
kadi-apy
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Karlsruhe Institute of Technology

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Kadi-APY is a library for use in tandem with [Kadi4Mat](#). The REST-like API of Kadi4Mat makes it possible to programmatically interact with most of the resources that can be used through the web interface by sending suitable HTTP requests to the different endpoints the API provides. Detailed information about the API itself can be found in the developer [documentation](#) of Kadi4Mat.

The goal of this library is to make the use of this API as easy as possible. It offers both an object oriented approach to work with the API in Python as well as a command line interface (CLI). The library is written in Python 3 and works under both Linux and Windows.

INSTALLATION

The library can be installed using *pip3* (or *pip*, if there is no dedicated version of *pip* for Python 3 installed), which generally comes bundled with Python installations. Python version ≥ 3.6 is required.

```
$ pip3 install kadi-apy
```

When installing the library from source for development instead, it is recommended to install the library in editable mode, which simply creates a link to the sources so all changes are reflected in the installed package immediately. The command will also install some additional development dependencies as defined in *setup.py*.

```
$ pip3 install -e .[dev]
```

Running the installations inside a virtual environment is recommended, see [Virtualenv](#) for more information.

If you want to use the CLI, make sure the *kadi-apy* command is runnable from anywhere. Depending on the type of installation and if a virtual environment is used or not, the *PATH* system variable may need to be adapted accordingly to include the path the executable resides in. For example, the following command can be used on Linux, assuming the executable resides in *~/.local/bin*:

```
$ export PATH=${HOME}/.local/bin:${PATH}
```

This line can also be added to *.bashrc* so it will be executed each time a new terminal is opened:

```
$ echo 'export PATH=${HOME}/.local/bin:${PATH}' >> ${HOME}/.bashrc
```

On Windows, the *PATH* can be modified permanently by editing the respective environment variable in the advanced system settings of the control panel.

UPGRADE

To upgrade, run

```
$ pip3 install --upgrade kadi-apy
```

if you installed the library directly without source code. Otherwise fetch the latest code and install it again.

CONFIGURATION

To connect an instance of Kadi4Mat to a local installation of this library, the host of the Kadi4Mat instance as well as a personal access token (PAT) (or just token) are required.

The host is the fully qualified domain name of the Kadi4Mat instance, e.g. `https://kadi4mat.iam-cms.kit.edu` or `http://localhost:5000` for a typical local development installation.

A PAT can be created via the web interface of a Kadi4Mat instance in the menu found in *Settings > Access tokens* and will operate with the same permissions as the user that created the token. Besides specifying the name of the token, which only becomes important when managing multiple tokens, an expiration date can be set. This date can optionally be used to prohibit the usage of the token beyond the specified date. If no date is given, the token will never expire. As another security feature, a token can be limited to one or multiple *scopes*. Scopes can restrict a token's access to specific resources or actions. If no scopes are selected, the token will have full access by default.

You can either directly pass the token and host to the *KadiManager* or *CLIKadiManager*, e.g.

```
$ from kadi_apy import KadiManager
$ manager = KadiManager(host="your_host", token="your_token")
```

or use a config file to store those information. If no information of the host and token are given to the *KadiManager*, the *KadiManager* tries to load these values from the config file. The *kadi-apy* command line interface provides functions to configure the config file. You can run

```
$ kadi-apy config create
```

which creates the file `.kadiconfig` in your home directory. Use

```
$ kadi-apy config set-host
```

and

```
$ kadi-apy config set-pat
```

to store the corresponding values or open the file to fill in the host and PAT information. E.g.:

```
[global]
timeout = 60 # Global settings.
             # Timeout in seconds for the requests.
default = my_instance # The default Kadi4Mat instance to use.
verify = True # Whether to verify the SSL/TLS certificate of the_
             ↪host.
ca_bundle = /path/to/certfile # Optional CA bundle for SSL/TLS verification.

[my_instance]
host = https://example.com/
```

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```
pat = <your PAT>

[my_second_instance]
host = https://example2.com/
pat = <your second PAT>
```

When using the CLI, you can choose the instance to use. The default is defined by the key *default* in the section *[global]*. Optionally, you can include a path to certificates of trusted CAs in the config file via adding *ca_bundle = /path/to/certfile* which is used in case of *verify = True*.

This sections describes how to install, upgrade and configure the kadi-apy.

The following shows a python example:

```
$ from kadi_apy import KadiManager
$ manager = KadiManager()
$ record = manager.record(identifier="my_identifier", create=True)
$ record.upload_file("path_to_file")
```

Note that the functionality in *kadi_apy.lib* usually returns a response object as used in the [requests](#) library. See the file [example.py](#) for an example.

4.1 KadiManager

class `kadi_apy.lib.core.KadiManager` (*instance=None, host=None, token=None, verify=True, timeout=60, verbose=None*)

Base manager class for the API.

Manages the host and the personal access token (PAT) to use for all API requests. The KadiManager can instantiate new resources (e.g. records) via factory methods.

Parameters

- **instance** (*str, optional*) – The name of the instance to use in combination with a config file.
- **host** (*str, optional*) – Name of the host.
- **token** (*str, optional*) – Personal access token.
- **verify** (*bool, optional*) – Whether to verify the SSL/TLS certificate of the host.
- **timeout** (*float, optional*) – Timeout in seconds for the requests.
- **verbose** (*optional*) – Global verbose level to define the amount of prints.

collection (***kwargs*)

Init a collection.

Parameters ****kwargs** – Parameter for the initialization.

Returns The collection.

Return type *Collection*

debug (*text, **kwargs*)

Print text for debug level.

Parameters

- **text** – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Return type `echo()`

echo (*text*, *verbose_level*, ***kwargs*)

Print text via `click.echo()` if global verbose level is reached.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- **verbose_level** – Verbose level.
- ****kwargs** – Additional parameters for `click.echo()`.

error (*text*, ***kwargs*)

Print text for error level.

Parameters

- **text** – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Return type `echo()`

group (***kwargs*)

Init a group.

Parameters ****kwargs** – Parameter for the initialization.

Returns The group.

Return type `Group`

info (*text*, ***kwargs*)

Print text for info level.

Parameters

- **text** – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Return type `echo()`

is_verbose (*verbose_level*=<`Verbose.INFO: 10`>)

Check the verbose level.

Parameters **verbose_level** – Local verbose level of the function.

Returns True if verbose level is reached, False otherwise.

Return type `bool`

property misc

Functions for miscellaneous.

property pat_user

Get the user related to the PAT.

Returns The user.

Return type `User`

property pat_user_id

Get the user id related to the PAT.

Returns The user id.

Return type `int`

record (kwargs)**

Init a record.

Parameters ****kwargs** – Parameter for the initialization.

Returns The record.

Return type `Record`

search_resource (kwargs)**

Init a search for resources.

Parameters ****kwargs** – Parameter for the initialization.

Returns The search for resources.

Return type `SearchResource`

search_user (kwargs)**

Init a search for users.

Parameters ****kwargs** – Parameter for the initialization.

Returns The search for users.

Return type `SearchUser`

template (kwargs)**

Init a template.

Parameters ****kwargs** – Parameter for the initialization.

Returns The template.

Return type `Template`

user (kwargs)**

Init a user.

Parameters ****kwargs** – Parameter for the initialization.

Returns The user.

Return type `User`

warning (text, **kwargs)

Print text for warning level.

Parameters

- **text** – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Return type `echo()`

4.2 Record

```
class kadi_apy.lib.resources.records.Record(manager, id=None, identifier=None,
                                             skip_request=False, create=False,
                                             **kwargs)
```

Model to represent records.

Parameters

- **manager** (*KadiManager*) – Manager to use for all API requests.
- **id** (*int, optional*) – The ID of an existing resource.
- **identifier** (*str, optional*) – The unique identifier of a new or existing resource, which is only relevant if no ID was given. If present, the identifier will be used to check for an existing resource instead. If no existing resource could be found or the resource to check does not use a unique identifier, it will be used to create a new resource instead, together with the additional metadata.
- **skip_request** (*bool, optional*) – Flag to skip the initial request.
- **create** (*bool, optional*) – Flag to determine if a resource should be created in case a identifier is given and the resource does not exist.
- ****kwargs** (*dict*) – Additional metadata of the new resource to create.

```
add_collection_link (collection_id)
```

Add a record to a collection.

Parameters **collection_id** (*int*) – The ID of the collection to which the record should be added.

Returns The response object.

```
add_group_role (group_id, role_name)
```

Add a group role to a record.

Parameters

- **group_id** (*int*) – The ID of the group to add.
- **role_name** (*str*) – Role of the group.

Returns The response object.

```
add_metadata (metadata_new, force=False, callback=None)
```

Add metadata to a record.

Validation supports currently no nested metadata.

Parameters

- **metadata_new** (*dict, list*) – One or more metadata entries to add, either as dictionary or a list of dictionaries.
- **force** (*bool*) – Whether to overwrite the metadatum with the new value in case the metadatum already exists.
- **callback** (*optional*) – Callback function.

Returns The response object.

