
Ckan API client Documentation

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Clients

There are currently three clients for the Ckan API, each one providing a different level of abstraction, and thus can be user for different needs:

- `CkanLowlevelClient` – just a wrapper around the API.
- High-level client: provides more abstraction around the CRUD methods.
- Syncing client: provides facilities for “syncing” a collection of objects into Ckan.

1.1 Low-level

This is the client providing the lowest level of abstraction.

```
class ckan_api_client.low_level.CkanLowlevelClient(base_url, api_key=None)
    Ckan low-level client.
```

- Handles authentication and response validation
- Handles request body serialization and response body deserialization
- Raises HTTPError exceptions on failed HTTP requests
- Performs some checks on return values from the API

anonymous

Property, returning a copy of this client, without an `api_key` set

```
request(method, path, **kwargs)
    Wrapper around requests.request().
```

Extra functionality provided:

- Add `Authorization` header to requests
- If data is an object, serialize it with `json` and add the `Content-type: application/json` header.
- If the response didn't contain an “ok” code, raises a `HTTPError` exception.

Parameters

- **method** – HTTP method to be used
- **path** – Path, relative to the Ckan root. For example: `/api/3/action/package_list`

- **headers** – HTTP headers to be added to the request
- **data** – Data to be sent in the request body
- **kwargs** – Extra keyword arguments will be passed directly to the `requests.request()` call.

Raises `ckan_api_client.exceptions.HTTPError` in case the HTTP request returned a non-ok status code

Returns a requests response object

`list_datasets()`

Return a list of all dataset ids

`iter_datasets()`

Generator yielding dataset objects, iterating over the whole database.

`get_dataset(dataset_id)`

Get a dataset, using API v2

Parameters `dataset_id` – ID of the requested dataset

Returns a dict containing the data as returned from the API

Return type dict

`post_dataset(dataset)`

POST a dataset, using API v2 (usually for creation)

Parameters `dataset (dict)` – a dict containing data to be sent to Ckan. Should not already contain an id

Returns a dict containing the data as returned from the API

Return type dict

`put_dataset(dataset)`

PUT a dataset, using API v2 (usually for update)

Parameters `dataset (dict)` – a dict containing data to be sent to Ckan. Must contain an id, that will be used to build the URL

Returns a dict containing the updated dataset as returned from the API

Return type dict

`delete_dataset(dataset_id, ignore_404=True)`

DELETE a dataset, using API v2

Parameters

- `dataset_id` – if of the dataset to be deleted
- `ignore_404 (bool)` – if True (the default), will simply ignore http 404 errors from the API

`list_groups()`

`iter_groups()`

`get_group(group_id)`

`post_group(group)`

`put_group(group)`

`delete_group(group_id, ignore_404=True)`

```
list_organizations()
iter_organizations()
get_organization(id)
post_organization(organization)
put_organization(organization)
    Warning! with api v3 we need to use POST!
delete_organization(id, ignore_404=True)
list_licenses()
```

1.2 High-level

```
class ckan_api_client.high_level.CkanHighlevelClient(base_url,           api_key=None,
                                                       fail_on_inconsistency=False)
```

High-level client, handling CRUD of objects.

This class only returns / handles CkanObjects, to make sure we are handling consistent data (they have validators in place)

Parameters

- **base_url** – Base URL for the Ckan instance.
- **api_key** – API key to be used when accessing Ckan. This is required for writing.
- **fail_on_inconsistency** – Whether to fail on “inconsistencies” (mismatching updated objects). This is especially useful during development, in order to catch many problems with the client itself (or new bugs in Ckan..).

`list_datasets()`

Returns a list of dataset ids

`iter_datasets()`

Generator, iterating over all the datasets in ckan

`get_dataset(id, allow_deleted=False)`

Get a specific dataset, by id

Note: Since the Ckan API use both ids and names as keys, both `get_dataset()` and `get_dataset_by_name()` will perform the exact same request in the background.

The difference is only in the high-level handling: the function will check whether the expected id has the correct value, and raise an `HTTPError(404, ..)` otherwise..

