gitlab-projects-migrate

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Description: Migrate GitLab projects from a GitLab group to another GitLab's group

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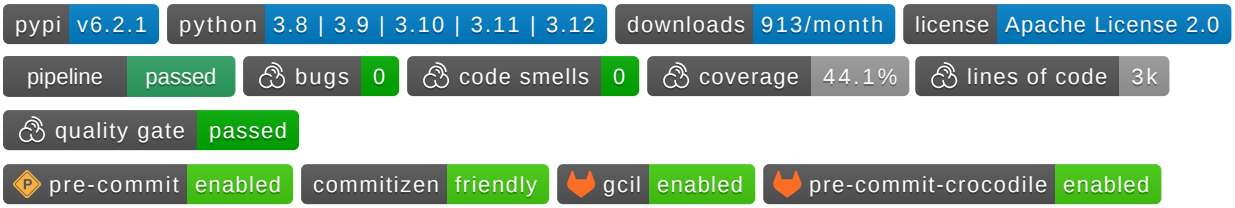
Version: `6.3.0`

▸ Usage



Migrate GitLab projects from a GitLab group to another GitLab's group

Documentation: https://radiandevcore.gitlab.io/tools/gitlab-projects-migrate
Package: https://pypi.org/project/gitlab-projects-migrate/

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Purpose

The migration can be performed between entirely different GitLab servers.

The following steps are required before using the tool:

- The groups need to be created manually by the user or by a GitLab administrator
- The GitLab user tokens must be created with an `api` scope (a short expiration date is recommended)

Examples

```
# Show the helper menu
gitlab-projects-migrate

# Migrate projects from one group to another, then migrate subgroups
gitlab-projects-migrate 'https://gitlab.com/old/group' 'https://gitlab.com/new/group'
gitlab-projects-migrate 'https://gitlab.com/old/group/subgroup1' 'https://gitlab.com/new/group/subgroup1'
gitlab-projects-migrate 'https://gitlab.com/old/group/subgroup2' 'https://gitlab.com/new/group/subgroup2'

# Migrate projects from one group to another, then archive or delete sources
gitlab-projects-migrate --archive-sources 'https://gitlab.com/old_group_1' 'https://gitlab.com/new_group_1'
gitlab-projects-migrate --delete-sources 'https://gitlab.com/old_group_2' 'https://gitlab.com/new_group_2'

# Migrate projects from one GitLab to another GitLab
gitlab-projects-migrate 'https://old.gitlab.com/group/subgroup' 'https://new.gitlab.com'

# Copy a project between two groups
gitlab-projects-migrate 'https://gitlab.com/old/group/project' 'https://gitlab.com/new/group'

# Copy and rename a project within a group
gitlab-projects-migrate 'https://gitlab.com/group/project' 'https://gitlab.com/group' 'new_project_name'

# Copy projects as templates and reset imported entities automatically
gitlab-projects-migrate --reset-entities 'Template/Issues' 'https://gitlab.com/group/template_issues'
'https://gitlab.com/group' 'issues'
gitlab-projects-migrate --reset-entities 'Template/Repository' 'https://gitlab.com/group/template_repository'
'https://gitlab.com/group' 'repository'
```

