
Gerrit Client with Python

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CONTENTS

1	Compatibility	3
2	Installation	5
3	Change Log	7
4	Documentation	9
4.1	Setup a Gerrit Client	9
4.2	Example	9
4.3	API Reference	15
5	Indices and tables	83
	Python Module Index	85
	Index	87

python-gerrit-api provides a simple interface for clients to interact with Gerrit via the REST API.

COMPATIBILITY

- This package is compatible Python versions 2.7, 3.5+.

INSTALLATION

Use **pip** to install the latest stable version of `python-gerrit-api`:

```
$ sudo pip install python-gerrit-api
```

The current development version is available on [github](#). Use **git** and **python setup.py** to install it:

```
$ git clone https://github.com/shijl0925/python-gerrit-api.git
$ cd python-gerrit-api
$ sudo python setup.py install
```


CHANGE LOG

See the [CHANGELOG.md](#) file.

DOCUMENTATION

This part of the documentation will show you how to get started in using python-gerrit-api.
The Client is easy to use, you just need to initialize it with the connection parameters.

4.1 Setup a Gerrit Client

```
from gerrit import GerritClient  
  
client = GerritClient(base_url="https://yourgerrit", username='*****', password='xxxxx')
```

4.2 Example

Refer to the example script for a full working example.

4.2.1 API examples

api/projects

Examples

setup gerrit client:

```
from gerrit import GerritClient  
client = GerritClient(base_url="https://yourgerrit", username='*****', password='xxxxx')
```

Lists the projects:

```
projects = client.projects.list()
```

Retrieves a project.:

```
project = client.projects.get(project_name="MyProject")
```

Creates a new project.:

```
input_ = {
    "description": "This is a demo project.",
    "submit_type": "INHERIT",
    "owners": [
        "MyProject-Owners"
    ]
}
project = client.projects.create('MyProject', input_)
```

Delete the project, requires delete-project plugin:

```
client.projects.delete("MyProject")
# or
project = client.projects.get(project_name="MyProject")
project.delete()
```

api/project

Examples

setup gerrit client and retrieve one project instance:

```
from gerrit import GerritClient
client = GerritClient(base_url="https://yourgerrit", username='*****', password='xxxxx')

project = client.projects.get('python-sonarqube-api')
```

Retrieves the description of a project.:

```
description = project.get_description()
```

Sets the description of a project.:

```
input_ = {
    "description": "Plugin for Gerrit that handles the replication.",
    "commit_message": "Update the project description"
}
result = project.set_description(input_)
```

Deletes the description of a project.:

```
project.delete_description()
```

Delete the project, requires delete-project plugin:

```
project.delete()
```

Sets the configuration of a project.:

```
input_ = {
    "description": "demo project",
    "use_contributor_agreements": "FALSE",
```

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```

    "use_content_merge": "INHERIT",
    "use_signed_off_by": "INHERIT",
    "create_new_change_for_all_not_in_target": "INHERIT",
    "enable_signed_push": "INHERIT",
    "require_signed_push": "INHERIT",
    "reject_implicit_merges": "INHERIT",
    "require_change_id": "TRUE",
    "max_object_size_limit": "10m",
    "submit_type": "REBASE_IF_NECESSARY",
    "state": "ACTIVE"
}
result = project.set_config(input_)

```

Lists the access rights for a single project.:

```
access_rights = project.get_access_rights()
```

Create Change for review. support this method since v3.3.0:

```

input_ = {
    "subject": "Let's support 100% Gerrit workflow direct in browser",
    "branch": "stable",
    "topic": "create-change-in-browser",
    "status": "NEW"
}

result = project.create_change(input_)

```

List the branches of a project.:

```
branches = project.branches.list()
```

get a branch by ref:

```
branch = project.branches.get('refs/heads/stable')
```

Creates a new branch.:

```

input_ = {
    'revision': '76016386a0d8ecc7b6be212424978bb45959d668'
}
new_branch = project.branches.create('stable', input_)

```

Delete a branch.:

```
branch.delete()
```

Retrieves a commit of a project.:

```
commit = project.get_commit('c641ab4dd180b4184f2663bd28277aa796b36417')
```

Retrieves the branches and tags in which a change is included.:

```
result = commit.get_include_in()
```

Gets the content of a file from a certain commit.:

```
content = commit.get_file_content('sonarqube/community/components.py')
```

Cherry-picks a commit of a project to a destination branch.:

```
input_ = {
    "message": "Test Cherry Pick",
    "destination": "stable"
}

commit.cherry_pick(input_)
```

Lists the files that were modified, added or deleted in a commit.:

```
result = commit.list_change_files()
```

api/changes

Examples

setup gerrit client:

```
from gerrit import GerritClient
client = GerritClient(base_url="https://yourgerrit", username='*****', password='xxxxx')
```

Queries changes.:

```
result = client.changes.search(query=['status:open'])
# or
query = ["is:open+owner:self", "is:open+reviewer:self+-owner:self",
↪ "is:closed+owner:self+limit:5"]
result = client.changes.search(query=query, options=["LABELS"])
```

Retrieves a change.:

```
change = client.changes.get("MyProject~master~I39b027b763fb0b0dc7ed6c9e6bb5128d882dbe7c")
```

create a change.:

```
input_ = {
    "project": "myProject",
    "subject": "Let's support 100% Gerrit workflow direct in browser",
    "branch": "stable",
    "topic": "create-change-in-browser",
    "status": "NEW"
}
result = client.changes.create(input_)
```

Deletes a change.:


```
client.changes.delete("MyProject~master~I39b027b763fb0b0dc7ed6c9e6bb5128d882dbe7c")
# or
change = client.changes.get("MyProject~master~I39b027b763fb0b0dc7ed6c9e6bb5128d882dbe7c")
change.delete()
```

api/change

Examples

setup gerrit client and retrieve one change instance:

```
from gerrit import GerritClient
client = GerritClient(base_url="https://yourgerrit", username='*****', password='xxxxx')

change = client.changes.get(
    "MyProject~master~I39b027b763fb0b0dc7ed6c9e6bb5128d882dbe7c"
)
```

Update an existing change by using a MergePatchSetInput entity.:

```
input_ = {
    "subject": "Merge master into stable",
    "merge": {
        "source": "refs/heads/master"
    }
}

result = change.update(input_)
```

Creates a new patch set with a new commit message.:

```
input_ = {
    "message": "New Commit message \\n\\nChange-Id: I10394472cbd17dd12454f229e4f6de00b143a444\\n"
}

result = change.set_commit_message(input_)
```

Retrieves the topic of a change.:

```
topic = change.get_topic()
```

Sets the topic of a change.:

```
topic = change.set_topic("test topic")
```

Deletes the topic of a change.:

```
change.delete_topic()
```

Retrieves the account of the user assigned to a change.:

```
assignee = change.get_assignee()
```

Sets the assignee of a change.:

```
input_ = {
    "assignee": "jhon.doe"
}
result = change.set_assignee(input_)
```

Returns a list of every user ever assigned to a change, in the order in which they were first assigned.:

```
result = change.get_past_assignees()
```

Deletes the assignee of a change.:

```
result = change.delete_assignee()
```

Abandons a change.:

```
result = change.abandon()
```

Restores a change.:

```
result = change.restore()
```

Deletes a change.:

```
change.delete()
```

Marks the change to be private. Only open changes can be marked private.:

```
input_ = {
    "message": "After this security fix has been released we can make it public now."
}
change.mark_private(input_)
```

Marks the change to be non-private. Note users can only unmark own private changes.:

```
input_ = {
    "message": "This is a security fix that must not be public."
}
change.unmark_private(input_)
# or
change.unmark_private()
```

get one revision by revision id.:

```
revision = change.get_revision("534b3ce21655a092eccf72680f2ad16b8fecf119")
```

4.3 API Reference

If you are looking for information on a specific function, class or method, this part of the documentation is for you.

4.3.1 gerrit package

Subpackages

`gerrit.accounts` package

Submodules

`gerrit.accounts.account` module

class `gerrit.accounts.account.GerritAccount(account, gerrit)`

Bases: `GerritBase`

check_capability(capability)

Checks if a user has a certain global capability.

Parameters

capability –

Returns

delete_active()

Sets the account state to inactive. If the account was already inactive the response is '409 Conflict'.

Returns

delete_draft_comments(input_)

Deletes some or all of a user's draft comments.

```
input_ = {
    "query": "is:abandoned"
}
account = client.accounts.get('kevin.shi')
result = account.delete_draft_comments(input_)
```

Parameters

input – the DeleteDraftCommentsInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-accounts.html#delete-draft-comments-input>

Returns

delete_external_ids(input_)

Delete a list of external ids for a user account. Only external ids belonging to the caller may be deleted. Users that have Modify Account can delete external ids that belong to other accounts.

```
input_ = [
    "mailto:john.doe@example.com"
]
```

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```
account = client.accounts.get('kevin.shi')
result = account.delete_external_ids(input_)
```

Parameters**input** – the external ids as list**Returns****delete_http_password()**

Deletes the HTTP password of an account.

Returns**delete_name()**

Deletes the name of an account. Some realms may not allow to delete the account name. In this case the request is rejected with '405 Method Not Allowed'.

Returns**delete_watched_projects(input_)**

Projects posted to this endpoint will no longer be watched.

```
input_ = [
    {
        "project": "Test Project 1",
        "filter": "branch:master"
    }
]

account = client.accounts.get('kevin.shi')
result = account.delete_watched_projects(input_)
```

Parameters**input** – the watched projects as list**Returns****property emails****get_active()**

Checks if an account is active.

Returns**get_avatar()**

Retrieves the avatar image of the user, requires avatars-gravatar plugin.

Returns**get_avatar_change_url()**

Retrieves the avatar image of the user, requires avatars-gravatar plugin.

Returns

get_default_starred_changes()

Gets the changes that were starred with the default star by the identified user account.

Returns**get_detail()**

fetch account info in more details, such as: registered_on

Returns**get_diff_preferences()**

Retrieves the diff preferences of a user.

Returns**get_edit_preferences()**

Retrieves the edit preferences of a user.

Returns**get_external_ids()**

Retrieves the external ids of a user account. Only external ids belonging to the caller may be requested. Users that have Modify Account can request external ids that belong to other accounts.

Returns**get_name()**

Retrieves the full name of an account.

Returns**get_oauth_token()**

Returns a previously obtained OAuth access token. If there is no token available, or the token has already expired, '404 Not Found' is returned as response. Requests to obtain an access token of another user are rejected with '403 Forbidden'.

Returns**get_star_labels_from_change(id_)**

Get star labels from a change.

Parameters

id – change id

Returns**get_starred_changes()**

Gets the changes that were starred with any label by the identified user account.

Returns**get_status()**

Retrieves the status of an account. If the account does not have a status an empty string is returned.

Getter

Retrieves the status of an account.

Setter

Sets the status of an account

Returns

get_user_preferences()

Retrieves the user's preferences.

Returns**get_watched_projects()**

Retrieves all projects a user is watching.

Returns**property gpg_keys****property groups**

Lists all groups that contain the specified user as a member.

Returns**index()**

Adds or updates the account in the secondary index.

Returns**list_capabilities()**

Returns the global capabilities that are enabled for the specified user.

Returns**list_contributor_agreements()**

Gets a list of the user's signed contributor agreements.

Returns**modify_watched_projects(input_)**

Add new projects to watch or update existing watched projects. Projects that are already watched by a user will be updated with the provided configuration.

```
input_ = [
    {
        "project": "Test Project 1",
        "notify_new_changes": true,
        "notify_new_patch_sets": true,
        "notify_all_comments": true,
    }
]

account = client.accounts.get('kevin.shi')
result = account.modify_watched_projects(input_)
```

Parameters

input – the ProjectWatchInfo entities as list

Returns**put_default_star_on_change(id_)**

Star a change with the default label.

Parameters

id – change id

Returns

remove_default_star_from_change(*id_*)

Remove the default star label from a change. This stops notifications.

Parameters

id – change id

Returns**set_active**()

Sets the account state to active.

Returns**set_diff_preferences**(*input_*)

Sets the diff preferences of a user.

```
input_ = {
    "context": 10,
    "theme": "ECLIPSE",
    "ignore_whitespace": "IGNORE_ALL",
    "intraline_difference": true,
    "line_length": 100,
    "cursor_blink_rate": 500,
    "show_line_endings": true,
    "show_tabs": true,
    "show_whitespace_errors": true,
    "syntax_highlighting": true,
    "tab_size": 8,
    "font_size": 12
}

account = client.accounts.get('kevin.shi')
result = account.set_diff_preferences(input_)
```

Parameters

input – the DiffPreferencesInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-accounts.html#diff-preferences-input>

Returns**set_displayname**(*input_*)

Sets the display name of an account. support this method since v3.2.0

```
input_ = {
    "display_name": "Kevin"
}

account = client.accounts.get('kevin.shi')
result = account.set_displayname(input_)
```

Parameters

input – the DisplayNameInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-accounts.html#display-name-input>

Returns

set_edit_preferences(input_)

Sets the edit preferences of a user.

```
input_ = {
    "theme": "ECLIPSE",
    "key_map_type": "VIM",
    "tab_size": 4,
    "line_length": 80,
    "indent_unit": 2,
    "cursor_blink_rate": 530,
    "hide_top_menu": true,
    "show_tabs": true,
    "show_whitespace_errors": true,
    "syntax_highlighting": true,
    "hide_line_numbers": true,
    "match_brackets": true,
    "line_wrapping": false,
    "auto_close_brackets": true
}

account = client.accounts.get('kevin.shi')
result = account.set_edit_preferences(input_)
```

Parameters

input – the EditPreferencesInfo entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-accounts.html#edit-preferences-info>

Returns**set_http_password(input_)**

Sets/Generates the HTTP password of an account.

```
input_ = {
    "generate": 'true',
    "http_password": "the_password"
}

account = client.accounts.get('kevin.shi')
result = account.set_http_password(input_)
```

Parameters

input – the HttpPasswordInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-accounts.html#http-password-input>

Returns**set_name(input_)**

Sets the full name of an account. Some realms may not allow to modify the account name. In this case the request is rejected with ‘405 Method Not Allowed’.

```
input_ = {
    "name": "Keven Shi"
}
```

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```
account = client.accounts.get('kevin.shi')
result = account.set_name(input_)
```

Parameters

input – the AccountNameInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-accounts.html#account-name-input>

Returns**set_status(status)**

Sets the status of an account.

Parameters

status – account status

Returns**set_user_preferences(input_)**

Sets the user's preferences.

```
input_ = {
    "changes_per_page": 50,
    "show_site_header": true,
    "use_flash_clipboard": true,
    "expand_inline_diffs": true,
    "download_command": "CHECKOUT",
    "date_format": "STD",
    "time_format": "HHMM_12",
    "size_bar_in_change_table": true,
    "review_category_strategy": "NAME",
    "diff_view": "SIDE_BY_SIDE",
    "mute_common_path_prefixes": true,
}

account = client.accounts.get('kevin.shi')
result = account.set_user_preferences(input_)
```

Parameters

input – the PreferencesInput entity <https://gerrit-review.googlesource.com/Documentation/rest-api-accounts.html#preferences-input>

Returns**set_username(input_)**

Sets the username of an account. Some realms may not allow to modify the account username. In this case the request is rejected with '405 Method Not Allowed'.

```
input_ = {
    "username": "shijl0925.shi"
}

account = client.accounts.get('kevin.shi')
result = account.set_username(input_)
```

Parameters

input – the UsernameInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-accounts.html#username-input>

Returns

sign_contributor_agreement(input_)

Signs a contributor agreement.

```
input_ = {
    "name": "Individual"
}
account = client.accounts.get('kevin.shi')
result = account.sign_contributor_agreement(input_)
```

Parameters

input – the ContributorAgreementInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-accounts.html#contributor-agreement-input>

Returns

property ssh_keys

update_star_labels_on_change(id_, input_)

Update star labels on a change.

