

[Skip to main content](#)

[__Back to top](#)

[__`Ctrl`+`K`](#)

[[conda 25.1.2.dev29 documentation](#) -

[Home](#)](../_static/conda_logo_full.svg)](../index.html)

* [\[Conda\]](https://docs.conda.io/projects/conda/)(https://docs.conda.io/projects/conda/)

* [\[Conda-build\]](https://docs.conda.io/projects/conda-build/)(https://docs.conda.io/projects/conda-build)

* [\[Miniconda\]](https://docs.anaconda.com/free/miniconda/)(https://docs.anaconda.com/free/miniconda/)

* [\[conda.org\]](https://conda.org)(https://conda.org)

* [\[__ GitHub\]](https://github.com/conda/conda)(https://github.com/conda/conda "GitHub")

* [\[!\[Element\]\(../_static/element_logo.svg\)\]](http://bit.ly/conda-chat-room)(http://bit.ly/conda-chat-room "Element")

* [\[__ Discourse\]](https://conda.discourse.group/)(https://conda.discourse.group/ "Discourse")

* [\[Conda\]](https://docs.conda.io/projects/conda/)(https://docs.conda.io/projects/conda/)

* [\[Conda-build\]](https://docs.conda.io/projects/conda-build/)(https://docs.conda.io/projects/conda-build)

* [\[Miniconda\]](https://docs.anaconda.com/free/miniconda/)(https://docs.anaconda.com/free/miniconda/)

* [\[conda.org\]](https://conda.org)(https://conda.org)

* [\[__ GitHub\]](https://github.com/conda/conda)(https://github.com/conda/conda "GitHub")

* [\[!\[Element\]\(../_static/element_logo.svg\)\]](http://bit.ly/conda-chat-room)(http://bit.ly/conda-chat-room "Element")

* [\[__ Discourse\]](https://conda.discourse.group/)(https://conda.discourse.group/ "Discourse")

Navigation

- * [\[User guide\]\(../user-guide/index.html\)](#) __
- * [\[Getting started with conda\]\(../user-guide/getting-started.html\)](#)
- * [\[Installing conda\]\(../user-guide/install/index.html\)](#) __
- * [\[Installing on Windows\]\(../user-guide/install/windows.html\)](#)
- * [\[Installing on macOS\]\(../user-guide/install/macos.html\)](#)
- * [\[Installing on Linux\]\(../user-guide/install/linux.html\)](#)
- * [\[RPM and Debian Repositories for Miniconda\]\(../user-guide/install/rpm-debian.html\)](#)
- * [\[Tasks\]\(../user-guide/tasks/index.html\)](#) __
- * [\[Managing conda\]\(../user-guide/tasks/manage-conda.html\)](#)
- * [\[Managing environments\]\(../user-guide/tasks/manage-environments.html\)](#)
- * [\[Managing channels\]\(../user-guide/tasks/manage-channels.html\)](#)
- * [\[Managing packages\]\(../user-guide/tasks/manage-pkgs.html\)](#)
- * [\[Managing Python\]\(../user-guide/tasks/manage-python.html\)](#)
- * [\[Managing virtual packages\]\(../user-guide/tasks/manage-virtual.html\)](#)
- * [\[Creating custom channels\]\(../user-guide/tasks/create-custom-channels.html\)](#)
- * [\[Creating projects\]\(../user-guide/tasks/creating-projects.html\)](#)
- * [\[Viewing command-line help\]\(../user-guide/tasks/view-command-line-help.html\)](#)
- * [\[Configuration\]\(../user-guide/configuration/index.html\)](#) __
- * [\[Using the .condarc conda configuration file\]\(../user-guide/configuration/use-condarc.html\)](#)
- * [\[Settings\]\(../user-guide/configuration/settings.html\)](#)
- * [\[Administering a multi-user conda installation\]\(../user-guide/configuration/admin-multi-user-install.html\)](#)
- * [\[Mirroring channels\]\(../user-guide/configuration/mirroring.html\)](#)
- * [\[Disabling SSL verification\]\(../user-guide/configuration/disable-ssl-verification.html\)](#)
- * [\[Using non-standard certificates\]\(../user-guide/configuration/non-standard-certs.html\)](#)