Parameters

- **id** (*str*) – the dataset id
- **allow_deleted** – Whether to return even logically deleted objects. If set to `False` (the default) will raise a `HTTPError(404, ..)` if state != 'active'

Return type `CkanDataset`

get_dataset_by_name (*name*, *allow_deleted=False*)
Get a specific dataset, by name

Note: See note on [get_dataset \(\)](#)

Parameters

- **name** (*str*) – the dataset name
- **allow_deleted** – Whether to return even logically deleted objects. If set to False (the default) will raise a `HTTPError(404, ...)` if state != 'active'

Return type [CkanDataset](#)

save_dataset (*dataset*)

If the dataset already has an id, call `update_dataset ()`, otherwise, call `create_dataset ()`.

Returns as returned by the called function.

Return type [CkanDataset](#)

create_dataset (*dataset*)

Create a dataset

Return type [CkanDataset](#)

update_dataset (*dataset*)

Update a dataset

Return type [CkanDataset](#)

delete_dataset (*id*)

Delete a dataset, by id

wipe_dataset (*id*)

Actually delete a dataset, by renaming it first

list_organizations ()

list_organization_names ()

iter_organizations ()

get_organization (*id*, *allow_deleted=False*)

Get organization, by id.

Note: See note on [get_dataset \(\)](#)

Parameters

- **id** (*str*) – the organization id
- **allow_deleted** – Whether to return even logically deleted objects. If set to False (the default) will raise a `HTTPError(404, ...)` if state != 'active'

Return type [CkanOrganization](#)

get_organization_by_name (*name*, *allow_deleted=False*)

Get organization by name.

Note: See note on [get_dataset \(\)](#)

Parameters

- **name** (*str*) – the organization name
- **allow_deleted** – Whether to return even logically deleted objects. If set to `False` (the default) will raise a `HTTPError(404, ...)` if `state != 'active'`

Return type `CkanOrganization`

save_organization (*organization*)

create_organization (*organization*)

Create an organization

Return type `CkanOrganization`

update_organization (*organization*)

Return type `CkanOrganization`

delete_organization (*id*)

list_groups ()

list_group_names ()

iter_groups ()

get_group (*id*, *allow_deleted=False*)

Get group, by id.

Note: See note on [get_dataset\(\)](#)

Parameters

- **id** (*str*) – the group id
- **allow_deleted** – Whether to return even logically deleted objects. If set to `False` (the default) will raise a `HTTPError(404, ...)` if `state != 'active'`

Return type `CkanGroup`

get_group_by_name (*name*, *allow_deleted=False*)

Get group by name.

Note: See note on [get_dataset\(\)](#)

Parameters

- **name** (*str*) – the group name
- **allow_deleted** – Whether to return even logically deleted objects. If set to `False` (the default) will raise a `HTTPError(404, ...)` if `state != 'active'`

Return type `CkanGroup`

save_group (*group*)

create_group (*group*)

Return type `CkanGroup`

update_group (*group*)

Return type `CkanGroup`

`delete_group(id)`

1.3 Synchronization

```
class ckan_api_client.syncing.SynchronizationClient(base_url, api_key=None, **kw)
Synchronization client, providing functionality for importing collections of datasets into a Ckan instance.
```

Synchronization acts as follows:

- Ensure all the required organizations/groups are there; create a map between “source” ids and Ckan ids.
Optionally update existing organizations/groups with new details.
- Find all the Ckan datasets matching the `source_name`
- Determine which datasets...
 - ...need to be created
 - ...need to be updated
 - ...need to be deleted
- First, delete datasets to be deleted in order to free up names
- Then, create datasets that need to be created
- Lastly, update datasets using the configured merge strategy (see constructor arguments).

`__init__(base_url, api_key=None, **kw)`

Parameters

- `base_url` – Base URL of the Ckan instance, passed to high-level client
- `api_key` – API key to be used, passed to high-level client
- `organization_merge_strategy` – One of:
 - ‘create’ (default) if the organization doesn’t exist, create it. Otherwise, leave it alone.
 - ‘update’ if the organization doesn’t exist, create it. Otherwise, update with new values.
- `group_merge_strategy` – One of:
 - ‘create’ (default) if the group doesn’t exist, create it. Otherwise, leave it alone.
 - ‘update’ if the group doesn’t exist, create it. Otherwise, update with new values.
- `dataset_preserve_names` – if `True` (the default) will preserve old names of existing datasets
- `dataset_preserve_organization` – if `True` (the default) will preserve old organizations of existing datasets.
- `dataset_group_merge_strategy` –
 - ‘add’ add groups, keep old ones (default)
 - ‘replace’ replace all existing groups
 - ‘preserve’ leave groups alone

`sync(source_name, data)`

Synchronize data from a source into Ckan.