```
add_metadatum (metadatum, force=False)
```

Add metadatum to a record.

Validation supports currently no nested metadata.

Parameters

- **metadatum** (*dict*) – The metadatum to add.
- **force** (*bool*) – Whether to overwrite the metadatum with the new value in case the metadatum already exists.

Returns The response object.

add_tag (*tag*)

Add a tag.

Parameters **tag** (*str*) – The tag to add to the record.

Returns The response object.

add_user (*user_id*, *role_name*)

Add a user to a record.

Parameters

- **user_id** (*int*) – The ID of the user to add.
- **role_name** (*str*) – Role of the user.

Returns The response object.

change_group_role (*group_id*, *role_name*)

Change group role.

Parameters

- **group_id** (*int*) – The ID of the group whose role should be changed.
- **role_name** (*str*) – Name of the new role.

Returns The response object.

change_user_role (*user_id*, *role_name*)

Change user role.

Parameters

- **user_id** (*int*) – The ID of the user whose role should be changed.
- **role_name** (*str*) – Name of the new role.

Returns The response object.

check_metadatum (*metadatum*)

Check if a record has a certain metadatum.

Does currently not support metadata in nested types.

Parameters **metadatum** (*str*) – The metadatum to check.

Returns True is the metadatum exists, otherwise False.

Return type `bool`

check_tag (*tag*)

Check if given tag is already present.

Parameters **tag** (*str*) – The tag to check.

Returns True is file already exists, otherwise False.

Return type `bool`

debug (*text*, ****kwargs**)

Print text for debug level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The debug function defined in the manager.

delete ()

Delete the resource.

Returns The response object.

delete_file (*file_id*)

Delete a file of the record.

Parameters **file_id** (*str*) – The ID (UUID) of the file to delete.

Returns The response object.

delete_record_link (*record_link_id*)

Delete a record link.

Parameters **record_link_id** (*int*) – The ID of the record link to delete. Attention: The record link ID is not the record ID.

Returns The response object.

download_file (*file_id*, *file_path*)

Download a file from a record.

Parameters

- **file_id** (*str*) – The file ID of the file to download.
- **file_path** (*str*) – The file path to store the file.

Returns The response object.

edit (****kwargs**)

Edit the metadata of the resource.

Parameters ****kwargs** – The updated metadata of the resource.

Returns The response object.

edit_file (*file_id*, ****kwargs**)

Edit the metadata of a file of the record.

Parameters

- **file_id** (*str*) – The ID (UUID) of the file to edit.
- ****kwargs** – The metadata to update the file with.

Returns The response object.

error (*text*, ****kwargs**)

Print text for error level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.

- ****kwargs** – Additional parameters for `click.echo()`.

Returns The error function defined in the manager.

get_collection_links (***params*)

Get collection links. Supports pagination.

Parameters ****params** – Additional parameters.

Returns The response object.

get_file_id (*file_name*)

Get the file ID based on the file name.

Parameters **file_name** (*str*) – Additional parameters.

Raises *KadiAPYInputError* – If no file with given name exists.

Returns The file ID (UUID).

Return type *str*

get_file_info (*file_id*)

Get information of a file based on the file_id.

Parameters **file_id** (*str*) – The ID of the file.

Returns The response object.

get_file_name (*file_id*)

Get file name from a given file ID.

Parameters **file_id** – The ID of the file.

Raises *KadiAPYInputError* – If no file with the given file ID exists.

Returns The name of the file.

Return type *str*

get_filelist (***params*)

Get the filelist. Supports pagination.

Parameters ****params** – Additional parameters.

Returns The response object.

get_number_files ()

Get number of all files of a record.

Raises *KadiAPYRequestError* – If request was not successful to the endpoint.

Returns The number of files.

Return type *int*

get_record_links (***params*)

Get record links. Supports pagination.

Parameters ****params** – Additional parameters.

Returns The response object.

get_tags ()

Get all tags.

Returns A list of all tags.

Type *list*

get_users (***params*)

Get users from a record. Supports pagination.

Parameters ****params** – Additional parameters.

Returns The response object.

has_file (*file_name*)

Check if file with given name already exists.

Parameters **file_name** (*str*) – The name of the file.

Returns `True` is file already exists, otherwise `False`.

info (*text*, ***kwargs*)

Print text for info level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The info function defined in the manager.

is_verbose (***kwargs*)

Check the verbose level.

Returns The `is_verbose` function defined in the manager.

link_record (*record_to*, *name*)

Link record.

Parameters

- **record_to** (*int*) – The ID of the record to link.
- **name** (*str*) – The name of the link.

Returns The response object.

property meta

Get all metadata of the resource.

In case the previous metadata was invalidated, either manually, after a timeout or due to another request, a request will be sent to retrieve the possibly updated metadata again.

Returns The metadata of the resource.

remove_all_metadata ()

Remove all metadata from a record.

Returns The response object.

remove_collection_link (*collection_id*)

Remove a record from a collection.

Parameters **collection_id** (*int*) – The ID of the collection from which the record should be removed.

Returns The response object.

remove_group_role (*group_id*)

Remove a group role from a record.

Parameters **group_id** (*int*) – The ID of the group to remove.

Returns The response object.

remove_metadatum (*metadatum*)

Remove a metadatum from a record.

Only first level metadata are supported (no nested types).

Parameters **metadatum** (*str*) – The metadatum to remove.

Returns The response object.

remove_tag (*tag*)

Remove a tag.

Parameters **tag** (*str*) – The tag to remove from the record.

Returns The response object.

remove_user (*user_id*)

Remove a user from a record.

Parameters **user_id** (*int*) – The ID of the user to remove.

Returns The response object.

set_attribute (*attribute, value*)

Set attribute.

Parameters

- **attribute** (*str*) – The attribute to set.
- **value** – The value of the attribute.

Returns The response object.

upload_file (*file_path, file_name=None, replace=False*)

Upload a file into a record.

Parameters

- **file_path** (*str*) – The path to the file (incl. name of the file).
- **file_name** (*str, optional*) – The name under which the file should be stored. If no name is given, the name is taken from the file path.
- **replace** (*bool, optional*) – Whether to replace an existing file with identical name.

Returns The response object.

upload_string_to_file (*string, file_name, replace=False*)

Upload a string to save as a file in a record.

Parameters

- **string** (*str*) – The string to save as a file.
- **file_name** (*str*) – The name under which the file should be stored.
- **replace** (*bool, optional*) – Whether to replace an existing file with identical name.

Returns The response object.

warning (*text, **kwargs*)

Print text for warning level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The warning function defined in the manager.

4.3 Collection

```
class kadi_apy.lib.resources.collections.Collection(manager, id=None, identifier=None, skip_request=False, create=False, **kwargs)
```

Model to represent collections.

Parameters

- **manager** (*KadiManager*) – Manager to use for all API requests.
- **id** (*int, optional*) – The ID of an existing resource.
- **identifier** (*str, optional*) – The unique identifier of a new or existing resource, which is only relevant if no ID was given. If present, the identifier will be used to check for an existing resource instead. If no existing resource could be found or the resource to check does not use a unique identifier, it will be used to create a new resource instead, together with the additional metadata.
- **skip_request** (*bool, optional*) – Flag to skip the initial request.
- **create** (*bool, optional*) – Flag to determine if a resource should be created in case a identifier is given and the resource does not exist.
- ****kwargs** (*dict*) – Additional metadata of the new resource to create.

```
add_group_role(group_id, role_name)
```

Add a group role to a collection.

Parameters

- **group_id** (*int*) – The ID of the group to add.
- **role_name** (*str*) – Role of the group.

Returns The response object.

```
add_record_link(record_id)
```

Add a record to a collection.

Parameters **record_id** (*int*) – The ID of the record to add.

Returns The response object.

```
add_tag(tag)
```

Add a tag to a collection.

Parameters **tag** (*str*) – The tag to add to the collection.

Returns The response object.

```
add_user(user_id, role_name)
```

Add a user.

Parameters

- **user_id** (*int*) – The ID of the user to add.

- **role_name** (*str*) – Role of the user.

Returns The response object.

change_group_role (*group_id*, *role_name*)

Change group role.

Parameters

- **group_id** (*int*) – The ID of the group whose role should be changed.
- **role_name** (*str*) – Name of the new role.

Returns The response object.

change_user_role (*user_id*, *role_name*)

Change a user role.

Parameters

- **user_id** (*int*) – The ID of the user whose role should be changed.
- **role_name** (*str*) – Name of the new role.

Returns The response object.

check_tag (*tag*)

Check if a collection has a certain tag.

Parameters **tag** (*str*) – The tag to check.

Returns `True` if file already exists, otherwise `False`.

Return type `bool`

debug (*text*, ****kwargs**)

Print text for debug level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The debug function defined in the manager.

delete ()

Delete the resource.

Returns The response object.

edit (****kwargs**)

Edit the metadata of the resource.

Parameters ****kwargs** – The updated metadata of the resource.

Returns The response object.

error (*text*, ****kwargs**)

Print text for error level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The error function defined in the manager.

get_groups (**params)

Get groups of a collection. Supports pagination.

Parameters ****params** – Additional parameters.

Returns The response object.

get_records (**params)

Get records from a collection. Supports pagination.

Parameters ****params** – Additional parameters.

Returns The response object.

get_tags ()

Get all tags from a collection.

Returns A list of all tags.

Type list

get_users (**params)

Get user of a collection. Supports pagination.

Parameters ****params** – Additional parameters.

Returns The response object.

info (text, **kwargs)

Print text for info level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The info function defined in the manager.

is_verbose (**kwargs)

Check the verbose level.

Returns The `is_verbose` function defined in the manager.

property meta

Get all metadata of the resource.

In case the previous metadata was invalidated, either manually, after a timeout or due to another request, a request will be sent to retrieve the possibly updated metadata again.

Returns The metadata of the resource.

remove_group_role (group_id)

Remove a group role from a collection.

Parameters **group_id** (*int*) – The ID of the group to remove.

Returns The response object.

remove_record_link (record_id)

Remove a record from a collection.

Parameters **record_id** (*int*) – The ID of the record to remove.

Returns The response object.

remove_tag (tag)

Remove a tag from a collection.

Parameters `tag` (*str*) – The tag to remove from the collection.

Returns The response object.

remove_user (*user_id*)

Remove a user.

Parameters `user_id` (*int*) – The ID of the user to remove.

Returns The response object.

set_attribute (*attribute, value*)

Set attribute.

Parameters

- **attribute** (*str*) – The attribute to set.
- **value** – The value of the attribute.

Returns The response object.

warning (*text, **kwargs*)

Print text for warning level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The warning function defined in the manager.

4.4 Group

class `kadi_apy.lib.resources.groups.Group` (*manager, id=None, identifier=None, skip_request=False, create=False, **kwargs*)

Model to represent groups.

Parameters

- **manager** (`KadiManager`) – Manager to use for all API requests.
- **id** (*int, optional*) – The ID of an existing resource.
- **identifier** (*str, optional*) – The unique identifier of a new or existing resource, which is only relevant if no ID was given. If present, the identifier will be used to check for an existing resource instead. If no existing resource could be found or the resource to check does not use a unique identifier, it will be used to create a new resource instead, together with the additional metadata.
- **skip_request** (*bool, optional*) – Flag to skip the initial request.
- **create** (*bool, optional*) – Flag to determine if a resource should be created in case a identifier is given and the resource does not exist.
- ****kwargs** (*dict*) – Additional metadata of the new resource to create.

add_user (*user_id, role_name*)

Add a user.

Parameters

- **user_id** (*int*) – The ID of the user to add.

- **role_name** (*str*) – Role of the user.

Returns The response object.

change_user_role (*user_id*, *role_name*)

Change role of a user.

Parameters

- **user_id** (*int*) – The ID of the user whose role should be changed.
- **role_name** (*str*) – Name of the new role.

Returns The response object.

debug (*text*, ***kwargs*)

Print text for debug level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The debug function defined in the manager.

delete ()

Delete the resource.

Returns The response object.

edit (***kwargs*)

Edit the metadata of the resource.

Parameters ****kwargs** – The updated metadata of the resource.

Returns The response object.

error (*text*, ***kwargs*)

Print text for error level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The error function defined in the manager.

get_collections (***params*)

Get collections of a group. Supports pagination.

Parameters ****params** – Additional parameters.

Returns The response object.

get_records (***params*)

Get records of a group. Supports pagination.

Parameters ****params** – Additional parameters.

Returns The response object.

get_users (***params*)

Get users of a group. Supports pagination.

Parameters ****params** – Additional parameters.

Returns The response object.

info (*text*, ***kwargs*)

Print text for info level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The info function defined in the manager.

is_verbose (***kwargs*)

Check the verbose level.

Returns The `is_verbose` function defined in the manager.

property meta

Get all metadata of the resource.

In case the previous metadata was invalidated, either manually, after a timeout or due to another request, a request will be sent to retrieve the possibly updated metadata again.

Returns The metadata of the resource.

remove_user (*user_id*)

Remove a user.

Parameters **user_id** (*int*) – The ID of the user to remove.

Returns The response object.

set_attribute (*attribute*, *value*)

Set attribute.

Parameters

- **attribute** (*str*) – The attribute to set.
- **value** – The value of the attribute.

Returns The response object.

warning (*text*, ***kwargs*)

Print text for warning level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The warning function defined in the manager.

4.5 User

class `kadi_apy.lib.resources.users.User` (*manager*, *id=None*, *username=None*, *identity_type=None*, *use_pat=False*)

Model to represent users.

A user can either be clearly identified via its id or the combination of username and identity type.

Parameters

- **manager** (`KadiManager`) – Manager to use for all API requests.

- **id** (*int*, *optional*) – The ID of an existing user.
- **username** (*str*, *optional*) – The username.
- **identity_type** (*str*, *optional*) – The identity type of the user.
- **use_pat** (*bool*, *optional*) – Flag to indicate that the pat stored in the KadiManager should be used for instantiating the user.

debug (*text*, ***kwargs*)

Print text for debug level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The debug function defined in the manager.

error (*text*, ***kwargs*)

Print text for error level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The error function defined in the manager.

info (*text*, ***kwargs*)

Print text for info level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The info function defined in the manager.

is_verbose (***kwargs*)

Check the verbose level.

Returns The `is_verbose` function defined in the manager.

property meta

Get all metadata of the resource.

In case the previous metadata was invalidated, either manually, after a timeout or due to another request, a request will be sent to retrieve the possibly updated metadata again.

Returns The metadata of the resource.

warning (*text*, ***kwargs*)

Print text for warning level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The warning function defined in the manager.

4.6 Template

```
class kadi_apy.lib.resources.templates.Template(manager, id=None, identifier=None,
                                              skip_request=False, create=False,
                                              **kwargs)
```

Model to represent templates.

Parameters

- **manager** (*KadiManager*) – Manager to use for all API requests.
- **type** (*str*) – Type of the template. Can either be `record` or `extras`.
- **data** – Dict in case of a record template or a list in case of a extras template containing the content for the template.
- **id** (*int, optional*) – The ID of an existing resource.
- **identifier** (*str, optional*) – The unique identifier of a new or existing resource, which is only relevant if no ID was given. If present, the identifier will be used to check for an existing resource instead. If no existing resource could be found or the resource to check does not use a unique identifier, it will be used to create a new resource instead, together with the additional metadata.
- **skip_request** (*bool, optional*) – Flag to skip the initial request.
- **create** (*bool, optional*) – Flag to determine if a resource should be created in case a identifier is given and the resource does not exist.
- ****kwargs** (*dict*) – Additional metadata of the new resource to create.