```
input_ = {
    "add": ["blue", "red"],
    "remove": ["yellow"]
}

account = client.accounts.get('kevin.shi')
change_id = "myProject~master~I8473b95934b5732ac55d26311a706c9c2bde9940"
result = account.update_star_labels_on_change(change_id, input_)
```

Parameters

- **id** – change id
- **input** – the StarsInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-accounts.html#stars-input>

Returns

gerrit.accounts.accounts module

class gerrit.accounts.accounts.GerritAccounts(gerrit)

Bases: object

create(username, input_)

Creates a new account.

```

input_ = {
    "name": "John Doe",
    "email": "john.doe@example.com",
    "ssh_key": "ssh-rsa AAAAB3NzaC1yc2EAAAABIwAAAQEA0T...YImydZAw==",
    "http_password": "19D9aIn7zePb",
    "groups": [
        "MyProject-Owners"
    ]
}
new_account = client.accounts.create('john.doe', input_)

```

Parameters

- **username** – account username
- **input** – the AccountInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-accounts.html#account-input>

Returns

get(*account*)

Returns an account

Parameters

account – username or email or _account_id or 'self'

Returns

search(*query: str, limit: int = 25, skip: int = 0, detailed: bool = False, suggested: bool = False, all_emails: bool = False*)

Queries accounts visible to the caller.

Parameters

- **query** – Query string
- **limit** – Int value that allows to limit the number of accounts to be included in the output results
- **skip** – Int value that allows to skip the given number of accounts from the beginning of the list
- **detailed** – boolean value, if True then full name, preferred email, username and avatars for each account will be added to the output result
- **suggested** – boolean value, if True get account suggestions based on query string. If a result limit n is not specified, then the default 10 is used.
- **all_emails** – boolean value, if True then all registered emails for each account will be added to the output result

Returns

gerrit.accounts.emails module

class gerrit.accounts.emails.**GerritAccountEmail**(*email, account, gerrit*)

Bases: *GerritBase*

delete()

Deletes an email address of an account.

Returns

set_preferred()

Sets an email address as preferred email address for an account.

Returns

class gerrit.accounts.emails.**GerritAccountEmails**(*account, gerrit*)

Bases: object

create(*email*)

Registers a new email address for the user.

Returns

delete(*email*)

Deletes an email address of an account.

Parameters

email – account email

Returns

get(*email*)

Retrieves an email address of a user.

Returns

list()

Returns the email addresses that are configured for the specified user.

Returns

set_preferred(*email*)

Sets an email address as preferred email address for an account.

Parameters

email – account email

Returns

gerrit.accounts.gpg_keys module

class gerrit.accounts.gpg_keys.**GerritAccountGPGKey**(*id, account, gerrit*)

Bases: *GerritBase*

delete()

Deletes a GPG key of a user.

Returns

```
class gerrit.accounts.gpg_keys.GerritAccountGPGKeys(account, gerrit)
```

Bases: object

delete(*id_*)

Deletes a GPG key of a user.

Parameters

id – GPG key id

Returns

get(*id_*)

Retrieves a GPG key of a user.

Parameters

id – GPG key id

Returns

list()

Returns the GPG keys of an account.

Returns

modify(*input_*)

Add or delete one or more GPG keys for a user.

```
input_ = {
    "add": [
        "-----BEGIN PGP PUBLIC KEY BLOCK-----\n
        Version: GnuPG v1\n\n
        mQENBFXUpNcBCACv4paCiyKxZ0EcKy8VaWVNk1lNebRBiyw9WxU85wPOq5Gz/3GT\n
        RQwKqeY0SxVdQT8VNBw2sBe2m6eqcfZ2iKmesSlbXMe15DA7k8Bg4zEpQ0tXNG1L\n
        hceZDVQ1Xk06T2sgkunaiPsXi82nwN3UWYtDXxX4is5e6xBNL48Jgz4lbqo6+8D5\n
        vsVYiYmX4AwRkJyt/oA3IZAAtSLY8Yd445nY14VPcnsGRwGWTLYZv9gxKHRUppVhQ\n
        E3o6ePXKEVgmONnQ4CjmqkGwWZvjMF2EPtAxvQLAuFa8Hqtkq5cgfgVkv/VrcIn4\n
        nQZVoMm3a3f50Dii2tQzNh6+7LL1bpqAmVEtABEBAAG0H0pvaG4gRG9lIDxb2hu\n
        LmRvZUBleGFtcGxlLmNvbT6JATgEEwECACIFAlXUpNcCGwMGcwkIBwMCBhUIAgK\n
        CwQWAgMBAh4BAheAAoJEJNQNkuvyKSbfjoH/2OcSQOu1kJ20ndjhgY2yNChm7gd\n
        tU7TEBbB0TsLeazkrrLtKvrpW5+CRE07ZAG9H0tp3DikwAyrhSxhlYgVsQDhgB8q\n
        G0tYiZtQ88YyYrncCQ4hwknrcWXVW9bK3V4ZauxzPv3ADSloyR9tMURw5iHCIEl5\n
        fIw/pLvA3RjPMx4Sfow/bqRCUELua39prGw5Tv8a2ZRFbj2sgP5j8lUFegyJPQ4z\n
        tJhe6zZvK0zvIyxH08l1LmdrImsXRL9eqroWGs0VYqe6baQpY6xpSjbYK0J5HYcg\n
        TO+/u80JI+ROTMHE6unGp5Pgh/xIz6Wd34E0lWL1eOyNfGiPLyRWn1d0yZO5AQ0E\n
        VdSk1wEIALUycrH2HK9zQYdR/KJo1yJJuaextLWsYYn881yDQo/p06U5vXOZ28lG\n
        Aq/Xs96woVZPbgME6FyQzhf20Z2sbr+5bNo30cEKaKX3Eo/sWwSJ7bXbGLDxmF4S\n
        etfY1WDC+4rTqE30JuC++nQviPRdCcZf0AEgM6TxVhYEMVYwV787Y01IH62EBICM\n
        SkIONOfnusNZ4Skgjq90zak00pROZ4tki5cH/5oSDgdcaGPy1CFDpL9fG6er2zzk\n
        sw3qCbraqZrrlgpinWcAduiao67U/dV18060jYzrt33fTKZ0+bXhk1h1gloC21MQ\n
        ya0CXlNfr/FOQhvuK0Rlbr3cMfhZQscAEQEAAykbHwQYQAQIACQUcVdSk1wIbDAAK\n
        CRCTUJ5Lr8ikm8+QB/4uE+AlvFQFh9W8koPdfk7CJF7wdgZZ2NDtkvtLL71WuMK8\n
        P0mf9f5JtCLCX4iJxGzcWogAR5ed20NgUoHUg7jn9Xm3fvP+kiqL6WqPhjzdz89h\n
        k06v9hPE65kp4wb0fQqDrtWfP1lFGuh77rQgIS3Y4QutDl49vXS183JAfGPxFxx\n
        8FgGcfNwL2LV0bvqCA0WLqeIrQVbniBPFgocE3yA/0W9BB/xtolpKfgMMsqGRMeu\n
        9oIsNx20e610sqjUtGsnKQi8k5CZbhJaql4S89vws+efK0R+mo+0N55b0XxRlCS\n
        faURgAcjarQzJnG0hUps2GNO/+nM7UyyJAGfHlh5\n
        =EdX0\n
```

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```
        -----END PGP PUBLIC KEY BLOCK-----\n"
    ],
    "delete": [
        "DEADBEEF",
    ]
}
account = client.accounts.get('kevin.shi')
result = account.gpg_keys.modify(input_)
```

Parameters

input – the GpgKeysInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-accounts.html#gpg-keys-input>

Returns**gerrit.accounts.ssh_keys module**

class gerrit.accounts.ssh_keys.GerritAccountSSHKey(*seq, account, gerrit*)

Bases: *GerritBase*

delete()

Deletes an SSH key of a user.

Returns

class gerrit.accounts.ssh_keys.GerritAccountSSHKeys(*account, gerrit*)

Bases: object

add(*ssh_key*)

Adds an SSH key for a user. The SSH public key must be provided as raw content in the request body.

Parameters

ssh_key – SSH key raw content

Returns**delete(*seq*)**

Deletes an SSH key of a user.

Parameters

seq – SSH key id

Returns**get(*seq*)**

Retrieves an SSH key of a user.

Parameters

seq – SSH key id

Returns**list()**

Returns the SSH keys of an account.

Returns

Module contents

gerrit.changes package

Subpackages

gerrit.changes.revision package

Submodules

gerrit.changes.revision.comments module

class gerrit.changes.revision.comments.**GerritChangeRevisionComment**(*id: str, change: str, revision: str, gerrit*)

Bases: *GerritBase*

delete(*input_=None*)

Deletes a published comment of a revision. Instead of deleting the whole comment, this endpoint just replaces the comment's message with a new message, which contains the name of the user who deletes the comment and the reason why it's deleted.

```
input_ = {
    "reason": "contains confidential information"
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
revision = change.get_revision('3848807f587dbd3a7e61723bbfbf1ad13ad5a00a')
comment = revision.comments.get("e167e775_e069567a")
result = comment.delete(input_)
# or
result = comment.delete()
```

Parameters

input – the DeleteCommentInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#delete-comment-input>

Returns

class gerrit.changes.revision.comments.**GerritChangeRevisionComments**(*change, revision, gerrit*)

Bases: object

get(*id_*)

Retrieves a published comment of a revision.

Parameters

id –

Returns

list()

Lists the published comments of a revision.

Returns

gerrit.changes.revision.drafts module

```
class gerrit.changes.revision.drafts.GerritChangeRevisionDraft(id: str, change: str, revision: str,
                                                                gerrit)
```

Bases: *GerritBase*

delete()

Deletes a draft comment from a revision.

Returns

update(input_)

Updates a draft comment on a revision.

```
input_ = {
    "path": "sonarqube/cloud/duplications.py",
    "line": 25,
    "message": "[nit] trailing whitespace"
}
change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
revision = change.get_revision('3848807f587dbd3a7e61723bbfbf1ad13ad5a00a')
draft = revision.drafts.get('89f04e8c_9b7fd51d')
result = draft.update(input_)
```

Parameters

input – the CommentInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#comment-input>

Returns

```
class gerrit.changes.revision.drafts.GerritChangeRevisionDrafts(change, revision, gerrit)
```

Bases: object

create(input_)

Creates a draft comment on a revision.

```
input_ = {
    "path": "sonarqube/cloud/duplications.py",
    "line": 15,
    "message": "[nit] trailing whitespace"
}
change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
revision = change.get_revision('3848807f587dbd3a7e61723bbfbf1ad13ad5a00a')
new_draft = revision.drafts.create(input_)
```

Parameters

input – the CommentInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#comment-input>

Returns

delete(*id_*)

Deletes a draft comment from a revision.

Parameters

id – the draft comment id

Returns**get(*id_*)**

Retrieves a draft comment of a revision that belongs to the calling user.

Parameters

id – the draft comment id

Returns**list()**

Lists the draft comments of a revision that belong to the calling user.

Returns**gerrit.changes.revision.files module**

```
class gerrit.changes.revision.files.GerritChangeRevisionFile(path: str, json: dict, change: str,  
revision: str, gerrit)
```

Bases: object

delete_reviewed()

Deletes the reviewed flag of the calling user from a file of a revision.

Returns**download_content()**

Downloads the content of a file from a certain revision, in a safe format that poses no risk for inadvertent execution of untrusted code.

If the content type is defined as safe, the binary file content is returned verbatim. If the content type is not safe, the file is stored inside a ZIP file, containing a single entry with a random, unpredictable name having the same base and suffix as the true filename. The ZIP file is returned in verbatim binary form.

Returns**get_blame()**

Gets the blame of a file from a certain revision.

Returns**get_content(*decode=False*)**

Gets the content of a file from a certain revision. The content is returned as base64 encoded string.

Parameters

decode – Decode bas64 to plain text.

Returns**get_diff(*intraline=False*)**

Gets the diff of a file from a certain revision.

Parameters

intraline – If the intraline parameter is specified, intraline differences are

included in the diff. :return:

set_reviewed()

Marks a file of a revision as reviewed by the calling user.

Returns

to_dict()

class `gerrit.changes.revision.files.GerritChangeRevisionFiles`(*change, revision, gerrit*)

Bases: object

get(*path*)

get a file by path

Parameters

path – file path

Returns

iterkeys()

Iterate over the paths of all files

Returns

keys()

Return a list of the file paths

Returns

poll()

Returns

search(*reviewed: Optional[bool] = None, base: Optional[int] = None, q: Optional[str] = None, parent: Optional[int] = None*)

Lists the files that were modified, added or deleted in a revision. The reviewed, base, q, and parent are mutually exclusive. That is, only one of them may be used at a time.

Parameters

- **reviewed** – return a list of the paths the caller has marked as reviewed
- **base** – return a map of the files which are different in this commit compared to the given revision. The revision must correspond to a patch set in the change.
- **q** – return a list of all files (modified or unmodified) that contain that substring in the path name.
- **parent** – For merge commits only, the integer-valued request parameter changes the response to return a map of the files which are different in this commit compared to the given parent commit.

Returns

Module contents

class `gerrit.changes.revision.GerritChangeRevision(gerrit, change, revision='current')`

Bases: `object`

cherry_pick(*input_*)

Cherry picks a revision to a destination branch.

```
input_ = {
    "message" : "Implementing Feature X",
    "destination" : "release-branch"
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
revision = change.get_revision('3848807f587dbd3a7e61723bbfbf1ad13ad5a00a')
result = revision.cherry_pick(input_)
```

Parameters

input – the CherryPickInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-projects.html#cherry-pick-commit>

Returns

property comments

delete_vote(*account, label, input_=None*)

Deletes a single vote from a revision. The deletion will be possible only if the revision is the current revision. By using this endpoint you can prevent deleting the vote (with same label) from a newer patch set by mistake. Note, that even when the last vote of a reviewer is removed the reviewer itself is still listed on the change.

```
input_ = {
    "notify": "NONE"
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
revision = change.get_revision("0f4f97b5af9a965e082fb8cde082c5f1ba2fe930")
revision.delete_vote('John', 'Code-Review', input_)
# or
revision.delete_vote('John', 'Code-Review')
```

Parameters

- **account** –
- **label** –
- **input** – the DeleteVoteInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#delete-vote-input>

Returns

property drafts

property files**get_commit()**

Retrieves a parsed commit of a revision.

Returns**get_description()**

Retrieves the description of a patch set. If the patch set does not have a description an empty string is returned.

Returns**get_merge_list()**

Returns the list of commits that are being integrated into a target branch by a merge commit. By default, the first parent is assumed to be uninteresting. By using the parent option another parent can be set as uninteresting (parents are 1-based).

Returns**get_patch(*zip=False, download=False, path=None, decode=False*)**

Gets the formatted patch for one revision. The formatted patch is returned as text encoded inside base64 if decode is False.

Adding query parameter zip (for example /changes/.../patch?zip) returns the patch as a single file inside of a ZIP archive. Clients can expand the ZIP to obtain the plain text patch, avoiding the need for a base64 decoding step. This option implies download.

Query parameter download (e.g. /changes/.../patch?download) will suggest the browser save the patch as commitsha1.diff.base64, for later processing by command line tools.

If the path parameter is set, the returned content is a diff of the single file that the path refers to.

Parameters

- **zip** –
- **download** –
- **path** –
- **decode** – Decode bas64 to plain text.

Returns**get_related_changes()**

Retrieves related changes of a revision. Related changes are changes that either depend on, or are dependencies of the revision.

Returns**get_review()**

Retrieves a review of a revision.

Returns**get_revision_actions()**

Retrieves revision actions of the revision of a change.

Returns

get_robot_comment(*commit_id*)

Retrieves a robot comment of a revision.

