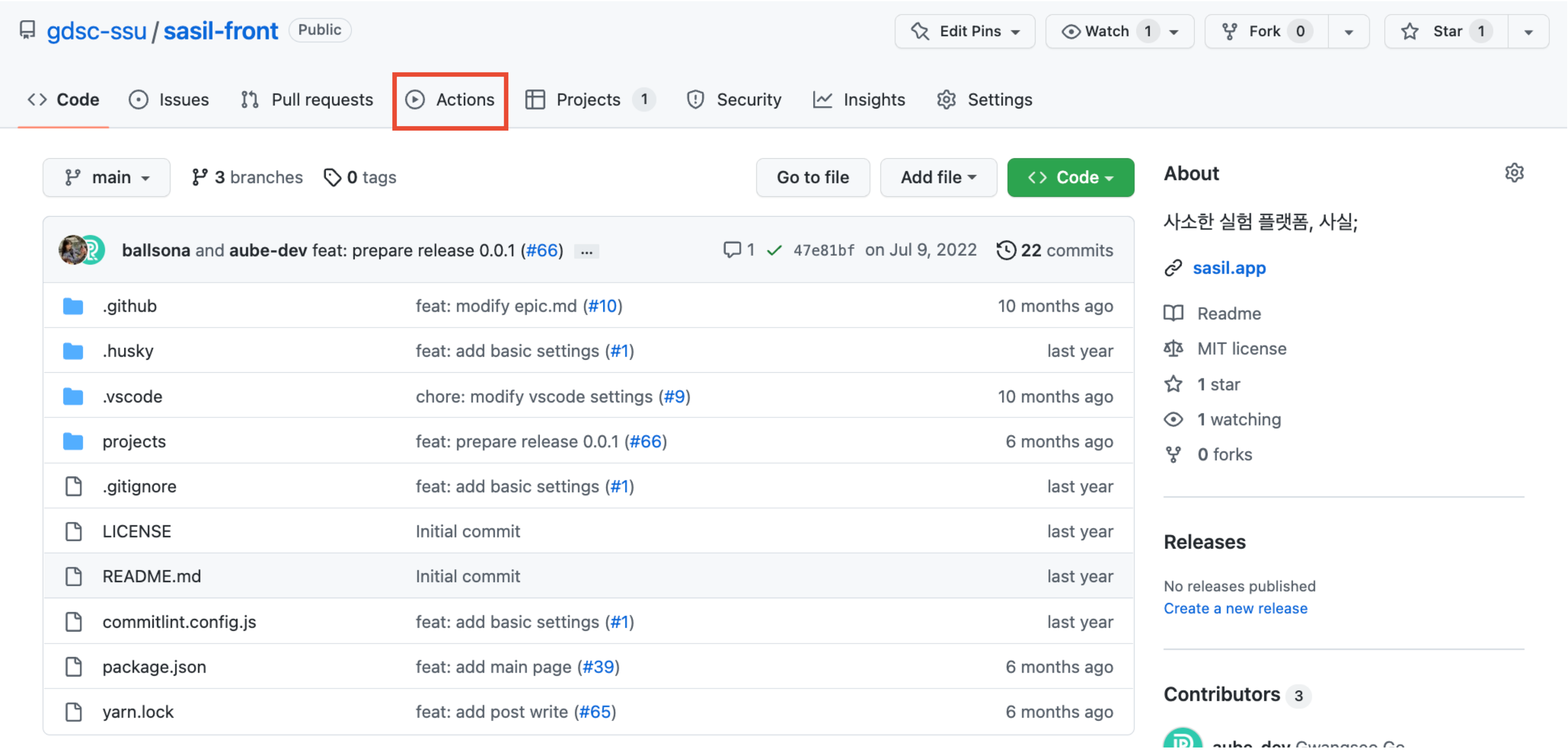
Google Developer Student Clubs
Soongsil University

