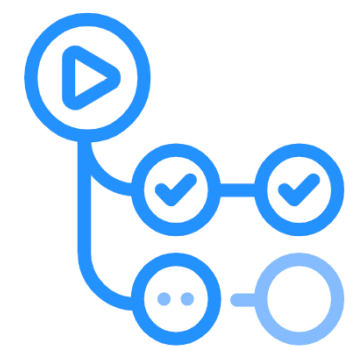


WORKFLOWS

THE WORKFLOW IS AN AUTOMATED PROCEDURE THAT YOU ADD TO YOUR REPOSITORY.

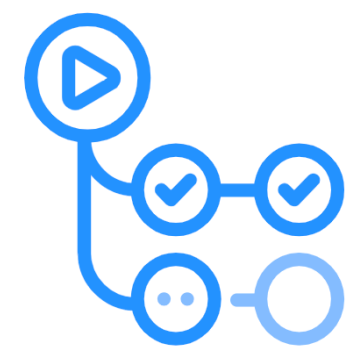
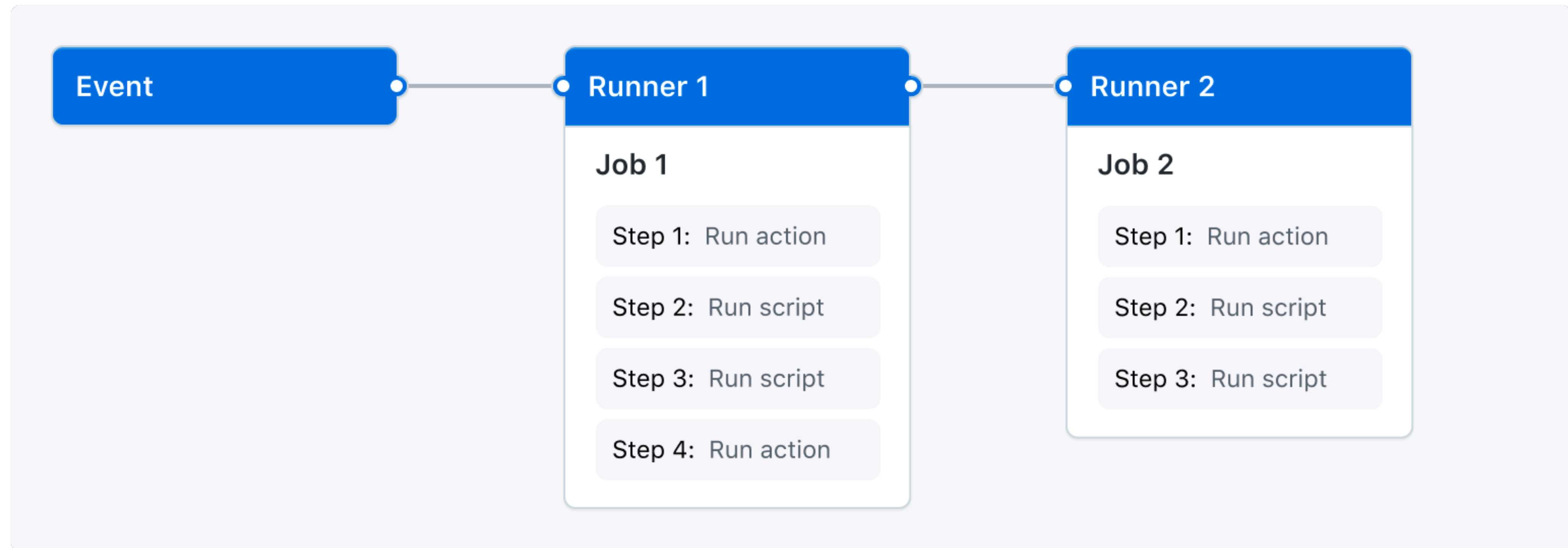
WORKFLOWS ARE MADE UP OF ONE OR MORE **JOBS** AND CAN BE SCHEDULED OR TRIGGERED BY AN **EVENT**.

THE WORKFLOW CAN BE USED TO **BUILD, TEST, PACKAGE, RELEASE,** OR **DEPLOY** A PROJECT ON GITHUB.