Parameters

commit_id –

Returns

get_submit_type()

Gets the method the server will use to submit (merge) the change.

Returns

is_mergeable()

Gets the method the server will use to submit (merge) the change and an indicator if the change is currently mergeable.

Returns

list_reviewers()

Lists the reviewers of a revision.

Returns

list_robot_comments()

Lists the robot comments of a revision.

Returns

list_votes(*account*)

Lists the votes for a specific reviewer of the revision.

Parameters

account – account id or username

Returns

rebase(*input_*)

Rebases a revision. Optionally, the parent revision can be changed to another patch set through the RebaseInput entity.

```
input_ = {
    "base" : "1234"
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
revision = change.get_revision('3848807f587dbd3a7e61723bbfbf1ad13ad5a00a')
result = revision.rebase(input_)
```

Parameters

input – the RebaseInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#rebase-input>

Returns

set_description(*input_*)

Sets the description of a patch set.

```
input_ = {
    "description": "Added Documentation"
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
revision = change.get_revision('3848807f587dbd3a7e61723bbfbf1ad13ad5a00a')
result = revision.set_description(input_)
```

Parameters

input – the DescriptionInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#description-input>

Returns**set_review(input_)**

Sets a review on a revision, optionally also publishing draft comments, setting labels, adding reviewers or CCs, and modifying the work in progress property. A review cannot be set on a change edit. Trying to post a review for a change edit fails with 409 Conflict.

```
input_ = {
    "tag": "jenkins",
    "message": "Some nits need to be fixed.",
    "labels": {
        "Code-Review": -1
    },
    "comments": {
        "sonarqube/cloud/project_badges.py": [
            {
                "line": 23,
                "message": "[nit] trailing whitespace"
            },
            {
                "line": 49,
                "message": "[nit] s/conrtol/control"
            },
            {
                "range": {
                    "start_line": 50,
                    "start_character": 0,
                    "end_line": 55,
                    "end_character": 20
                },
                "message": "Incorrect indentation"
            }
        ]
    }
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
revision = change.get_revision('3848807f587dbd3a7e61723bbfbf1ad13ad5a00a')
result = revision.set_review(input_)
```

Parameters

input – the ReviewInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#review-input>

Returns**submit()**

Submits a revision. If the revision cannot be submitted, e.g. because the submit rule doesn't allow submitting the revision or the revision is not the current revision, the response is 409 Conflict and the error message is contained in the response body.

Returns**submit_preview()**

need fix bug Gets a file containing thin bundles of all modified projects if this change was submitted.

Returns**test_submit_rule(input_)**

Tests the submit_rule Prolog rule in the project, or the one given.

Parameters

input – the Prolog code

Type

str

Returns**test_submit_type(input_)**

Tests the submit_type Prolog rule in the project, or the one given.

Parameters

input – the Prolog code

Type

str

Returns**Submodules****gerrit.changes.change module**

class gerrit.changes.change.GerritChange(id: str, gerrit)

Bases: *GerritBase*

abandon()

Abandons a change. Abandoning a change also removes all users from the attention set. If the change cannot be abandoned because the change state doesn't allow abandoning of the change, the response is "409 Conflict" and the error message is contained in the response body.

Returns**add_to_attention_set(input_)**

Adds a single user to the attention set of a change. support this method since v3.3.0

A user can only be added if they are not in the attention set. If a user is added while already in the attention set, the request is silently ignored.

```
input_ = {
    "user": "John Doe",
    "reason": "reason"
}
change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
result = change.add_to_attention_set(input_)
```

Parameters

input – the AttentionSetInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#attention-set-input>

Returns**check_submit_requirement(input_)**

Tests a submit requirement.

Parameters

input – the SubmitRequirementInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#submit-requirement-input>

Returns**consistency_check()**

Performs consistency checks on the change, and returns a ChangeInfo entity with the problems field set to a list of ProblemInfo entities.

Returns**create_empty_edit()**

Creates empty change edit

Returns**create_merge_patch_set(input_)**

Update an existing change by using a MergePatchSetInput entity. Gerrit will create a merge commit based on the information of MergePatchSetInput and add a new patch set to the change corresponding to the new merge commit.

```
input_ = {
    "subject": "Merge master into stable",
    "merge": {
        "source": "refs/heads/master"
    }
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
result = change.update(input_)
```

Parameters

input – the MergePatchSetInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#merge-patch-set-input>

Returns

delete()

Deletes a change.

Returns**delete_assignee()**

Deletes the assignee of a change.

Returns**delete_topic()**

Deletes the topic of a change.

Returns**delete_vote(account, label, input_=None)**

Deletes a single vote from a change. Note, that even when the last vote of a reviewer is removed the reviewer itself is still listed on the change. If another user removed a user's vote, the user with the deleted vote will be added to the attention set.

```
input_ = {
    "notify": "NONE"
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
change.delete_vote('John', 'Code-Review', input_)
# or
change.delete_vote('John', 'Code-Review')
```

Parameters

- **account** –
- **label** –
- **input** – the DeleteVoteInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#delete-vote-input>

Returns**fix(input_=None)**

Performs consistency checks on the change as with GET /check, and additionally fixes any problems that can be fixed automatically. The returned field values reflect any fixes. Some fixes have options controlling their behavior, which can be set in the FixInput entity body. Only the change owner, a project owner, or an administrator may fix changes.

```
input_ = {
    "delete_patch_set_if_commit_missing": "true",
    "expect_merged_as": "something"
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
result = change.fix()
# or
result = change.fix(input_)
```

Parameters

input – the FixInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#fix-input>

Returns

get_assignee()

Retrieves the account of the user assigned to a change.

Returns

get_attention_set()

Returns all users that are currently in the attention set. support this method since v3.3.0

Returns

get_detail(options=None)

retrieve a change with labels, detailed labels, detailed accounts, reviewer updates, and messages.

Parameters

options – List of options to fetch additional data about a change

Returns

get_edit()

Retrieves a change edit details. As response an EditInfo entity is returned that describes the change edit, or 204 No Content when change edit doesn't exist for this change.

Returns

get_hashtags()

Gets the hashtags associated with a change.

Returns

get_include_in()

Retrieves the branches and tags in which a change is included.

Returns

get_meta_diff(old=None, meta=None)

Retrieves the difference between two historical states of a change by specifying the and the parameters. old=SHA-1,meta=SHA-1. If the parameter is not provided, the parent of the SHA-1 is used. If the parameter is not provided, the current state of the change is used. If neither are provided, the difference between the current state of the change and its previous state is returned.

Parameters

- **old** –
- **meta** –

Returns

get_past_assignees()

Returns a list of every user ever assigned to a change, in the order in which they were first assigned.

Returns

get_pure_revert(*commit*)

Check if the given change is a pure revert of the change it references in revertOf.

Parameters

commit – commit id

Returns**get_revision(*revision_id*='current')**

Get one revision by revision SHA or integer number.

Parameters

revision_id – Optional ID. If not specified, the current revision will be retrieved. It supports SHA IDs and integer numbers from -X to +X, where X is the current (latest) revision. Zero means current revision. -N means the current revision number X minus N, so if the current revision is 50, and -1 is given, the revision 49 will be retrieved.

Returns**get_topic()**

Retrieves the topic of a change.

Getter

Retrieves the topic of a change.

Setter

Sets the topic of a change.

Deleter

Deletes the topic of a change.

Returns**ignore()**

Marks a change as ignored. The change will not be shown in the incoming reviews' dashboard, and email notifications will be suppressed. Ignoring a change does not cause the change's "updated" timestamp to be modified, and the owner is not notified.

Returns**index()**

Adds or updates the change in the secondary index.

Returns**list_comments()**

Lists the published comments of all revisions of the change.

Returns**list_drafts()**

Lists the draft comments of all revisions of the change that belong to the calling user.

Returns**list_robot_comments()**

Lists the robot comments of all revisions of the change.

Returns

list_submitted_together_changes()

Computes list of all changes which are submitted when Submit is called for this change, including the current change itself.

list_votes(account)

Lists the votes for a specific reviewer of the change.

Parameters

account – account id or username

Returns**mark_as_reviewed()**

Marks a change as reviewed.

Returns**mark_as_unreviewed()**

Marks a change as unreviewed.

Returns**mark_private(input_)**

Marks the change to be private. Only open changes can be marked private. Changes may only be marked private by the owner or site administrators.

```
input_ = {
    "message": "After this security fix has been released we can make it public_
↪now."
}
change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
change.mark_private(input_)
```

Parameters

input – the PrivateInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#private-input>

Returns**property messages****move(input_)**

Move a change. If the change cannot be moved because the change state doesn't allow moving the change, the response is '409 Conflict' and the error message is contained in the response body.

```
input_ = {
    "destination_branch" : "release-branch"
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
result = change.move(input_)
```

Parameters

input – the MoveInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#move-input>

Returns

rebase(input_)

Rebase a change. If the change cannot be rebased, e.g. due to conflicts, the response is '409 Conflict' and the error message is contained in the response body.

```
input_ = {
    "base" : "1234",
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
result = change.rebase(input_)
```

Parameters

input – the RebaseInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#rebase-input>

Returns

remove_from_attention_set(id_, input_=None)

Deletes a single user from the attention set of a change. support this method since v3.3.0

A user can only be removed from the attention set. if they are currently in the attention set. Otherwise, the request is silently ignored.

```
input_ = {
    "reason": "reason"
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
change.remove_from_attention_set('kevin.shi', input_)
# or
change.remove_from_attention_set('kevin.shi')
```

Parameters

- **id** – account id
- **input** – the AttentionSetInput entity, [https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html #attention-set-input](https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#attention-set-input)

Returns

restore()

Restores a change. If the change cannot be restored because the change state doesn't allow restoring the change, the response is "409 Conflict" and the error message is contained in the response body.

Returns

revert(input_=None)

Reverts a change. The request body does not need to include a RevertInput entity if no review comment is added.

If the user doesn't have revert permission on the change or upload permission on the destination branch, the response is '403 Forbidden', and the error message is contained in the response body.

If the change cannot be reverted because the change state doesn't allow reverting the change, the response is 409 Conflict and the error message is contained in the response body.

```
input_ = {
    "message" : "Message to be added as review comment to the change when
↪reverting the
    change."
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
result = change.revert()
# or
result = change.revert(input_)
```

Parameters

input – the RevertInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#revert-input>

Returns**revert_submission()**

Creates open revert changes for all of the changes of a certain submission.

If the user doesn't have revert permission on the change or upload permission on the destination, the response is '403 Forbidden', and the error message is contained in the response body.

If the change cannot be reverted because the change state doesn't allow reverting the change the response is '409 Conflict', and the error message is contained in the response body.

Returns**property reviewers****set_assignee(input_)**

Sets the assignee of a change.

```
input_ = {
    "assignee": "jhon.doe"
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
result = change.set_assignee(input_)
```

Parameters

input – the AssigneeInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#assignee-input>

Returns**set_commit_message(input_)**

Creates a new patch set with a new commit message.

```
input_ = {
    "message": "New Commit message \n\nChange-Id:␣
↪I10394472cbd17dd12454f22b143a444\n"
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
result = change.set_commit_message(input_)
```

Parameters

input – the CommitMessageInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#commit-message-input>

Returns**set_hashtags(input_)**

Adds and/or removes hashtags from a change.

```
input_ = {
    "add" : [
        "hashtag3"
    ],
    "remove" : [
        "hashtag2"
    ]
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
result = change.set_hashtags(input_)
```

Parameters

input – the HashtagsInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#hashtags-input>

Returns**set_ready_for_review(input_)**

Marks the change as ready for review (set WIP property to false). Changes may only be marked ready by the owner, project owners or site administrators. Marking a change ready for review also adds all of the reviewers of the change to the attention set.

```
input_ = {
    'message': 'Refactoring is done.'
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
change.set_ready_for_review(input_)
```

Parameters

input – the WorkInProgressInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#work-in-progress-input>

Returns**set_topic(topic)**

Sets the topic of a change.

Parameters

topic – The new topic

Returns**set_work_in_progress(input_=None)**

Marks the change as not ready for review yet. Changes may only be marked not ready by the owner, project owners or site administrators. Marking a change work in progress also removes all users from the attention set.

The request body does not need to include a WorkInProgressInput entity if no review comment is added.

```
input_ = {
    "message": "Refactoring needs to be done before we can proceed here."
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
result = change.set_work_in_progress(input_)
# or
result = change.set_work_in_progress()
```

Parameters

input – the WorkInProgressInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#work-in-progress-input>

Returns**submit(input_=None)**

Submits a change. Submitting a change also removes all users from the attention set.

If the change cannot be submitted because the submit rule doesn't allow submitting the change, the response is 409 Conflict and the error message is contained in the response body.

```
input_ = {
    "on_behalf_of": 1001439
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
result = change.submit(input_)
```

Parameters

input – the SubmitInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#submit-input>

Returns**unignore()**

Un-marks a change as ignored.

Returns**unmark_private**(*input_=None*)

Marks the change to be non-private. Note users can only unmark own private changes. If the change was already not private, the response is '409 Conflict'.

```
input_ = {
    "message": "This is a security fix that must not be public."
}
change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
change.unmark_private(input_)
# or
change.unmark_private()
```

Parameters

input – the PrivateInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#private-input>

Returns**gerrit.changes.changes module****class** gerrit.changes.changes.GerritChanges(*gerrit*)

Bases: object

create(*input_*)

create a change

```
input_ = {
    "project": "myProject",
    "subject": "Let's support 100% Gerrit workflow direct in browser",
    "branch": "stable",
    "topic": "create-change-in-browser",
    "status": "NEW"
}
result = client.changes.create(input_)
```

Parameters

input – the ChangeInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#change-input>

Returns**delete**(*id_*)

Deletes a change.

Parameters**id** – change id**Returns****get**(*id_*)

Retrieves a change.

Parameters

id – change id

Returns

search(*query: str, options=None, limit: int = 25, skip: int = 0*)

Queries changes visible to the caller.

```
query = "is:open+owner:self+is:mergeable"
result = client.changes.search(query=query, options=["LABELS"])
```

Parameters

- **query** – Query string, it can contain multiple search operators concatenated by ‘+’ character
- **options** – List of options to fetch additional data about changes
- **limit** – Int value that allows to limit the number of changes to be included in the output results
- **skip** – Int value that allows to skip the given number of changes from the beginning of the list

Returns**gerrit.changes.edit module**

class gerrit.changes.edit.GerritChangeEdit(*change: str, gerrit*)

Bases: object

change_commit_message(*input_*)

Modify commit message.

```
input_ = {
    "message": "New commit message\n\n"
    "Change-Id: I10394472cbd17dd12454f229e4f6de00b143a444"
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
edit = change.get_edit()
edit.change_commit_message(input_)
```

Parameters

input – the ChangeEditMessageInput entity, [https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html #change-edit-message-input](https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#change-edit-message-input)

Returns

delete()

Deletes change edit.

Returns

delete_file(*file*)

Deletes a file from a change edit.

Parameters

file – Path to file to delete.

Returns**get_change_file_content(*file*)**

Retrieves content of a file from a change edit. The content of the file is returned as text encoded inside base64.

Parameters

file – the file path

Returns**get_commit_message()**

Retrieves commit message from change edit. The commit message is returned as base64 encoded string.

Returns**get_file_meta_data(*file*)**

Retrieves meta data of a file from a change edit.

Parameters

file – the file path

Returns**publish(*input_*)**

Promotes change edit to a regular patch set.

```
input_ = {
    "notify": "NONE"
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
edit = change.get_edit()
edit.publish(input_)
```

Parameters

input – the PublishChangeEditInput entity, [https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html #publish-change-edit-input](https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#publish-change-edit-input)

Returns**put_change_file_content(*file*, *file_content*)**

Put content of a file to a change edit.