Github Action 찍먹하기

web/mobile 공소나
gongsona@gmail.com



gdsc-ssu / sasil-front Public

Edit Pins
Watch 1
Fork 0
Star 1
Code
Issues
Pull requests
Actions
Projects 1
Security
Insights
Settings
main
3 branches
0 tags
Go to file
Add file
Code

ballsona and aube-dev feat: prepare release 0.0.1 (#66) … 1 ✓ 47e81bf on Jul 9, 2022 22 commits

.github	feat: modify epic.md (#10)	10 months ago
.husky	feat: add basic settings (#1)	last year
.vscode	chore: modify vscode settings (#9)	10 months ago
projects	feat: prepare release 0.0.1 (#66)	6 months ago
.gitignore	feat: add basic settings (#1)	last year
LICENSE	Initial commit	last year
README.md	Initial commit	last year
commitlint.config.js	feat: add basic settings (#1)	last year
package.json	feat: add main page (#39)	6 months ago
yarn.lock	feat: add post write (#65)	6 months ago

About

사소한 실험 플랫폼, 사실;

sasil.app

Readme

MIT license

1 star

1 watching

0 forks

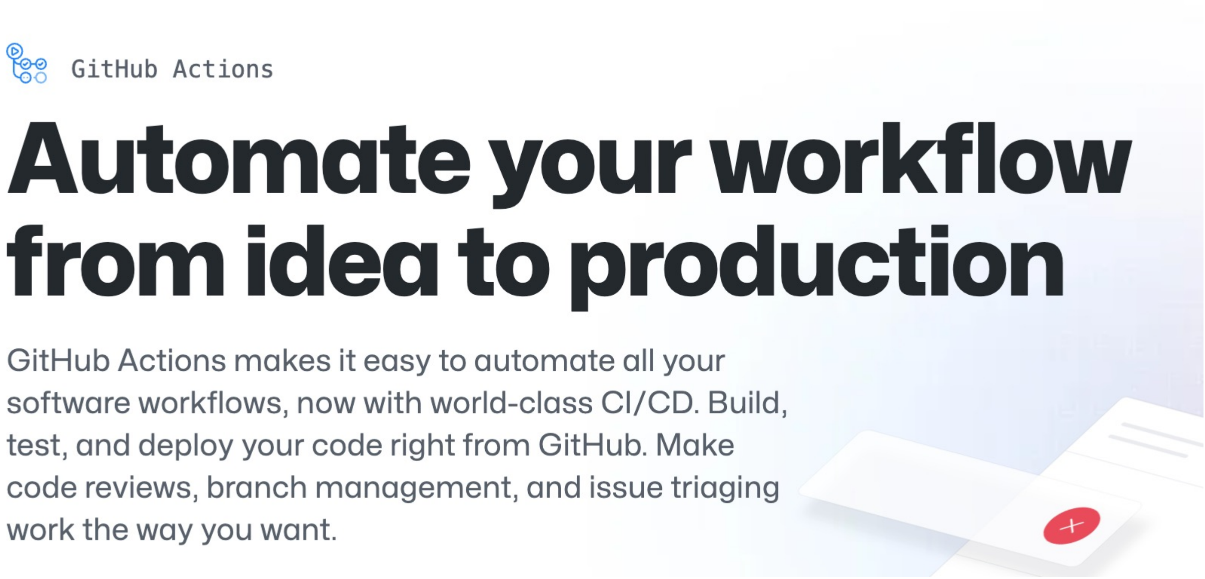
Releases

No releases published

Create a new release

Contributors 3

Github Action 이란?