Cache](../../user-guide/configuration/custom-env-and-pkg-locations.html)

* [Improving interoperability with pip](../../user-guide/configuration/pip-interoperability.html)

* [Using the free channel](../../user-guide/configuration/free-channel.html)

* [Concepts](../../user-guide/concepts/index.html) __

* [Commands](../../user-guide/concepts/conda-commands.html)

* [Packages](../../user-guide/concepts/packages.html)

* [Package specification](../../user-guide/concepts/pkg-specs.html)

* [Package search and install specifications](../../user-guide/concepts/pkg-search.html)

* [Channels](../../user-guide/concepts/channels.html)

* [Environments](../../user-guide/concepts/environments.html)

* [Installing with conda](../../user-guide/concepts/installing-with-conda.html)

* [Performance](../../user-guide/concepts/conda-performance.html)

* [Conda for data scientists](../../user-guide/concepts/data-science.html)

* [Plugins](../../user-guide/concepts/conda-plugins.html)

* [Troubleshooting](../../user-guide/troubleshooting.html)

* [Cheatsheet](../../user-guide/cheatsheet.html)

* [Configuration](../../configuration.html)

* [Commands](../../commands/index.html) __

* [``conda clean``](../../commands/clean.html)

* [``conda compare``](../../commands/compare.html)

* [``conda config``](../../commands/config.html)

* [``conda create``](../../commands/create.html)

* [``conda doctor``](../../commands/doctor.html)

* [``conda env``](../../commands/env/index.html) __

* [``conda env config``](../../commands/env/config/index.html) __

* [``conda env config vars``](../../commands/env/config/vars/index.html) __

- * [`conda env config vars list`](../commands/env/config/vars/list.html)
- * [`conda env config vars set`](../commands/env/config/vars/set.html)
- * [`conda env config vars unset`](../commands/env/config/vars/unset.html)
- * [`conda env create`](../commands/env/create.html)
- * [`conda env export`](../commands/env/export.html)
- * [`conda env list`](../commands/env/list.html)
- * [`conda env remove`](../commands/env/remove.html)
- * [`conda env update`](../commands/env/update.html)
- * [`conda info`](../commands/info.html)
- * [`conda init`](../commands/init.html)
- * [`conda install`](../commands/install.html)
- * [`conda list`](../commands/list.html)
- * [`conda notices`](../commands/notices.html)
- * [`conda package`](../commands/package.html)
- * [`conda remove`](../commands/remove.html)
- * [`conda rename`](../commands/rename.html)
- * [`conda run`](../commands/run.html)
- * [`conda search`](../commands/search.html)
- * [`conda update`](../commands/update.html)
- * [Release notes](../release-notes.html)
- * [Glossary](../glossary.html)
- * [Developer guide](../index.html) __
- * [Architecture](../architecture.html)
- * [Contributing to conda](../contributing.html)
- * [Development Environment](../development-environment.html)
- * [Deep dives](../deep-dives/index.html) __
- * [`conda install`](../deep-dives/install.html)

- * [``conda init`` and ``conda activate``](../deep-dives/activation.html)
- * [``conda config`` and context](../deep-dives/context.html)
- * [Solvers](../deep-dives/solvers.html)
- * [Logging](../deep-dives/logging.html)
- * [Writing Tests](../writing-tests/index.html) __
- * [Integration Tests](../writing-tests/integration-tests.html)
- * [Deprecations](../deprecations.html)
- * [Releasing](../releasing.html)
- * [Plugins](index.html) __
- * [Auth Handlers](auth_handlers.html)
- * [Health Checks](health_checks.html)
- * [Request Headers](request_headers.html)
- * [Post-commands](post_commands.html)
- * Pre-commands
- * [Reporter Backends](reporter_backends.html)
- * [Settings](settings.html)
- * [Solvers](solvers.html)
- * [Subcommands](subcommands.html)
- * [Virtual Packages](virtual_packages.html)
- * [Specifications](../specs/index.html) __
- * [Technical specification: solver state](../specs/solver-state.html)
- * [API](../api.html) __
- * [``conda``](../api/conda/index.html) __
- * [``__main__``](../api/conda/__main__/index.html)
- * [``_vendor``](../api/conda/_vendor/index.html) __
- * [``frozendict``](../api/conda/_vendor/frozendict/index.html)
- * [``_version``](../api/conda/_version/index.html)