Parameters

- **file** – the file path
- **file_content** – the content of the file need to change

Returns

rebase()

Rebase change edit on top of the latest patch set. When change was rebased on top of the latest patch set, response '204 No Content' is returned. When change edit is already based on top of the latest patch set, the response '409 Conflict' is returned.

Returns**rename_file**(*old_path*, *new_path*)

rename file

Parameters

- **old_path** – Old path to file to rename.
- **new_path** – New path to file to rename.

Returns**restore_file_content**(*file*)

restores file content

Parameters

file – Path to file to restore.

Returns**gerrit.changes.messages module****class** gerrit.changes.messages.**GerritChangeMessage**(*id*: str, *change*: str, *gerrit*)

Bases: *GerritBase*

delete(*input_*=None)

Deletes a change message. Note that only users with the Administrate Server global capability are permitted to delete a change message.

```
input_ = {
    "reason": "spam"
}
change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
message = change.messages.get("babf4c5dd53d7a11080696efa78830d0a07762e6")
result = message.delete(input_)
# or
result = message.delete()
```

Parameters

input – the DeleteChangeMessageInput entity, [https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html #delete-change-message-input](https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#delete-change-message-input)

Returns**class** gerrit.changes.messages.**GerritChangeMessages**(*change*, *gerrit*)

Bases: object

get(*id_*)

Retrieves a change message including detailed account information.

Parameters**id** – change message id**Returns****list()**

Lists all the messages of a change including detailed account information.

Returns**gerrit.changes.reviewers module****class** gerrit.changes.reviewers.GerritChangeReviewer(*account: str, change: str, gerrit*)Bases: *GerritBase***delete**(*input_=None*)

Deletes a reviewer from a change. Deleting a reviewer also removes that user from the attention set.

```
input_ = {
    "notify": "NONE"
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
reviewer = change.reviewers.get('john.doe')
reviewer.delete(input_)
# or
reviewer.delete()
```

Parameters**input** – the DeleteReviewerInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#delete-reviewer-input>**Returns****delete_vote**(*label, input_=None*)

Deletes a single vote from a change. Note, that even when the last vote of a reviewer is removed the reviewer itself is still listed on the change.

```
input_ = {
    "notify": "NONE"
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
reviewer = change.reviewers.get('john.doe')
reviewer.delete_vote('Code-Review', input_)
# or
reviewer.delete_vote('Code-Review')
```

Parameters

- **label** –

- **input** – the DeleteVoteInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#delete-vote-input>

Returns

list_votes()

Lists the votes for a specific reviewer of the change.

Returns

class gerrit.changes.reviewers.GerritChangeReviewers(*change, gerrit*)

Bases: object

add(input_)

Adds one user or all members of one group as reviewer to the change.

Users can be moved from reviewer to CC and vice versa. This means if a user is added as CC that is already a reviewer on the change, the reviewer state of that user is updated to CC. If a user that is already a CC on the change is added as reviewer, the reviewer state of that user is updated to reviewer.

Adding a new reviewer also adds that reviewer to the attention set, unless the change is work in progress. Also, moving a reviewer to CC removes that user from the attention set.

```
input_ = {
    "reviewer": "john.doe"
}

change = client.changes.get('Project~stable~
↪I10394472cbd17dd12454f229e4f6de00b143a444')
new_reviewer = change.reviewers.add(input_)
```

Parameters

input – the ReviewerInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#reviewer-input>

Returns

get(account)

Retrieves a reviewer of a change.

Parameters

account – _account_id, name, username or email

Returns

list()

Lists the reviewers of a change.

Returns

Module contents

gerrit.config package

Submodules

gerrit.config.caches module

class gerrit.config.caches.**Cache**(*name: str, gerrit*)

Bases: object

flush()

Flushes a cache.

Returns

class gerrit.config.caches.**Caches**(*gerrit*)

Bases: object

flush(*name*)

Flushes a cache.

Parameters

name – cache name

Returns

get(*name*)

Retrieves information about a cache.

Parameters

name – cache name

Returns

list()

Lists the caches of the server. Caches defined by plugins are included.

Returns

operation(*input_*)

Cache Operations

```
input_ = {
    "operation": "FLUSH_ALL"
}
gerrit.config.caches.operation(input_)
```

Parameters

input – the CacheOperationInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-config.html#cache-operation-input>

Returns

gerrit.config.config module**class** gerrit.config.config.GerritConfig(gerrit)

Bases: object

property caches**check_consistency**(input_)

Runs consistency checks and returns detected problems.

```
input_ = {
    "check_accounts": {},
    "check_account_external_ids": {}
}
result = client.config.check_consistency(input_)
```

Parameters**input** – the ConsistencyCheckInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-config.html#consistency-check-input>**Returns****confirm_email**(input_)

Confirms that the user owns an email address. If the token is invalid or if it's the token of another user the request fails and the response is '422 Unprocessable Entity'.

```
input_ = {
    "token": "Enim+QNbAo6TV8Hur8WwoUypI6apG7qBPvF+bw==
    ↪$MTAwMDAwNDp0ZXN0QHRlc3QuZGU="
}
result = client.config.confirm_email(input_)
```

Parameters**input** – the EmailConfirmationInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-config.html#email-confirmation-input>**Returns****get_default_diff_preferences**()

Returns the default diff preferences for the server.

Returns**get_default_edit_preferences**()

Returns the default edit preferences for the server.

Returns**get_default_user_preferences**()

Returns the default user preferences for the server.

Returns**get_server_info**()

get the information about the Gerrit server configuration.

Returns

get_summary(option=None)

Retrieves a summary of the current server state.

Parameters

option – query option. such as jvm or gc

Returns**get_top_menus()**

Returns the list of additional top menu entries.

Returns**get_version()**

get the version of the Gerrit server.

Returns**index_changes(input_)**

Index a set of changes

```
input_ = {changes: ["foo~101", "bar~202"]}
gerrit.config.index_changes(input_)
```

Parameters

input – the IndexChangesInput entity, [https://gerrit-review.googlesource.com/Documentation/rest-api-config.html #index-changes-input](https://gerrit-review.googlesource.com/Documentation/rest-api-config.html#index-changes-input)

Returns**list_capabilities()**

Lists the capabilities that are available in the system. There are two kinds of capabilities: core and plugin-owned capabilities.

Returns**reload_config()**

Reloads the gerrit.config configuration.

Returns**set_default_diff_preferences(input_)**

Sets the default diff preferences for the server.

```
input_ = {
    "context": 10,
    "tab_size": 8,
    "line_length": 80,
    "cursor_blink_rate": 0,
    "intraline_difference": true,
    "show_line_endings": true,
    "show_tabs": true,
    "show_whitespace_errors": true,
    "syntax_highlighting": true,
    "auto_hide_diff_table_header": true,
    "theme": "DEFAULT",
    "ignore_whitespace": "IGNORE_NONE"
```

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```
}
result = client.config.set_default_diff_preferences(input_)
```

Parameters

input – the DiffPreferencesInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-accounts.html#diff-preferences-input>

Returns**set_default_edit_preferences(input_)**

Sets the default edit preferences for the server.

```
input_ = {
    "tab_size": 8,
    "line_length": 80,
    "indent_unit": 2,
    "cursor_blink_rate": 0,
    "show_tabs": true,
    "syntax_highlighting": true,
    "match_brackets": true,
    "auto_close_brackets": true,
    "theme": "DEFAULT",
    "key_map_type": "DEFAULT"
}
result = client.config.set_default_edit_preferences(input_)
```

Parameters

input – the EditPreferencesInfo entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-accounts.html#edit-preferences-input>

Returns**set_default_user_preferences(input_)**

Sets the default user preferences for the server.

```
input_ = {
    "changes_per_page": 50
}
result = client.config.set_default_user_preferences(input_)
```

Parameters

input – the PreferencesInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-accounts.html#preferences-input>

Returns**property tasks**

gerrit.config.tasks module

class gerrit.config.tasks.**Task**(*task_id: str, gerrit*)

Bases: object

delete()

Kills a task from the background work queue that the Gerrit daemon is currently performing, or will perform in the near future.

Returns

class gerrit.config.tasks.**Tasks**(*gerrit*)

Bases: object

delete(*id_*)

Kills a task from the background work queue that the Gerrit daemon is currently performing, or will perform in the near future.

Parameters

id – task id

Returns

get(*id_*)

Retrieves a task from the background work queue that the Gerrit daemon is currently performing, or will perform in the near future.

Parameters

id – task id

Returns

list()

Lists the tasks from the background work queues that the Gerrit daemon is currently performing, or will perform in the near future.

Returns

Module contents

gerrit.groups package

Submodules

gerrit.groups.group module

class gerrit.groups.group.**GerritGroup**(*group_id: int, gerrit*)

Bases: [GerritBase](#)

delete_description()

Deletes the description of a Gerrit internal group. This endpoint is only allowed for Gerrit internal groups; attempting to call on a non-internal group will return 405 Method Not Allowed.

Returns

get_audit_log()

Gets the audit log of a Gerrit internal group. This endpoint is only allowed for Gerrit internal groups; attempting to call on a non-internal group will return 405 Method Not Allowed.

Returns**get_description()**

Retrieves the description of a group.

Returns**get_detail()**

Retrieves a group with the direct members and the directly included groups.

Returns**get_name()**

Retrieves the name of a group.

Returns**get_options()**

Retrieves the options of a group.

Returns**get_owner()**

Retrieves the owner group of a Gerrit internal group.

Returns

As response a GroupInfo entity is returned that describes the owner group.

index()

Adds or updates the internal group in the secondary index.

Returns**property members****set_description(input_)**

Sets the description of a Gerrit internal group. This endpoint is only allowed for Gerrit internal groups; attempting to call on a non-internal group will return 405 Method Not Allowed.

```
input_ = {
    "description": "The committers of MyProject."
}
group = client.groups.get('0017af503a22f7b3fa6ce2cd3b551734d90701b4')
result = group.set_description(input_)
```

Parameters

input –

Returns**set_name(input_)**

Renames a Gerrit internal group. This endpoint is only allowed for Gerrit internal groups; attempting to call on a non-internal group will return 405 Method Not Allowed.

```
input_ = {
    "name": "My Project Committers"
}

group = client.groups.get('0017af503a22f7b3fa6ce2cd3b551734d90701b4')
result = group.set_name(input_)
```

Parameters**input** –**Returns****set_options(input_)**

Sets the options of a Gerrit internal group. This endpoint is only allowed for Gerrit internal groups; attempting to call on a non-internal group will return 405 Method Not Allowed.

```
input_ = {
    "visible_to_all": True
}

group = client.groups.get('0017af503a22f7b3fa6ce2cd3b551734d90701b4')
result = group.set_options(input_)
```

Parameters

input – the GroupOptionsInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-groups.html#group-options-input>

Returns**set_owner(input_)**

Sets the owner group of a Gerrit internal group. This endpoint is only allowed for Gerrit internal groups; attempting to call on a non-internal group will return 405 Method Not Allowed.

```
input_ = {
    "owner": "6a1e70e1a88782771a91808c8af9bbb7a9871389"
}

group = client.groups.get('0017af503a22f7b3fa6ce2cd3b551734d90701b4')
result = group.set_owner(input_)
```

Parameters

input – As response a GroupInfo entity is returned that describes the new owner

group. :return:

property subgroup

gerrit.groups.groups module

class gerrit.groups.groups.**GerritGroups**(gerrit)

Bases: object

create(name, input_)

Creates a new Gerrit internal group.

```
input_ = {
    "description": "contains all committers for MyProject2",
    "visible_to_all": 'true',
    "owner": "Administrators",
    "owner_id": "af01a8cb8cbd8ee7be072b98b1ee882867c0cf06"
}
new_group = client.groups.create('My-Project2-Committers', input_)
```

Parameters

- **name** – group name
- **input** – the GroupInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-groups.html#group-input>

Returns

get(id_)

Retrieves a group.

Parameters

- **id** – group id, or group_id, or group name
- **detailed** –

Returns

list(pattern_dispatcher=None, options=None, limit: int = 25, skip: int = 0)

Lists the groups accessible by the caller.

Parameters

- **pattern_dispatcher** – Dict of pattern type with respective pattern value: {('match'|'regex'): value}
- **options** – Additional fields can be obtained by adding o parameters, each option requires more lookups and slows down the query response time to the client so they are generally disabled by default. Optional fields are:

INCLUDES: include list of direct subgroups. MEMBERS: include list of direct group members.
- **limit** – Int value that allows to limit the number of groups to be included in the output results
- **skip** – Int value that allows to skip the given number of groups from the beginning of the list

Returns

search(*query*, *options=None*, *limit: int = 25*, *skip: int = 0*)

Query Groups

Parameters

- **query** –
- **options** – Additional fields can be obtained by adding o parameters, each option requires more lookups and slows down the query response time to the client so they are generally disabled by default. Optional fields are:
INCLUDES: include list of direct subgroups. MEMBERS: include list of direct group members.
- **limit** – Int value that allows to limit the number of groups to be included in the output results
- **skip** – Int value that allows to skip the given number of groups from the beginning of the list

Returns

gerrit.groups.members module

class gerrit.groups.members.GerritGroupMembers(*group_id*, *gerrit*)

Bases: object

add(*account*)

Adds a user as member to a Gerrit internal group. This endpoint is only allowed for Gerrit internal groups; attempting to call on a non-internal group will return 405 Method Not Allowed.

Parameters

account – account username or id

Returns

get(*account*)

Retrieves a group member. This endpoint is only allowed for Gerrit internal groups; attempting to call on a non-internal group will return 405 Method Not Allowed.

Parameters

account – account username or id

Returns

list()

Lists the direct members of a Gerrit internal group. This endpoint is only allowed for Gerrit internal groups; attempting to call on a non-internal group will return 405 Method Not Allowed.

Returns

remove(*account*)

Removes a user from a Gerrit internal group. This endpoint is only allowed for Gerrit internal groups; attempting to call on a non-internal group will return 405 Method Not Allowed.

Parameters

account – account username or id

Returns

gerrit.groups.subgroups module

class gerrit.groups.subgroups.GerritGroupSubGroups(*group_id*, *gerrit*)

Bases: object

add(*subgroup*)

Adds an internal or external group as subgroup to a Gerrit internal group. This endpoint is only allowed for Gerrit internal groups; attempting to call on a non-internal group will return 405 Method Not Allowed.

Parameters

subgroup – subgroup id or name

Returns

get(*subgroup*)

Retrieves a subgroup. This endpoint is only allowed for Gerrit internal groups; attempting to call on a non-internal group will return 405 Method Not Allowed.

Parameters

subgroup – subgroup id or name

Returns

list()

Lists the direct subgroups of a group. This endpoint is only allowed for Gerrit internal groups; attempting to call on a non-internal group will return 405 Method Not Allowed.

Returns

remove(*subgroup*)

Removes a subgroup from a Gerrit internal group. This endpoint is only allowed for Gerrit internal groups; attempting to call on a non-internal group will return 405 Method Not Allowed.

Parameters

subgroup – subgroup id or name

Returns

Module contents

gerrit.plugins package

Submodules

gerrit.plugins.plugins module

class gerrit.plugins.plugins.GerritPlugin(*id_*: *str*, *gerrit*)

Bases: object

disable()

Disables a plugin on the Gerrit server.

Returns

enable()

Enables a plugin on the Gerrit server.

Returns**reload()**

Reloads a plugin on the Gerrit server.

Returns

class `gerrit.plugins.plugins.GerritPlugins(gerrit)`

Bases: `object`

get(*id_*)**Parameters**

id – plugin id

Returns**install(*id_*, *input_*)**

Installs a new plugin on the Gerrit server.