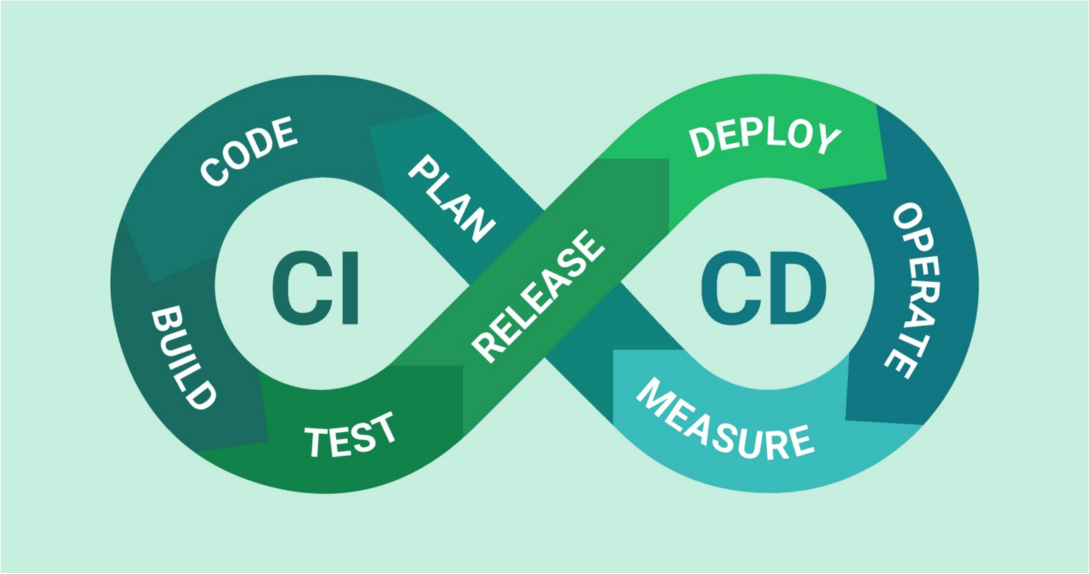
GitHub Actions

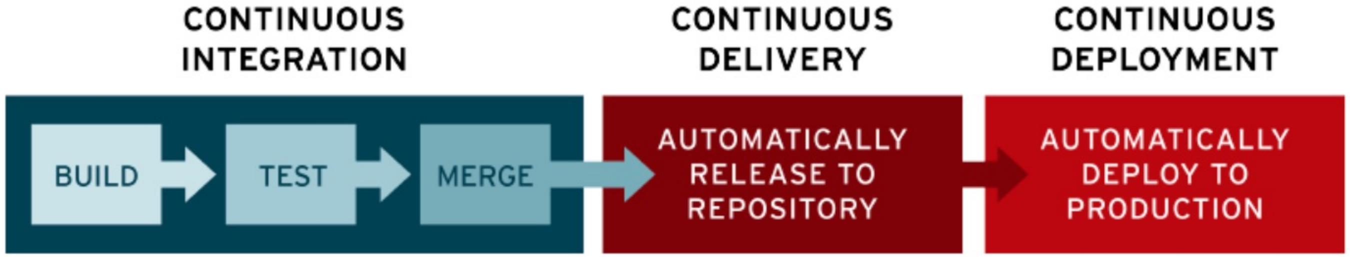
Automate your workflow from idea to production

GitHub Actions makes it easy to automate all your software workflows, now with world-class CI/CD. Build, test, and deploy your code right from GitHub. Make code reviews, branch management, and issue triaging work the way you want.

- 소프트웨어 Workflow를 자동화할 수 있도록 도와주는 도구
- Github 에서 공식적으로 제공하는 CI/CD 툴

CI/CD


CODE
PLAN
BUILD
TEST
CI
RELEASE
DEPLOY
OPERATE
MEASURE
CD


CONTINUOUS INTEGRATION
BUILD
TEST
MERGE
CONTINUOUS DELIVERY
AUTOMATICALLY RELEASE TO REPOSITORY
CONTINUOUS DEPLOYMENT
AUTOMATICALLY DEPLOY TO PRODUCTION

- 코드의 신뢰성 및 협업 효율성 향상
- 개발 단계부터 유저에게 최신 상태의 애플리케이션을 보여주기까지의 주기를 단축시킬 수 있다.

