

Customizing GitHub-hosted runners

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You can install additional software on GitHub-hosted runners as a part of your workflow.

If you require additional software packages on GitHub-hosted runners, you can create a job that installs the packages as part of your workflow.

To see which packages are already installed by default, see "[Using GitHub-hosted runners](#)."

This guide demonstrates how to create a job that installs additional software on a GitHub-hosted runner.

Installing software on Ubuntu runners [↗](#)

The following example demonstrates how to install an `apt` package as part of a job.

```
name: Build on Ubuntu
on: push

jobs:
  build:
    runs-on: ubuntu-latest
    steps:
      - name: Check out repository code
        uses: actions/checkout@v4
      - name: Install jq tool
        run: |
          sudo apt-get update
          sudo apt-get install jq
```

Note: Always run `sudo apt-get update` before installing a package. In case the `apt` index is stale, this command fetches and re-indexes any available packages, which helps prevent package installation failures.

Installing software on macOS runners [↗](#)

The following example demonstrates how to install Brew packages and casks as part of a job.

```
name: Build on macOS
on: push

jobs:
```

```
build:
  runs-on: macos-latest
  steps:
    - name: Check out repository code
      uses: actions/checkout@v4
    - name: Install GitHub CLI
      run: |
        brew update
        brew install gh
    - name: Install Microsoft Edge
      run: |
        brew update
        brew install --cask microsoft-edge
```

Installing software on Windows runners [↗](#)

The following example demonstrates how to use [Chocolatey](#) to install the GitHub CLI as part of a job.

```
name: Build on Windows
on: push
jobs:
  build:
    runs-on: windows-latest
    steps:
      - run: choco install gh
      - run: gh version
```

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