Usage

```
usage: gitlab-projects-migrate [-h] [--version] [--no-color] [--update-check] [--settings] [--set GROUP KEY VAL]
                               [-c FILES] [--archive-exports FOLDER] [--archive-sources | --delete-sources]
                               [--dry-run] [--exclude-group] [--exclude-subgroups] [--exclude-projects]
                               [--flatten-group] [--migrate-packages] [--confirm] [--overwrite]
                               [--rename-project NAME] [--available-entities] [--reset-entities ENTITIES]
                               [--set-avatar FILE] [--update-descriptions] [--]
                               [input_url_path] [output_url_namespace] [rename_single_project]

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internal arguments:
  -h, --help                # Show this help message
  --version                 # Show the current version
  --no-color                # Disable colors outputs with 'NO_COLOR=1'
                            # (or default settings: [themes] > no_color)
  --update-check            # Check for newer package updates
  --settings                # Show the current settings path and contents
  --set GROUP KEY VAL       # Set settings specific 'VAL' value to [GROUP] > KEY
                            # or unset by using 'UNSET' as 'VAL'

credentials arguments:
  -c FILES, --config FILES  # Python GitLab configuration files (default: PYTHON_GITLAB_CFG environment)

migration arguments:
  --archive-exports FOLDER  # Store exported projects and groups to a folder
  --archive-sources         # Archive sources after successful migration
  --delete-sources          # Delete sources after successful migration
  --dry-run                 # Enable dry run mode to check without saving
  --exclude-group           # Exclude parent group migration
  --exclude-subgroups       # Exclude children subgroups migration
  --exclude-projects        # Exclude children projects migration
  --flatten-group           # Flatten group projects upon migration
  --migrate-packages        # Migrate input GitLab Packages to output GitLab projects
  --confirm                 # Automatically confirm all removal and contents warnings
  --overwrite               # Overwrite existing projects on output GitLab
  --rename-project NAME     # Rename GitLab output project (only for single input project)
  --available-entities      # List the available GitLab export/import entities known by the tool
  --reset-entities ENTITIES # List of GitLab export/import entities to reset separated by "," (default: Members)

general settings arguments:
  --set-avatar FILE         # Set avatar of GitLab output projects and groups
  --update-descriptions     # Update description of GitLab output projects and groups automatically

positional arguments:
  --                        # Positional arguments separator (recommended)
  input_url_path            # Input GitLab group or project path URL
  output_url_namespace      # Output GitLab group or user namespace URL
  rename_single_project     # Rename GitLab output project (only for single input project)

environment variables:
  GITLAB_INPUT_TOKEN        # Input GitLab API token environment variable (fallback: GITLAB_TOKEN)
  GITLAB_OUTPUT_TOKEN       # Output GitLab API token environment variable (fallback: GITLAB_TOKEN)
  CI_JOB_TOKEN              # GitLab CI job token environment variable (CI only)
```

Python GitLab configuration file

`gitlab-projects-migrate` uses the same configuration files as the `python-gitlab` API, holding domains, URL and private tokens credentials for the GitLab instances.

The default user configuration file can be created at `~/.python-gitlab.cfg`.

The `-c` or `--config` parameters can provide specific configuration files, otherwise the `PYTHON_GITLAB_CFG` environment variable can be used.

Example `~/.python-gitlab.cfg` configuration file:

~/.python-gitlab.cfg

```
[global]
default = gitlab.com
ssl_verify = true
timeout = 5

[gitlab.com]
url = https://gitlab.com
private_token = glpat-...

[gitlab.local.dev]
url = https://gitlab.local.dev
private_token = glpat-...

[gitlab.private.dev:4243]
url = https://gitlab.private.dev:4243
private_token = glpat-...
ssl_verify = /usr/local/share/ca-certificates/gitlab.private.dev.crt
```

`python-gitlab` **configuration files documentation:** Getting started with the CLI / Configuration files

Userspace available settings

`gitlab-projects-migrate` creates a `settings.ini` configuration file in a userspace folder.

For example, it allows to disable the automated updates daily check (`[updates] > enabled`)

The `settings.ini` file location and contents can be shown with the following command:

```
gitlab-projects-migrate --settings
```

Environment available configurations

`gitlab-projects-migrate` uses `colored` for colors outputs and `questionary` for interactive menus.

If colors of both outputs types do not match the terminal's theme,
an environment variable `NO_COLOR=1` can be defined to disable colors.

Dependencies

- colored: Terminal colors and styles
- python-gitlab: A python wrapper for the GitLab API
- questionary: Interactive terminal user interfaces
- setuptools: Build and manage Python packages
- update-checker: Check for package updates on PyPI

References

- commitizen: Simple commit conventions for internet citizens
- git-cliff: CHANGELOG generator
- gitlab-release: Utility for publishing on GitLab
- gcil: Launch .gitlab-ci.yml jobs locally
- mkdocs: Project documentation with Markdown
- mkdocs-exporter: Exporter plugin for mkdocs documentation
- mkdocs-material: Material theme for mkdocs documentation
- mypy: Optional static typing for Python
- pre-commit: A framework for managing and maintaining pre-commit hooks
- pre-commit-crocodile: Git hooks intended for developers using pre-commit
- PyPI: The Python Package Index
- twine: Utility for publishing on PyPI

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