- datasets are matched by _harvest_source
- groups and organizations are matched by name

Parameters

- **source_name** – String identifying the source of the data. Used to build ids that will be used in further synchronizations.
- **data** – Data to be synchronized. Should be a dict (or dict-like) with top level keys corresponding to the object type, mapping to dictionaries of {'id': <object>}.

Modules

2.1 ckan_api_client.exceptions

Exceptions used all over the place

```
exception ckan_api_client.exceptions.HTTPError (status_code, message, original=None)
    Bases: exceptions.Exception

    Exception representing an HTTP response error.

    status_code
        HTTP status code

    message
        Informative error message, if available

    status_code
    message
    original

exception ckan_api_client.exceptions.BadApiError
    Bases: exceptions.Exception

    Exception used to mark bad behavior from the API

exception ckan_api_client.exceptions.BadApiWarning
    Bases: exceptions.UserWarning

    Warning to mark bad behavior from the API

exception ckan_api_client.exceptions.OperationFailure
    Bases: exceptions.Exception

    Something went wrong // failed expectations somewhere..
```

2.2 ckan_api_client.objects

2.2.1 Base objects

Classes to represent / validate Ckan objects.

```
class ckan_api_client.objects.base.BaseField(default=<object object at 0x7f44bc0e4bf0>, is_key=<object object at 0x7f44bc0e4bf0>, required=False)
```

Bases: object

Pseudo-descriptor, accepting field names along with instance, to allow better retrieving data for the instance itself.

Warning: Beware that fields shouldn't carry state of their own, a part from the one used for generic field configuration, as they are shared between instances.

default = None

is_key = False

get (instance, name)

Get the value for the field from the main instace, by looking at the first found in:

- the updated value
- the initial value
- the default value

get_default ()

validate (instance, name, value)

The validate method should be the (updated) value to be used as the field value, or raise an exception in case it is not acceptable at all.

set_initial (instance, name, value)

Set the initial value for a field

set (instance, name, value)

Set the modified value for a field

delete (instance, name)

Delete the modified value for a field (logically restores the original one)

serialize (instance, name)

Returns the “serialized” (json-encodable) version of the object.

is_modified (instance, name)

Check whether this field has been modified on the main instance.

is_equivalent (instance, name, other, ignore_key=True)

```
class ckan_api_client.objects.base.BaseObject (values=None)
```

Bases: object

Base for the other objects, dispatching get/set/deletes to BaseField instances, if available.

classmethod from_dict (data)

set_initial (values)

Set initial values for all fields

to_dict ()

serialize ()

Create a serializable representation of the object.

iter_fields ()

Iterate over fields in this objects, yielding (name, field) pairs.

is_equivalent(*other*, *ignore_key*=True)

Equivalency check between objects. Will make sure that values in all the non-key fields match.

Parameters

- **other** – other object to compare
- **ignore_key** – if set to True (the default), it will ignore “key” fields during comparison

compare(*other*)

Compare differences between this object and another

is_modified()

The object is modified if any of its fields reports itself as modified.

2.2.2 Base fields

```
class ckan_api_client.objects.fields.StringField(default=<object      object      at
                                                0x7f44bc0e4bf0>, is_key=<object object
                                                at 0x7f44bc0e4bf0>, required=False)
Bases: ckan_api_client.objects.base.BaseField

default = None

validate(instance, name, value)

class ckan_api_client.objects.fields.ListField(default=<object      object      at
                                                0x7f44bc0e4bf0>, is_key=<object object
                                                at 0x7f44bc0e4bf0>, required=False)
Bases: ckan_api_client.objects.fields.MutableFieldMixin,
        ckan_api_client.objects.base.BaseField

static default()

validate(instance, name, value)

class ckan_api_client.objects.fields.DictField(default=<object      object      at
                                                0x7f44bc0e4bf0>, is_key=<object object
                                                at 0x7f44bc0e4bf0>, required=False)
Bases: ckan_api_client.objects.fields.MutableFieldMixin,
        ckan_api_client.objects.base.BaseField

static default()

validate(instance, name, value)

class ckan_api_client.objects.fields.GroupsField(default=<object      object      at
                                                0x7f44bc0e4bf0>, is_key=<object object
                                                at 0x7f44bc0e4bf0>, required=False)
Bases: ckan_api_client.objects.fields.SetField

validate(instance, name, value)

class ckan_api_client.objects.fields.ExtrasField(default=<object      object      at
                                                0x7f44bc0e4bf0>, is_key=<object object
                                                at 0x7f44bc0e4bf0>, required=False)
Bases: ckan_api_client.objects.fields.DictField

validate(instance, name, value)

is_equivalent(instance, name, other, ignore_key=True)
```