- * [`activate``](../api/conda/activate/index.html)
- * [`api``](../api/conda/api/index.html)
- * [`auxlib``](../api/conda/auxlib/index.html) __
 - * [`collection``](../api/conda/auxlib/collection/index.html)
 - * [`compat``](../api/conda/auxlib/compat/index.html)
 - * [`decorators``](../api/conda/auxlib/decorators/index.html)
 - * [`entity``](../api/conda/auxlib/entity/index.html)
 - * [`exceptions``](../api/conda/auxlib/exceptions/index.html)
 - * [`ish``](../api/conda/auxlib/ish/index.html)
 - * [`logz``](../api/conda/auxlib/logz/index.html)
 - * [`type_coercion``](../api/conda/auxlib/type_coercion/index.html)
- * [`base``](../api/conda/base/index.html) __
 - * [`constants``](../api/conda/base/constants/index.html)
 - * [`context``](../api/conda/base/context/index.html)
- * [`cli``](../api/conda/cli/index.html) __
 - * [`actions``](../api/conda/cli/actions/index.html)
 - * [`common``](../api/conda/cli/common/index.html)
 - * [`conda_argparse``](../api/conda/cli/conda_argparse/index.html)
 - * [`find_commands``](../api/conda/cli/find_commands/index.html)
 - * [`helpers``](../api/conda/cli/helpers/index.html)
 - * [`install``](../api/conda/cli/install/index.html)
 - * [`main``](../api/conda/cli/main/index.html)
 - * [`main_clean``](../api/conda/cli/main_clean/index.html)
 - * [`main_commands``](../api/conda/cli/main_commands/index.html)
 - * [`main_compare``](../api/conda/cli/main_compare/index.html)
 - * [`main_config``](../api/conda/cli/main_config/index.html)
 - * [`main_create``](../api/conda/cli/main_create/index.html)

- * [main_env](../api/conda/cli/main_env/index.html)
- * [main_env_config](../api/conda/cli/main_env_config/index.html)
- * [main_env_create](../api/conda/cli/main_env_create/index.html)
- * [main_env_export](../api/conda/cli/main_env_export/index.html)
- * [main_env_list](../api/conda/cli/main_env_list/index.html)
- * [main_env_remove](../api/conda/cli/main_env_remove/index.html)
- * [main_env_update](../api/conda/cli/main_env_update/index.html)
- * [main_env_vars](../api/conda/cli/main_env_vars/index.html)
- * [main_export](../api/conda/cli/main_export/index.html)
- * [main_info](../api/conda/cli/main_info/index.html)
- * [main_init](../api/conda/cli/main_init/index.html)
- * [main_install](../api/conda/cli/main_install/index.html)
- * [main_list](../api/conda/cli/main_list/index.html)
- * [main_mock_activate](../api/conda/cli/main_mock_activate/index.html)
- * [main_mock_deactivate](../api/conda/cli/main_mock_deactivate/index.html)
- * [main_notices](../api/conda/cli/main_notices/index.html)
- * [main_package](../api/conda/cli/main_package/index.html)
- * [main_pip](../api/conda/cli/main_pip/index.html)
- * [main_remove](../api/conda/cli/main_remove/index.html)
- * [main_rename](../api/conda/cli/main_rename/index.html)
- * [main_run](../api/conda/cli/main_run/index.html)
- * [main_search](../api/conda/cli/main_search/index.html)
- * [main_update](../api/conda/cli/main_update/index.html)
- * [python_api](../api/conda/cli/python_api/index.html)
- * [common](../api/conda/common/index.html) __
- * [_logic](../api/conda/common/_logic/index.html)
- * [_os](../api/conda/common/_os/index.html) __