GitHub Actions

WORKFLOWS



GitHub Actions

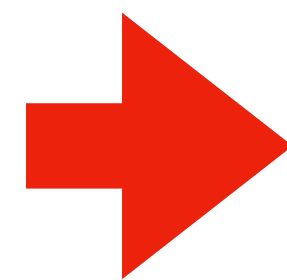
WORKFLOWS

All workflows

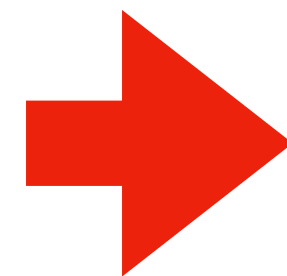
 Runner Basics Test Case

 Runner E2E Test

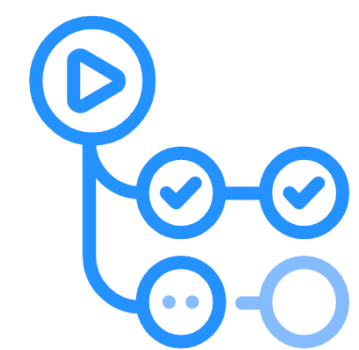
 Code Scanning - Action



 Runner CI



 Runner CD



GitHub Actions

EVENTS

- REPO EVENTS

- PUSH
- PULL REQUEST
- RELEASE

- WEBHOOKS

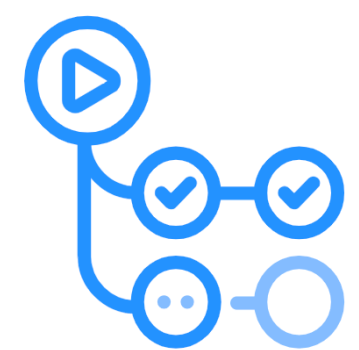
- MANUAL EVENTS

- SCHEDULED EVENTS



JOBS - STEPS - ACTIONS

- **JOB**
 - SET A OF **STEPS** WHICH RUN IN PARALLEL BY DEFAULT
- **STEPS**
 - INDIVIDUAL TASK THAT CAN RUN COMMANDS IN A JOB. **ACTION** OR **SHELL COMMAND**
- **ACTION**
 - STANDALONE COMMANDS THAT ARE COMBINED INTO TO STEPS TO CREATE JOB



