

/ Docker style

Docker style

```
- uses: ansys/actions/docker-style@v10.2
with:
  directory: docker
  error-level: 1
  recursive: true
```

Ref: [Docker style](#)

/ Doc deploy changelog

Update changelog for new tag

```
- uses: ansys/actions/doc-deploy-changelog@v10.2
with:
  bot-email: ${ secrets.PYANSYS_CI_BOT_EMAIL }}
  bot-user: ${ secrets.PYANSYS_CI_BOT_USERNAME
}}
  token: ${ secrets.PYANSYS_CI_BOT_TOKEN }}
```

Ref: [Update CHANGELOG for new tag](#)

/ Doc deploy dev

Deploy developers documentation

```
- name: Deploy the latest documentation
uses: ansys/actions/doc-deploy-dev@v10.2
with:
  bot-email: ${ secrets.PYANSYS_CI_BOT_EMAIL }}
  bot-user: ${ secrets.PYANSYS_CI_BOT_USERNAME
}}
  cname: <library>.docs.pyansys.com
  token: ${ secrets.GITHUB_TOKEN }}
```

Ref: [Deploy developers documentation](#)

/ Tests pytest

Testing library with different operating systems and python versions

```
- name: Run pytest
uses: ansys/actions/tests-pytest@v10.2
with:
  pytest-extra-args: --cov=ansys.<library>
  --cov-report=term
  --cov-report=html:.cov/html
  pytest-markers: -k 'mocked'
```

Ref: [Testing library with different operating systems and Python versions](#)

Optimized testing with different operating systems and python versions

```
- name: Login into the GitHub container registry
uses:
  docker/login-action@f4ef78c080cd8ba55a85445d5b30ef1481d120a
```

```
with:
  password: ${ secrets.GITHUB_TOKEN }}
  registry: ghcr.io
  username: ${ secrets.GH_USERNAME }}
- env:
  LICENSE_SERVER: ${ secrets.LICENSE_SERVER }}
name: Pull, launch and verify desired Ansys
  service
run: '...'
- name: Run pytest with desired markers and extra
  arguments
uses: ansys/actions/tests-pytest@v10.2
with:
  pytest-extra-args: ${ matrix.cfg.extra-args }}
  pytest-markers: ${ matrix.cfg.markers }}
  requires-xvfb: true
```

Ref: [Optimized testing with different operating systems and Python versions](#)

/ Doc style

Running documentation style checks

```
- name: Running documentation style checks
uses: ansys/actions/doc-style@v10.2
with:
  token: ${ secrets.GITHUB_TOKEN }}
```

Ref: [Running documentation style checks](#)

/ Release pypi private

Release to private pypi

```
- name: Release to the private PyPI repository
uses: ansys/actions/release-pypi-private@v10.2
with:
  library-name: ansys-<product>-<library>
  twine-token: ${ secrets.PYANSYS_PYPI_PRIVATE_PAT }}
  twine-username: __token__
```

Ref: [Release to private PyPI](#)

/ Build library

Build library basic example

```
- name: Build library source and wheel artifacts
uses: ansys/actions/build-library@v10.2
with:
  library-name: ansys-<product>-<library>
```

Ref: [Build library basic example](#)

/ Check licenses

Check library dependencies ship with valid licenses

```
- name: Validate third party licenses
uses: ansys/actions/check-licenses@v10.2
with:
  python-version: ${ env.MAIN_PYTHON_VERSION }}
```

Ref: [Check library dependencies ship with valid licenses](#)

/ Doc changelog

Create changelog fragment

```
- uses: ansys/actions/doc-changelog@v10.2
with:
  bot-email: ${ secrets.PYANSYS_CI_BOT_EMAIL }}
  bot-user: ${ secrets.PYANSYS_CI_BOT_USERNAME
}}
  token: ${ secrets.PYANSYS_CI_BOT_TOKEN }}
```

Ref: [Create changelog fragment](#)

/ Release pypi test

Release to test pypi

```
- name: Release to the test PyPI repository
uses: ansys/actions/release-pypi-test@v10.2
with:
  library-name: ansys-<product>-<library>
  twine-token: ${ secrets.PYANSYS_PYPI_TEST_PAT
}}
  twine-username: __token__
```

Ref: [Release to test PyPI](#)

/ Check vulnerabilities

Check library vulnerabilities

```
- uses: ansys/actions/check-vulnerabilities@v10.2
with:
  dev-mode: ${ github.ref != 'refs/heads/main'
}}
  python-package-name: ansys-<product>-<library>
  python-version: ${ env.MAIN_PYTHON_VERSION }}
  token: ${ secrets.PYANSYS_CI_BOT_TOKEN }}
```

Ref: [Check library vulnerabilities](#)

/ Build ci wheels

Build a c-extension library

```
- name: Build a C-extension library wheel artifacts
uses: ansys/actions/build-ci-library@v10.2
```