```
debug (text, **kwargs)
```

Print text for debug level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The debug function defined in the manager.

```
delete ()
```

Delete the resource.

Returns The response object.

```
edit (**kwargs)
```

Edit the metadata of the resource.

Parameters ****kwargs** – The updated metadata of the resource.

Returns The response object.

```
error (text, **kwargs)
```

Print text for error level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The error function defined in the manager.

info (*text*, ***kwargs*)

Print text for info level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The info function defined in the manager.

is_verbose (***kwargs*)

Check the verbose level.

Returns The `is_verbose` function defined in the manager.

property meta

Get all metadata of the resource.

In case the previous metadata was invalidated, either manually, after a timeout or due to another request, a request will be sent to retrieve the possibly updated metadata again.

Returns The metadata of the resource.

set_attribute (*attribute*, *value*)

Set attribute.

Parameters

- **attribute** (*str*) – The attribute to set.
- **value** – The value of the attribute.

Returns The response object.

warning (*text*, ***kwargs*)

Print text for warning level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The warning function defined in the manager.

4.7 Miscellaneous

class `kadi_apy.lib.miscellaneous.Miscellaneous` (*manager*)

Model to handle miscellaneous.

Parameters **manager** (`KadiManager`) – Manager to use for all API requests.

debug (*text*, ***kwargs*)

Print text for debug level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The debug function defined in the manager.

error (*text*, ****kwargs**)

Print text for error level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The error function defined in the manager.

get_deleted_resources (****params**)

Get a list of deleted resources in the trash. Supports pagination.

Parameters ****params** – Additional parameters.

Returns The response object.

get_kadi_info ()

Get information about the Kadi instance.

Returns The response object.

get_licenses (****params**)

Get a list of available licenses. Supports pagination.

Parameters ****params** – Additional parameters.

Returns The response object.

info (*text*, ****kwargs**)

Print text for info level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The info function defined in the manager.

is_verbose (****kwargs**)

Check the verbose level.

Returns The `is_verbose` function defined in the manager.

purge (*item*, *item_id*)

Purge an item from the trash.

Parameters

- **item** – The resource type defined either as string or class.
- **item_id** (*int*) – The ID of the item to restore.

Returns The response object.

restore (*item*, *item_id*)

Restore an item from the trash.

Parameters

- **item** – The resource type defined either as string or class.
- **item_id** (*int*) – The ID of the item to restore.

Returns The response object.

warning (*text*, ***kwargs*)
Print text for warning level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The warning function defined in the manager.

4.8 SearchResource

class `kadi_apy.lib.search.SearchResource` (*manager*)
Search class for resources.

Parameters **manager** (`KadiManager`) – Manager to use for all API requests.

debug (*text*, ***kwargs*)
Print text for debug level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The debug function defined in the manager.

error (*text*, ***kwargs*)
Print text for error level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The error function defined in the manager.

info (*text*, ***kwargs*)
Print text for info level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The info function defined in the manager.

is_verbose (***kwargs*)
Check the verbose level.

Returns The `is_verbose` function defined in the manager.

search_items (*item*, ***params*)
Search for items.

Parameters

- **item** – The resource type defined either as string or class.
- ****params** – Additional parameters.

Returns The response object.

search_items_user (*item, user, **params*)

Search for items of users.

Parameters

- **item** – The resource type defined either as string or class.
- **user** – ID of the user whose items are to be searched for.
- ****params** – Additional parameters.

Returns The response object.

warning (*text, **kwargs*)

Print text for warning level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The warning function defined in the manager.

4.9 SearchUser

class `kadi_apy.lib.search.SearchUser` (*manager*)

Search class for users.

Parameters **manager** (`KadiManager`) – Manager to use for all API requests.

debug (*text, **kwargs*)

Print text for debug level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The debug function defined in the manager.

error (*text, **kwargs*)

Print text for error level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The error function defined in the manager.

info (*text, **kwargs*)

Print text for info level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The info function defined in the manager.

is_verbose (***kwargs*)

Check the verbose level.

Returns The `is_verbose` function defined in the manager.

search_users (***params*)

Search for users.

Parameters ****params** – Additional parameters.

Returns The response object.

warning (*text*, ***kwargs*)

Print text for warning level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The warning function defined in the manager.

4.10 Exceptions

exception `kadi_apy.lib.exceptions.KadiAPYConfigurationError`

Bases: `kadi_apy.lib.exceptions.KadiAPYException`

For errors relating to invalid configurations.

exception `kadi_apy.lib.exceptions.KadiAPYException`

Bases: `Exception`

Base exception class.

exception `kadi_apy.lib.exceptions.KadiAPYInputError`

Bases: `kadi_apy.lib.exceptions.KadiAPYException`

For errors relating to invalid inputs.

exception `kadi_apy.lib.exceptions.KadiAPYRequestError`

Bases: `kadi_apy.lib.exceptions.KadiAPYException`

For errors relating to invalid requests.

CLI/CLI-LIB

More advanced methods, which also include error handling and print outputs, can be found in *kadi_apy.cli.lib*. These functions can also be used to write own CLI tools.

```
$ from kadi_apy import CLIKadiManager

$ manager = CLIKadiManager()
$ record = manager.record(identifier="my_identifider", create=True)
$ record.upload_file("path_to_file")
```

5.1 CLIKadiManager

class `kadi_apy.cli.core.CLIKadiManager` (*verbose=<Verbose.INFO: 10>*, ***kwargs*)

Bases: *kadi_apy.lib.core.KadiManager*

Kadi Manager for the command line interface (CLI).

Parameters

- **instance** (*str*, *optional*) – The name of the instance to use in combination with a config file.
- **host** (*str*, *optional*) – Name of the host.
- **token** (*str*, *optional*) – Personal access token.
- **verify** (*bool*, *optional*) – Whether to verify the SSL/TLS certificate of the host.
- **timeout** (*float*, *optional*) – Timeout in seconds for the requests.
- **verbose** (*optional*) – Global verbose level to define the amount of prints.

collection (*use_base_resource=False*, ***kwargs*)

Init a collection to be used in a cli.

Parameters **use_base_resource** (*bool*) – Flag indicating if the base resource should be used.

Returns The collection of class *Collection* or *CLICollection*.

Return type *Collection*, *CLICollection*

debug (*text*, ***kwargs*)

Print text for debug level.

Parameters

- **text** – Text to be printed via `click.echo()`.

- ****kwargs** – Additional parameters for `click.echo()`.

Return type `echo()`

echo (*text*, *verbose_level*, ****kwargs**)

Print text via `click.echo()` if global verbose level is reached.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- **verbose_level** – Verbose level.
- ****kwargs** – Additional parameters for `click.echo()`.

error (*text*, ****kwargs**)

Print text for error level.

Parameters

- **text** – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Return type `echo()`

group (*use_base_resource=False*, ****kwargs**)

Init a group to be used in a cli.

Parameters **use_base_resource** (*bool*) – Flag indicating if the base resource should be used.

Returns The group of class `Group` or `CLIGroup`.

Return type `Group`, `CLIGroup`

info (*text*, ****kwargs**)

Print text for info level.

Parameters

- **text** – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Return type `echo()`

is_verbose (*verbose_level=<Verbose.INFO: 10>*)

Check the verbose level.

Parameters **verbose_level** – Local verbose level of the function.

Returns `True` if verbose level is reached, `False` otherwise.

Return type `bool`

property misc

Functions for miscellaneous.

property pat_user

Get the user related to the PAT.

Returns The user.

Return type `User`

property pat_user_id

Get the user id related to the PAT.

Returns The user id.

Return type `int`

record (*use_base_resource=False, **kwargs*)

Init a record to be used in a cli.

Parameters **use_base_resource** (*bool*) – Flag indicating if the base resource should be used.

Returns The record of class `Record` or `CLIRecord`.

Return type *Record, CLIRecord*

search_resource (*use_base_resource=False, **kwargs*)

Init a search to be used for resources in a cli.

Parameters **use_base_resource** (*bool*) – Flag indicating if the base resource should be used.

Returns The group of class `SearchResource` or `CLISearchResource`.

Return type *SearchResource or CLISearchResource*

search_user (*use_base_resource=False, **kwargs*)

Init a search to be used for users in a cli.

Parameters **use_base_resource** (*bool*) – Flag indicating if the base resource should be used.

Returns The group of class `SearchUser` or `CLISearchUser`.

Return type *SearchUser, CLISearchUser*

template (*use_base_resource=False, **kwargs*)

Init a template to be used in a cli.

Parameters **use_base_resource** (*bool*) – Flag indicating if the base resource should be used.

Returns The template of class `Template` or `CLITemplate`.

Return type *Template, CLITemplate*

user (*use_base_resource=False, **kwargs*)

Init a user to be used in a cli.

Parameters **use_base_resource** (*bool*) – Flag indicating if the base resource should be used.

Returns The user of class `User` or `CLIUser`.

Return type *User, CLIUser*

warning (*text, **kwargs*)

Print text for warning level.

Parameters

- **text** – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Return type *echo()*

5.2 CLIRecord

```
class kadi_apy.cli.lib.records.CLIRecord (pipe=False, title=None, create=False,  
                                           exit_not_created=False, **kwargs)
```

Bases: `kadi_apy.lib.resources.records.Record`

Records class to be used in a CLI.

Parameters

- **manager** (`CLIKadiManager`) – Manager to use for all API requests.
- **id** (*int, optional*) – The ID of an existing resource.
- **identifier** (*str, optional*) – The unique identifier of a new or existing resource, which is only relevant if no ID was given. If present, the identifier will be used to check for an existing resource instead. If no existing resource could be found or the resource to check does not use a unique identifier, it will be used to create a new resource instead, together with the additional metadata.
- **skip_request** (*bool, optional*) – Flag to skip the initial request.
- **create** (*bool, optional*) – Flag to determine if a resource should be created in case a identifier is given and the resource does not exist.
- **pipe** (*bool, optional*) – Flag to indicate if only the id should be printed which can be used for piping.
- **title** (*str, optional*) – Title of the new resource.
- **exit_not_created** (*bool, optional*) – Flag to indicate if the function should exit with `sys.exit(1)` if the resource is not created.

```
add_collection_link (collection)
```

Add a record to a collection using the CLI.

Parameters **collection** (`Collection`) – The collection to which the record should be added.

Raises `KadiAPYRequestError` – If request was not successful.

```
add_group_role (group, permission_new)
```

Add a group role to a record using a CLI.

Parameters

- **group** (`Group`) – The group to add.
- **permission_new** (*str*) – Role of the group.

Raises `KadiAPYRequestError` – If request was not successful.