EXAMPLE

JOB NAME

✓ build ▾



succeeded 2 days ago in 14s

STEP



Run actions/checkout@v2

ACTION

1s

STEP



Setup Go environment

ACTION

2s

STEP



golangci-lint

ACTION

6s

STEP



Test

SHELL COMMAND

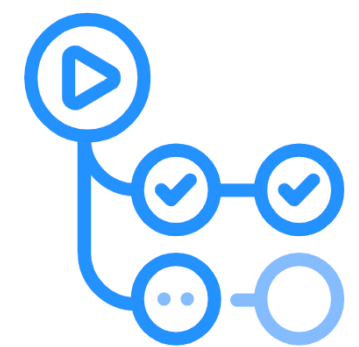
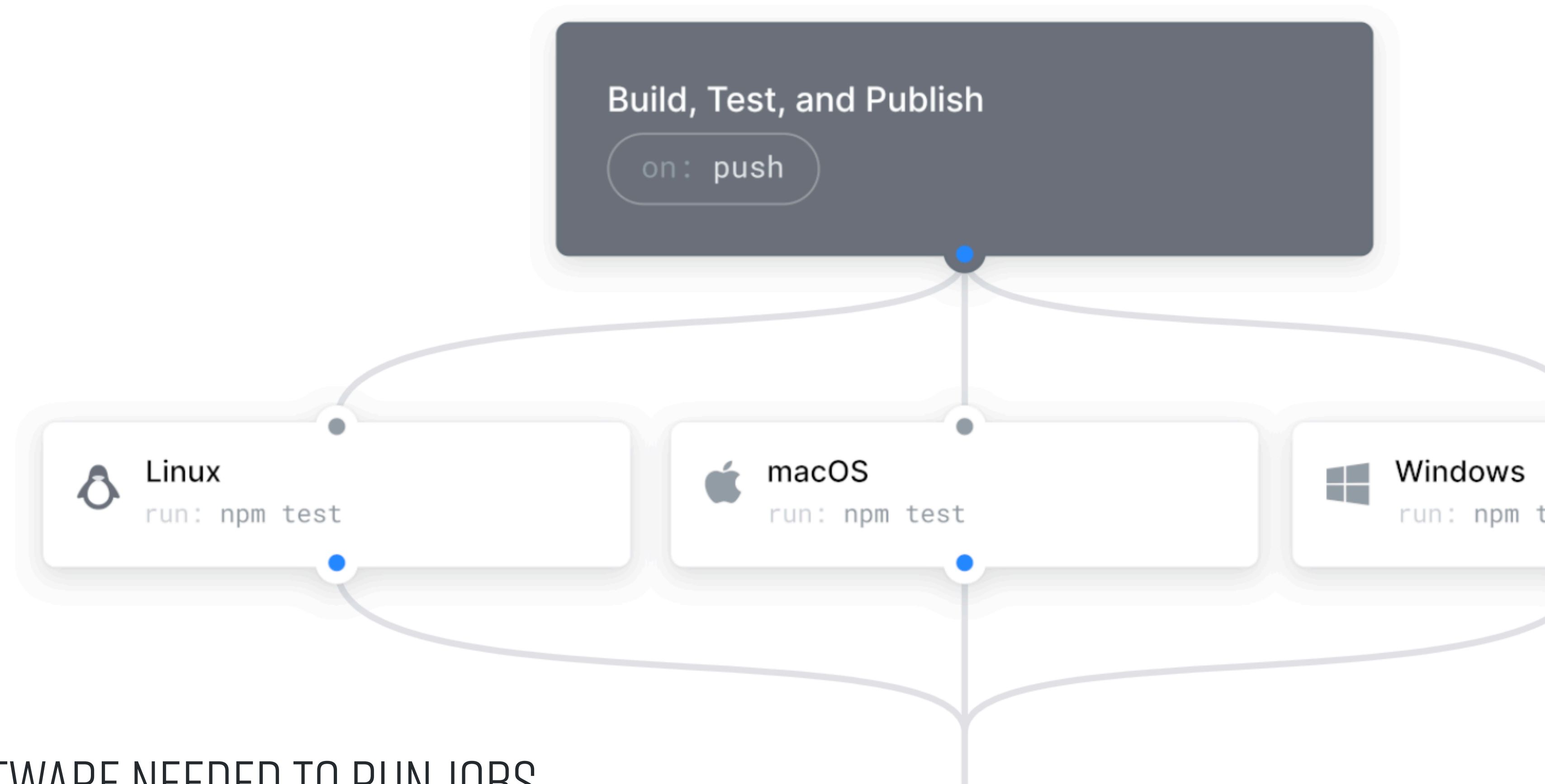
2s

1 ▶ Run go test ./...

6 ? _/home/runner/work/testing/testing [no test files]

RUNNER

- **SERVER**
 - 2-CORE CPU
 - 7**GB** RAM
 - 14 **GB** SSD
- CONTAINS ALL THE SOFTWARE NEEDED TO RUN JOBS
- YOU CAN HOST YOUR OWN RUNNER