```
input_ = {
    "url": "file:///gerrit/plugins/delete-project/delete-project-2.8.jar"
}

plugin = client.plugins.install(input_)
```

Parameters

- **id** – plugin id
- **input** – the PluginInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-plugins.html#plugin-input>

Returns**list(*is_all*: bool = False, *limit*: int = 25, *skip*: int = 0, *pattern_dispatcher*=None)**

Lists the plugins installed on the Gerrit server.

Parameters

- **is_all** – boolean value, if True then all plugins (including hidden ones) will be added to the results
- **limit** – Int value that allows to limit the number of plugins to be included in the output results
- **skip** – Int value that allows to skip the given number of plugins from the beginning of the list
- **pattern_dispatcher** – Dict of pattern type with respective pattern value: `{('prefix'|'match'|'regex') : value}`

Returns

Module contents

gerrit.projects package

Submodules

gerrit.projects.branches module

class gerrit.projects.branches.GerritProjectBranch(*name: str, project: str, gerrit*)

Bases: *GerritBase*

delete()

Delete a branch.

Returns

get_file_content(*file, decode=False*)

Gets the content of a file from the HEAD revision of a certain branch. The content is returned as base64 encoded string.

Parameters

- **file** – the file path
- **decode** – Decode bas64 to plain text.

Returns

get_reflog()

Gets the reflog of a certain branch.

Returns

is_mergeable(*input_*)

Gets whether the source is mergeable with the target branch.

```
input_ = {
    'source': 'testbranch',
    'strategy': 'recursive'
}
result = stable.is_mergeable(input_)
```

Parameters

input – the MergeInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#merge-input>

Returns

class gerrit.projects.branches.GerritProjectBranches(*project, gerrit*)

Bases: object

branch_prefix = 'refs/heads/'

create(*name, input_*)

Creates a new branch.

```
input_ = {
    'revision': '76016386a0d8ecc7b6be212424978bb45959d668'
}
project = client.projects.get('myproject')
new_branch = project.branches.create('stable', input_)
```

Parameters

- **name** – the branch name
- **input** – the BranchInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-projects.html#branch-info>

Returns**delete(name)**

Delete a branch.

Parameters

name – branch ref name

Returns**get(name)**

get a branch by ref

Parameters

name – branch ref name

Returns**list(pattern_dispatcher=None, limit: int = 25, skip: int = 0)**

List the branches of a project.

Parameters

- **pattern_dispatcher** – Dict of pattern type with respective pattern value: `{('match']regex'): value}`
- **limit** – Limit the number of branches to be included in the results.
- **skip** – Skip the given number of branches from the beginning of the list.

Returns**gerrit.projects.commit module**

class gerrit.projects.commit.GerritProjectCommit(commit: str, project: str, gerrit)

Bases: [GerritBase](#)

cherry_pick(input_)

Cherry-picks a commit of a project to a destination branch.

```
input_ = {
    "message": "Implementing Feature X",
    "destination": "release-branch"
}
result = commit.cherry_pick(input_)
```

Parameters

input – the CherryPickInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-changes.html#cherrypick-input>

Returns

the resulting cherry-picked change

get_file_content(*file*, *decode=False*)

Gets the content of a file from a certain commit.

Parameters

- **file** – the file path
- **decode** – Decode bas64 to plain text.

Returns

get_include_in()

Retrieves the branches and tags in which a change is included.

Returns

list_change_files()

Lists the files that were modified, added or deleted in a commit.

Returns**gerrit.projects.dashboards module**

class gerrit.projects.dashboards.**GerritProjectDashboard**(*id: str, project: str, gerrit*)

Bases: [GerritBase](#)

delete()

Deletes a project dashboard.

Returns

class gerrit.projects.dashboards.**GerritProjectDashboards**(*project, gerrit*)

Bases: object

create(*id_, input_*)

Creates a project dashboard, if a project dashboard with the given dashboard ID doesn't exist yet.

```
input_ = {
    "id": "master:closed",
    "commit_message": "Define the default dashboard"
}
new_dashboard = project.dashboards.create('master:closed', input_)
```

Parameters

- **id** – the dashboard id
- **input** – the DashboardInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-projects.html#dashboard-input>

Returns

delete(*id_*)

Deletes a project dashboard.

Parameters

id – the dashboard id

Returns**get(*id_*)**

Retrieves a project dashboard. The dashboard can be defined on that project or be inherited from a parent project.

Parameters

id – the dashboard id

Returns**list()**

List custom dashboards for a project.

Returns**gerrit.projects.labels module**

class gerrit.projects.labels.GerritProjectLabel(*name: str, project: str, gerrit*)

Bases: *GerritBase*

delete()

Deletes the definition of a label that is defined in this project. The calling user must have write access to the refs/meta/config branch of the project.

Returns**set(*input_*)**

Updates the definition of a label that is defined in this project. The calling user must have write access to the refs/meta/config branch of the project. Properties which are not set in the input entity are not modified.

```
input_ = {
    "commit_message": "Ignore self approvals for Code-Review label",
    "ignore_self_approval": true
}

project = client.projects.get("MyProject")
label = project.labels.get("foo")
result = label.set(input_)
```

Parameters

input – the LabelDefinitionInput entity, [https://gerrit-review.googlesource.com/Documentation/rest-api-projects.html #label-definition-input](https://gerrit-review.googlesource.com/Documentation/rest-api-projects.html#label-definition-input)

Returns

class gerrit.projects.labels.GerritProjectLabels(*project, gerrit*)

Bases: object

create(name, input_)

Creates a new label definition in this project. The calling user must have write access to the refs/meta/config branch of the project. If a label with this name is already defined in this project, this label definition is updated (see Set Label).

```
input_ = {
    "values": {
        "0": "No score",
        "-1": "I would prefer this is not merged as is",
        "-2": "This shall not be merged",
        "+1": "Looks good to me, but someone else must approve",
        "+2": "Looks good to me, approved"
    },
    "commit_message": "Create Foo Label"
}
new_label = project.labels.create('foo', input_)
```

Parameters

- **name** – label name
- **input** – the LabelDefinitionInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-projects.html#label-definition-input>

Returns**delete(name)**

Deletes the definition of a label that is defined in this project. The calling user must have write access to the refs/meta/config branch of the project.

Parameters

name – label name

Returns**get(name)**

Retrieves the definition of a label that is defined in this project. The calling user must have read access to the refs/meta/config branch of the project.

Parameters

name – label name

Returns**list()**

Lists the labels that are defined in this project.

Returns

gerrit.projects.project module

class gerrit.projects.project.**GerritProject**(*project_id: str, gerrit*)

Bases: *GerritBase*

ban_commits(*input_*)

Marks commits as banned for the project.

```
input_ = {
    "commits": [
        "a8a477efffbf3b44169bb9a1d3a334cbbd9aa96",
        "cf5b56541f84b8b57e16810b18daca9c3adc377b"
    ],
    "reason": "Violates IP"
}
project = client.projects.get('myproject')
result = project.ban_commits(input_)
```

Parameters

input – the BanInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-projects.html#ban-input>

Returns**property branches**

List the branches of a project. except the refs/meta/config

Returns

check_access(*options*)

runs access checks for other users.

Parameters

options –

Check Access Options

- Account(account): The account for which to check access. Mandatory.
- Permission(perm): The ref permission for which to check access. If not specified, read access to at least branch is checked.
- Ref(ref): The branch for which to check access. This must be given if perm is specified.

Returns

check_consistency(*input_*)

Performs consistency checks on the project.

```
input_ = {
    "auto_closeable_changes_check": {
        "fix": 'true',
        "branch": "refs/heads/master",
        "max_commits": 100
    }
}
```

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```
}

project = client.projects.get('myproject')
result = project.check_consistency(input_)
```

Parameters

input – the CheckProjectInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-projects.html#check-project-input>

Returns**property child_projects**

List the direct child projects of a project.

Returns**create_access_rights_change(input_)**

Sets access rights for the project using the diff schema provided by ProjectAccessInput This takes the same input as Update Access Rights, but creates a pending change for review. Like Create Change, it returns a ChangeInfo entity describing the resulting change. <https://gerrit-review.googlesource.com/Documentation/rest-api-projects.html#create-access-change>

Parameters

input – the ProjectAccessInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-projects.html#project-access-input>

Returns**create_change(input_)**

Create Change for review. This endpoint is functionally equivalent to create change in the change API, but it has the project name in the URL, which is easier to route in sharded deployments. support this method since v3.3.0

```
input_ = {
    "subject": "Let's support 100% Gerrit workflow direct in browser",
    "branch": "stable",
    "topic": "create-change-in-browser",
    "status": "NEW"
}

project = client.projects.get('myproject')
result = project.create_change(input_)
```

Parameters

input –

Returns**property dashboards**

gerrit dashboards operations

Returns

delete()

Delete the project, requires delete-project plugin

Returns**delete_description()**

Deletes the description of a project.

Returns**get_access_rights()**

Lists the access rights for a single project.

Returns**get_commit(*commit*)**

Retrieves a commit of a project.

Returns**get_config()**

Gets some configuration information about a project. Note that this config info is not simply the contents of project.config; it generally contains fields that may have been inherited from parent projects.

Returns**get_description()**

Retrieves the description of a project.

Returns**get_head()**

Retrieves for a project the name of the branch to which HEAD points.

Returns**get_parent()**

Retrieves the name of a project's parent project. For the All-Projects root project an empty string is returned.

Returns**get_statistics()**

Return statistics for the repository of a project.

Returns**index(*input_*)**

Adds or updates the current project (and children, if specified) in the secondary index. The indexing task is executed asynchronously in background and this command returns immediately if *async* is specified in the input.

```
input_ = {
    "index_children": "true"
    "async": "true"
}
project = client.projects.get('myproject')
result = project.index(input_)
```

Parameters

input – the IndexProjectInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-projects.html#index-project-input>

Returns**index_all_changes()**

Adds or updates the current project (and children, if specified) in the secondary index. The indexing task is executed asynchronously in background and this command returns immediately if `async` is specified in the input.

Returns**property labels**

gerrit labels or gerrit labels operations

Returns**run_garbage_collection(input_)**

Run the Git garbage collection for the repository of a project.

```
input_ = {
    "show_progress": "true"
}
project = client.projects.get('myproject')
result = project.run_garbage_collection(input_)
```

Parameters

input – the GCInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-projects.html#gc-input>

Returns**set_access_rights(input_)**

Sets access rights for the project using the diff schema provided by ProjectAccessInput. <https://gerrit-review.googlesource.com/Documentation/rest-api-projects.html#set-access>

Parameters

input – the ProjectAccessInput entity, [https://gerrit-review.googlesource.com/Documentation/rest-api-projects.html](https://gerrit-review.googlesource.com/Documentation/rest-api-projects.html#project-access-input) #project-access-input

Returns**set_config(input_)**

Sets the configuration of a project.

```
input_ = {
    "description": "demo project",
    "use_contributor_agreements": "FALSE",
    "use_content_merge": "INHERIT",
    "use_signed_off_by": "INHERIT",
    "create_new_change_for_all_not_in_target": "INHERIT",
    "enable_signed_push": "INHERIT",
    "require_signed_push": "INHERIT",
    "reject_implicit_merges": "INHERIT",
    "require_change_id": "TRUE",
    "max_object_size_limit": "10m",
    "submit_type": "REBASE_IF_NECESSARY",
    "state": "ACTIVE"
}
```

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```
project = client.projects.get('myproject')
result = project.set_config(input_)
```

Parameters

input – the ConfigInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-projects.html#config-info>

Returns**set_description(input_)**

Sets the description of a project.

```
input_ = {
    "description": "Plugin for Gerrit that handles the replication.",
    "commit_message": "Update the project description"
}
project = client.projects.get('myproject')
result = project.set_description(input_)
```

Parameters

input – the ProjectDescriptionInput entity, [https://gerrit-review.googlesource.com/Documentation/rest-api-projects.html #project-description-input](https://gerrit-review.googlesource.com/Documentation/rest-api-projects.html#project-description-input)

Returns**set_head(input_)**

Sets HEAD for a project.

```
input_ = {
    "ref": "refs/heads/stable"
}
project = client.projects.get('myproject')
result = project.set_HEAD(input_)
```

Parameters

input – The HeadInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-projects.html#head-input>

Returns**set_parent(input_)**

Sets the parent project for a project.

```
input_ = {
    "parent": "Public-Plugins",
    "commit_message": "Update the project parent"
}
project = client.projects.get('myproject')
result = project.set_parent(input_)
```

Parameters

input – The ProjectParentInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-projects.html#project-parent-input>

Returns

property tags

List the tags of a project.

Returns

property webhooks

gerrit webhooks operations, requires webhooks plugin

Returns

gerrit.projects.projects module

class gerrit.projects.projects.GerritProjects(*gerrit*)

Bases: object

create(*project_name: str, input_: Dict[str, Any]*)

Creates a new project.

```
input_ = {
    "description": "This is a demo project.",
    "submit_type": "INHERIT",
    "owners": [
        "MyProject-Owners"
    ]
}
project = client.projects.create('MyProject', input_)
```

Parameters

- **project_name** – the name of the project
- **input** – the ProjectInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-projects.html#project-input>

Returns

delete(*project_name: str*)

Delete the project, requires delete-project plugin

Parameters

project_name – project name

Returns

get(*name: str*)

Retrieves a project.

Parameters

name – the name of the project

Returns

list(*is_all*: bool = False, *limit*: int = 25, *skip*: int = 0, *pattern_dispatcher*: Optional[Dict] = None, *project_type*: Optional[str] = None, *description*: bool = False, *branch*: Optional[str] = None, *state*: Optional[str] = None) → List

Get list of all available projects accessible by the caller.

Parameters

- **is_all** – boolean value, if True then all projects (including hidden ones) will be added to the results. May not be used together with the state option.
- **limit** – Int value that allows to limit the number of projects to be included in the output results
- **skip** – Int value that allows to skip the given number of projects from the beginning of the list
- **pattern_dispatcher** – Dict of pattern type with respective pattern value: {'prefix'|'match'|'regex': value}
- **project_type** – string value for type of projects to be fetched ('code'|'permissions'|'all')
- **description** – boolean value, if True then description will be added to the output result
- **branch** – Limit the results to the projects having the specified branch and include the sha1 of the branch in the results.
- **state** – Get all projects with the given state. May not be used together with the all

option.

Returns

search(*query*: str, *limit*: int = 25, *skip*: int = 0) → List

Queries projects visible to the caller. The query string must be provided by the query parameter. The start and limit parameters can be used to skip/limit results.

query parameter

- name:'NAME' Matches projects that have exactly the name 'NAME'.
- parent:'PARENT' Matches projects that have 'PARENT' as parent project.
- inname:'NAME' Matches projects that a name part that starts with 'NAME' (case insensitive).
- description:'DESCRIPTION' Matches projects whose description contains 'DESCRIPTION',

using a full-text search. * state:'STATE' Matches project's state. Can be either 'active' or 'read-only'.

Parameters

- **query** –
- **limit** – Int value that allows to limit the number of accounts to be included in the output results
- **skip** – Int value that allows to skip the given number of accounts from the beginning of the list

Returns

gerrit.projects.tags module**class** gerrit.projects.tags.GerritProjectTag(*name: str, project: str, gerrit*)Bases: *GerritBase***delete()**

Delete a tag.

Returns**class** gerrit.projects.tags.GerritProjectTags(*project, gerrit*)Bases: *object***create**(*name, input_*)

Creates a new tag on the project.