Runner

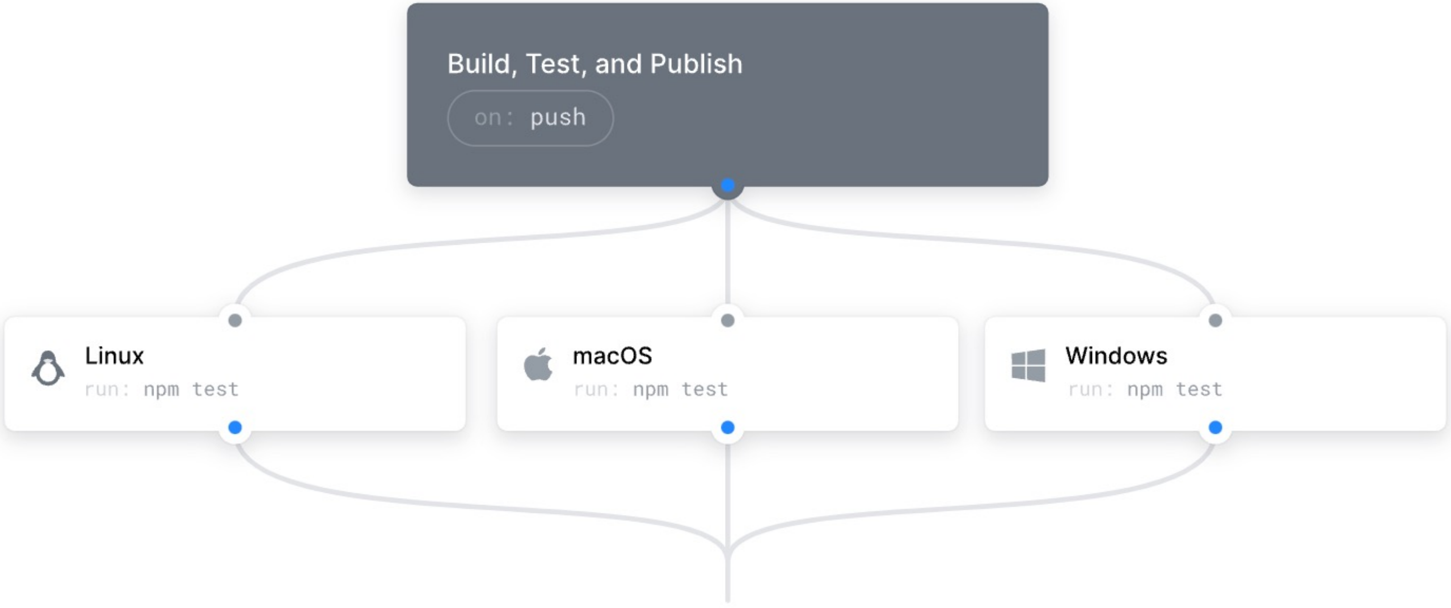
Workflow

Event

Job

Step

Action


Build, Test, and Publish
on: push
Linux
run: npm test
macOS
run: npm test
Windows
run: npm test