- * [`linux``](../api/conda/common/_os/linux/index.html)
- * [`osx``](../api/conda/common/_os/osx/index.html)
- * [`unix``](../api/conda/common/_os/unix/index.html)
- * [`windows``](../api/conda/common/_os/windows/index.html)
- * [`compat``](../api/conda/common/compat/index.html)
- * [`configuration``](../api/conda/common/configuration/index.html)
- * [`constants``](../api/conda/common/constants/index.html)
- * [`disk``](../api/conda/common/disk/index.html)
- * [`io``](../api/conda/common/io/index.html)
- * [`iterators``](../api/conda/common/iterators/index.html)
- * [`logic``](../api/conda/common/logic/index.html)
- * [`path``](../api/conda/common/path/index.html) __
- * [`_cygpath``](../api/conda/common/path/_cygpath/index.html)
- * [`directories``](../api/conda/common/path/directories/index.html)
- * [`python``](../api/conda/common/path/python/index.html)
- * [`windows``](../api/conda/common/path/windows/index.html)
- * [`pkg_formats``](../api/conda/common/pkg_formats/index.html) __
- * [`python``](../api/conda/common/pkg_formats/python/index.html)
- * [`serialize``](../api/conda/common/serialize/index.html)
- * [`signals``](../api/conda/common/signals/index.html)
- * [`toposort``](../api/conda/common/toposort/index.html)
- * [`url``](../api/conda/common/url/index.html)
- * [`core``](../api/conda/core/index.html) __
- * [`envs_manager``](../api/conda/core/envs_manager/index.html)
- * [`index``](../api/conda/core/index/index.html)
- * [`initialize``](../api/conda/core/initialize/index.html)
- * [`link``](../api/conda/core/link/index.html)

- * [package_cache_data](../api/conda/core/package_cache_data/index.html)
- * [path_actions](../api/conda/core/path_actions/index.html)
- * [portability](../api/conda/core/portability/index.html)
- * [prefix_data](../api/conda/core/prefix_data/index.html)
- * [solve](../api/conda/core/solve/index.html)
- * [subdir_data](../api/conda/core/subdir_data/index.html)
- * [deprecations](../api/conda/deprecations/index.html)
- * [env](../api/conda/env/index.html) __
- * [env](../api/conda/env/env/index.html)
- * [installers](../api/conda/env/installers/index.html) __
- * [base](../api/conda/env/installers/base/index.html)
- * [conda](../api/conda/env/installers/conda/index.html)
- * [pip](../api/conda/env/installers/pip/index.html)
- * [pip_util](../api/conda/env/pip_util/index.html)
- * [specs](../api/conda/env/specs/index.html) __
- * [binstar](../api/conda/env/specs/binstar/index.html)
- * [requirements](../api/conda/env/specs/requirements/index.html)
- * [yaml_file](../api/conda/env/specs/yaml_file/index.html)
- * [exception_handler](../api/conda/exception_handler/index.html)
- * [exceptions](../api/conda/exceptions/index.html)
- * [exports](../api/conda/exports/index.html)
- * [gateways](../api/conda/gateways/index.html) __
- * [anaconda_client](../api/conda/gateways/anaconda_client/index.html)
- * [connection](../api/conda/gateways/connection/index.html) __
- * [adapters](../api/conda/gateways/connection/adapters/index.html) __
- * [ftp](../api/conda/gateways/connection/adapters/ftp/index.html)
- * [http](../api/conda/gateways/connection/adapters/http/index.html)

