this library.

Instance attributes

Variables **url** (*str*) – Base url that will be used as a prefix for all http method calls

__init__(*api_key=None*, *token=None*)

Either `api_key` or `token` is needed for instantiation.

Parameters

- **api_key** – API key
- **token** – Bearer token

request(*method*, *path=''*, *get_raw_response=False*, ***kwargs*)

Override *kloudless.client.Session.request()*.

Note that the actual request url will have `self.url` as a prefix.

Parameters

- **method** (*str*) – Http method
- **path** (*str*) – Request path
- **get_raw_response** (*str*) – Set to `True` if the raw `requests.Response` instance is in the returned value
- **kwargs** – kwargs passed to *kloudless.client.Session.request()*

Returns

- `requests.Response` if `get_raw_response` is `True`
- *kloudless.resources.base.Response* or its subclass otherwise

get(*path=''*, ***kwargs*)

Http GET request.

Note that the actual request url will have `self.url` as a prefix.

Parameters

- **path** (*str*) – Request path
- **kwargs** – See *kloudless.client.Client.request()* for more options.

Returns *kloudless.resources.base.Response* or its subclass

post(*path=''*, *data=None*, *json=None*, ***kwargs*)

Http POST request.

Note that the actual request url will have `self.url` as a prefix.

Parameters

- **path** (*str*) – Request path
- **data** – passed to `request.Request.post()`
- **json** – passed to `request.Request.post()`

- **kwargs** – See `kloudless.client.Client.request()` for more options.

Returns `kloudless.resources.base.Response` or its subclass

put (*path=''*, *data=None*, ***kwargs*)

Http PUT request.
Note that the actual request url will have `self.url` as a prefix.

Parameters

- **path** (*str*) – Request path
- **data** – passed to `request.Request.put()`
- **kwargs** – See `kloudless.client.Client.request()` for more options.

Returns `kloudless.resources.base.Response` or its subclass

patch (*path=''*, *data=None*, ***kwargs*)

Http PATCH request.
Note that the actual request url will have `self.url` as a prefix.

Parameters

- **path** (*str*) – Request path
- **data** – passed to `request.Request.patch()`
- **kwargs** – See `kloudless.client.Client.request()` for more options.

Returns `kloudless.resources.base.Response` or its subclass

delete (*path=''*, ***kwargs*)

Http DELETE request.
Note that the actual request url will have `self.url` as a prefix.

Parameters

- **path** (*str*) – Request path
- **kwargs** – See `kloudless.client.Client.request()` for more options.

Returns `kloudless.resources.base.Response` or its subclass

CHAPTER 14

kloudless.account - Account

class kloudless.account.**Account**(*token=None*, *api_key=None*, *account_id=None*)

Bases: *kloudless.client.Client*

Account class that represents one Kloudless account.

Instance attributes

Variables **url** (*str*) – Base url which would be used as prefix for all http method calls

__init__(*token=None*, *api_key=None*, *account_id=None*)

Either `token` or `api_key` is needed for instantiation. `account_id` is needed if `api_key` is specified.

Parameters

- **token** – Bearer token
- **api_key** – API key
- **account_id** – Account ID

raw(*raw_method*, *raw_uri*, ***kwargs*)

Method for Pass-Through API

Parameters

- **raw_method** (*str*) – The value stand for `X-Kloudless-Raw-Method` header
- **raw_uri** – The value stand for `X-Kloudless-Raw-URI` header
- **kwargs** – kwargs passed to *kloudless.client.Client.post()*

Returns `requests.Response`

kloudless.account.**get_verified_account**(*app_id*, *token*)

Verify the `token` belongs to an Application with `app_id` and return an *kloudless.account.Account* instance.

Parameters

- **app_id** (*str*) – Application ID

- **token** (*str*) – Account's Bearer token

Returns *kloudless.account.Account*

Raise *kloudless.exceptions.TokenVerificationFailed*

CHAPTER 15

kloudless.resources.base - Resource

class kloudless.resources.base.**Response**(*client*, *url*, *response=None*)

Bases: object

Base Response class for this library.

Instance attributes

Variables

- **url** (*str*) – Base url which would be used as prefix for all http method calls
- **query_params** (*dict*) – Query parameter from request
- ***client*** – *kloudless.client.Client* or *kloudless.account.Account*
- **response** – requests.Response if available

get(*path=''*, ***kwargs*)

Performs http GET request through self.client.get.
Note that the actually request url would have self.url as prefix.

Returns *kloudless.resources.base.Response* or its subclass

post(*path=''*, *data=None*, *json=None*, ***kwargs*)

Performs http POST request through self.client.post.
Note that the actually request url would have self.url as prefix.

Returns *kloudless.resources.base.Response* or its subclass

put(*path=''*, *data=None*, ***kwargs*)

Performs http PUT request through self.client.put.

Note that the actually request url would have `self.url` as prefix.