```
add_metadata (metadata=None, file=None, force=False)
```

Add metadata with dict or a list of dicts as input using the CLI.

Either specify the metadata via a *file* to be read from or via *metadata*.

Parameters

- **metadata** (*dict, list*) – One or more metadata entries to add, either as dictionary or a list of dictionaries.
- **file** (*dict, list*) – File path to read the metadata from.
- **force** (*bool*) – Whether to overwrite existing metadata with identical name.

Raises **KadiAPYRequestError** – If request was not successful.

add_metadatum (*metadatum_new*, *force=False*)

Add a metadatum to a record using the CLI.

Parameters

- **metadatum_new** (*dict*) – The metadatum to add.
- **force** (*bool*) – Whether to overwrite the metadatum with the new value in case the metadatum already exists.

Raises **KadiAPYRequestError** – If request was not successful.

add_tag (*tag*)

Add a tag in using a CLI.

Parameters **tag** (*str*) – The tag to add to the record.

Raises **KadiAPYRequestError** – If request was not successful.

add_user (*user*, *permission_new*)

Add a user using a CLI.

Parameters

- **user** (*User*) – The user to add.
- **permission_new** (*str*) – Role of the user.

Raises **KadiAPYRequestError** – If request was not successful.

change_group_role (*group_id*, *role_name*)

Change group role.

Parameters

- **group_id** (*int*) – The ID of the group whose role should be changed.
- **role_name** (*str*) – Name of the new role.

Returns The response object.

change_user_role (*user_id*, *role_name*)

Change user role.

Parameters

- **user_id** (*int*) – The ID of the user whose role should be changed.
- **role_name** (*str*) – Name of the new role.

Returns The response object.

check_metadatum (*metadatum*)

Check if a record has a certain metadatum.

Does currently not support metadata in nested types.

Parameters **metadatum** (*str*) – The metadatum to check.

Returns True is the metadatum exists, otherwise False.

Return type `bool`

check_tag (*tag*)

Check if given tag is already present.

Parameters **tag** (*str*) – The tag to check.

Returns True is file already exists, otherwise False.

Return type bool

debug (*text*, ***kwargs*)

Print text for debug level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The debug function defined in the manager.

delete (*i_am_sure=False*)

Delete the record using a CLI.

Parameters **i_am_sure** (*bool*) – Flag which has to set to True to delete the record.

Raises

- **KadiAPYInputError** – If *i_am_sure* is not True.
- **KadiAPYRequestError** – If request was not successful.

delete_file (*file_id*)

Delete a file of the record using the CLI.

Parameters **file_id** (*str*) – The ID (UUID) of the file to delete.

Raises **KadiAPYRequestError** – If request was not successful.

delete_files (*i_am_sure=False*)

Delete all files of a record using the CLI.

Parameters **i_am_sure** (*bool*) – Flag which has to set to True to delete all files.

Raises

- **KadiAPYInputError** – If *i_am_sure* is not True.
- **KadiAPYRequestError** – If request was not successful.

delete_record_link (*record_link_id*)

Delete a record link using the CLI.

Parameters **record_link_id** (*int*) – The ID of the record link to delete. Attention: The record link ID is not the record ID.

Raises **KadiAPYRequestError** – If request was not successful.

download_file (*file_id*, *file_path*)

Download a file from a record.

Parameters

- **file_id** (*str*) – The file ID of the file to download.
- **file_path** (*str*) – The file path to store the file.

Returns The response object.

edit (***kwargs*)

Edit the metadata of the resource.

Parameters ****kwargs** – The updated metadata of the resource.

Returns The response object.

edit_file (*file, name, mimetype*)

Edit the metadata of a file of a record using the CLI.

Parameters

- **file** (*str*) – The ID (UUID) of the file to edit.
- **name** (*str*) – The new name of the file.
- **mimetype** (*str*) – The new mimetype of the file.

Raises *KadiAPYRequestError* – If request was not successful.

error (*text, **kwargs*)

Print text for error level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The error function defined in the manager.

get_collection_links (***params*)

Get collection links. Supports pagination.

Parameters ****params** – Additional parameters.

Returns The response object.

get_file (*filepath, force=False, file_id=None, pattern=None, exclude_pattern=None, use_folder=False*)

Download one file, all files or files matching a pattern from a record using the CLI.

If a file ID is given, the specified file is download. Otherwise all files or all files matching the pattern are downloaded.

Parameters

- **filepath** (*str*) – The path to folder to store the file.
- **force** (*bool, optional*) – Whether to overwrite a file with identical name.
- **file_id** (*bool, optional*) – The file ID (UUID) of a file to download.
- **pattern** (*str, optional*) – Pattern for selecting files matching certain pattern.
- **exclude_pattern** (*str, optional*) – Pattern for selecting files matching certain pattern.
- **use_folder** (*bool, optional*) – Flag indicating if the a folder with the name of the records's identifier should be created within given *filepath*. The downloaded file(s) are stored in this folder.

Raises *KadiAPYRequestError* – If request was not successful.

Returns A list of downloaded files with file path.

Type *list*

get_file_id (*file_name*)

Get the file ID based on the file name.

Parameters **file_name** (*str*) – Additional parameters.

Raises *KadiAPYInputError* – If no file with given name exists.

Returns The file ID (UUID).

Return type `str`

get_file_info (*file_id*)

Get information of a file based on the `file_id`.

Parameters `file_id` (*str*) – The ID of the file.

Returns The response object.

get_file_name (*file_id*)

Get file name from a given file ID.

Parameters `file_id` – The ID of the file.

Raises `KadiAPYInputError` – If no file with the given file ID exists.

Returns The name of the file.

Return type `str`

get_filelist (***params*)

Get the filelist. Supports pagination.

Parameters **`params` – Additional parameters.

Returns The response object.

get_metadatum (*name, information, pipe=False*)

Print a information of a metadatum using the CLI.

Parameters

- **name** (*str*) – The name of the matadatum.
- **information** (*str*) – The information to print (e.g. `value`).
- **pipe** (*bool*) – Whether only print the result for piping.

Raises `KadiAPYRequestError` – If request was not successful.

get_number_files ()

Get number of all files of a record.

Raises `KadiAPYRequestError` – If request was not successful to the endpoint.

Returns The number of files.

Return type `int`

get_record_links (*page, per_page, direction*)

Print record links to another record using the CLI.

Parameters

- **page** (*int*) – Page of the search request.
- **per_page** (*int*) – Number of results per page.
- **direction** (*str*) – Specify whether to print incoming or outcoming links

Raises `KadiAPYRequestError` – If request was not successful.

get_tags ()

Get all tags.

Returns A list of all tags.

Type `list`

get_users (***params*)

Get users from a record. Supports pagination.

Parameters ****params** – Additional parameters.

Returns The response object.

has_file (*file_name*)

Check if file with given name already exists.

Parameters **file_name** (*str*) – The name of the file.

Returns `True` if file already exists, otherwise `False`.

info (*text*, ***kwargs*)

Print text for info level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The info function defined in the manager.

is_verbose (***kwargs*)

Check the verbose level.

Returns The `is_verbose` function defined in the manager.

link_record (*record_to*, *name*)

Add a record link to a record using the CLI.

Parameters

- **record_to** (*record*) – The record to link.
- **name** (*str*) – The name of the link.

Raises `KadiAPYRequestError` – If request was not successful.

property meta

Get all metadata of the resource.

In case the previous metadata was invalidated, either manually, after a timeout or due to another request, a request will be sent to retrieve the possibly updated metadata again.

Returns The metadata of the resource.

print_info (***kwargs*)

Print record infos using a CLI.

Parameters ****kwargs** (*dict*) – Specify additional infos to print.

Raises `KadiAPYRequestError` – If request was not successful.

remove_all_metadata (*i_am_sure=False*)

Remove all metadata from a record.

Parameters **i_am_sure** (*bool*) – Flag which has to set to `True` to remove all metadata.

Raises `KadiAPYRequestError` – If request was not successful.

remove_collection_link (*collection*)

Remove a record from a collection using the CLI.

Parameters **collection** (`Collection`) – The collection from which the record should be removed.

Raises *KadiAPYRequestError* – If request was not successful.

remove_group_role (*group*)

Remove a group role from a record using a CLI.

Parameters **group** (*Group*) – The group to remove.

Raises *KadiAPYRequestError* – If request was not successful.

remove_metadatum (*metadatum*)

Delete a metadatum of a record using the CLI.

Only first level metadata are supported (no nested types).

Parameters **metadatum** (*str*) – The metadatum to remove.

Raises *KadiAPYRequestError* – If request was not successful.

remove_tag (*tag*)

Remove a tag from a record using a CLI.

Parameters **tag** (*str*) – The tag to remove from the record.

Raises *KadiAPYRequestError* – If request was not successful.

remove_user (*user*)

Remove a user using a CLI.

Parameters **user** (*User*) – The user to remove.

Raises *KadiAPYRequestError* – If request was not successful.

set_attribute (***kwargs*)

Set attribute using a CLI.

Parameters ****kwargs** (*dict*) – Dict containing attributes to set.

Raises *KadiAPYRequestError* – If request was not successful.

upload_file (*file_name*, *pattern=None*, *exclude_pattern=None*, *force=False*)

Upload files into a record using the CLI.

Parameters

- **file_path** (*str*) – The path to the file (incl. name of the file) of folder.
- **pattern** (*str*, *optional*) – Pattern for selecting files matching certain pattern.
- **exclude_pattern** (*str*, *optional*) – Pattern for excluding files matching certain pattern.
- **force** (*bool*, *optional*) – Whether to replace an existing file with identical name.

Raises *KadiAPYRequestError* – If request was not successful.

upload_string_to_file (*string*, *file_name*, *replace=False*)

Upload a string to save as a file in a record using the CLI.

Parameters

- **string** (*str*) – The string to save as a file.
- **file_name** (*str*) – The name under which the file should be stored.
- **replace** (*bool*, *optional*) – Whether to replace an existing file with identical name.

Raises *KadiAPYRequestError* – If request was not successful.

warning (*text*, ***kwargs*)
Print text for warning level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The warning function defined in the manager.

5.3 CLICollection

class `kadi_apy.cli.lib.collections.CLICollection` (*pipe=False*, *title=None*, *create=False*, *exit_not_created=False*, ***kwargs*)

Bases: `kadi_apy.lib.resources.collections.Collection`

Collection class to be used in a CLI.

Parameters

- **manager** (`CLIKadiManager`) – Manager to use for all API requests.
- **id** (*int*, *optional*) – The ID of an existing resource.
- **identifier** (*str*, *optional*) – The unique identifier of a new or existing resource, which is only relevant if no ID was given. If present, the identifier will be used to check for an existing resource instead. If no existing resource could be found or the resource to check does not use a unique identifier, it will be used to create a new resource instead, together with the additional metadata.
- **skip_request** (*bool*, *optional*) – Flag to skip the initial request.
- **create** (*bool*, *optional*) – Flag to determine if a resource should be created in case a identifier is given and the resource does not exist.
- **pipe** (*bool*, *optional*) – Flag to indicate if only the id should be printed which can be used for piping.
- **title** (*str*, *optional*) – Title of the new resource.
- **exit_not_created** (*bool*, *optional*) – Flag to indicate if the function should exit with `sys.exit(1)` if the resource is not created.

add_group_role (*group*, *permission_new*)
Add a group role to a collection using a CLI.

Parameters

- **group** (`Group`) – The group to add.
- **permission_new** (*str*) – Role of the group.

Raises `KadiAPYRequestError` – If request was not successful.

add_record_link (*record_to*)
Add a record to a collection using a CLI.

Parameters **record_to** (`Record`) – The the record to add.

Raises `KadiAPYRequestError` – If request was not successful.

add_tag (*tag*)

Add a tag in using a CLI.

Parameters **tag** (*str*) – The tag to add to the collection.

Raises *KadiAPYRequestError* – If request was not successful.

add_user (*user, permission_new*)

Add a user using a CLI.

Parameters

- **user** (*User*) – The user to add.
- **permission_new** (*str*) – Role of the user.

Raises *KadiAPYRequestError* – If request was not successful.

change_group_role (*group_id, role_name*)

Change group role.

Parameters

- **group_id** (*int*) – The ID of the group whose role should be changed.
- **role_name** (*str*) – Name of the new role.

Returns The response object.

change_user_role (*user_id, role_name*)

Change a user role.

Parameters

- **user_id** (*int*) – The ID of the user whose role should be changed.
- **role_name** (*str*) – Name of the new role.

Returns The response object.

check_tag (*tag*)

Check if a collection has a certain tag.

Parameters **tag** (*str*) – The tag to check.

Returns `True` is file already exists, otherwise `False`.

Return type `bool`

debug (*text, **kwargs*)

Print text for debug level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The debug function defined in the manager.

delete (*i_am_sure*)

Delete the resource using a CLI.

Parameters **i_am_sure** (*bool*) – Flag which has to set to `True` to delete the collection.

Raises

- *KadiAPYInputError* – If `i_am_sure` is not `True`.

- **KadiAPYRequestError** – If request was not successful.

edit (***kwargs*)

Edit the metadata of the resource.

Parameters ****kwargs** – The updated metadata of the resource.

Returns The response object.

error (*text*, ***kwargs*)

Print text for error level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The error function defined in the manager.

get_groups (***params*)

Get groups of a collection. Supports pagination.

Parameters ****params** – Additional parameters.

Returns The response object.

get_records (***params*)

Get records from a collection. Supports pagination.

Parameters ****params** – Additional parameters.

Returns The response object.

get_tags ()

Get all tags from a collection.

Returns A list of all tags.

Type `list`

get_users (***params*)

Get user of a collection. Supports pagination.

Parameters ****params** – Additional parameters.

Returns The response object.

info (*text*, ***kwargs*)

Print text for info level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The info function defined in the manager.

is_verbose (***kwargs*)

Check the verbose level.

Returns The `is_verbose` function defined in the manager.

property meta

Get all metadata of the resource.

In case the previous metadata was invalidated, either manually, after a timeout or due to another request, a request will be sent to retrieve the possibly updated metadata again.

Returns The metadata of the resource.

print_info (***kwargs*)

Print collection infos using a CLI.

Parameters ****kwargs** (*dict*) – Specify additional infos to print.

Raises *KadiAPYRequestError* – If request was not successful.

remove_group_role (*group*)

Remove a group role from a collection using a CLI.

Parameters **group** (*Group*) – The group to remove.

Raises *KadiAPYRequestError* – If request was not successful.

remove_record_link (*record*)

Remove a record from a collection using a CLI.

Parameters **record** (*Record*) – The record to remove.

Raises *KadiAPYRequestError* – If request was not successful.

remove_tag (*tag*)

Remove a tag from a collection using a CLI.

Parameters **tag** (*str*) – The tag to remove from the collection.

Raises *KadiAPYRequestError* – If request was not successful.

remove_user (*user*)

Remove a user using a CLI.

Parameters **user** (*User*) – The user to remove.

Raises *KadiAPYRequestError* – If request was not successful.

set_attribute (***kwargs*)

Set attribute using a CLI.

Parameters ****kwargs** (*dict*) – Dict containing attributes to set.

Raises *KadiAPYRequestError* – If request was not successful.

warning (*text*, ***kwargs*)

Print text for warning level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The warning function defined in the manager.

5.4 CLIGroup

class `kadi_apy.cli.lib.groups.CLIGroup` (*pipe=False, title=None, create=False, exit_not_created=False, **kwargs*)

Bases: `kadi_apy.lib.resources.groups.Group`

Group class to be used in a CLI.

Parameters

- **manager** (`CLIKadiManager`) – Manager to use for all API requests.
- **id** (*int, optional*) – The ID of an existing resource.
- **identifier** (*str, optional*) – The unique identifier of a new or existing resource, which is only relevant if no ID was given. If present, the identifier will be used to check for an existing resource instead. If no existing resource could be found or the resource to check does not use a unique identifier, it will be used to create a new resource instead, together with the additional metadata.
- **skip_request** (*bool, optional*) – Flag to skip the initial request.
- **create** (*bool, optional*) – Flag to determine if a resource should be created in case a identifier is given and the resource does not exist.
- **pipe** (*bool, optional*) – Flag to indicate if only the id should be printed which can be used for piping.
- **title** (*str, optional*) – Title of the new resource.
- **exit_not_created** (*bool, optional*) – Flag to indicate if the function should exit with `sys.exit(1)` if the resource is not created.

add_user (*user, permission_new*)

Add a user using a CLI.

Parameters

- **user** (`User`) – The user to add.
- **permission_new** (*str*) – Role of the user.

Raises `KadiAPYRequestError` – If request was not successful.

change_user_role (*user_id, role_name*)

Change role of a user.

Parameters

- **user_id** (*int*) – The ID of the user whose role should be changed.
- **role_name** (*str*) – Name of the new role.

Returns The response object.

debug (*text, **kwargs*)

Print text for debug level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The debug function defined in the manager.

delete (*i_am_sure*)

Delete the resource using a CLI.

Parameters **i_am_sure** (*bool*) – Flag which has to set to `True` to delete the collection.

Raises

- **KadiAPYInputError** – If `i_am_sure` is not `True`.
- **KadiAPYRequestError** – If request was not successful.

edit (***kwargs*)

Edit the metadata of the resource.

Parameters ****kwargs** – The updated metadata of the resource.

Returns The response object.

error (*text*, ***kwargs*)

Print text for error level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The error function defined in the manager.

get_collections (***params*)

Get collections of a group. Supports pagination.

Parameters ****params** – Additional parameters.

Returns The response object.

get_records (***params*)

Get records of a group. Supports pagination.

Parameters ****params** – Additional parameters.

Returns The response object.

get_users (***params*)

Get users of a group. Supports pagination.

Parameters ****params** – Additional parameters.

Returns The response object.

info (*text*, ***kwargs*)

Print text for info level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The info function defined in the manager.

is_verbose (***kwargs*)

Check the verbose level.

Returns The `is_verbose` function defined in the manager.

property meta

Get all metadata of the resource.

In case the previous metadata was invalidated, either manually, after a timeout or due to another request, a request will be sent to retrieve the possibly updated metadata again.

Returns The metadata of the resource.

print_info (***kwargs*)

Print group infos using a CLI.

Parameters ****kwargs** (*dict*) – Specify additional infos to print.

Raises *KadiAPYRequestError* – If request was not successful.

remove_user (*user*)

Remove a user using a CLI.

Parameters **user** (*User*) – The user to remove.

Raises *KadiAPYRequestError* – If request was not successful.

set_attribute (***kwargs*)

Set attribute using a CLI.

Parameters ****kwargs** (*dict*) – Dict containing attributes to set.

Raises *KadiAPYRequestError* – If request was not successful.

warning (*text, **kwargs*)

Print text for warning level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The warning function defined in the manager.

5.5 CLIUser