Ref: [Build a C-extension library](#)

/ Doc deploy stable

Deploy stable documentation

```
- name: Deploy the stable documentation
  uses: ansys/actions/doc-deploy-stable@v10.2
  with:
    bot-email: ${{ secrets.PYANSYS_CI_BOT_EMAIL }}
    bot-user: ${{ secrets.PYANSYS_CI_BOT_USERNAME }}
    cname: <library>.docs.pyansys.com
    token: ${{ secrets.GITHUB_TOKEN }}
```

Ref: [Deploy stable documentation](#)

/ Doc build

Installing additional system dependencies for building documentation

```
- name: Run Ansys documentation building action
  uses: ansys/actions/doc-build@v10.2
  with:
    dependencies: graphviz mermaid-cli
```

Ref: [Installing additional system dependencies for building documentation](#)

Building library documentation

```
- name: Run Ansys documentation building action
  uses: ansys/actions/doc-build@v10.2
```

Ref: [Building library documentation](#)

Building library documentation that using xvfb

```
- name: Run Ansys documentation building action
  uses: ansys/actions/doc-build@v10.2
  with:
    requires-xvfb: true
```

Ref: [Building library documentation that using XVFB](#)

/ Code style

Running code style checks

```
- name: Run PyAnsys code style checks
  uses: ansys/actions/code-style@v10.2
```

Ref: [Running code style checks](#)

/ Check actions security

Check actions security

```
- uses: ansys/actions/check-actions-security@v10.2
  with:
    auditing-level: high
    generate-summary: true
    token: ${{ secrets.GITHUB_TOKEN }}
    trust-ansys-actions: true
```

Ref: [Check actions security](#)

/ Check pr title

Check pull-request title follows conventional commits

```
- uses: ansys/actions/check-pr-title@v10.2
  with:
    token: ${{ secrets.GITHUB_TOKEN }}
```

Ref: [Check pull-request title follows conventional commits](#)

/ Hk package clean untagged

Perform untagged versions cleanup

```
- name: Perform untagged versions cleanup
  uses:
    ansys/actions/hk-package-clean-untagged@v10.2
  with:
    package-name: mypackage
    token: ${{ secrets.GITHUB_TOKEN }}
```

Ref: [Perform untagged versions cleanup](#)

/ Hk automerge prs

Automerging dependabot and pre-commit.ci prs

```
- name: Automerging dependabot and pre-commit.ci PRs
  uses: ansys/actions/hk-automerge-prs@v10.2
  with:
    approver: ${{ secrets.PYANSYS_CI_BOT_USERNAME }}
    approver-token: ${{ secrets.PYANSYS_CI_BOT_TOKEN }}
```

Ref: [Automerging dependabot and pre-commit.ci PRs](#)

/ Hk package clean except

Perform versions cleanup - except certain tags

```
- name: Perform versions cleanup - except certain tags
  uses: ansys/actions/hk-package-clean-except@v10.2
  with:
    package-name: mypackage
    tags-kept: latest, latest-unstable
    token: ${{ secrets.GITHUB_TOKEN }}
```

Ref: [Perform versions cleanup - except certain tags](#)

/ Check environment approval

Check environment approval

```
- id: block
  name: Decide which environment should be used
  uses:
    ansys/actions/check-environment-approval@v10.2
```

Ref: [Check environment approval](#)

/ Build wheelhouse

Build wheelhouse for latest python versions

```
- name: Build a wheelhouse of the Python library
  uses: ansys/actions/build-wheelhouse@v10.2
  with:
    library-name: <ansys-product-library>
    operating-system: ${{ matrix.os }}
    python-version: ${{ matrix.python-version }}
```

Ref: [Build wheelhouse for latest Python versions](#)

/ Release pypi public

Release to public pypi

```
- name: Release to the public PyPI repository
  uses: ansys/actions/release-pypi-public@v10.2
  with:
    library-name: ansys-<product>-<library>
    twine-token: ${{ secrets.PYPI_TOKEN }}
    twine-username: __token__
```

Ref: [Release to public PyPI](#)

/ Release github

Release to github

```
- name: Release to GitHub
  uses: ansys/actions/release-github@v10.2
  with:
    library-name: ansys-<product>-<library>
```

Ref: [Release to GitHub](#)

/ Doc deploy pr

Deploy pr documentation

```
- uses: ansys/actions/doc-deploy-pr@v10.2
  with:
    bot-email: ${{ secrets.PYANSYS_CI_BOT_EMAIL }}
    bot-user: ${{ secrets.PYANSYS_CI_BOT_USERNAME }}
    cname: ${{ env.DOCUMENTATION_CNAME }}
    maximum-pr-doc-deployments: 3
    token: ${{ secrets.GITHUB_TOKEN }}
```

Ref: [Deploy PR documentation](#)