GitHub Actions

RUNNER AVAILABLE OS



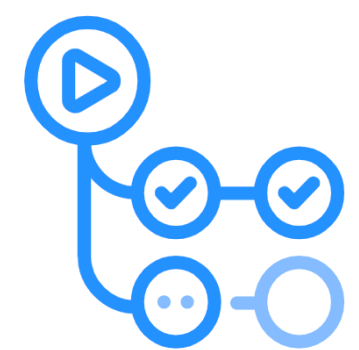
MacTMOS

CATALINA

`macos-latest` or `macos-10.15`

BIG SUR

`macos-11.0`



GitHub Actions

RUNNER AVAILABLE OS

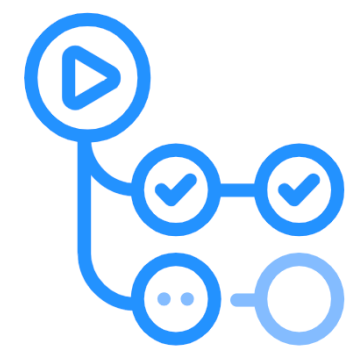


ubuntu

ubuntu-20.04

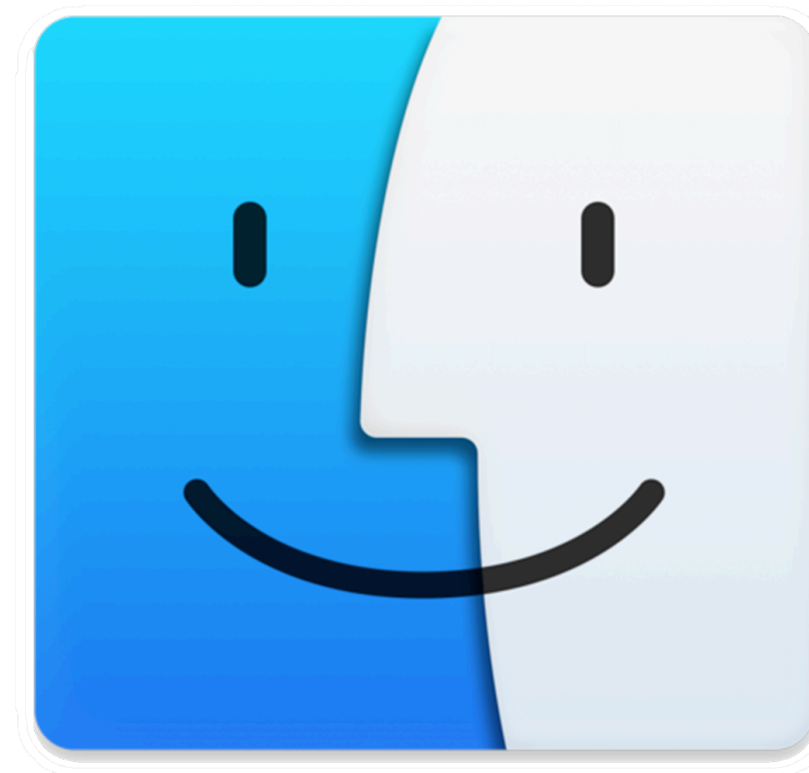
ubuntu-latest or ubuntu-18.04

ubuntu-16.04

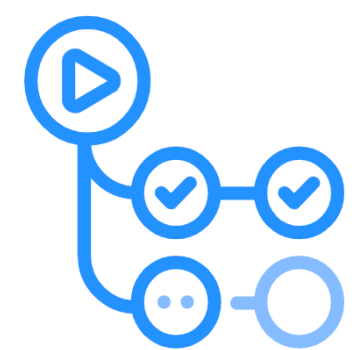
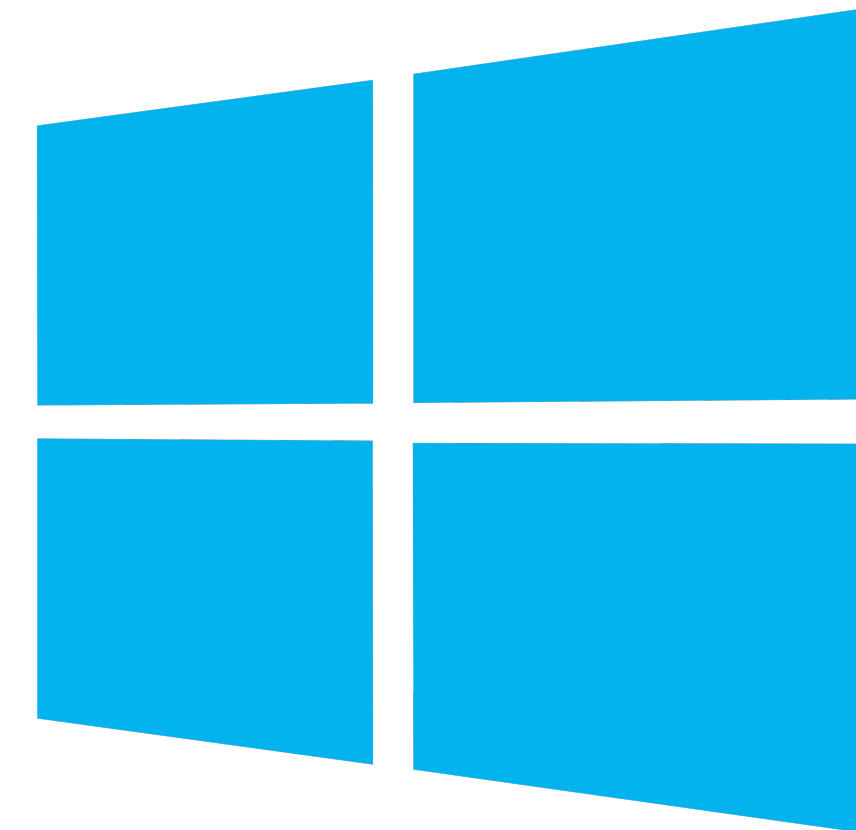


GitHub Actions

RUNNER AVAILABLE OS



MacTMOS



GitHub Actions