```
input_ = {
    "message": "annotation",
    'revision': 'c83117624b5b5d8a7f86093824e2f9c1ed309d63'
}

project = client.projects.get('myproject')
new_tag = project.tags.create('1.1.8', input_)
```

Parameters

- **name** – the tag name
- **input** – the TagInput entity, <https://gerrit-review.googlesource.com/Documentation/rest-api-projects.html#tag-input>

Returns**delete**(*name*)

Delete a tag.

Parameters**name** – the tag ref**Returns****get**(*name*)

get a tag by ref

Parameters**name** – the tag ref**Returns****list**(*pattern_dispatcher=None, limit: int = 25, skip: int = 0*)

List the tags of a project.

Parameters

- **pattern_dispatcher** – Dict of pattern type with respective pattern value: `{('match'|'regex'): value}`
- **limit** – Limit the number of tags to be included in the results.
- **skip** – Skip the given number of tags from the beginning of the list.

Returns

```
tag_prefix = 'refs/tags/'
```

gerrit.projects.webhooks module

```
class gerrit.projects.webhooks.GerritProjectWebHook(name: str, project: str, gerrit)
```

Bases: *GerritBase*

```
delete()
```

Delete a webhook for a project.

Returns

```
class gerrit.projects.webhooks.GerritProjectWebHooks(project, gerrit)
```

Bases: object

```
create(name, input_)
```

Create or update a webhook for a project.

```
input_ = {
    "url": "https://foo.org/gerrit-events",
    "maxTries": "3",
    "sslVerify": "true"
}

project = client.projects.get('myproject')
new_webhook = project.webhooks.create('test', input_)
```

Parameters

- **name** – the webhook name
- **input** – the RemoteInfo entity

Returns

```
delete(name)
```

Delete a webhook for a project.

Parameters

- name** – the webhook name

Returns

```
get(name)
```

Get information about one webhook.

Parameters

- name** – the webhook name

Returns