```
class kadi_apy.cli.lib.users.CLIUser (manager, id=None, username=None, identity_type=None, use_pat=False)
```

Bases: *kadi_apy.lib.resources.users.User*

User class to be used in a CLI.

A user can either be clearly identified via its id or the combination of username and identity type.

Parameters

- **manager** (*CLIManager*) – Manager to use for all API requests.
- **id** (*int, optional*) – The ID of an existing user.
- **username** (*str, optional*) – The username.
- **identity_type** (*str, optional*) – The identity type of the user.
- **use_pat** (*bool, optional*) – Flag to indicate that the pat stored in the CLIKadiManager should be used for instantiating the user.

debug (*text, **kwargs*)

Print text for debug level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The debug function defined in the manager.

error (*text*, ****kwargs**)

Print text for error level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The error function defined in the manager.

info (*text*, ****kwargs**)

Print text for info level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The info function defined in the manager.

is_verbose (****kwargs**)

Check the verbose level.

Returns The `is_verbose` function defined in the manager.

property meta

Get all metadata of the resource.

In case the previous metadata was invalidated, either manually, after a timeout or due to another request, a request will be sent to retrieve the possibly updated metadata again.

Returns The metadata of the resource.

print_info ()

Print user infos using a CLI.

warning (*text*, ****kwargs**)

Print text for warning level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The warning function defined in the manager.

5.6 CLITemplate

class `kadi_apy.cli.lib.templates.CLITemplate` (*pipe=False, title=None, create=False, exit_not_created=False, **kwargs*)

Bases: `kadi_apy.lib.resources.templates.Template`

Template class to be used in a CLI.

Parameters

- **manager** (`CLIKadiManager`) – Manager to use for all API requests.
- **type** (*str*) – Type of the template. Can either be `record` or `extras`.
- **data** – Dict in case of a record template or a list in case of a extras template containing the content for the template.
- **id** (*int, optional*) – The ID of an existing resource.
- **identifier** (*str, optional*) – The unique identifier of a new or existing resource, which is only relevant if no ID was given. If present, the identifier will be used to check for an existing resource instead. If no existing resource could be found or the resource to check does not use a unique identifier, it will be used to create a new resource instead, together with the additional metadata.
- **skip_request** (*bool, optional*) – Flag to skip the initial request.
- **create** (*bool, optional*) – Flag to determine if a resource should be created in case a identifier is given and the resource does not exist.
- **pipe** (*bool, optional*) – Flag to indicate if only the id should be printed which can be used for piping.
- **title** (*str, optional*) – Title of the new resource.
- **exit_not_created** (*bool, optional*) – Flag to indicate if the function should exit with `sys.exit(1)` if the resource is not created.

debug (*text, **kwargs*)

Print text for debug level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The debug function defined in the manager.

delete (*i_am_sure*)

Delete the resource using a CLI.

Parameters **i_am_sure** (*bool*) – Flag which has to set to `True` to delete the template.

Raises

- **KadiAPYInputError** – If `i_am_sure` is not `True`.
- **KadiAPYRequestError** – If request was not successful.

edit (***kwargs*)

Edit the metadata of the resource.

Parameters ****kwargs** – The updated metadata of the resource.

Returns The response object.

error (*text*, ***kwargs*)

Print text for error level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The error function defined in the manager.

info (*text*, ***kwargs*)

Print text for info level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The info function defined in the manager.

is_verbose (***kwargs*)

Check the verbose level.

Returns The `is_verbose` function defined in the manager.

property meta

Get all metadata of the resource.

In case the previous metadata was invalidated, either manually, after a timeout or due to another request, a request will be sent to retrieve the possibly updated metadata again.

Returns The metadata of the resource.

set_attribute (***kwargs*)

Set attribute using a CLI.

Parameters ****kwargs** (*dict*) – Dict containing attributes to set.

Raises *KadiAPYRequestError* – If request was not successful.

warning (*text*, ***kwargs*)

Print text for warning level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The warning function defined in the manager.

5.7 CLIMiscellaneous

class `kadi_apy.cli.lib.miscellaneous.CLIMiscellaneous` (*manager*)

Model to handle miscellaneous.

Parameters **manager** (*CLIKadiManager*) – Manager to use for all API requests.

debug (*text*, ***kwargs*)

Print text for debug level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The debug function defined in the manager.

error (*text*, ****kwargs**)

Print text for error level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The error function defined in the manager.

get_deleted_resources (****params**)

Get a list of deleted resources in the trash using the CLI. Supports pagination.

Parameters ****params** – Additional parameters.

Raises *KadiAPYRequestError* – If request was not successful.

get_kadi_info (*manager*)

Print information about the Kadi instance and the config file.

Parameters **manager** (*KadiManager*, *CLIKadiManager*) – Used Manager.

Raises *KadiAPYRequestError* – If request was not successful.

get_licenses (****params**)

Get a list of available licenses using the CLI.

Parameters ****params** – Additional parameters.

Raises *KadiAPYRequestError* – If request was not successful.

info (*text*, ****kwargs**)

Print text for info level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The info function defined in the manager.

is_verbose (****kwargs**)

Check the verbose level.

Returns The `is_verbose` function defined in the manager.

purge (*item*, *item_id*)

Purge an item from the trash using the CLI.

Parameters

- **item** – The resource type defined as class or string.
- **item_id** (*int*) – The ID of the item to restore.

Raises *KadiAPYRequestError* – If request was not successful.

restore (*item*, *item_id*)

Restore an item from the trash using the CLI.

Parameters

- **item** – The resource type defined as class.
- **item_id** (*int*) – The ID of the item to restore.

Raises *KadiAPYRequestError* – If request was not successful.

warning (*text*, ***kwargs*)

Print text for warning level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The warning function defined in the manager.

5.8 CLISearchResource

class `kadi_apy.cli.search.CLISearchResource` (*manager*)

Bases: `kadi_apy.lib.search.SearchResource`

Search class to be used in a cli.

Parameters **manager** (`CLIKadiManager`) – Manager to use for all API requests.

debug (*text*, ***kwargs*)

Print text for debug level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The debug function defined in the manager.

error (*text*, ***kwargs*)

Print text for error level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The error function defined in the manager.

info (*text*, ***kwargs*)

Print text for info level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The info function defined in the manager.

is_verbose (***kwargs*)

Check the verbose level.

Returns The `is_verbose` function defined in the manager.

search_items (*item*, ***params*)

Search for items.

Parameters

- **item** – The resource type defined either as string or class.
- ****params** – Additional parameters.

Returns The response object.

search_items_user (*item*, *user*, ***params*)

Search for items of users.

Parameters

- **item** – The resource type defined either as string or class.
- **user** – ID of the user whose items are to be searched for.
- ****params** – Additional parameters.

Returns The response object.

search_resource_ids (*item*, *pipe=False*, *i_am_sure=False*, ***params*)

Search for resource ids.

Parameters

- **item** – The resource type defined either as string or class.
- **pipe** (*bool*) – If the results should be printed in form of a tokenlist for piping.
- **i_am_sure** (*bool*) – If the search results in more than 1000 results, this flag has to be activated to search for all results.
- ****params** – Additional parameters for the search.

Raises *KadiAPYConfigurationError* – If more than 1000 results are found and the flag ‘i_am_sure’ is not set to true.

Returns A list of ids found.

Return type *list*

search_resources (*item*, *user=None*, *my_user_id=False*, ***params*)

Search for resources.

warning (*text*, ***kwargs*)

Print text for warning level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The warning function defined in the manager.

5.9 CLISearchUser

class `kadi_apy.cli.search.CLISearchUser` (*manager*)

Bases: `kadi_apy.lib.search.SearchUser`

User search class to be used in a cli.

Parameters `manager` (`CLIKadiManager`) – Manager to use for all API requests.

debug (*text*, ***kwargs*)

Print text for debug level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The debug function defined in the manager.

error (*text*, ***kwargs*)

Print text for error level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The error function defined in the manager.

info (*text*, ***kwargs*)

Print text for info level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The info function defined in the manager.

is_verbose (***kwargs*)

Check the verbose level.

Returns The `is_verbose` function defined in the manager.

search_users (***kwargs*)

Search for users.

Parameters ****params** – Additional parameters.

Returns The response object.

warning (*text*, ***kwargs*)

Print text for warning level.

Parameters

- **text** (*str*) – Text to be printed via `click.echo()`.
- ****kwargs** – Additional parameters for `click.echo()`.

Returns The warning function defined in the manager.

5.10 Decorators

`kadi_apy.cli.decorators.apy_command` (*use_kadi_manager=False*)

Decorator to handle the default arguments and exceptions of an APY command.

This function inits the *KadiManager* or *CLIKadiManager* and includes it as manager to ***kwargs*. It adds the options *instance* and *verbose* to the CLI tool.

Parameters *use_kadi_manager* (*bool, optional*) – Flag to use the *KadiManager* instead of the *CLIKadiManager*.

Raises

- *KadiAPYConfigurationError* – If the manager could not be initialized.
- *KadiAPYException* – Kadi-apy specific errors occur.
- `requests.exceptions.SSLError` – If an error occur relating to the SSL/TLS certificate.
- `requests.exceptions.MissingSchema` – If the host was not defined including the URL schema .

`kadi_apy.cli.decorators.file_id_options` (*helptext=None, required=True, name=None, char=None*)

Decorator to handle options to identify a file of a record.

Parameters

- *helptext* (*str, optional*) – Text to describe the input.
- *required* (*bool, optional*) – Whether to init the file is required.
- *name* (*str, optional*) – Name to better describe the input.
- *char* (*str, optional*) – Char for the options.

`kadi_apy.cli.decorators.id_identifier_options` (*class_type, keep_manager=False, helptext=None, name=None, required=True, char=None*)

Decorator to handle the common ID and identifier options of commands.

This function inits a resource and includes it to ***kwargs*. Is adds the options to read the ID or the identifier of the resource to the CLI tool.

Parameters

- *class_type* – The resource type defined either as string or class.
- *keep_manager* (*bool, optional*) – Whether to keep the manager for further use.
- *helptext* (*str, optional*) – Text to describe the input.
- *name* (*str, optional*) – Name to better describe the input.
- *required* (*bool, optional*) – Whether the parameter is required.
- *char* (*str, optional*) – Char for the options.

`kadi_apy.cli.decorators.user_id_options` (*helptext=None, required=True, keep_manager=False*)

Decorator to handle options to identify a user.

This function inits a *CLIUser* and includes it to ***kwargs*. Is adds the options to read the user ID, username and identity-type to the CLI tool.

Parameters

- **helptext** (*str*, *optional*) – Text to describe the input.
- **keep_manager** (*bool*, *optional*) – Whether to keep the manager for further use.
- **required** (*bool*, *optional*) – Whether to init the user is required.

The CLI can be used directly in the terminal, inside a shell script or by running it as an external command inside most programming languages. The first entry point to the CLI is given by running:

