

[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

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

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

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

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

- * [Concepts](index.html) __

- * [Commands](conda-commands.html)

- * [Packages](packages.html)

- * [Package specification](pkg-specs.html)

- * [Package search and install specifications](pkg-search.html)

- * [Channels](channels.html)

- * [Environments](environments.html)

- * [Installing with conda](installing-with-conda.html)

- * [Performance](conda-performance.html)

- * [Conda for data scientists](data-science.html)

- * Plugins

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

- * [Cheatsheet](../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](../dev-guide/index.html) __
- * [Architecture](../dev-guide/architecture.html)
- * [Contributing to conda](../dev-guide/contributing.html)
- * [Development Environment](../dev-guide/development-environment.html)
- * [Deep dives](../dev-guide/deep-dives/index.html) __
- * [`conda install`](../dev-guide/deep-dives/install.html)
- * [`conda init` and `conda activate`](../dev-guide/deep-dives/activation.html)

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

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

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

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

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

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

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

health_checks`](../../dev-guide/api/conda/plugins/subcommands/doctor/health_checks/index.html)

* [`types`](../../dev-guide/api/conda/plugins/types/index.html)

* [`virtual_packages`](../../dev-guide/api/conda/plugins/virtual_packages/index.html) __

* [`archspec`](../../dev-guide/api/conda/plugins/virtual_packages/archspec/index.html)

* [`conda`](../../dev-guide/api/conda/plugins/virtual_packages/conda/index.html)

* [`cuda`](../../dev-guide/api/conda/plugins/virtual_packages/cuda/index.html)

* [`freebsd`](../../dev-guide/api/conda/plugins/virtual_packages/freebsd/index.html)

* [`linux`](../../dev-guide/api/conda/plugins/virtual_packages/linux/index.html)

* [`osx`](../../dev-guide/api/conda/plugins/virtual_packages/osx/index.html)

* [`windows`](../../dev-guide/api/conda/plugins/virtual_packages/windows/index.html)

* [`reporters`](../../dev-guide/api/conda/reporters/index.html)

* [`resolve`](../../dev-guide/api/conda/resolve/index.html)

* [`testing`](../../dev-guide/api/conda/testing/index.html) __

* [`cases`](../../dev-guide/api/conda/testing/cases/index.html)

* [`fixtures`](../../dev-guide/api/conda/testing/fixtures/index.html)

* [`gateways`](../../dev-guide/api/conda/testing/gateways/index.html) __

* [`fixtures`](../../dev-guide/api/conda/testing/gateways/fixtures/index.html)

* [`helpers`](../../dev-guide/api/conda/testing/helpers/index.html)

* [`integration`](../../dev-guide/api/conda/testing/integration/index.html)

* [`notices`](../../dev-guide/api/conda/testing/notices/index.html) __

* [`fixtures`](../../dev-guide/api/conda/testing/notices/fixtures/index.html)

* [`helpers`](../../dev-guide/api/conda/testing/notices/helpers/index.html)

* [`solver_helpers`](../../dev-guide/api/conda/testing/solver_helpers/index.html)

* [`trust`](../../dev-guide/api/conda/trust/index.html) __

* [`constants`](../../dev-guide/api/conda/trust/constants/index.html)

* [`signature_verification`](../../dev-guide/api/conda/trust/signature_verification/index.html)

* [`utils`](../../dev-guide/api/conda/utils/index.html)

- * [`conda_env``](../dev-guide/api/conda_env/index.html) __
- * [`cli``](../dev-guide/api/conda_env/cli/index.html)
- * [`installers``](../dev-guide/api/conda_env/installers/index.html)

- * [__](../index.html)
- * [User guide](../index.html)
- * [Concepts](index.html)
- * Plugins

Plugins#

In order to enable customization and extra features that are compatible with and discoverable by conda (but do not necessarily ship as a default part of the conda codebase), an official conda plugin mechanism has been implemented as of version `22.11.0`.

Implementation#

Plugins in conda integrate the "hook + entry point" structure by utilizing the [Pluggy](https://pluggy.readthedocs.io/en/stable/) Python framework. This implementation can be broken down via the following two steps:

- * Define the hook(s) to be registered
- * Register the plugin under the conda entrypoint namespace

Hook#

Below is an example of a very basic plugin "hook":

my_plugin.py#

```
import conda.plugins
```

```
@conda.plugins.hookimpl
```

```
def conda_subcommands(): ...
```

Packaging using a pyproject.toml file#

Below is an example that configures `setuptools` using a `pyproject.toml` file

(note that the `setup.py` file is optional if a `pyproject.toml` file is

defined, and thus will not be discussed here):

pyproject.toml#

```
[build-system]
```

```
requires = ["setuptools", "setuptools-scm"]
```

```
build-backend = "setuptools.build_meta"
```

```
[project]
name = "my-conda-plugin"
version = "1.0.0"
description = "My conda plugin"
requires-python = ">=3.7"
dependencies = ["conda"]
```

```
[project.entry-points."conda"]
my-conda-plugin = "my_plugin"
```

Conda plugins use cases#

The new conda plugin API ecosystem brings about many possibilities, including but not limited to:

- * [Custom subcommands](../dev-guide/plugins/subcommands.html)
- * Support for packaging-related topics (_e.g._ , [virtual packages](../dev-guide/plugins/virtual_packages.html))
- * Development environment integrations (_e.g._ , shells)
- * Alternative dependency solver backends
- * Network adapters

- * Build system integrations
- * Non-Python language support (_e.g._ , C, Rust)
- * Experimental features that are not currently covered by conda

Benefits of conda plugins#

A conda plugin ecosystem enables contributors across the conda community to develop and share new features, thus bringing about more functionality and focus on the user experience. Though the list below is by no means exhaustive, some of the benefits of conda plugins include:

- * Support for a better distribution of maintenance in the conda community
- * Enabling third party contributors to use official APIs instead of having to divert to workarounds and wrappers
- * The ability to extend conda internals via official APIs
- * Lowering the barrier for contributions from other stakeholders in the conda ecosystem
- * ... and much more!

___On this page

- * Implementation
- * Hook
- * Packaging using a pyproject.toml file
- * Conda plugins use cases
- * Benefits of conda plugins

[__Edit on GitHub](<https://github.com/conda/conda/edit/main/docs/source/user-guide/concepts/conda-plugins.rst>)

[__Show Source]([../../_sources/user-guide/concepts/conda-plugins.rst.txt](https://github.com/conda/conda/blob/main/docs/source/user-guide/concepts/conda-plugins.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> "Analytics Dashboard")

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