```
list()
```

List existing webhooks for a project.

Returns

Module contents

gerrit.utils package

Submodules

gerrit.utils.common module

`gerrit.utils.common.decode_response(response)`

Strip off Gerrit's magic prefix and decode a response. :returns:

Decoded JSON content as a dict, or raw text if content could not be decoded as JSON.

Raises

`requests.HTTPError` if the response contains an HTTP error status code.

`gerrit.utils.common.params_creator(tuples, pattern_types, pattern_dispatcher)`

`gerrit.utils.common.strip_trailing_slash(url)`

remove url's trailing slash :param url: url :return:

gerrit.utils.exceptions module

Module for custom exceptions.

Where possible we try to throw exceptions with non-generic, meaningful names.

exception `gerrit.utils.exceptions.AccountAlreadyExistsError`

Bases: *GerritAPIException*

Account already exists

exception `gerrit.utils.exceptions.AccountEmailAlreadyExistsError`

Bases: *GerritAPIException*

Account Email already exists

exception `gerrit.utils.exceptions.AccountEmailNotFoundError`

Bases: *GerritAPIException*

Account Email cannot be found

exception `gerrit.utils.exceptions.AccountNotFoundError`

Bases: *GerritAPIException*

Account cannot be found

exception `gerrit.utils.exceptions.AuthError`

Bases: *GerritAPIException*

403 Forbidden is returned if the operation is not allowed because the calling user does not have sufficient permissions.

exception `gerrit.utils.exceptions.BranchAlreadyExistsError`

Bases: *GerritAPIException*

Branch already exists

exception `gerrit.utils.exceptions.BranchNotFoundError`

Bases: [*GerritAPIException*](#)

Branch cannot be found

exception `gerrit.utils.exceptions.ChangeNotFoundError`

Bases: [*GerritAPIException*](#)

Change cannot be found

exception `gerrit.utils.exceptions.CommitNotFoundError`

Bases: [*GerritAPIException*](#)

Commit cannot be found

exception `gerrit.utils.exceptions.ConflictError`

Bases: [*GerritAPIException*](#)

409 Conflict is returned if the request cannot be completed because the current state of the resource doesn't allow the operation.

exception `gerrit.utils.exceptions.FileContentNotFoundError`

Bases: [*GerritAPIException*](#)

File content not found

exception `gerrit.utils.exceptions.GPGKeyNotFoundError`

Bases: [*GerritAPIException*](#)

GPG key cannot be found

exception `gerrit.utils.exceptions.GerritAPIException`

Bases: `Exception`

Base class for all errors

exception `gerrit.utils.exceptions.GroupAlreadyExistsError`

Bases: [*GerritAPIException*](#)

Group already exists

exception `gerrit.utils.exceptions.GroupMemberAlreadyExistsError`

Bases: [*GerritAPIException*](#)

Group member already exists

exception `gerrit.utils.exceptions.GroupMemberNotFoundError`

Bases: [*GerritAPIException*](#)

Group member cannot be found

exception `gerrit.utils.exceptions.GroupNotFoundError`

Bases: [*GerritAPIException*](#)

Group cannot be found

exception `gerrit.utils.exceptions.NotAllowedError`

Bases: [*GerritAPIException*](#)

405 Method Not Allowed is returned if the resource exists but doesn't support the operation.

exception `gerrit.utils.exceptions.NotFoundError`

Bases: *GerritAPIException*

Resource cannot be found

exception `gerrit.utils.exceptions.ProjectAlreadyExistsError`

Bases: *GerritAPIException*

Project already exists

exception `gerrit.utils.exceptions.ProjectNotFoundError`

Bases: *GerritAPIException*

Project cannot be found

exception `gerrit.utils.exceptions.ReviewerAlreadyExistsError`

Bases: *GerritAPIException*

Reviewer already exists

exception `gerrit.utils.exceptions.ReviewerNotFoundError`

Bases: *GerritAPIException*

Reviewer cannot be found

exception `gerrit.utils.exceptions.SSHKeyNotFoundError`

Bases: *GerritAPIException*

SSH key cannot be found

exception `gerrit.utils.exceptions.TagAlreadyExistsError`

Bases: *GerritAPIException*

Tag already exists

exception `gerrit.utils.exceptions.TagNotFoundError`

Bases: *GerritAPIException*

Tag cannot be found

exception `gerrit.utils.exceptions.UnauthorizedError`

Bases: *GerritAPIException*

401 Unauthorized

exception `gerrit.utils.exceptions.UnknownBranch`

Bases: `KeyError`, *NotFoundError*

Gerrit does not recognize the branch requested.

exception `gerrit.utils.exceptions.UnknownFile`

Bases: `KeyError`, *NotFoundError*

Gerrit does not recognize the revision file requested.

exception `gerrit.utils.exceptions.UnknownTag`

Bases: `KeyError`, *NotFoundError*

Gerrit does not recognize the tag requested.

exception `gerrit.utils.exceptions.ValidationError`Bases: `GerritAPIException`

400 Bad Request is returned if the request is not understood by the server due to malformed syntax. E.g. 400 Bad Request is returned if JSON input is expected but the 'Content-Type' of the request

is not 'application/json' or the request body doesn't contain valid JSON.

400 Bad Request is also returned if required input fields are not set or if options are set which cannot be used together.

gerrit.utils.gerritbase module**class** `gerrit.utils.gerritbase.GerritBase`(*pull=True*)Bases: `object`

This appears to be the base object that all other gerrit objects are inherited from

poll()**to_dict()**

Print out all the data in this object for debugging.

gerrit.utils.requester module**class** `gerrit.utils.requester.Requester`(***kwargs*)Bases: `object`

A class which carries out HTTP requests. You can replace this class with one of your own implementation if you require some other way to access Gerrit. This default class can handle simple authentication only.

AUTH_COOKIE = `None`**VALID_STATUS_CODES** = `[200]`**delete**(*url, headers=None, allow_redirects=True, raise_for_status: bool = True, **kwargs*)**Parameters**

- **url** –
- **headers** –
- **allow_redirects** –
- **raise_for_status** –
- **kwargs** –

Returns

get(*url, params=None, headers=None, allow_redirects=True, stream=False, raise_for_status: bool = True, **kwargs*)

Parameters

- **url** –
- **params** –
- **headers** –

- **allow_redirects** –
- **stream** –
- **raise_for_status** –
- **kwargs** –

Returns

get_request_dict(*params=None, data=None, json=None, headers=None, **kwargs*)

Parameters

- **params** –
- **data** –
- **json** –
- **headers** –
- **kwargs** –

Returns

post(*url, params=None, data=None, json=None, files=None, headers=None, allow_redirects=True, raise_for_status: bool = True, **kwargs*)

Parameters

- **url** –
- **params** –
- **data** –
- **json** –
- **files** –
- **headers** –
- **allow_redirects** –
- **raise_for_status** –
- **kwargs** –

Returns

put(*url, params=None, data=None, json=None, files=None, headers=None, allow_redirects=True, raise_for_status: bool = True, **kwargs*)

Parameters

- **url** –
- **params** –
- **data** –
- **json** –
- **files** –
- **headers** –
- **allow_redirects** –

- **raise_for_status** –
- **kwargs** –

Returns

Module contents

Module contents

class `gerrit.GerritClient`(*base_url, username=None, password=None, use_netrc=False, ssl_verify=True, cert=None, timeout=60, max_retries=None, auth_suffix='/a'*)

Bases: object

Python wrapper for the Gerrit V3.x REST API.

property accounts

Account related REST APIs

Returns

property changes

Change related REST APIs

Returns

property config

Config related REST APIs

Returns

default_headers = {'Content-Type': 'application/json; charset=UTF-8'}

delete(*endpoint*)

Send HTTP DELETE to the endpoint.

Parameters

endpoint – The endpoint to send to.

Returns

get(*endpoint, **kwargs*)

Send HTTP GET to the endpoint.

Parameters

endpoint – The endpoint to send to.

Returns

get_endpoint_url(*endpoint*)

Return the complete url including host and port for a given endpoint. :param endpoint: service endpoint as str :return: complete url (including host and port) as str

get_password_from_netrc_file()

Providing the password form .netrc file for getting Host name. :return: The related password from .netrc file as a string.

property groups

Group related REST APIs

Returns

property plugins

Plugin related REST APIs

Returns

post(*endpoint*, ***kwargs*)

Send HTTP POST to the endpoint.

Parameters

endpoint – The endpoint to send to.

Returns

property projects

Project related REST APIs :return:

put(*endpoint*, ***kwargs*)

Send HTTP PUT to the endpoint.

Parameters

endpoint – The endpoint to send to.

Returns

property server

get the information about the Gerrit server configuration.

Returns

property version

get the version of the Gerrit server.

Returns

INDICES AND TABLES

- genindex
- modindex
- search

PYTHON MODULE INDEX

g

- gerrit, 81
- gerrit.accounts, 27
 - gerrit.accounts.account, 15
 - gerrit.accounts.accounts, 22
 - gerrit.accounts.emails, 24
 - gerrit.accounts.gpg_keys, 24
 - gerrit.accounts.ssh_keys, 26
- gerrit.changes, 51
 - gerrit.changes.change, 35
 - gerrit.changes.changes, 45
 - gerrit.changes.edit, 46
 - gerrit.changes.messages, 48
 - gerrit.changes.reviewers, 49
 - gerrit.changes.revision, 31
 - gerrit.changes.revision.comments, 27
 - gerrit.changes.revision.drafts, 28
 - gerrit.changes.revision.files, 29
- gerrit.config, 55
 - gerrit.config.caches, 51
 - gerrit.config.config, 52
 - gerrit.config.tasks, 55
- gerrit.groups, 60
 - gerrit.groups.group, 55
 - gerrit.groups.groups, 58
 - gerrit.groups.members, 59
 - gerrit.groups.subgroups, 60
- gerrit.plugins, 62
 - gerrit.plugins.plugins, 60
- gerrit.projects, 76
 - gerrit.projects.branches, 62
 - gerrit.projects.commit, 63
 - gerrit.projects.dashboards, 64
 - gerrit.projects.labels, 65
 - gerrit.projects.project, 67
 - gerrit.projects.projects, 72
 - gerrit.projects.tags, 74
 - gerrit.projects.webhooks, 75
- gerrit.utils, 81
 - gerrit.utils.common, 76
 - gerrit.utils.exceptions, 76
 - gerrit.utils.gerritbase, 79
 - gerrit.utils.requester, 79

INDEX

A

`abandon()` (*gerrit.changes.change.GerritChange* method), 35
`AccountAlreadyExistsError`, 76
`AccountEmailAlreadyExistsError`, 76
`AccountEmailNotFoundError`, 76
`AccountNotFoundError`, 76
`accounts` (*gerrit.GerritClient* property), 81
`add()` (*gerrit.accounts.ssh_keys.GerritAccountSSHKeys* method), 26
`add()` (*gerrit.changes.reviewers.GerritChangeReviewers* method), 50
`add()` (*gerrit.groups.members.GerritGroupMembers* method), 59
`add()` (*gerrit.groups.subgroups.GerritGroupSubGroups* method), 60
`add_to_attention_set()` (*gerrit.changes.change.GerritChange* method), 35
`AUTH_COOKIE` (*gerrit.utils.requester.Requester* attribute), 79
`AuthError`, 76

B

`ban_commits()` (*gerrit.projects.project.GerritProject* method), 67
`branch_prefix` (*gerrit.projects.branches.GerritProjectBranches* attribute), 62
`BranchAlreadyExistsError`, 76
`branches` (*gerrit.projects.project.GerritProject* property), 67
`BranchNotFoundError`, 76

C

`Cache` (class in *gerrit.config.caches*), 51
`Caches` (class in *gerrit.config.caches*), 51
`caches` (*gerrit.config.config.GerritConfig* property), 52
`change_commit_message()` (*gerrit.changes.edit.GerritChangeEdit* method), 46
`ChangeNotFoundError`, 77
`changes` (*gerrit.GerritClient* property), 81

`check_access()` (*gerrit.projects.project.GerritProject* method), 67
`check_capability()` (*gerrit.accounts.account.GerritAccount* method), 15
`check_consistency()` (*gerrit.config.config.GerritConfig* method), 52
`check_consistency()` (*gerrit.projects.project.GerritProject* method), 67
`check_submit_requirement()` (*gerrit.changes.change.GerritChange* method), 36
`cherry_pick()` (*gerrit.changes.revision.GerritChangeRevision* method), 31
`cherry_pick()` (*gerrit.projects.commit.GerritProjectCommit* method), 63
`child_projects` (*gerrit.projects.project.GerritProject* property), 68
`comments` (*gerrit.changes.revision.GerritChangeRevision* property), 31
`CommitNotFoundError`, 77
`config` (*gerrit.GerritClient* property), 81
`confirm_email()` (*gerrit.config.config.GerritConfig* method), 52
`ConflictError`, 77
`consistency_check()` (*gerrit.changes.change.GerritChange* method), 36
`create()` (*gerrit.accounts.accounts.GerritAccounts* method), 22
`create()` (*gerrit.accounts.emails.GerritAccountEmails* method), 24
`create()` (*gerrit.changes.changes.GerritChanges* method), 45
`create()` (*gerrit.changes.revision.drafts.GerritChangeRevisionDrafts* method), 28
`create()` (*gerrit.groups.groups.GerritGroups* method), 58
`create()` (*gerrit.projects.branches.GerritProjectBranches* method), 62
`create()` (*gerrit.projects.dashboards.GerritProjectDashboards*

`method)`, 64
`create()` (`gerrit.projects.labels.GerritProjectLabels` `method)`, 65
`create()` (`gerrit.projects.projects.GerritProjects` `method)`, 72
`create()` (`gerrit.projects.tags.GerritProjectTags` `method)`, 74
`create()` (`gerrit.projects.webhooks.GerritProjectWebHooks` `method)`, 75
`create_access_rights_change()` (`gerrit.projects.project.GerritProject` `method)`, 68
`create_change()` (`gerrit.projects.project.GerritProject` `method)`, 68
`create_empty_edit()` (`gerrit.changes.change.GerritChange` `method)`, 36
`create_merge_patch_set()` (`gerrit.changes.change.GerritChange` `method)`, 36

D

`dashboards` (`gerrit.projects.project.GerritProject` `property)`, 68
`decode_response()` (in module `gerrit.utils.common)`, 76
`default_headers` (`gerrit.GerritClient` `attribute)`, 81
`delete()` (`gerrit.accounts.emails.GerritAccountEmail` `method)`, 24
`delete()` (`gerrit.accounts.emails.GerritAccountEmails` `method)`, 24
`delete()` (`gerrit.accounts.gpg_keys.GerritAccountGPGKey` `method)`, 24
`delete()` (`gerrit.accounts.gpg_keys.GerritAccountGPGKeys` `method)`, 25
`delete()` (`gerrit.accounts.ssh_keys.GerritAccountSSHKey` `method)`, 26
`delete()` (`gerrit.accounts.ssh_keys.GerritAccountSSHKeys` `method)`, 26
`delete()` (`gerrit.changes.change.GerritChange` `method)`, 36
`delete()` (`gerrit.changes.changes.GerritChanges` `method)`, 45
`delete()` (`gerrit.changes.edit.GerritChangeEdit` `method)`, 46
`delete()` (`gerrit.changes.messages.GerritChangeMessage` `method)`, 48
`delete()` (`gerrit.changes.reviewers.GerritChangeReviewer` `method)`, 49
`delete()` (`gerrit.changes.revision.comments.GerritChangeRevisionComments` `method)`, 27
`delete()` (`gerrit.changes.revision.drafts.GerritChangeRevisionDrafts` `method)`, 28
`delete()` (`gerrit.changes.revision.drafts.GerritChangeRevisionDrafts` `method)`, 28
`delete()` (`gerrit.config.tasks.Task` `method)`, 55
`delete()` (`gerrit.config.tasks.Tasks` `method)`, 55
`delete()` (`gerrit.GerritClient` `method)`, 81
`delete()` (`gerrit.projects.branches.GerritProjectBranch` `method)`, 62
`delete()` (`gerrit.projects.branches.GerritProjectBranches` `method)`, 63
`delete()` (`gerrit.projects.dashboards.GerritProjectDashboard` `method)`, 64
`delete()` (`gerrit.projects.dashboards.GerritProjectDashboards` `method)`, 64
`delete()` (`gerrit.projects.labels.GerritProjectLabel` `method)`, 65
`delete()` (`gerrit.projects.labels.GerritProjectLabels` `method)`, 66
`delete()` (`gerrit.projects.project.GerritProject` `method)`, 68
`delete()` (`gerrit.projects.projects.GerritProjects` `method)`, 72
`delete()` (`gerrit.projects.tags.GerritProjectTag` `method)`, 74
`delete()` (`gerrit.projects.tags.GerritProjectTags` `method)`, 74
`delete()` (`gerrit.projects.webhooks.GerritProjectWebHook` `method)`, 75
`delete()` (`gerrit.projects.webhooks.GerritProjectWebHooks` `method)`, 75
`delete()` (`gerrit.utils.requester.Requester` `method)`, 79
`delete_active()` (`gerrit.accounts.account.GerritAccount` `method)`, 15
`delete_assignee()` (`gerrit.changes.change.GerritChange` `method)`, 37
`delete_description()` (`gerrit.groups.group.GerritGroup` `method)`, 55
`delete_description()` (`gerrit.projects.project.GerritProject` `method)`, 69
`delete_draft_comments()` (`gerrit.accounts.account.GerritAccount` `method)`, 15
`delete_external_ids()` (`gerrit.accounts.account.GerritAccount` `method)`, 15
`delete_file()` (`gerrit.changes.edit.GerritChangeEdit` `method)`, 46
`delete_http_password()` (`gerrit.accounts.account.GerritAccount` `method)`, 16
`delete_name()` (`gerrit.accounts.account.GerritAccount` `method)`, 16

<code>delete_reviewed()</code>	(<i>gerrit.changes.revision.files.GerritChangeRevisionFile</i> module), 29	<i>gerrit.changes.revision.files.GerritChangeRevisionFile</i> module, 35
<code>delete_topic()</code>	(<i>gerrit.changes.change.GerritChange</i> method), 37	<i>gerrit.changes.changes</i> module, 45
<code>delete_vote()</code>	(<i>gerrit.changes.change.GerritChange</i> method), 37	<i>gerrit.changes.edit</i> module, 46
<code>delete_vote()</code>	(<i>gerrit.changes.reviewers.GerritChangeReviewer</i> method), 49	<i>gerrit.changes.messages</i> module, 48
<code>delete_vote()</code>	(<i>gerrit.changes.revision.GerritChangeRevision</i> method), 31	<i>gerrit.changes.reviewers</i> module, 49
<code>delete_watched_projects()</code>	(<i>gerrit.accounts.account.GerritAccount</i> method), 16	<i>gerrit.changes.revision</i> module, 31
<code>disable()</code>	(<i>gerrit.plugins.plugins.GerritPlugin</i> method), 60	<i>gerrit.changes.revision.comments</i> module, 27
<code>download_content()</code>	(<i>gerrit.changes.revision.files.GerritChangeRevisionFile</i> method), 29	<i>gerrit.changes.revision.drafts</i> module, 28
<code>drafts</code>	(<i>gerrit.changes.revision.GerritChangeRevision</i> property), 31	<i>gerrit.changes.revision.files</i> module, 29
E		<i>gerrit.config</i> module, 55
<code>emails</code>	(<i>gerrit.accounts.account.GerritAccount</i> property), 16	<i>gerrit.config.caches</i> module, 51
<code>enable()</code>	(<i>gerrit.plugins.plugins.GerritPlugin</i> method), 60	<i>gerrit.config.config</i> module, 52
F		<i>gerrit.config.tasks</i> module, 55
<code>FileContentNotFoundError</code>	, 77	<i>gerrit.groups</i> module, 60
<code>files</code>	(<i>gerrit.changes.revision.GerritChangeRevision</i> property), 31	<i>gerrit.groups.group</i> module, 55
<code>fix()</code>	(<i>gerrit.changes.change.GerritChange</i> method), 37	<i>gerrit.groups.groups</i> module, 58
<code>flush()</code>	(<i>gerrit.config.caches.Cache</i> method), 51	<i>gerrit.groups.members</i> module, 59
<code>flush()</code>	(<i>gerrit.config.caches.Caches</i> method), 51	<i>gerrit.groups.subgroups</i> module, 60
G		<i>gerrit.plugins</i> module, 62
<code>gerrit</code>	module, 81	<i>gerrit.plugins.plugins</i> module, 60
<code>gerrit.accounts</code>	module, 27	<i>gerrit.projects</i> module, 76
<code>gerrit.accounts.account</code>	module, 15	<i>gerrit.projects.branches</i> module, 62
<code>gerrit.accounts.accounts</code>	module, 22	<i>gerrit.projects.commit</i> module, 63
<code>gerrit.accounts.emails</code>	module, 24	<i>gerrit.projects.dashboards</i> module, 64
<code>gerrit.accounts.gpg_keys</code>	module, 24	<i>gerrit.projects.labels</i> module, 65
<code>gerrit.accounts.ssh_keys</code>	module, 26	<i>gerrit.projects.project</i> module, 67
<code>gerrit.changes</code>	module, 51	<i>gerrit.projects.projects</i> module, 72
<code>gerrit.changes.change</code>		<i>gerrit.projects.tags</i>

module, 74
 gerrit.projects.webhooks
 module, 75
 gerrit.utils
 module, 81
 gerrit.utils.common
 module, 76
 gerrit.utils.exceptions
 module, 76
 gerrit.utils.gerritbase
 module, 79
 gerrit.utils.requester
 module, 79
 GerritAccount (class in gerrit.accounts.account), 15
 GerritAccountEmail (class in gerrit.accounts.emails), 24
 GerritAccountEmails (class in gerrit.accounts.emails), 24
 GerritAccountGPGKey (class in gerrit.accounts.gpg_keys), 24
 GerritAccountGPGKeys (class in gerrit.accounts.gpg_keys), 24
 GerritAccounts (class in gerrit.accounts.accounts), 22
 GerritAccountSSHKey (class in gerrit.accounts.ssh_keys), 26
 GerritAccountSSHKeys (class in gerrit.accounts.ssh_keys), 26
 GerritAPIException, 77
 GerritBase (class in gerrit.utils.gerritbase), 79
 GerritChange (class in gerrit.changes.change), 35
 GerritChangeEdit (class in gerrit.changes.edit), 46
 GerritChangeMessage (class in gerrit.changes.messages), 48
 GerritChangeMessages (class in gerrit.changes.messages), 48
 GerritChangeReviewer (class in gerrit.changes.reviewers), 49
 GerritChangeReviewers (class in gerrit.changes.reviewers), 50
 GerritChangeRevision (class in gerrit.changes.revision), 31