- * [localfs](../api/conda/gateways/connection/adapters/localfs/index.html)
- * [s3](../api/conda/gateways/connection/adapters/s3/index.html)
- * [download](../api/conda/gateways/connection/download/index.html)
- * [session](../api/conda/gateways/connection/session/index.html)
- * [disk](../api/conda/gateways/disk/index.html) __
- * [create](../api/conda/gateways/disk/create/index.html)
- * [delete](../api/conda/gateways/disk/delete/index.html)
- * [link](../api/conda/gateways/disk/link/index.html)
- * [lock](../api/conda/gateways/disk/lock/index.html)
- * [permissions](../api/conda/gateways/disk/permissions/index.html)
- * [read](../api/conda/gateways/disk/read/index.html)
- * [test](../api/conda/gateways/disk/test/index.html)
- * [update](../api/conda/gateways/disk/update/index.html)
- * [logging](../api/conda/gateways/logging/index.html)
- * [reodata](../api/conda/gateways/reodata/index.html) __
- * [jlap](../api/conda/gateways/reodata/jlap/index.html) __
- * [core](../api/conda/gateways/reodata/jlap/core/index.html)
- * [fetch](../api/conda/gateways/reodata/jlap/fetch/index.html)
- * [interface](../api/conda/gateways/reodata/jlap/interface/index.html)
- * [lock](../api/conda/gateways/reodata/lock/index.html)
- * [subprocess](../api/conda/gateways/subprocess/index.html)
- * [history](../api/conda/history/index.html)
- * [instructions](../api/conda/instructions/index.html)
- * [misc](../api/conda/misc/index.html)
- * [models](../api/conda/models/index.html) __
- * [channel](../api/conda/models/channel/index.html)
- * [dist](../api/conda/models/dist/index.html)

- * `[`enums`](../api/conda/models/enums/index.html)`
- * `[`leased_path_entry`](../api/conda/models/leased_path_entry/index.html)`
- * `[`match_spec`](../api/conda/models/match_spec/index.html)`
- * `[`package_info`](../api/conda/models/package_info/index.html)`
- * `[`prefix_graph`](../api/conda/models/prefix_graph/index.html)`
- * `[`records`](../api/conda/models/records/index.html)`
- * `[`version`](../api/conda/models/version/index.html)`
- * `[`notices`](../api/conda/notices/index.html) __`
 - * `[`cache`](../api/conda/notices/cache/index.html)`
 - * `[`core`](../api/conda/notices/core/index.html)`
 - * `[`fetch`](../api/conda/notices/fetch/index.html)`
 - * `[`types`](../api/conda/notices/types/index.html)`
 - * `[`views`](../api/conda/notices/views/index.html)`
- * `[`plan`](../api/conda/plan/index.html)`
- * `[`plugins`](../api/conda/plugins/index.html) __`
 - * `[`hookspec`](../api/conda/plugins/hookspec/index.html)`
 - * `[`manager`](../api/conda/plugins/manager/index.html)`
 - * `[`post_solves`](../api/conda/plugins/post_solves/index.html) __`
 - * `[`signature_verification`](../api/conda/plugins/post_solves/signature_verification/index.html)`
 - * `[`reporter_backends`](../api/conda/plugins/reporter_backends/index.html) __`
 - * `[`console`](../api/conda/plugins/reporter_backends/console/index.html)`
 - * `[`json`](../api/conda/plugins/reporter_backends/json/index.html)`
 - * `[`solvers`](../api/conda/plugins/solvers/index.html)`
 - * `[`subcommands`](../api/conda/plugins/subcommands/index.html) __`
 - * `[`doctor`](../api/conda/plugins/subcommands/doctor/index.html) __`
 - * `[`health_checks`](../api/conda/plugins/subcommands/doctor/health_checks/index.html)`
 - * `[`types`](../api/conda/plugins/types/index.html)`