2.2.3 Ckan dataset / resource

```
class ckan_api_client.objects_ckan_dataset.ResourcesField(default=<object object
                                                               at 0x7f44bc0e4bf0>,
                                                               is_key=<object object
                                                               at 0x7f44bc0e4bf0>,
                                                               required=False)
Bases: ckan_api_client.objects.fields.ListField

The ResourcesField should behave pretty much as a list field, but will keep track of changes, and make sure all elements are CkanResources.

    validate(instance, name, value)
    serialize(instance, name)
    is_equivalent(instance, name, other, ignore_key=True)

class ckan_api_client.objects_ckan_dataset.CkanDataset(values=None)
Bases: ckan_api_client.objects.base.BaseObject

    id = StringField(default=None, is_key=True, required=False)
    name = StringField(default=None, is_key=False, required=False)
    title = StringField(default=None, is_key=False, required=False)
    author = StringField(default='', is_key=False, required=False)
    author_email = StringField(default='', is_key=False, required=False)
    license_id = StringField(default='', is_key=False, required=False)
    maintainer = StringField(default='', is_key=False, required=False)
    maintainer_email = StringField(default='', is_key=False, required=False)
    notes = StringField(default='', is_key=False, required=False)
    owner_org = StringField(default='', is_key=False, required=False)
    private = BoolField(default=False, is_key=False, required=False)
    state = StringField(default='active', is_key=False, required=False)
    type = StringField(default='dataset', is_key=False, required=False)
    url = StringField(default='', is_key=False, required=False)
    extras = ExtrasField(default=<function <lambd> at 0x7f44bbe53b18>, is_key=False, required=False)
    groups = GroupsField(default=<function <lambd> at 0x7f44bbe539b0>, is_key=False, required=False)
    resources = ResourcesField(default=<function <lambd> at 0x7f44bbe538c0>, is_key=False, required=False)
    tags = SetField(default=<function <lambd> at 0x7f44bbe539b0>, is_key=False, required=False)

class ckan_api_client.objects_ckan_dataset.CkanResource(values=None)
Bases: ckan_api_client.objects.base.BaseObject

    id = StringField(default=None, is_key=True, required=False)
    description = StringField(default='', is_key=False, required=False)
    format = StringField(default='', is_key=False, required=False)
    mimetype = StringField(default=None, is_key=False, required=False)
    mimetype_inner = StringField(default=None, is_key=False, required=False)
```

```

name = StringField(default='', is_key=False, required=False)
resource_type = StringField(default='', is_key=False, required=False)
size = StringField(default=None, is_key=False, required=False)
url = StringField(default='', is_key=False, required=False)
url_type = StringField(default=None, is_key=False, required=False)

```

2.2.4 Ckan group

```

class ckan_api_client.objects_ckan_group.CkanGroup (values=None)
    Bases: ckan_api_client.objects.base.BaseObject

    id = StringField(default=None, is_key=True, required=False)
    name = StringField(default=None, is_key=False, required=False)
    title = StringField(default='', is_key=False, required=False)
    approval_status = StringField(default='approved', is_key=False, required=False)
    description = StringField(default='', is_key=False, required=False)
    image_url = StringField(default='', is_key=False, required=False)
    is_organization = BoolField(default=False, is_key=False, required=False)
    state = StringField(default='active', is_key=False, required=False)
    type = StringField(default='group', is_key=False, required=False)
    extras = ExtrasField(default=<function <lambda> at 0x7f44bbe53b18>, is_key=False, required=False)
    groups = GroupsField(default=<function <lambda> at 0x7f44bbe539b0>, is_key=False, required=False)
    tags = ListField(default=<function <lambda> at 0x7f44bbe538c0>, is_key=False, required=False)

