
krakenex Documentation

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CHAPTER 1

Interface classes

General-use interface provided by *krakenex*.

Internally, classes are in separate modules, but they are also exported to the top-level namespace, so the following uses are possible:

```
# recommended, unlikely to result in namespace collisions
import krakenex
k = krakenex.API()
c = krakenex.Connection()

# OK for simple scripts
from krakenex import *
k = API()
c = Connection()

# can be explicit in both cases
k = krakenex.api.API()
c = krakenex.connection.Connection()
```

class krakenex.API (key='', secret='', conn=None)
Bases: `object`

Maps a key/secret pair to a connection.

Specifying either the pair or the connection is optional.

Note: If a connection is not set, a new one will be opened on first query. If a connection is set, during creation or as a result of a previous query, it will be reused for subsequent queries. However, its state is not checked.

Note: No timeout handling or query rate limiting is performed.

Note: If a private query is performed without setting a key/secret pair, the effects are undefined.

`__init__(key='', secret='', conn=None)`
Create an object with authentication information.

Parameters

- `key (str)` – key required to make queries to the API
- `secret (str)` – private key used to sign API messages
- `conn (krakenex.Connection)` – existing connection object to use

Returns `None`

`__module__ = 'krakenex.api'`
`_query(urlpath, req, conn=None, headers=None)`

Low-level query handling.

If a connection object is provided, attempts to use that specific connection.

If it is not provided, attempts to reuse a connection from the previous query.

If this is the first ever query, opens a new connection, and keeps it as a fallback for future queries.

Connection state is not checked.

Warning: The fallback connection will be re-used for both public and private queries.

Note: Preferably use `query_private()` or `query_public()` instead.

Parameters

- `urlpath (str)` – API URL path sans host
- `req (dict)` – API request parameters
- `conn (krakenex.Connection)` – (optional) existing connection object to use
- `headers (dict)` – (optional) HTTPS headers

Returns `json.loads()`-deserialised Python object

`load_key(path)`
Load key and secret from file.

Expected file format is key and secret on separate lines.

Parameters `path (str)` – path to keyfile

Returns `None`

`query_private(method, req=None, conn=None)`
API queries that require a valid key/secret pair.

Parameters

- `method (str)` – API method name
- `req (dict)` – (optional) API request parameters

- **conn** (`krakenex.Connection`) – (optional) connection object to use

Returns `json.loads()` -deserialised Python object

query_public (*method*, *req=None*, *conn=None*)

API queries that do not require a valid key/secret pair.

Parameters

- **method** (`str`) – API method name
- **req** (`dict`) – (optional) API request parameters
- **conn** (`krakenex.Connection`) – (optional) connection object to use

Returns `json.loads()` -deserialised Python object

set_connection (*conn*)

Set an existing connection to be used as a default in queries.

Deprecated since version 1.0.0: Access the object's `conn` attribute directly.

Parameters `conn` (`krakenex.Connection`) – existing connection object to use

Returns None

class krakenex.Connection (*uri='api.kraken.com'*, *timeout=30*)

Bases: `object`

Object representing a single connection.

Opens a reusable HTTPS connection. Allows specifying HTTPS timeout, or server URI (for testing purposes).

__init__ (*uri='api.kraken.com'*, *timeout=30*)

Create an object for reusable connections.

Parameters

- **uri** (`str`) – URI to connect to
- **timeout** (`int`) – blocking operations' timeout (in seconds)

Returns None

__module__ = 'krakenex.connection'

_request (*url*, *req=None*, *headers=None*)

Send POST request to API server using this connection.

If not provided, sets empty request parameters and HTTPS headers for this request.

Parameters

- **url** (`str`) – fully-qualified URL with all necessary urlencoded information
- **req** (`dict`) – (optional) API request parameters
- **headers** (`dict`) – (optional) HTTPS headers, such as API-Key and API-Sign

Returns `http.client`-decoded response

Raises `http.client.HTTPException`: if response status not successful

close()

Close this connection.

Returns None

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