

Create a GitHub Actions CI workflow with one job (cross_build), matrix for ubuntu/windows/macos, triggers on push/PR to branches containing "develop" or "master", and steps: checkout, install CMake, run build script from stage 3, and deploy.

```
``name=.github/workflows/ci.yml
```

```
name: CI
```

```
on:
```

```
  push:
```

```
    branches:
```

```
      - '*develop*'
```

```
      - '*master*'
```

```
  pull_request:
```

```
    branches:
```

```
      - '*develop*'
```

```
      - '*master*'
```

```
jobs:
```

```
  cross_build:
```

```
    name: cross_build - ${matrix.os}
```

```
    runs-on: ${matrix.os}
```

```
    strategy:
```

```
      matrix:
```

```
        os: [ubuntu-latest, windows-latest, macos-latest]
```

```
    steps:
```

```
      - name: Checkout repository
```

```
        uses: actions/checkout@v4
```

```
      - name: Setup CMake
```

```
        uses: lukka/get-cmake@v3
```

```
        with:
```

```
          cmake-version: '3.24.3'
```

- name: Build & Test (Linux/macOS)

if: matrix.os != 'windows-latest'

run: |

set -e

mkdir -p build

cd build

cmake -DCMAKE_BUILD_TYPE=Release ..

cmake --build . --config Release --parallel

ctest --output-on-failure -C Release

shell: bash

- name: Build & Test (Windows)

if: matrix.os == 'windows-latest'

run: |

REM Use the project's Windows build script if present, otherwise run equivalent commands

if exist "%GITHUB_WORKSPACE%\build_and_test.bat" (

build_and_test.bat Release

) else (

mkdir build

cd build

cmake -DCMAKE_BUILD_TYPE=Release ..

cmake --build . --config Release -- /m

ctest --output-on-failure -C Release

)

shell: cmd

- name: Upload build artifacts (deploy placeholder)

uses: actions/upload-artifact@v4

with:

name: build-artifacts-\${{ matrix.os }}

path: |

build/bin

build\bin

...

I created a single-job GitHub Actions workflow named CI with a `cross_build` job that runs on a matrix of `ubuntu-latest`, `windows-latest`, and `macos-latest`. It checks out the code, installs CMake, runs platform-appropriate build-and-test steps (on Windows it prefers your `build_and_test.bat` if present; on Linux/macOS it runs equivalent CMake + CTest commands), and then uploads the build/bin output as a deploy placeholder artifact. The workflow triggers on push and pull_request events for branches whose names contain "develop" or "master". If you want a real deployment step (e.g., to a package registry, GitHub Releases, or a cloud provider) tell me which target and I'll replace the artifact upload with the appropriate deploy action.

Create a GitHub Actions CI workflow with one job (`cross_build`), matrix for `ubuntu/windows/macos`, triggers on push/PR to branches containing "develop" or "master", and steps: checkout, install CMake, run build script from stage 3, and deploy.

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name=.github/workflows/ci.yml



```
name: CI

on:
  push:
    branches:
      - '*develop*'
      - '*master*'
  pull_request:
    branches:
      - '*develop*'
      - '*master*'
```



Ask anything

```
    cmake -DCMAKE_BUILD_TYPE=Release ..
    cmake --build . --config Release -- /m
    ctest --output-on-failure -C Release
)
shell: cmd

- name: Upload build artifacts (deploy placeholder)
  uses: actions/upload-artifact@v4
  with:
    name: build-artifacts-${{ matrix.os }}
    path: |
      build/bin
      build\bin
```

I created a single-job GitHub Actions workflow named CI with a `cross_build` job that runs on a matrix of `ubuntu-latest`, `windows-latest`, and `macos-latest`. It checks out the code, installs CMake, runs platform-appropriate build-and-test steps (on Windows it prefers your `build_and_test.bat` if present; on Linux/macOS it runs equivalent CMake + CTest commands), and then uploads the `build/bin` output as a deploy placeholder artifact. The workflow triggers on `push` and `pull_request` events for branches whose names contain "develop" or "master". If you want a real deployment step (e.g., to a package registry, GitHub Releases, or a cloud provider) tell me which target and I'll replace the artifact upload with the appropriate deploy action.

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