```

2.2.5 Ckan organization

```

class ckan_api_client.objects_ckan_organization.CkanOrganization (values=None)
    Bases: ckan_api_client.objects.base.BaseObject

    id = StringField(default=None, is_key=True, required=False)
    name = StringField(default=None, is_key=False, required=False)
    title = StringField(default='', is_key=False, required=False)
    approval_status = StringField(default='approved', is_key=False, required=False)
    description = StringField(default='', is_key=False, required=False)
    image_url = StringField(default='', is_key=False, required=False)
    is_organization = BoolField(default=True, is_key=False, required=False)
    state = StringField(default='active', is_key=False, required=False)
    type = StringField(default='organization', is_key=False, required=False)
    extras = ExtrasField(default=<function <lambda> at 0x7f44bbe53b18>, is_key=False, required=False)
    groups = GroupsField(default=<function <lambda> at 0x7f44bbe539b0>, is_key=False, required=False)

```

```
tags = ListField(default=<function <lambda> at 0x7f44bbe538c0>, is_key=False, required=False)
```

2.3 ckan_api_client.utils

```
class ckan_api_client.utils.IDPair
```

Bases: [ckan_api_client.utils.IDPair](#)

A pair (named tuple) mapping a “source” id with the one used internally in Ckan.

This is mostly used associated with [IDMap](#).

Keys: source_id, ckan_id

```
class ckan_api_client.utils.SuppressExceptionIf(cond)
```

Bases: object

Context manager used to suppress exceptions if they match a given condition.

Usage example:

```
is_404 = lambda x: isinstance(x, HTTPError) and x.status_code == 404
with SuppressExceptionIf(is_404):
    client.request(...)
```

```
class ckan_api_client.utils.IDMap
```

Bases: object

Two-way hashmap to map source ids to ckan ids and the other way back.

to_ckan(source_id)

Convert a source id to ckan id

to_source(ckan_id)

Convert a ckan id to source id

add(pair)

Add a new id pair

Parameters pair (*IDPair*) – the id pair to be added

Raises **ValueError** if one of the two ids is found in a mismatching pair

remove(pair)

Remove an id pair.

Parameters pair (*IDPair*) – the id pair to be removed

Raises **ValueError** if one of the two ids is found in a mismatching pair

```
class ckan_api_client.utils.FrozenDict(*a, **kw)
```

Bases: [_abcoll.MutableMapping](#)

Frozen dictionary. Acts as a read-only dictionary, preventing changes and returning frozen objects when asked for values.

```
class ckan_api_client.utils.FrozenSequence(data)
```

Bases: [_abcoll.Sequence](#)

Base class for the [FrozenList](#)/[FrozenTuple](#) classes. Acts as a read-only sequence type, returning frozen versions of mutable objects.

```
class ckan_api_client.utils.FrozenList(data)
    Bases: ckan_api_client.utils.FrozenSequence

    Immutable list-like.

class ckan_api_client.utils.FrozenTuple(data)
    Bases: ckan_api_client.utils.FrozenSequence

    Immutable tuple-like.

ckan_api_client.utils.freeze(obj)
    Returns the “frozen” version of a mutable type.

    Raises TypeError if a frozen version for that object doesn’t exist

class ckan_api_client.utils.WrappedList(*a, **kw)
    Bases: _abcoll.MutableSequence

    insert(pos, item)
```


Testing

All the testing is done via `py.test`. See the pages below on how to run and write tests.

3.1 Fixtures

Documentation of the available fixtures for tests.

3.1.1 Fixture functions

3.1.2 Utility objects

3.1.3 Utility functions

Functions used by fixtures.

3.2 Testing utilities

3.2.1 Data generation

```
ckan_api_client.tests.utils.generate.generate_organization()
```

Generate a random organization object, with:

- `name`, `random`, example: "org-abc123"
- `title`, `random`, example: "Organization abc123"
- `description`, `random`
- `image`, `url` pointing to a random-generated pic

```
ckan_api_client.tests.utils.generate.generate_group()
```

Generate a random group object, with:

- `name`, `random`, example: "grp-abc123"
- `title`, `random`, example: "Group abc123"
- `description`, `random`
- `image`, `url` pointing to a random-generated pic

`ckan_api_client.tests.utils.generate.generate_dataset()`

Generate a dataset, populated with random data.