```
$ kadi-apy
```

All commands concerning different resources are available as various subcommands. For example, all subcommands to work with records can be listed by running:

```
$ kadi-apy records
```

The information on how to create a record can be accessed via:

```
$ kadi-apy records create --help
```

More examples of using the library can be found inside the [examples](#) directory inside this project, including a Python, bash and PowerShell script.

6.1 kadi-apy

The kadi-apy command line interface.

```
kadi-apy [OPTIONS] COMMAND [ARGS]...
```

Options

--commands

Print a list of all commands this group contains and exit.

6.1.1 collections

Commands to manage collections.

```
kadi-apy collections [OPTIONS] COMMAND [ARGS]...
```

Options

--commands

Print a list of all commands this group contains and exit.

add-group-role

Add a group role to a collection.

```
kadi-apy collections add-group-role [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- C, --collection-identifier** <collection_identifier>
Identifier of the collection to add the group with role permissions
- c, --collection-id** <collection_id>
ID of the collection to add the group with role permissions
- G, --group-identifier** <group_identifier>
Identifier of the group
- g, --group-id** <group_id>
ID of the group
- p, --permission-new** <permission_new>
Permission of the group
Default member
Options member | editor | admin

add-record-link

Link record to a collection.

```
kadi-apy collections add-record-link [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- C, --collection-identifier** <collection_identifier>
Identifier of the collection to link to the record
- c, --collection-id** <collection_id>
ID of the collection to link to the record
- R, --record-identifier** <record_identifier>
Identifier of the record to link to the collection

-r, --record-id <record_id>
ID of the record to link to the collection

add-tag

Add a tag to a collection.

```
kadi-apy collections add-tag [OPTIONS]
```

Options

-I, --instance <instance>
Name of a Kadi instance defined in the config file.

-C, --collection-identifier <collection_identifier>
Identifier of the collection to add a tag

-c, --collection-id <collection_id>
ID of the collection to add a tag

-t, --tag <tag>
Required Tag to add

add-user

Add a user to a collection.

```
kadi-apy collections add-user [OPTIONS]
```

Options

-I, --instance <instance>
Name of a Kadi instance defined in the config file.

-C, --collection-identifier <collection_identifier>
Identifier of the collection to add the user

-c, --collection-id <collection_id>
ID of the collection to add the user

-D, --identity-type <identity_type>
Identity type of the user
Options ldap | local | shib

-U, --username <username>
Username of the user

-u, --user <user>
ID of the user

-p, --permission-new <permission_new>
Permission of new user
Default member
Options member | editor | admin

create

Create a collection.

```
kadi-apy collections create [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- t, --title** <title>
Title of the collection
- i, --identifier** <identifier>
Required Identifier of the collection
- v, --visibility** <visibility>
Visibility of the collection
Default private
Options private | public
- p, --pipe**
Use this flag if you want to pipe the returned collection id.
Default False
- e, --exit-not-created**
Exit with error if the collection was not newly created.
Default False

delete

Delete a collection.

```
kadi-apy collections delete [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- C, --collection-identifier** <collection_identifier>
Identifier of the collection to delete
- c, --collection-id** <collection_id>
ID of the collection to delete
- i-am-sure**
Enable this option to delete the collection
Default False

edit

Edit visibility, title or description of a collection.

```
kadi-apy collections edit [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- C, --collection-identifier** <collection_identifier>
Identifier of the collection to edit
- c, --collection-id** <collection_id>
ID of the collection to edit
- v, --visibility** <visibility>
Visibility of the collection to set
Options private | public
- t, --title** <title>
Title of the collection to set
- d, --description** <description>
Description of the collection to set

get-collection-ids

Search for collections. The ids of all found results are displayed.

```
kadi-apy collections get-collection-ids [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- t, --tag** <tag>
Tag for search
- m, --mimetype** <mimetype>
MIME types for search
- H, --hide-public**
Hide public collections.
Default False
- p, --pipe**
Use this flag if you want to pipe the returned collection ids as tokenlist.
Default False
- i-am-sure**
Enable this option in case more than 1000 results are found.
Default False

get-collections

Search for collections.

```
kadi-apy collections get-collections [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- t, --tag** <tag>
Tag(s) for search
- p, --page** <page>
Page for search results
- n, --per-page** <per_page>
Number of results per page
Default 10
- D, --identity-type** <identity_type>
Identity type of the user to show the user's created collections.
Options ldap | local | shib
- U, --username** <username>
Username of the user to show the user's created collections.
- u, --user** <user>
ID of the user to show the user's created collections.
- i, --my_user_id**
Show only own created collections.
Default False
- H, --hide-public**
Hide public records.
Default False

remove-group-role

Remove a group role from a collection.

```
kadi-apy collections remove-group-role [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- C, --collection-identifier** <collection_identifier>
Identifier of the collection to remove the group
- c, --collection-id** <collection_id>
ID of the collection to remove the group
- G, --group-identifier** <group_identifier>
Identifier of the group
- g, --group-id** <group_id>
ID of the group

remove-record-link

Remove a record link from a collection.

```
kadi-apy collections remove-record-link [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- C, --collection-identifier** <collection_identifier>
Identifier of the collection to remove the record
- c, --collection-id** <collection_id>
ID of the collection to remove the record
- R, --record-identifier** <record_identifier>
Identifier of the record to remove from the collection
- r, --record-id** <record_id>
ID of the record to remove from the collection

remove-tag

Remove a tag from a collection.

```
kadi-apy collections remove-tag [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- C, --collection-identifier** <collection_identifier>
Identifier of the collection to remove a tag
- c, --collection-id** <collection_id>
ID of the collection to remove a tag
- t, --tag** <tag>
Required Tag to remove

remove-user

Remove a user from a collection.

```
kadi-apy collections remove-user [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- C, --collection-identifier** <collection_identifier>
Identifier of the collection to remove the user
- c, --collection-id** <collection_id>
ID of the collection to remove the user
- D, --identity-type** <identity_type>
Identity type of the user
Options ldap | local | shib
- U, --username** <username>
Username of the user
- u, --user** <user>
ID of the user

show-info

Show info of a collection.

```
kadi-apy collections show-info [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- C, --collection-identifier** <collection_identifier>
Identifier of the collection
- c, --collection-id** <collection_id>
ID of the collection
- d, --description**
Show the description of the collection
Default False
- v, --visibility**
Show the visibility of the collection
Default False
- r, --records**
Show linked records of the collection
Default False
- p, --page** <page>
Page for records list
Default 1
- n, --per-page** <per_page>
Number of results per page
Default 10

6.1.2 config

Commands to manage configurations.

