Ansys Actions

Version: main



/ Build library

Build library basic example

- name: Build library source and wheel artifacts
 uses: ansys/actions/build-library@v8.2
 with:
 library-name: ansys-product>-<library>

Ref: Build library basic example

/ Doc build

Building library documentation

 name: Run Ansys documentation building action uses: ansys/actions/doc-build@v8.2

Ref: Building library documentation

Installing additional system dependencies for building documentation

- name: Run Ansys documentation building action
uses: ansys/actions/doc-build@v8.2
with:
 dependencies: graphviz mermaid-cli

 $\boldsymbol{Ref}\colon$ Installing additional system dependencies for building documentation

Building library documentation that using xvfb

- name: Run Ansys documentation building action
 uses: ansys/actions/doc-build@v8.2
 with:
 requires-xvfb: true

Ref: Building library documentation that using XVFB

/ Docker style

Docker style

- uses: ansys/actions/docker-style@v8.2
with:
 directory: docker
 error-level: 1
 recursive: true

Ref: Docker style

/ Check pr title

Check pull-request title follows conventional commits

```
- uses: ansys/actions/check-pr-title@v8.2
with:
   token: ${{ secrets.GITHUB_TOKEN }}
```

Ref: Check pull-request title follows conventional commits

```
/ Doc deploy stable
```

Deploy stable documentation

```
- name: Deploy the stable documentation
  uses: ansys/actions/doc-deploy-stable@v8.2
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

/ Release github

Release to github

```
name: Release to GitHub
uses: ansys/actions/release-github@v8.2
with:
   library-name: ansys-product>-<library>
```

Ref: Release to GitHub

/ Check vulnerabilities

Check library vulnerabilities

```
- uses: ansys/actions/check-vulnerabilities@v8.2
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 wheelhouse

Build wheelhouse for latest python versions

```
- name: Build a wheelhouse of the Python library
uses: ansys/actions/build-wheelhouse@v8.2
with:
    library-name: <ansys-product-library>
    operating-system: ${{ matrix.os }}
    python-version: ${{ matrix.python-version }}
```

Ref: Build wheelhouse for latest Python versions

/ Doc deploy dev

Deploy developers documentation

```
- name: Deploy the latest documentation
  uses: ansys/actions/doc-deploy-dev@v8.2
  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

/ Hk package clean except

Perform versions cleanup - except certain tags

```
- name: Perform versions cleanup - except certain
    tags
uses: ansys/actions/hk-package-clean-except@v8.2
with:
    package-name: mypackage
    tags-kept: latest, latest-unstable
    token: ${{ secrets.GITHUB_TOKEN }}
```

Ref: Perform versions cleanup - except certain tags

/ Release pypi private

Release to private pypi

```
- name: Release to the private PyPI repository
uses: ansys/actions/release-pypi-private@v8.2
with:
   library-name: ansys-<product>-<library>
   twine-token: ${
      secrets.PYANSYS_PYPI_PRIVATE_PAT }}
twine-username: __token__
```

Ref: Release to private PyPI

/ Release pypi public

Release to public pypi

```
- name: Release to the public PyPI repository
uses: ansys/actions/release-pypi-public@v8.2
with:
   library-name: ansys-cyroduct>-<library>
   twine-token: ${{ secrets.PYPI_TOKEN }}
twine-username: __token__
```

Ref: Release to public PyPI

/ Hk automerge prs

Automerging dependabot and pre-commit.ci prs

```
- name: Automerging dependabot and pre-commit.ci
    PRs
uses: ansys/actions/hk-automerge-prs@v8.2
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@v8.2
  with:
    token: ${{ secrets.GITHUB_TOKEN }}
```

Ref: Running documentation style checks

/ Tests pytest

Optimized testing with different operating systems and python versions

```
name: Login into the GitHub container registry
uses: docker/login-action@v2.1.0
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@v8.2
  pytest-extra-args: ${{ matrix.cfg.extra-args }}
  pytest-markers: ${{ matrix.cfg.markers }}
  requires-xvfb: true
```

 $\boldsymbol{Ref} \colon \textsc{Optimized}$ testing with different operating systems and Python versions

Testing library with different operating systems and python versions

```
- name: Run pytest
  uses: ansys/actions/tests-pytest@v8.2
  with:
```

Ref: Testing library with different operating systems and Python versions

/ Code style

Running code style checks

```
    name: Run PyAnsys code style checks
uses: ansys/actions/code-style@v8.2
```

Ref: Running code style checks

/ Doc deploy changelog

Update changelog for new tag

```
- uses: ansys/actions/doc-deploy-changelog@v8.2
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

/ Hk package clean untagged

Perform untagged versions cleanup

```
- name: Perform untagged versions cleanup
uses:
    ansys/actions/hk-package-clean-untagged@v8.2
with:
    package-name: mypackage
    token: ${{ secrets.GITHUB_TOKEN }}
```

Ref: Perform untagged versions cleanup

/ Check licenses

Check library dependencies ship with valid licenses

```
- name: Validate third party licenses
uses: ansys/actions/check-licenses@v8.2
with:
   python-version: ${{ env.MAIN_PYTHON_VERSION }}
```

Ref: Check library dependencies ship with valid licenses

/ Build ci wheels

Build a c-extension library

```
- name: Build a C-extension library wheel artifacts
  uses: ansys/actions/build-ci-library@v8.2
```

Ref: Build a C-extension library

/ Release pypi test

Release to test pypi

```
name: Release to the test PyPI repository
uses: ansys/actions/release-pypi-test@v8.2
with:
   library-name: ansys-<product>-<library>
   twine-token: ${{ secrets.PYANSYS_PYPI_TEST_PAT
     }}
   twine-username: __token__
```

Ref: Release to test PyPI

/ Doc changelog

Create changelog fragment

```
- uses: ansys/actions/doc-changelog@v8.2
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