Fields:

- `name` – random string, in the form `dataset-{random}`
- `title` – random string, in the form `Dataset {random}`
- `author` – random-generated name
- `author_email` – random-generated email address
- `license_id` – random license id. One of `cc-by`, `cc-zero`, `cc-by-sa` or `not specified`.
- `maintainer` – random-generated name
- `maintainer_email` – random-generated email address
- `notes` – random string, containing some markdown
- `owner_org` – set to `None`
- `private` – Fixed to `False`
- `tags` – random list of tags (strings)
- `type` – fixed string: `"dataset"`
- `url` – random url of dataset on an “external source”
- `extras` – dictionary containing random key / value pairs
- `groups` – empty list
- `resources` – list of random resources
- `relationships` – empty list

Note: The `owner_org` and `groups` fields will be blank, as they must match with existing groups / organizations and we don't have access to database from here (nor is it in the scope of this function!)

`ckan_api_client.tests.utils.generate.generate_resource()`

Generate a random resource, to be put in a dataset.

Fields:

- `url` – resource URL on an “external source”
- `resource_type` – one of `api` or `file`
- `name` – random-generated name
- `format` – a random format (eg: `csv`, `json`)
- `description` – random generated string

`ckan_api_client.tests.utils.generate.generate_tags(amount)`

Generate amount random tags. Each tag is in the form `tag-<random-int>`.

Returns a list of tag names

`ckan_api_client.tests.utils.generate.generate_extras(amount)`

Generate a dict with amount random key/value pairs.

```
ckan_api_client.tests.utils.generate.generate_data(dataset_count=50,
                                                    orgs_count=10,
                                                    groups_count=15)
```

Generate a bunch of random data. Will also associate datasets with random organizations / groups.

Returns a dict with the dataset, organization and group keys; each of them a dict of {key: object}.

```
ckan_api_client.tests.utils.generate.generate_id(length=10)
```

3.2.2 HTTP Utilities

Utilities for handling / checking HTTP responses

```
ckan_api_client.tests.utils.http.check_response_ok(response, status_code=200)
```

Warning: deprecated function. Use `check_api_v3_response()`.

```
ckan_api_client.tests.utils.http.check_response_error(response, status_code)
```

Warning: deprecated function. Use `check_api_v3_error()`.

```
ckan_api_client.tests.utils.http.check_api_v3_response(response, status_code=200)
```

Make sure that `response` is a valid successful response from API v3.

- check http status code to be in the 200-299 range
- check http status code to match `status_code`
- check content-type to be application/json
- check charset to be utf-8
- check content body to be valid json
- make sure response object contains the `success`, `result` and `help` keys.
- check that `success` is True
- check that `error` key is not in the response

Parameters

- **response** – a requests response
- **status_code** – http status code to be checked (default: 200)

```
ckan_api_client.tests.utils.http.check_api_v3_error(response, status_code)
```

Make sure that `response` is a valid error response from API v3.

- check http status code to match `status_code`

Parameters

- **response** – a requests response
- **status_code** – http status code to be checked

3.2.3 String-related

String generation functions.

```
ckan_api_client.tests.utils.strings.generate_password(length=20)  
Generate random password of the given length.
```

Beware that the string will be generate as random data from urandom, and returned as headecimal string of twice the length.

```
ckan_api_client.tests.utils.strings.generate_random_alphanum(length=10)  
Generate a random string, made of ascii letters + digits
```

```
ckan_api_client.tests.utils.strings.gen_random_id(length=10)  
Generate a random id, made of lowercase ascii letters + digits
```

```
ckan_api_client.tests.utils.strings.gen_dataset_name()  
Generate a random dataset name
```

```
ckan_api_client.tests.utils.strings.gen_picture(s, size=200)  
Generate URL to picture from some text hash
```

```
ckan_api_client.tests.utils.strings.gen_gravatar(s, size=200)  
Return URL for gravatar of md5 of string s
```

```
ckan_api_client.tests.utils.strings.gen_robohash(s, size=200)  
Return URL for robohash pic for sha1 hash of string s
```

3.2.4 Validation

Utility functions to validate expectations

```
ckan_api_client.tests.utils.validation.check_dataset(dataset, expected)  
Make sure dataset matches the expected one
```

```
ckan_api_client.tests.utils.validation.check_group(group, expected)  
Make sure group matches the expected one
```

```
ckan_api_client.tests.utils.validation.check_organization(organization, expected)  
Make sure organization matches the expected one
```

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