Ansys Actions

Version: main



/ Build library

Build library basic example

```
- name: Build library source and wheel artifacts
  uses: ansys/actions/build-library@v10.0
  with:
    library-name: ansys-roduct>-<library>
```

Ref: Build library basic example

/ Build wheelhouse

Build wheelhouse for latest python versions

```
- name: Build a wheelhouse of the Python library
uses: ansys/actions/build-wheelhouse@v10.0
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@v10.0
with:
   library-name: ansys-roduct>-<library>
   twine-token: ${{ secrets.PYPI_TOKEN }}
twine-username: __token__
```

Ref: Release to public PyPI

/ Release github

Release to github

Ref: Release to GitHub

/ Check pr title

Check pull-request title follows conventional commits

```
- uses: ansys/actions/check-pr-title@v10.0
with:
   token: ${{ secrets.GITHUB_TOKEN }}
```

Ref: Check pull-request title follows conventional commits

/ Build ci wheels

Build a c-extension library

```
    name: Build a C-extension library wheel artifacts
uses: ansys/actions/build-ci-library@v10.0
```

Ref: Build a C-extension library

/ Doc deploy pr

Deploy pr documentation

```
- uses: ansys/actions/doc-deploy-pr@v10.0
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

/ Doc changelog

Create changelog fragment

```
- uses: ansys/actions/doc-changelog@v10.0
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

/ Check vulnerabilities

Check library vulnerabilities

```
- uses: ansys/actions/check-vulnerabilities@v10.0
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

/ Doc build

Installing additional system dependencies for building documentation

```
- name: Run Ansys documentation building action
uses: ansys/actions/doc-build@v10.0
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@v10.0
```

Ref: Building library documentation

Building library documentation that using xvfb

```
- name: Run Ansys documentation building action
  uses: ansys/actions/doc-build@v10.0
  with:
    requires-xvfb: true
```

Ref: Building library documentation that using XVFB

/ Release pypi private

Release to private pypi

```
- name: Release to the private PyPI repository
uses: ansys/actions/release-pypi-private@v10.0
with:
   library-name: ansys-<product>-<library>
   twine-token: ${
      secrets.PYANSYS_PYPI_PRIVATE_PAT }}
twine-username: __token__
```

Ref: Release to private PyPI

/ Doc deploy dev

Deploy developers documentation

```
- name: Deploy the latest documentation
  uses: ansys/actions/doc-deploy-dev@v10.0
  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

/ Check actions security

Check actions security

```
uses: ansys/actions/check-actions-security@v10.0
with:
   auditing-level: high
   generate-summary: true
   token: ${{ secrets.GITHUB_TOKEN }}
   trust-ansys-actions: true
```

Ref: Check actions security

/ Docker style

Docker style

```
uses: ansvs/actions/docker-style@v10.0
with:
  directory: docker
  error-level: 1
  recursive: true
```

Ref: Docker style

/ Code style

Running code style checks

```
- name: Run PyAnsys code style checks
 uses: ansys/actions/code-style@v10.0
```

Ref: Running code style checks

/ Doc deploy changelog

Update changelog for new tag

```
- uses: ansys/actions/doc-deploy-changelog@v10.0
   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@v10.0
  approver: ${{ secrets.PYANSYS_CI_BOT_USERNAME
      }}
  approver-token: ${{
      secrets.PYANSYS_CI_BOT_TOKEN }}
```

Ref: Automerging dependabot and pre-commit.ci PRs

/ Tests pytest

Testing library with different operating systems and python versions

```
name: Run pytest
uses: ansys/actions/tests-pytest@v10.0
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

Optimized testing with different operating systems and python versions

- name: Login into the GitHub container registry

```
docker/login-action@f4ef78c080cd8ba55a85445d5b3Red@4308toft@st pypi
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@v10.0
  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@v10.0
  token: ${{ secrets.GITHUB_TOKEN }}
```

Ref: Running documentation style checks

/ Hk package clean untagged

Perform untagged versions cleanup

```
name: Perform untagged versions cleanup
    ansys/actions/hk-package-clean-untagged@v10.0
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@v10.0
```

```
python-version: ${{ env.MAIN_PYTHON_VERSION }}
```

Ref: Check library dependencies ship with valid licenses

/ Release pypi test

```
name: Release to the test PyPI repository
uses: ansys/actions/release-pypi-test@v10.0
with:
  library-name: ansys-product>-<library>
  twine-token: ${{ secrets.PYANSYS_PYPI_TEST_PAT
  twine-username: __token__
```

Ref: Release to test PyPI

/ Doc deploy stable

Deploy stable documentation

```
name: Deploy the stable documentation
uses: ansys/actions/doc-deploy-stable@v10.0
  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

/ Check environment approval

Check environment approval

```
id: block
name: Decide which environment should be used
uses:
    ansys/actions/check-environment-approval@v10.0
```

Ref: Check environment approval

/ Hk package clean except

Perform versions cleanup - except certain tags

```
name: Perform versions cleanup - except certain
uses: ansys/actions/hk-package-clean-except@v10.0
  package-name: mypackage
  tags-kept: latest, latest-unstable
  token: ${{ secrets.GITHUB_TOKEN }}
```

Ref: Perform versions cleanup - except certain tags