Returns *kloudless.resources.base.Response* or its subclass

patch(*path=''*, *data=None*, ***kwargs*)

Performs http PATCH request through `self.client.patch`.
Note that the actually request url would have `self.url` as prefix.

Returns *kloudless.resources.base.Response* or its subclass

delete(*path=''*, ***kwargs*)

Performs http DELETE request through `self.client.delete`.
Note that the actually request url would have `self.url` as prefix.

Returns *kloudless.resources.base.Response* or its subclass

refresh()
Performs GET request through `self.client.get` to `self.url`, then refresh `self`. The original query parameters and headers would be reused if original request is http GET request.

class kloudless.resources.base.**ResponseJson**(*data*, ***kwargs*)
Bases: *kloudless.resources.base.Response*

Base Response class for JSON response.

Instance attributes

Variables **data** (*dict*) – JSON data

refresh()
Perform GET request through `self.client.get` to `self.url`, then refresh `self`. The original query parameters and headers would be reused if original request is http GET request.

class kloudless.resources.base.**Resource**(***kwargs*)
Bases: *kloudless.resources.base.ResponseJson*

Represents a resource object from API response. A resource object contains an identifier and endpoint (*/{resource_type}/{identifier}*) for retrieving its metadata.

Example resources include: Files and folders in the Storage API, calendar events in the Calendar API, and events in Events API.

class kloudless.resources.base.**ResourceList**(***kwargs*)
Bases: *kloudless.resources.base.ResponseJson*

Represents a list of resources from API response. ResourceList itself is also an iterable thorough `self.objects`.

Instance attributes

Variables **objects** – list of `kloudless.resource.base.Resource` instance

get_next_page()
Get the resources of the next page, if any.

Returns *kloudless.resources.base.ResourceList*

Raise *kloudless.exceptions.NoNextPage*

get_paging_iterator(*max_resources=None*)

Generator to iterate thorough all resources under `self.objects` and all resources in the following page, if any.

If retrieving events, `self.latest_cursor` is available after iterating thorough all events without `max_resources` specified.

Parameters **max_resources** – the maximum quantity of resources that would be contained in the returned generator

Returns generator that yield *kloudless.resources.base.Resource* instance

CHAPTER 16

kloudless.exceptions - Exceptions

exception kloudless.exceptions.**KloudlessException**(*message=”*)

Bases: Exception

Base exception class inherited by all exceptions of the library.

Instance attributes

Variables **message** (*str*) – Error message

default_message

exception kloudless.exceptions.**InvalidParameter**(*message=”*)

Bases: *kloudless.exceptions.KloudlessException*

The parameters are invalid in a function call or class instantiation.

default_message = 'The parameter is not valid.'

exception kloudless.exceptions.**TokenVerificationFailed**(*message=”*)

Bases: *kloudless.exceptions.KloudlessException*

default_message = 'The token does not belong to your application.'

exception kloudless.exceptions.**OauthFlowFailed**(*message=”*)

Bases: *kloudless.exceptions.KloudlessException*

default_message = 'Oauth authorization flow failed.'

exception kloudless.exceptions.**NoNextPage**(*cursor=None*, **args*, ***kwargs*)

Bases: *kloudless.exceptions.KloudlessException*

default_message = "There's no next page."

exception kloudless.exceptions.**APIException**(*response*, *message=”*)

Bases: *kloudless.exceptions.KloudlessException*

Base Exception class for API requests.

Instance attributes

Variables

- **response** – `requests.Response` instance if available
- **status** (*int*) – `response.status_code`
- **error_data** (*dict*) – `response.json()`

default_message = 'Request failed.'

exception `kloudless.exceptions.`**AuthorizationException**(*response*, *message=''*)

Bases: *kloudless.exceptions.APIException*

Exception class for `401` status code.

default_message = 'Authorization failed. Please double check that the API Key or Token

exception `kloudless.exceptions.`**ForbiddenException**(*response*, *message=''*)

Bases: *kloudless.exceptions.APIException*

Exception class for `403` status code.

default_message = 'Request forbidden. The action is not allowed.'

exception `kloudless.exceptions.`**NotFoundException**(*response*, *message=''*)

Bases: *kloudless.exceptions.APIException*

Exception class for `404` status code.

default_message = 'Not found. Please make sure the url is correct.'

exception `kloudless.exceptions.`**RateLimitException**(**args*, ***kwargs*)

Bases: *kloudless.exceptions.APIException*

Exception class for `429` status code.

Instance attributes

Variables **retry_after** (*float*) – Delay seconds until next available requests

default_message = 'Rate limiting encountered. Please try again later.'

exception `kloudless.exceptions.`**ServerException**(*response*, *message=''*)

Bases: *kloudless.exceptions.APIException*

Exception class for `5xx` status code.

default_message = 'An unknown error occurred! Please contact support@kloudless.com wit

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