```
kadi-apy config [OPTIONS] COMMAND [ARGS]...
```

Options

- commands**
Print a list of all commands this group contains and exit.

activate-autocompletion

Activate the autocompletion.

```
kadi-apy config activate-autocompletion [OPTIONS]
```

add-instance

Add a new instance to the config file.

```
kadi-apy config add-instance [OPTIONS]
```

Options

-I, --instance <instance>
Required Name of the new instance.

change-default-instance

Change the default instance.

```
kadi-apy config change-default-instance [OPTIONS]
```

Options

-I, --instance <instance>
Required Name of the new default instance.

create

Create the config file to store the information to connect to a Kadi instance.

```
kadi-apy config create [OPTIONS]
```

get-kadi-info

Get information about the Kadi instance.

```
kadi-apy config get-kadi-info [OPTIONS]
```

Options

-I, --instance <instance>
Name of a Kadi instance defined in the config file.

rename-instance

Rename an instance.

```
kadi-apy config rename-instance [OPTIONS]
```

Options

- I, --instance** <instance>
Required Name of the instance to change.
- N, --instance-new** <instance_new>
Required New name of the instance.

set-host

Set a host in the config file.

```
kadi-apy config set-host [OPTIONS]
```

Options

- I, --instance** <instance>
Name of the instance defined in the config. If empty, the default instance defined in the config file is used.

set-pat

Set a personal access token (pat) in the config file.

```
kadi-apy config set-pat [OPTIONS]
```

Options

- I, --instance** <instance>
Name of the instance defined in the config. If empty, the default instance defined in the config file is used.

show-instances

Show a list of all instances defined in the config.

```
kadi-apy config show-instances [OPTIONS]
```

6.1.3 groups

Commands to manage groups.

```
kadi-apy groups [OPTIONS] COMMAND [ARGS]...
```

Options

--commands

Print a list of all commands this group contains and exit.

add-user

Add a user to a group.

```
kadi-apy groups add-user [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- G, --group-identifier** <group_identifier>
Identifier of the group to add the user
- g, --group-id** <group_id>
ID of the group to add the user
- D, --identity-type** <identity_type>
Identity type of the user to add to the group
Options ldap | local | shib
- U, --username** <username>
Username of the user to add to the group
- u, --user** <user>
ID of the user to add to the group
- p, --permission-new** <permission_new>
Permission of new user
Default member
Options member | editor | admin

create

Create a group.

```
kadi-apy groups create [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- t, --title** <title>
Title of the group
- i, --identifier** <identifier>
Required Identifier of the group
- v, --visibility** <visibility>
Visibility of the group
Default private
Options private | public
- p, --pipe**
Use this flag if you want to pipe the returned group id.
Default False
- e, --exit-not-created**
Exit with error if the group was not newly created.
Default False

delete

Delete a group.

```
kadi-apy groups delete [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- G, --group-identifier** <group_identifier>
Identifier of the group to delete
- g, --group-id** <group_id>
ID of the group to delete
- i-am-sure**
Enable this option to delete the group
Default False

edit

Edit visibility, title or description of a group.

```
kadi-apy groups edit [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- G, --group-identifier** <group_identifier>
Identifier of the group to edit
- g, --group-id** <group_id>
ID of the group to edit
- v, --visibility** <visibility>
Visibility of the group to set
Options private | public
- t, --title** <title>
Title of the group to set
- d, --description** <description>
Description of the group to set

get-groups

Search for groups.

```
kadi-apy groups get-groups [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- p, --page** <page>
Page for search results
Default 1
- n, --per-page** <per_page>
Number of results per page
Default 10
- D, --identity-type** <identity_type>
Identity type of the user to show the user's created groups.
Options ldap | local | shib
- U, --username** <username>
Username of the user to show the user's created groups.

-u, --user <user>
ID of the user to show the user's created groups.

-i, --my_user_id
Show only own created groups.

Default False

-H, --hide-public
Hide public records.

Default False

remove-user

Remove a user from a group.

```
kadi-apy groups remove-user [OPTIONS]
```

Options

-I, --instance <instance>
Name of a Kadi instance defined in the config file.

-G, --group-identifier <group_identifier>
Identifier of the group to remove the user

-g, --group-id <group_id>
ID of the group to remove the user

-D, --identity-type <identity_type>
Identity type of the user to remove from the group

Options ldap | local | shib

-U, --username <username>
Username of the user to remove from the group

-u, --user <user>
ID of the user to remove from the group

show-info

Show info of a group.

```
kadi-apy groups show-info [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- G, --group-identifier** <group_identifier>
Identifier of the group
- g, --group-id** <group_id>
ID of the group
- d, --description**
Show the description of the group
Default False
- v, --visibility**
Show the visibility of the group
Default False

6.1.4 miscellaneous

Commands to manage miscellaneous.

```
kadi-apy miscellaneous [OPTIONS] COMMAND [ARGS]...
```

Options

- commands**
Print a list of all commands this group contains and exit.

get-deleted-resources

Show a list of deleted resources in the trash.

```
kadi-apy miscellaneous get-deleted-resources [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- p, --page** <page>
Page for search results
Default 1
- n, --per-page** <per_page>
Number of results per page
Default 10
- f, --filter** <filter>
Filter by title or identifier.
Default

get-licenses

Show a list available licenses.

```
kadi-apy miscellaneous get-licenses [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- p, --page** <page>
Page for search results
Default 1
- n, --per-page** <per_page>
Number of results per page
Default 10
- f, --filter** <filter>
Filter.
Default

purge-resource

Purge a resource from the trash.

```
kadi-apy miscellaneous purge-resource [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- t, --item-type** <item_type>
Required Type of the resource to restore
Options record | collection | group
- i, --item-id** <item_id>
ID of the resource to restore.
Default

restore-resource

Restore a resource from the trash.

```
kadi-apy miscellaneous restore-resource [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- t, --item-type** <item_type>
Required Type of the resource to restore
Options record | collection | group
- i, --item-id** <item_id>
ID of the resource to restore.
Default

6.1.5 records

Commands to manage records.

```
kadi-apy records [OPTIONS] COMMAND [ARGS]...
```

Options

- commands**
Print a list of all commands this group contains and exit.

add-files

Add a file or a folder content to a record.

```
kadi-apy records add-files [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- R, --record-identifier** <record_identifier>
Identifier of the record
- r, --record-id** <record_id>
ID of the record
- n, --file-name** <file_name>
Required Name of the file or folder

- p, --pattern** <pattern>
Pattern for selecting certain files when using a folder as input. By default, all files are taken into account. To set a pattern, Unix shell-style wildcards can be used (see Python package fnmatch).
- e, --exclude-pattern** <exclude_pattern>
Pattern for excluding certain files when using a folder as input. To set a pattern, Unix shell-style wildcards can be used (see Python package fnmatch).
- f, --force**
Enable if existing file(s) with identical name(s) should be replaced.

Default False

add-group-role

Add a group role to a record.

```
kadi-apy records add-group-role [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- R, --record-identifier** <record_identifier>
Identifier of the record to add the group with role permissions
- r, --record-id** <record_id>
ID of the record to add the group with role permissions
- G, --group-identifier** <group_identifier>
Identifier of the group
- g, --group-id** <group_id>
ID of the group
- p, --permission-new** <permission_new>
Permission of the group

Default member

Options member | editor | admin

add-metadata

Add metadata with dict or a list of dicts as input.

```
kadi-apy records add-metadata [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- R, --record-identifier** <record_identifier>
Identifier of the record to add metadata as dictionary or as a list of dictionaries
- r, --record-id** <record_id>
ID of the record to add metadata as dictionary or as a list of dictionaries
- m, --metadata** <metadata>
Metadata string input
- p, --file** <file>
Path to file containing metadata
- f, --force**
Force deleting and overwriting existing metadata
Default False

add-metadatum

Add a metadatum to a record.

```
kadi-apy records add-metadatum [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- R, --record-identifier** <record_identifier>
Identifier of the record to add a metadatum
- r, --record-id** <record_id>
ID of the record to add a metadatum
- m, --metadatum** <metadatum>
Required Name of metadatum to add
- v, --value** <value>
Required Value of metadatum to add
- t, --type** <type>
Type of metadatum to add
Default string
Options string | integer | float | boolean
- u, --unit** <unit>
Unit of metadatum to add
- f, --force**
Force overwriting existing metadatum with identical name
Default False

add-record-link

Add a record link to a record.

```
kadi-apy records add-record-link [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- R, --record-identifier** <record_identifier>
Identifier of the record
- r, --record-id** <record_id>
ID of the record
- L, --record-identifier-link** <record_identifier_link>
Identifier of the record to be linked
- l, --record-id-link** <record_id_link>
ID of the record to be linked
- n, --name** <name>
Required Name of the linking

add-string-as-file

Add a string as a file to a record.

```
kadi-apy records add-string-as-file [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- R, --record-identifier** <record_identifier>
Identifier of the record
- r, --record-id** <record_id>
ID of the record
- s, --string** <string>
Required String to be added as file to the record.
- n, --file-name** <file_name>
Required Name of the file to store the sting.
- f, --force**
Enable if existing file with identical name should be replaced.
Default False

add-tag

Add a tag to a record.

```
kadi-apy records add-tag [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- R, --record-identifier** <record_identifier>
Identifier of the record
- r, --record-id** <record_id>
ID of the record
- t, --tag** <tag>
Required Tag to add

add-user

Add a user to a record.

```
kadi-apy records add-user [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- R, --record-identifier** <record_identifier>
Identifier of the record
- r, --record-id** <record_id>
ID of the record
- D, --identity-type** <identity_type>
Identity type of the user to add
Options ldap | local | shib
- U, --username** <username>
Username of the user to add
- u, --user** <user>
ID of the user to add
- p, --permission-new** <permission_new>
Permission of new user
Default member
Options member | editor | admin

create

Create a record.

```
kadi-apy records create [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- i, --identifier** <identifier>
Required Identifier of the record
- t, --title** <title>
Title of the record
- v, --visibility** <visibility>
Visibility of the record
Default private
Options private | public
- p, --pipe**
Use this flag if you want to pipe the returned record id.
Default False
- e, --exit-not-created**
Exit with error if the record was not newly created.
Default False

delete

Delete a record.

```
kadi-apy records delete [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- R, --record-identifier** <record_identifier>
Identifier of the record to delete
- r, --record-id** <record_id>
ID of the record to delete
- i-am-sure**
Enable this option to delete the record
Default False

delete-all-metadata

Delete all metadata of a record.

```
kadi-apy records delete-all-metadata [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- R, --record-identifier** <record_identifier>
Identifier of the record to delete all metadata
- r, --record-id** <record_id>
ID of the record to delete all metadata
- i-am-sure**
Enable this option to delete all metadata of the record
Default False

delete-file

Delete a file of a record.

```
kadi-apy records delete-file [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- R, --record-identifier** <record_identifier>
Identifier of the record
- r, --record-id** <record_id>
ID of the record
- i, --file-id** <file_id>
ID of the file
- n, --file-name** <file_name>
Name of the file

delete-files

Delete all files of a record.

```
kadi-apy records delete-files [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- R, --record-identifier** <record_identifier>
Identifier of the record
- r, --record-id** <record_id>
ID of the record
- i-am-sure**
Enable this option to delete all files of the record
Default False

delete-metadatum

Delete a metadatum of a record.

```
kadi-apy records delete-metadatum [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- R, --record-identifier** <record_identifier>
Identifier of the record to delete a metadatum
- r, --record-id** <record_id>
ID of the record to delete a metadatum
- m, --metadatum** <metadatum>
Required Name of metadatum to remove

delete-record-link

Delete a record link.

