# **Ansys Actions**

Version: main



#### / Doc build

Installing additional system dependencies for building documentation

```
- name: Run Ansys documentation building action
  uses: ansys/actions/doc-build@v9.0
  with:
    dependencies: graphviz mermaid-cli
```

 ${\it Ref}$ : Installing additional system dependencies for building documentation

Building library documentation that using xvfb

```
- name: Run Ansys documentation building action
  uses: ansys/actions/doc-build@v9.0
  with:
    requires-xvfb: true
```

Ref: Building library documentation that using XVFB Building library documentation

 name: Run Ansys documentation building action uses: ansys/actions/doc-build@v9.0

Ref: Building library documentation

# / Release github

Release to github

```
- name: Release to GitHub
  uses: ansys/actions/release-github@v9.0
  with:
    library-name: ansys-cproduct>-<library>
```

Ref: Release to GitHub

# / Release pypi private

Release to private pypi

```
- name: Release to the private PyPI repository
uses: ansys/actions/release-pypi-private@v9.0
with:
   library-name: ansys-cyroduct>-<library>
   twine-token: ${{
      secrets.PYANSYS_PYPI_PRIVATE_PAT }}
   twine-username: __token__
```

**Ref**: Release to private PyPI

#### / Build ci wheels

Build a c-extension library

```
    name: Build a C-extension library wheel artifacts
uses: ansys/actions/build-ci-library@v9.0
```

Ref: Build a C-extension library

#### / Check vulnerabilities

Check library vulnerabilities

```
- uses: ansys/actions/check-vulnerabilities@v9.0
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

# / Release pypi public

Release to public pypi

```
- name: Release to the public PyPI repository
  uses: ansys/actions/release-pypi-public@v9.0
  with:
    library-name: ansys-<product>-<library>
    twine-token: ${{ secrets.PYPI_TOKEN }}
    twine-username: __token__
```

Ref: Release to public PyPI

#### / Build wheelhouse

Build wheelhouse for latest python versions

```
- name: Build a wheelhouse of the Python library
uses: ansys/actions/build-wheelhouse@v9.0
with:
   library-name: <ansys-product-library>
   operating-system: ${{ matrix.os }}
   python-version: ${{ matrix.python-version }}
```

**Ref**: Build wheelhouse for latest Python versions

# / Doc changelog

Create changelog fragment

```
- uses: ansys/actions/doc-changelog@v9.0
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

#### / Tests pytest

Testing library with different operating systems and python versions

```
- name: Run pytest
  uses: ansys/actions/tests-pytest@v9.0
  with:
```

**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
    docker/login-action@f4ef78c080cd8ba55a85445d5b36e
with:
  password: ${{ secrets.GITHUB_TOKEN }}
  registry: ghcr.io
  username: ${{ secrets.GH_USERNAME }}
  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@v9.0
  pytest-extra-args: ${{ matrix.cfg.extra-args }}
  pytest-markers: ${{ matrix.cfg.markers }}
  requires-xvfb: true
```

 ${\it Ref}$ : Optimized testing with different operating systems and Python versions

# / Check pr title

Check pull-request title follows conventional commits

```
- uses: ansys/actions/check-pr-title@v9.0
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@v9.0
with:
    package-name: mypackage
    token: ${{ secrets.GITHUB_TOKEN }}
```

**Ref**: Perform untagged versions cleanup

# / Docker style

Docker style

```
- uses: ansys/actions/docker-style@v9.0
  with:
    directory: docker
    error-level: 1
    recursive: true
```

Ref: Docker style

# / Build library

Build library basic example

```
- name: Build library source and wheel artifacts
  uses: ansys/actions/build-library@v9.0
  with:
    library-name: ansys-cproduct>-<library>
```

**Ref**: Build library basic example

#### / Doc deploy stable

Deploy stable documentation

```
- name: Deploy the stable documentation
  uses: ansys/actions/doc-deploy-stable@v9.0
  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 deploy dev

Deploy developers documentation

```
- name: Deploy the latest documentation
uses: ansys/actions/doc-deploy-dev@v9.0
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

# / Doc deploy changelog

Update changelog for new tag

```
- uses: ansys/actions/doc-deploy-changelog@v9.0
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

# / Hk automerge prs

Automerging dependabot and pre-commit.ci prs

```
- name: Automerging dependabot and pre-commit.ci
    PRs
    uses: ansys/actions/hk-automerge-prs@v9.0
with:
    approver: ${{ secrets.PYANSYS_CI_BOT_USERNAME }}
    approver-token: ${{ secrets.PYANSYS_CI_BOT_TOKEN }}
```

**Ref**: Automerging dependabot and pre-commit.ci PRs

#### / Doc style

Running documentation style checks

```
- name: Running documentation style checks
  uses: ansys/actions/doc-style@v9.0
  with:
    token: ${{ secrets.GITHUB_TOKEN }}
```

**Ref**: Running documentation style checks

#### / Hk package clean except

Perform versions cleanup - except certain tags

```
- name: Perform versions cleanup - except certain
    tags
    uses: ansys/actions/hk-package-clean-except@v9.0
    with:
        package-name: mypackage
        tags-kept: latest, latest-unstable
        token: ${{ secrets.GITHUB_TOKEN }}
```

**Ref**: Perform versions cleanup - except certain tags

# / Code style

Running code style checks

```
name: Run PyAnsys code style checks
uses: ansys/actions/code-style@v9.0
```

Ref: Running code style checks

# / Release pypi test

Release to test pypi

```
- name: Release to the test PyPI repository
  uses: ansys/actions/release-pypi-test@v9.0
  with:
    library-name: ansys-rroduct>-<library>
    twine-token: ${{ secrets.PYANSYS_PYPI_TEST_PAT
     }}
    twine-username: __token__
```

Ref: Release to test PyPI

#### / Check licenses

Check library dependencies ship with valid licenses

```
- name: Validate third party licenses
  uses: ansys/actions/check-licenses@v9.0
  with:
    python-version: ${{ env.MAIN_PYTHON_VERSION }}
```

**Ref**: Check library dependencies ship with valid licenses