- * [virtual_packages](../api/conda/plugins/virtual_packages/index.html) __
- * [archspec](../api/conda/plugins/virtual_packages/archspec/index.html)
- * [conda](../api/conda/plugins/virtual_packages/conda/index.html)
- * [cuda](../api/conda/plugins/virtual_packages/cuda/index.html)
- * [freebsd](../api/conda/plugins/virtual_packages/freebsd/index.html)
- * [linux](../api/conda/plugins/virtual_packages/linux/index.html)
- * [osx](../api/conda/plugins/virtual_packages/osx/index.html)
- * [windows](../api/conda/plugins/virtual_packages/windows/index.html)
- * [reporters](../api/conda/reporters/index.html)
- * [resolve](../api/conda/resolve/index.html)
- * [testing](../api/conda/testing/index.html) __
- * [cases](../api/conda/testing/cases/index.html)
- * [fixtures](../api/conda/testing/fixtures/index.html)
- * [gateways](../api/conda/testing/gateways/index.html) __
- * [fixtures](../api/conda/testing/gateways/fixtures/index.html)
- * [helpers](../api/conda/testing/helpers/index.html)
- * [integration](../api/conda/testing/integration/index.html)
- * [notices](../api/conda/testing/notices/index.html) __
- * [fixtures](../api/conda/testing/notices/fixtures/index.html)
- * [helpers](../api/conda/testing/notices/helpers/index.html)
- * [solver_helpers](../api/conda/testing/solver_helpers/index.html)
- * [trust](../api/conda/trust/index.html) __
- * [constants](../api/conda/trust/constants/index.html)
- * [signature_verification](../api/conda/trust/signature_verification/index.html)
- * [utils](../api/conda/utils/index.html)
- * [conda_env](../api/conda_env/index.html) __
- * [cli](../api/conda_env/cli/index.html)

* [`installers`](../api/conda_env/installers/index.html)`

* [`__`](../../index.html)`

* [`Developer guide`](../index.html)`

* [`Plugins`](index.html)`

* Pre-commands

Pre-commands#

Conda commands can be extended with the ``conda_pre_commands`` plugin hook. By specifying the set of commands you would like to use in the ``run_for`` configuration option, you can execute code via the ``action`` option before these commands are run. The functions are provided a ``command`` argument representing the name of the command currently running.

If you would like to target ``conda env`` commands, prefix the command name with ``env_``. For example, ``conda env list`` would be passed to ``run_for`` as ``env_list``.

`_class _CondaPreCommand#`

Return type to use when defining a conda pre-command plugin hook.

For details on how this is used, see ``conda_pre_commands()``.

Parameters:

* **name** -- Pre-command name (e.g., `custom_plugin_pre_commands`).

* **action** -- Callable which contains the code to be run.

* **run_for** -- Represents the command(s) this will be run on (e.g. `install` or `create`).

action#

name#

run_for#

conda_pre_commands()#

Register pre-command functions in conda.

****Example:****

```
from conda import plugins
```

```
def example_pre_command(command):  
    print("pre-command action")
```

```
@plugins.hookimpl
```

```
def conda_pre_commands():  
    yield plugins.CondaPreCommand(  
        name="example-pre-command",  
        action=example_pre_command,  
        run_for={"install", "create"},  
    )
```

___On this page

* `CondaPreCommand`

* `CondaPreCommand.action`

* `CondaPreCommand.name`

* `CondaPreCommand.run_for`

* ``conda_pre_commands()``

[[__Edit on GitHub](https://github.com/conda/conda/edit/main/docs/source/dev-guide/plugins/pre_commands.rst)](https://github.com/conda/conda/edit/main/docs/source/dev-guide/plugins/pre_commands.rst)

[[__Show Source](https://github.com/conda/conda/edit/main/docs/source/dev-guide/plugins/pre_commands.rst.txt)](../../_sources/dev-guide/plugins/pre_commands.rst.txt)

© Copyright 2017, Anaconda, Inc.

Created using [Sphinx](https://www.sphinx-doc.org/) 7.4.7.

[[Analytics Dashboard __](https://docs-conda-io.goatcounter.com)](https://docs-conda-io.goatcounter.com "Analytics Dashboard")

Built with the [PyData Sphinx Theme](https://pydata-sphinx-theme.readthedocs.io/en/stable/index.html) 0.15.4.