```
kadi-apy records delete-record-link [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- R, --record-identifier** <record_identifier>
Identifier of the record
- r, --record-id** <record_id>
ID of the record
- l, --record-link-id** <record_link_id>
Required Record link ID.

edit

Edit visibility, title or description of a record.

```
kadi-apy records edit [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- R, --record-identifier** <record_identifier>
Identifier of the record to edit
- r, --record-id** <record_id>
ID of the record to edit
- v, --visibility** <visibility>
Visibility of the record
Options private | public
- t, --title** <title>
Title of the record
- d, --description** <description>
Description of the record
- y, --type** <type>
Type of the record

edit-file

Edit the metadata of a file of a record.

```
kadi-apy records edit-file [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- R, --record-identifier** <record_identifier>
Identifier of the record
- r, --record-id** <record_id>
ID of the record
- i, --file-id** <file_id>
ID of the file
- n, --file-name** <file_name>
Name of the file
- a, --name** <name>
The new name of the file.

-m, --mimetype <mimetype>
The new MIME type of the file.

get-file

Download one file, all files or files with pattern from a record.

```
kadi-apy records get-file [OPTIONS]
```

Options

-I, --instance <instance>
Name of a Kadi instance defined in the config file.

-R, --record-identifier <record_identifier>
Identifier of the record to download files from

-r, --record-id <record_id>
ID of the record to download files from

-i, --file-id <file_id>
ID of the file to download

-n, --file-name <file_name>
Name of the file to download

-p, --filepath <filepath>
Path (folder) to store the file

Default .

-P, --pattern <pattern>
Pattern for selecting certain files. To set a pattern, Unix shell-style wildcards can be used (see Python package fnmatch).

-e, --exclude-pattern <exclude_pattern>
Pattern for excluding certain files. To set a pattern, Unix shell-style wildcards can be used (see Python package fnmatch).

-f, --force
Force overwriting file in the given folder

Default False

-u, --use-folder
Create, if not already existing, a folder in the specified file path with the record's identifier as name and saves all files in this folder.

Default False

get-metadatum

Print a information of a metadatum.

```
kadi-apy records get-metadatum [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- R, --record-identifier** <record_identifier>
Identifier of the record
- r, --record-id** <record_id>
ID of the record
- n, --name** <name>
Required Name of the metadatum
- i, --information** <information>
Specify the information to print
Default value
Options value | unit | type
- p, --pipe**
Use this flag if you want to pipe the returned information.
Default False

get-record-ids

Search for records. The ids of all found results are displayed.

```
kadi-apy records get-record-ids [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- t, --tag** <tag>
Tag for search
- m, --mimetype** <mimetype>
MIME types for search
- c, --collection** <collection>
ID of a collection to search in
- H, --hide-public**
Hide public records.
Default False

-p, --pipe
Use this flag if you want to pipe the returned record ids as tokenlist.

Default False

--i-am-sure
Enable this option in case more than 1000 results are found.

Default False

get-records

Search for records.

```
kadi-apy records get-records [OPTIONS]
```

Options

-I, --instance <instance>
Name of a Kadi instance defined in the config file.

-t, --tag <tag>
Tag(s) for search

-m, --mimetype <mimetype>
MIME types for search

-p, --page <page>
Page for search results

Default 1

-n, --per-page <per_page>
Number of results per page

Default 10

-D, --identity-type <identity_type>
Identity type of the user to show the user's created records.

Options ldap | local | shib

-U, --username <username>
Username of the user to show the user's created records.

-u, --user <user>
ID of the user to show the user's created records.

-i, --my_user_id
Show only own created records.

Default False

-H, --hide-public
Hide public records.

Default False

remove-group-role

Remove a group role from a record.

```
kadi-apy records remove-group-role [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- R, --record-identifier** <record_identifier>
Identifier of the record
- r, --record-id** <record_id>
ID of the record
- G, --group-identifier** <group_identifier>
Identifier of the group
- g, --group-id** <group_id>
ID of the group

remove-tag

Remove a tag from a record.

```
kadi-apy records remove-tag [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- R, --record-identifier** <record_identifier>
Identifier of the record
- r, --record-id** <record_id>
ID of the record
- t, --tag** <tag>
Required Tag to remove

remove-user

Remove a user from a record.

```
kadi-apy records remove-user [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- R, --record-identifier** <record_identifier>
Identifier of the record
- r, --record-id** <record_id>
ID of the record
- D, --identity-type** <identity_type>
Identity type of the user to remove
Options ldap | local | shib
- U, --username** <username>
Username of the user to remove
- u, --user** <user>
ID of the user to remove

show-info

Prints information of a record.

```
kadi-apy records show-info [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- R, --record-identifier** <record_identifier>
Identifier of the record
- r, --record-id** <record_id>
ID of the record
- d, --description**
Show the description of the record
Default False
- l, --filelist**
Show the filelist of the record
Default False
- p, --page** <page>
Page for filelist
Default 1
- n, --per-page** <per_page>
Number of results per page
Default 10
- m, --metadata**
Show the metadata of the record

Default False

-v, --visibility
Show the visibility of the record

Default False

-i, --pipe
Use for piping. Do not show basic info.

Default False

show-record-links-to

Print record links to another record.

```
kadi-apy records show-record-links-to [OPTIONS]
```

Options

-I, --instance <instance>
Name of a Kadi instance defined in the config file.

-R, --record-identifier <record_identifier>
Identifier of the record

-r, --record-id <record_id>
ID of the record

-p, --page <page>
Page for search results

Default 1

-d, --direction <direction>
Page for search results

Default to

Options to | from

-n, --per-page <per_page>
Number of results per page

Default 10

6.1.6 templates

Commands to manage templates.

```
kadi-apy templates [OPTIONS] COMMAND [ARGS]...
```

Options

--commands

Print a list of all commands this group contains and exit.

create

Create a template.

```
kadi-apy templates create [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- i, --identifier** <identifier>
Required Identifier of the template
- t, --title** <title>
Title of the template
- y, --type** <type>
Type of the template
Default record
Options extras | record
- p, --pipe**
Use this flag if you want to pipe the returned template id.
Default False
- d, --data** <data>
Data for the template
- e, --exit-not-created**
Exit with error if the template was not newly created.
Default False

delete

Delete a template.

```
kadi-apy templates delete [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- T, --template-identifier** <template_identifier>
Identifier of the template to delete
- t, --template-id** <template_id>
ID of the template to delete
- i-am-sure**
Enable this option to delete the template
Default False

get-templates

Search for templates.

```
kadi-apy templates get-templates [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- p, --page** <page>
Page for search results
- n, --per-page** <per_page>
Number of results per page
Default 10

6.1.7 users

Commands to manage users.

```
kadi-apy users [OPTIONS] COMMAND [ARGS]...
```

Options

- commands**
Print a list of all commands this group contains and exit.

get-users

Search for users.

```
kadi-apy users get-users [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- p, --page** <page>
Page for search results
Default 1
- n, --per-page** <per_page>
Number of results per page
Default 10
- f, --filter** <filter>
To filter the users by their display name or username

show-info

Show info of a user.

```
kadi-apy users show-info [OPTIONS]
```

Options

- I, --instance** <instance>
Name of a Kadi instance defined in the config file.
- D, --identity-type** <identity_type>
Identity type of the user
Options ldap | local | shib
- U, --username** <username>
Username of the user
- u, --user** <user>
ID of the user

The library can be used by either directly importing it into any Python code or script or by using the command line interface (CLI). The library itself is divided into the sections *kadi_apy.lib* and *kadi_apy.cli.lib*. The former usually returns a response object as used in the [requests](#) library. The latter contains more advanced methods including error handling and print outputs.

RELEASE HISTORY

7.1 0.16.0 (2021-07-14)

- Include search function which returns a list of ids.
- Include CLI tools to search for record and collection ids.

7.2 0.15.0 (2021-06-24)

- Add factory methods for base functions into CLIKadiManager.
- Do not validate metadatum if value is `None`.

7.3 0.14.0 (2021-06-17)

- Improve documentation.

7.4 0.13.0 (2021-06-08)

- Add option to store record files in a folder based on the record's identifier.
- Add basic validation for host input.
- Add more CLI config tools.

7.5 0.12.0 (2021-06-01)

- Doc improvements.
- Add option to use the KadiManager via the '@apy_command' decorator.

7.6 0.11.1 (2021-05-18)

- Smaller refactoring in docs.
- Fix bash example script.
- Show also username in user search.
- Set identity type to required in case of specifying user via username.

7.7 0.11.0 (2021-05-11)

- Include docs.
- Refactor verbose.
- Introduce a `CLIKadiManager`.

7.8 0.10.0 (2021-04-29)

- Update `README.md`.
- Changed two required arguments of `upload_file` method of `CLIRecord` class to optional.
- Include verbose level to manage the amount of print outputs.

7.9 0.9.1 (2021-04-23)

- Add pypi deploy runner.

7.10 0.9.0 (2021-04-22)

- Add CLI tools to configure the config file.
- Move `get-kadi-info` from CLI group `miscellaneous` to `config`.

7.11 0.8.0 (2021-04-12)

- Add default value in records `get-metadatum`.
- Add `get_file_info` function for records.
- Return list of downloaded file(s) in `get_file`
- Add experimental CLI tool to download and execute a workflow.
- Add CLI tool `kadi-apy miscellaneous get-kadi-info`.
- Exit with error code 1 during uploading a file in case the file already exists and should not be replaced.

7.12 0.7.0 (2021-03-24)

- Add `exit-not-created` flag to CLI create tools.
- Fix order in which `_meta` is invalidated.
- Add option to download only those files from record matching pattern.
- Add char options for decorator to define options of files and resources.
- Add CLI tool `add-string-as-file`.

7.13 0.6.0 (2021-02-26)

- Add option to use certificates from `ca_bundle`.
- Add option skip the initial request.

7.14 0.5.0 (2021-02-24)

- Include a config file to store the information about host and PAT.
- Added timeout config option.
- Add autocompletion.

7.15 0.4.1 (2021-02-02)

- Include the `-version` output.
- Add handling for missing schema exception.
- Unify the behavior of decorators if information is not required.
- Add `-xmlhelp` runner

7.16 0.4.0 (2021-01-22)

- Add option to hide public resources in the CLI search.
- Functions to handle miscellaneous (license search, remove item from trash).
- Add function to remove all metadata from a record.

7.17 0.3.3 (2021-01-14)

- Smaller cleanups.

7.18 0.3.2 (2021-01-14)

- Include missing `__init__.py`.

7.19 0.3.1 (2021-01-14)

- Include `xmlhelpy` import from `pypi`.

7.20 0.3.0 (2021-01-14)

- Include definition of public api.
- Integration of `-xmlhelp` option to all CLI tools.
- Definition of CLI classes which can be used in additions tools.
- Print more infos when using the CLI.
- Various refactoring.

7.21 0.2.3 (2020-10-23)

- Fix for specifying PAT and host directly in certain cli commands.

7.22 0.2.2 (2020-10-23)

- Raise exception instead of `sys.exit(1)` for cli functions.

7.23 0.2.1 (2020-10-05)

- Update examples.

7.24 0.2.0 (2020-10-02)

- Work with identifiers for items.

7.25 0.1.2 (2020-09-25)

- Include group roles for records and collections.
- Add option to skip ssl/tls cert verification.

7.26 0.1.1 (2020-09-21)

- Improved printing for updated metadata.
- Smaller improvements.

7.27 0.1.0 (2020-09-09)

- Most API endpoints for managing records, collections and groups, as well as some others, are usable directly through the library.
- Most of that functionality is also exposed via CLI by using the kadi-apy command.

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