 GerritChangeRevisionComment (class in gerrit.changes.revision.comments), 27
 GerritChangeRevisionComments (class in gerrit.changes.revision.comments), 27
 GerritChangeRevisionDraft (class in gerrit.changes.revision.drafts), 28
 GerritChangeRevisionDrafts (class in gerrit.changes.revision.drafts), 28
 GerritChangeRevisionFile (class in gerrit.changes.revision.files), 29
 GerritChangeRevisionFiles (class in gerrit.changes.revision.files), 30
 GerritChanges (class in gerrit.changes.changes), 45
 GerritClient (class in gerrit), 81
 GerritConfig (class in gerrit.config.config), 52
 GerritGroup (class in gerrit.groups.group), 55
 GerritGroupMembers (class in gerrit.groups.members), 59
 GerritGroups (class in gerrit.groups.groups), 58
 GerritGroupSubGroups (class in gerrit.groups.subgroups), 60
 GerritPlugin (class in gerrit.plugins.plugins), 60
 GerritPlugins (class in gerrit.plugins.plugins), 61
 GerritProject (class in gerrit.projects.project), 67
 GerritProjectBranch (class in gerrit.projects.branches), 62
 GerritProjectBranches (class in gerrit.projects.branches), 62
 GerritProjectCommit (class in gerrit.projects.commit), 63
 GerritProjectDashboard (class in gerrit.projects.dashboards), 64
 GerritProjectDashboards (class in gerrit.projects.dashboards), 64
 GerritProjectLabel (class in gerrit.projects.labels), 65
 GerritProjectLabels (class in gerrit.projects.labels), 65
 GerritProjects (class in gerrit.projects.projects), 72
 GerritProjectTag (class in gerrit.projects.tags), 74
 GerritProjectTags (class in gerrit.projects.tags), 74
 GerritProjectWebHook (class in gerrit.projects.webhooks), 75
 GerritProjectWebHooks (class in gerrit.projects.webhooks), 75
 get() (gerrit.accounts.accounts.GerritAccounts method), 23
 get() (gerrit.accounts.emails.GerritAccountEmails method), 24
 get() (gerrit.accounts.gpg_keys.GerritAccountGPGKeys method), 25
 get() (gerrit.accounts.ssh_keys.GerritAccountSSHKeys method), 26
 get() (gerrit.changes.changes.GerritChanges method), 45
 get() (gerrit.changes.messages.GerritChangeMessages method), 48
 get() (gerrit.changes.reviewers.GerritChangeReviewers method), 50
 get() (gerrit.changes.revision.comments.GerritChangeRevisionComments method), 27
 get() (gerrit.changes.revision.drafts.GerritChangeRevisionDrafts method), 29
 get() (gerrit.changes.revision.files.GerritChangeRevisionFiles method), 30
 get() (gerrit.config.caches.Caches method), 51
 get() (gerrit.config.tasks.Tasks method), 55

`get()` (*gerrit.GerritClient* method), 81
`get()` (*gerrit.groups.groups.GerritGroups* method), 58
`get()` (*gerrit.groups.members.GerritGroupMembers* method), 59
`get()` (*gerrit.groups.subgroups.GerritGroupSubGroups* method), 60
`get()` (*gerrit.plugins.plugins.GerritPlugins* method), 61
`get()` (*gerrit.projects.branches.GerritProjectBranches* method), 63
`get()` (*gerrit.projects.dashboards.GerritProjectDashboards* method), 65
`get()` (*gerrit.projects.labels.GerritProjectLabels* method), 66
`get()` (*gerrit.projects.projects.GerritProjects* method), 72
`get()` (*gerrit.projects.tags.GerritProjectTags* method), 74
`get()` (*gerrit.projects.webhooks.GerritProjectWebHooks* method), 75
`get()` (*gerrit.utils.requester.Requester* method), 79
`get_access_rights()` (*gerrit.projects.project.GerritProject* method), 69
`get_active()` (*gerrit.accounts.account.GerritAccount* method), 16
`get_assignee()` (*gerrit.changes.change.GerritChange* method), 38
`get_attention_set()` (*gerrit.changes.change.GerritChange* method), 38
`get_audit_log()` (*gerrit.groups.group.GerritGroup* method), 55
`get_avatar()` (*gerrit.accounts.account.GerritAccount* method), 16
`get_avatar_change_url()` (*gerrit.accounts.account.GerritAccount* method), 16
`get_blame()` (*gerrit.changes.revision.files.GerritChangeRevisionFiles* method), 29
`get_change_file_content()` (*gerrit.changes.edit.GerritChangeEdit* method), 47
`get_commit()` (*gerrit.changes.revision.GerritChangeRevision* method), 32
`get_commit()` (*gerrit.projects.project.GerritProject* method), 69
`get_commit_message()` (*gerrit.changes.edit.GerritChangeEdit* method), 47
`get_config()` (*gerrit.projects.project.GerritProject* method), 69
`get_content()` (*gerrit.changes.revision.files.GerritChangeRevisionFiles* method), 29
`get_default_diff_preferences()` (*gerrit.config.config.GerritConfig* method), 52
`get_default_edit_preferences()` (*gerrit.config.config.GerritConfig* method), 52
`get_default_starred_changes()` (*gerrit.accounts.account.GerritAccount* method), 16
`get_default_user_preferences()` (*gerrit.config.config.GerritConfig* method), 52
`get_description()` (*gerrit.changes.revision.GerritChangeRevision* method), 32
`get_description()` (*gerrit.groups.group.GerritGroup* method), 56
`get_description()` (*gerrit.projects.project.GerritProject* method), 69
`get_detail()` (*gerrit.accounts.account.GerritAccount* method), 17
`get_detail()` (*gerrit.changes.change.GerritChange* method), 38
`get_detail()` (*gerrit.groups.group.GerritGroup* method), 56
`get_diff()` (*gerrit.changes.revision.files.GerritChangeRevisionFiles* method), 29
`get_diff_preferences()` (*gerrit.accounts.account.GerritAccount* method), 17
`get_edit()` (*gerrit.changes.change.GerritChange* method), 38
`get_edit_preferences()` (*gerrit.accounts.account.GerritAccount* method), 17
`get_endpoint_url()` (*gerrit.GerritClient* method), 81
`get_external_ids()` (*gerrit.accounts.account.GerritAccount* method), 17
`get_file_content()` (*gerrit.projects.branches.GerritProjectBranch* method), 62
`get_file_content()` (*gerrit.projects.commit.GerritProjectCommit* method), 64
`get_file_meta_data()` (*gerrit.changes.edit.GerritChangeEdit* method), 47
`get_hashtags()` (*gerrit.changes.change.GerritChange* method), 38
`get_head()` (*gerrit.projects.project.GerritProject* method), 69
`get_include_in()` (*gerrit.changes.change.GerritChange* method), 69
`get_include_in()` (*gerrit.projects.commit.GerritProjectCommit* method), 64

`method`), 64
`get_merge_list()` (`gerrit.changes.revision.GerritChangeRevision` `method`), 32
`get_meta_diff()` (`gerrit.changes.change.GerritChange` `method`), 38
`get_name()` (`gerrit.accounts.account.GerritAccount` `method`), 17
`get_name()` (`gerrit.groups.group.GerritGroup` `method`), 56
`get_oauth_token()` (`gerrit.accounts.account.GerritAccount` `method`), 17
`get_options()` (`gerrit.groups.group.GerritGroup` `method`), 56
`get_owner()` (`gerrit.groups.group.GerritGroup` `method`), 56
`get_parent()` (`gerrit.projects.project.GerritProject` `method`), 69
`get_password_from_netrc_file()` (`gerrit.GerritClient` `method`), 81
`get_past_assignees()` (`gerrit.changes.change.GerritChange` `method`), 38
`get_patch()` (`gerrit.changes.revision.GerritChangeRevision` `method`), 32
`get_pure_revert()` (`gerrit.changes.change.GerritChange` `method`), 38
`get_reflog()` (`gerrit.projects.branches.GerritProjectBranch` `method`), 62
`get_related_changes()` (`gerrit.changes.revision.GerritChangeRevision` `method`), 32
`get_request_dict()` (`gerrit.utils.requester.Requester` `method`), 80
`get_review()` (`gerrit.changes.revision.GerritChangeRevision` `method`), 32
`get_revision()` (`gerrit.changes.change.GerritChange` `method`), 39
`get_revision_actions()` (`gerrit.changes.revision.GerritChangeRevision` `method`), 32
`get_robot_comment()` (`gerrit.changes.revision.GerritChangeRevision` `method`), 32
`get_server_info()` (`gerrit.config.config.GerritConfig` `method`), 52
`get_star_labels_from_change()` (`gerrit.accounts.account.GerritAccount` `method`), 17
`get_starred_changes()` (`gerrit.accounts.account.GerritAccount` `method`), 17
`get_statistics()` (`gerrit.projects.project.GerritProject` `method`), 69
`get_status()` (`gerrit.accounts.account.GerritAccount` `method`), 17
`get_submit_type()` (`gerrit.changes.revision.GerritChangeRevision` `method`), 33
`get_summary()` (`gerrit.config.config.GerritConfig` `method`), 53
`get_top_menus()` (`gerrit.config.config.GerritConfig` `method`), 53
`get_topic()` (`gerrit.changes.change.GerritChange` `method`), 39
`get_user_preferences()` (`gerrit.accounts.account.GerritAccount` `method`), 17
`get_version()` (`gerrit.config.config.GerritConfig` `method`), 53
`get_watched_projects()` (`gerrit.accounts.account.GerritAccount` `method`), 18
`gpg_keys` (`gerrit.accounts.account.GerritAccount` `property`), 18
`GPKeyNotFoundError`, 77
`GroupAlreadyExistsError`, 77
`GroupMemberAlreadyExistsError`, 77
`GroupMemberNotFoundError`, 77
`GroupNotFoundError`, 77
`groups` (`gerrit.accounts.account.GerritAccount` `property`), 18
`groups` (`gerrit.GerritClient` `property`), 81
`|`
`ignore()` (`gerrit.changes.change.GerritChange` `method`), 39
`index()` (`gerrit.accounts.account.GerritAccount` `method`), 18
`index()` (`gerrit.changes.change.GerritChange` `method`), 39
`index()` (`gerrit.groups.group.GerritGroup` `method`), 56
`index()` (`gerrit.projects.project.GerritProject` `method`), 69
`index_all_changes()` (`gerrit.projects.project.GerritProject` `method`), 70
`index_changes()` (`gerrit.config.config.GerritConfig` `method`), 53
`install()` (`gerrit.plugins.plugins.GerritPlugins` `method`), 61
`is_mergeable()` (`gerrit.changes.revision.GerritChangeRevision` `method`), 33

`is_mergeable()` (`gerrit.projects.branches.GerritProjectBranch` method), 62
`iterkeys()` (`gerrit.changes.revision.files.GerritChangeRevisionFiles` method), 30
K
`keys()` (`gerrit.changes.revision.files.GerritChangeRevisionFiles` method), 30
L
`labels` (`gerrit.projects.project.GerritProject` property), 70
`list()` (`gerrit.accounts.emails.GerritAccountEmails` method), 24
`list()` (`gerrit.accounts.gpg_keys.GerritAccountGPGKeys` method), 25
`list()` (`gerrit.accounts.ssh_keys.GerritAccountSSHKeys` method), 26
`list()` (`gerrit.changes.messages.GerritChangeMessages` method), 49
`list()` (`gerrit.changes.reviewers.GerritChangeReviewers` method), 50
`list()` (`gerrit.changes.revision.comments.GerritChangeRevisionComments` method), 27
`list()` (`gerrit.changes.revision.drafts.GerritChangeRevisionDrafts` method), 29
`list()` (`gerrit.config.caches.Caches` method), 51
`list()` (`gerrit.config.tasks.Tasks` method), 55
`list()` (`gerrit.groups.groups.GerritGroups` method), 58
`list()` (`gerrit.groups.members.GerritGroupMembers` method), 59
`list()` (`gerrit.groups.subgroups.GerritGroupSubGroups` method), 60
`list()` (`gerrit.plugins.plugins.GerritPlugins` method), 61
`list()` (`gerrit.projects.branches.GerritProjectBranches` method), 63
`list()` (`gerrit.projects.dashboards.GerritProjectDashboards` method), 65
`list()` (`gerrit.projects.labels.GerritProjectLabels` method), 66
`list()` (`gerrit.projects.projects.GerritProjects` method), 72
`list()` (`gerrit.projects.tags.GerritProjectTags` method), 74
`list()` (`gerrit.projects.webhooks.GerritProjectWebHooks` method), 75
`list_capabilities()` (`gerrit.accounts.account.GerritAccount` method), 18
`list_capabilities()` (`gerrit.config.config.GerritConfig` method), 53
`list_change_files()` (`gerrit.projects.commit.GerritProjectCommit` method), 64
`list_comments()` (`gerrit.changes.change.GerritChange` method), 39
`list_contributor_agreements()` (`gerrit.accounts.account.GerritAccount` method), 18
`list_drafts()` (`gerrit.changes.change.GerritChange` method), 39
`list_reviewers()` (`gerrit.changes.revision.GerritChangeRevision` method), 33
`list_robot_comments()` (`gerrit.changes.change.GerritChange` method), 39
`list_robot_comments()` (`gerrit.changes.revision.GerritChangeRevision` method), 33
`list_submitted_together_changes()` (`gerrit.changes.change.GerritChange` method), 39
`list_votes()` (`gerrit.changes.change.GerritChange` method), 40
`list_votes()` (`gerrit.changes.reviewers.GerritChangeReviewer` method), 50
`list_votes()` (`gerrit.changes.revision.GerritChangeRevision` method), 33
M
`mark_as_reviewed()` (`gerrit.changes.change.GerritChange` method), 40
`mark_as_unreviewed()` (`gerrit.changes.change.GerritChange` method), 40
`mark_private()` (`gerrit.changes.change.GerritChange` method), 40
`members` (`gerrit.groups.group.GerritGroup` property), 56
`messages` (`gerrit.changes.change.GerritChange` property), 40
`modify()` (`gerrit.accounts.gpg_keys.GerritAccountGPGKeys` method), 25
`modify_watched_projects()` (`gerrit.accounts.account.GerritAccount` method), 18
module
`gerrit`, 81
`gerrit.accounts`, 27
`gerrit.accounts.account`, 15
`gerrit.accounts.accounts`, 22
`gerrit.accounts.emails`, 24
`gerrit.accounts.gpg_keys`, 24
`gerrit.accounts.ssh_keys`, 26
`gerrit.changes`, 51
`gerrit.changes.change`, 35

gerrit.changes.changes, 45
 gerrit.changes.edit, 46
 gerrit.changes.messages, 48
 gerrit.changes.reviewers, 49
 gerrit.changes.revision, 31
 gerrit.changes.revision.comments, 27
 gerrit.changes.revision.drafts, 28
 gerrit.changes.revision.files, 29
 gerrit.config, 55
 gerrit.config.caches, 51
 gerrit.config.config, 52
 gerrit.config.tasks, 55
 gerrit.groups, 60
 gerrit.groups.group, 55
 gerrit.groups.groups, 58
 gerrit.groups.members, 59
 gerrit.groups.subgroups, 60
 gerrit.plugins, 62
 gerrit.plugins.plugins, 60
 gerrit.projects, 76
 gerrit.projects.branches, 62
 gerrit.projects.commit, 63
 gerrit.projects.dashboards, 64
 gerrit.projects.labels, 65
 gerrit.projects.project, 67
 gerrit.projects.projects, 72
 gerrit.projects.tags, 74
 gerrit.projects.webhooks, 75
 gerrit.utils, 81
 gerrit.utils.common, 76
 gerrit.utils.exceptions, 76
 gerrit.utils.gerritbase, 79
 gerrit.utils.requester, 79
 move() (*gerrit.changes.change.GerritChange* method), 40

N

NotAllowedError, 77
 NotFoundError, 77

O

operation() (*gerrit.config.caches.Caches* method), 51

P

params_creator() (in module *gerrit.utils.common*), 76
 plugins (*gerrit.GerritClient* property), 82
 poll() (*gerrit.changes.revision.files.GerritChangeRevisionFiles* method), 30
 poll() (*gerrit.utils.gerritbase.GerritBase* method), 79
 post() (*gerrit.GerritClient* method), 82
 post() (*gerrit.utils.requester.Requester* method), 80
 ProjectAlreadyExistsError, 78
 ProjectNotFoundError, 78
 projects (*gerrit.GerritClient* property), 82

publish() (*gerrit.changes.edit.GerritChangeEdit* method), 47
 put() (*gerrit.GerritClient* method), 82
 put() (*gerrit.utils.requester.Requester* method), 80
 put_change_file_content() (*gerrit.changes.edit.GerritChangeEdit* method), 47
 put_default_star_on_change() (*gerrit.accounts.account.GerritAccount* method), 18

R

rebase() (*gerrit.changes.change.GerritChange* method), 41
 rebase() (*gerrit.changes.edit.GerritChangeEdit* method), 47
 rebase() (*gerrit.changes.revision.GerritChangeRevision* method), 33
 reload() (*gerrit.plugins.plugins.GerritPlugin* method), 61
 reload_config() (*gerrit.config.config.GerritConfig* method), 53
 remove() (*gerrit.groups.members.GerritGroupMembers* method), 59
 remove() (*gerrit.groups.subgroups.GerritGroupSubGroups* method), 60
 remove_default_star_from_change() (*gerrit.accounts.account.GerritAccount* method), 19
 remove_from_attention_set() (*gerrit.changes.change.GerritChange* method), 41
 rename_file() (*gerrit.changes.edit.GerritChangeEdit* method), 48
 Requester (class in *gerrit.utils.requester*), 79
 restore() (*gerrit.changes.change.GerritChange* method), 41
 restore_file_content() (*gerrit.changes.edit.GerritChangeEdit* method), 48
 revert() (*gerrit.changes.change.GerritChange* method), 41
 revert_submission() (*gerrit.changes.change.GerritChange* method), 42
 ReviewerAlreadyExistsError, 78
 ReviewerNotFoundError, 78
 reviewers (*gerrit.changes.change.GerritChange* property), 42
 run_garbage_collection() (*gerrit.projects.project.GerritProject* method), 70

S

`search()` (`gerrit.accounts.accounts.GerritAccounts` method), 23
`search()` (`gerrit.changes.changes.GerritChanges` method), 46
`search()` (`gerrit.changes.revision.files.GerritChangeRevisionFiles` method), 30
`search()` (`gerrit.groups.groups.GerritGroups` method), 58
`search()` (`gerrit.projects.projects.GerritProjects` method), 73
`server` (`gerrit.GerritClient` property), 82
`set()` (`gerrit.projects.labels.GerritProjectLabel` method), 65
`set_access_rights()` (`gerrit.projects.project.GerritProject` method), 70
`set_active()` (`gerrit.accounts.account.GerritAccount` method), 19
`set_assignee()` (`gerrit.changes.change.GerritChange` method), 42
`set_commit_message()` (`gerrit.changes.change.GerritChange` method), 42
`set_config()` (`gerrit.projects.project.GerritProject` method), 70
`set_default_diff_preferences()` (`gerrit.config.config.GerritConfig` method), 53
`set_default_edit_preferences()` (`gerrit.config.config.GerritConfig` method), 54
`set_default_user_preferences()` (`gerrit.config.config.GerritConfig` method), 54
`set_description()` (`gerrit.changes.revision.GerritChangeRevision` method), 33
`set_description()` (`gerrit.groups.group.GerritGroup` method), 56
`set_description()` (`gerrit.projects.project.GerritProject` method), 71
`set_diff_preferences()` (`gerrit.accounts.account.GerritAccount` method), 19
`set_displayname()` (`gerrit.accounts.account.GerritAccount` method), 19
`set_edit_preferences()` (`gerrit.accounts.account.GerritAccount` method), 19
`set_hashtags()` (`gerrit.changes.change.GerritChange` method), 43
`set_head()` (`gerrit.projects.project.GerritProject` method), 71
`set_http_password()` (`gerrit.accounts.account.GerritAccount` method), 20
`set_name()` (`gerrit.accounts.account.GerritAccount` method), 20
`set_name()` (`gerrit.groups.group.GerritGroup` method), 56
`set_options()` (`gerrit.groups.group.GerritGroup` method), 57
`set_owner()` (`gerrit.groups.group.GerritGroup` method), 57
`set_parent()` (`gerrit.projects.project.GerritProject` method), 71
`set_preferred()` (`gerrit.accounts.emails.GerritAccountEmail` method), 24
`set_preferred()` (`gerrit.accounts.emails.GerritAccountEmails` method), 24
`set_ready_for_review()` (`gerrit.changes.change.GerritChange` method), 43
`set_review()` (`gerrit.changes.revision.GerritChangeRevision` method), 34
`set_reviewed()` (`gerrit.changes.revision.files.GerritChangeRevisionFile` method), 30
`set_status()` (`gerrit.accounts.account.GerritAccount` method), 21
`set_topic()` (`gerrit.changes.change.GerritChange` method), 44
`set_user_preferences()` (`gerrit.accounts.account.GerritAccount` method), 21
`set_username()` (`gerrit.accounts.account.GerritAccount` method), 21
`set_work_in_progress()` (`gerrit.changes.change.GerritChange` method), 44
`sign_contributor_agreement()` (`gerrit.accounts.account.GerritAccount` method), 22
`ssh_keys` (`gerrit.accounts.account.GerritAccount` property), 22
`SSHKeyNotFoundError`, 78
`strip_trailing_slash()` (in module `gerrit.utils.common`), 76
`subgroup` (`gerrit.groups.group.GerritGroup` property), 57
`submit()` (`gerrit.changes.change.GerritChange` method), 44
`submit()` (`gerrit.changes.revision.GerritChangeRevision` method), 35
`submit_preview()` (`gerrit.accounts.account.GerritAccount` method), 20

rit.changes.revision.GerritChangeRevision
method), 35

T

tag_prefix (*gerrit.projects.tags.GerritProjectTags* attribute), 75
TagAlreadyExistsError, 78
TagNotFoundError, 78
tags (*gerrit.projects.project.GerritProject* property), 72
Task (class in *gerrit.config.tasks*), 55
Tasks (class in *gerrit.config.tasks*), 55
tasks (*gerrit.config.config.GerritConfig* property), 54
test_submit_rule() (*gerrit.changes.revision.GerritChangeRevision* method), 35
test_submit_type() (*gerrit.changes.revision.GerritChangeRevision* method), 35
to_dict() (*gerrit.changes.revision.files.GerritChangeRevisionFile* method), 30
to_dict() (*gerrit.utils.gerritbase.GerritBase* method), 79

U

UnauthorizedError, 78
unignore() (*gerrit.changes.change.GerritChange* method), 44
UnknownBranch, 78
UnknownFile, 78
UnknownTag, 78
unmark_private() (*gerrit.changes.change.GerritChange* method), 45
update() (*gerrit.changes.revision.drafts.GerritChangeRevisionDraft* method), 28
update_star_labels_on_change() (*gerrit.accounts.account.GerritAccount* method), 22

V

VALID_STATUS_CODES (*gerrit.utils.requester.Requester* attribute), 79
ValidationError, 78
version (*gerrit.GerritClient* property), 82

W

webhooks (*gerrit.projects.project.GerritProject* property), 72