- Workflow가 실행될 인스턴스
- Github-hosted Runner or Self-hosted Runner

Runner

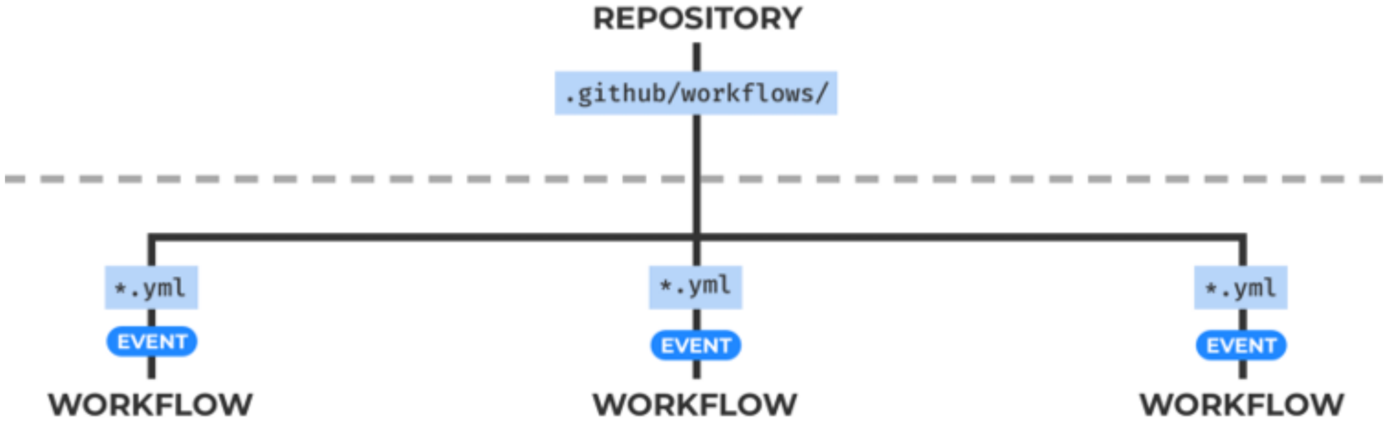
Workflow

Event

Job

Step

Action


REPOSITORY
.github/workflows/
*.yml
EVENT
WORKFLOW
*.yml
EVENT
WORKFLOW
*.yml
EVENT
WORKFLOW

- 자동화된 프로세스가 정의되어 있는 하나의 파일
  - Github Action 에서 최상위 개념

Runner

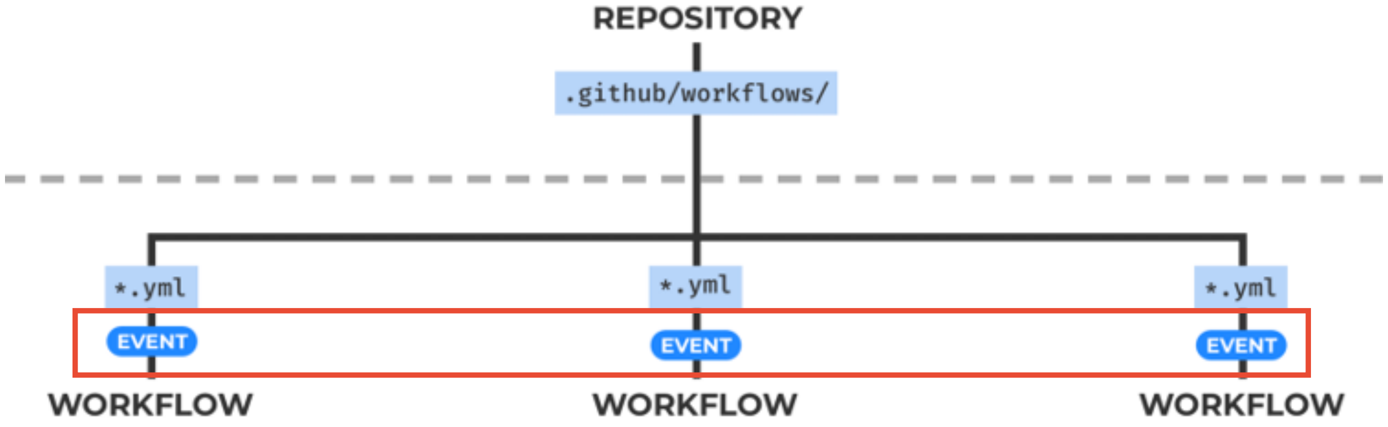
Workflow

Event

Job

Step

Action


REPOSITORY
.github/workflows/
*.yml
EVENT
WORKFLOW
*.yml
EVENT
WORKFLOW
*.yml
EVENT
WORKFLOW

- Workflow를 트리거하는 특정 이벤트나 규칙
  - (ex) main 브랜치에 push할 때

Github Action 핵심 개념

Runner

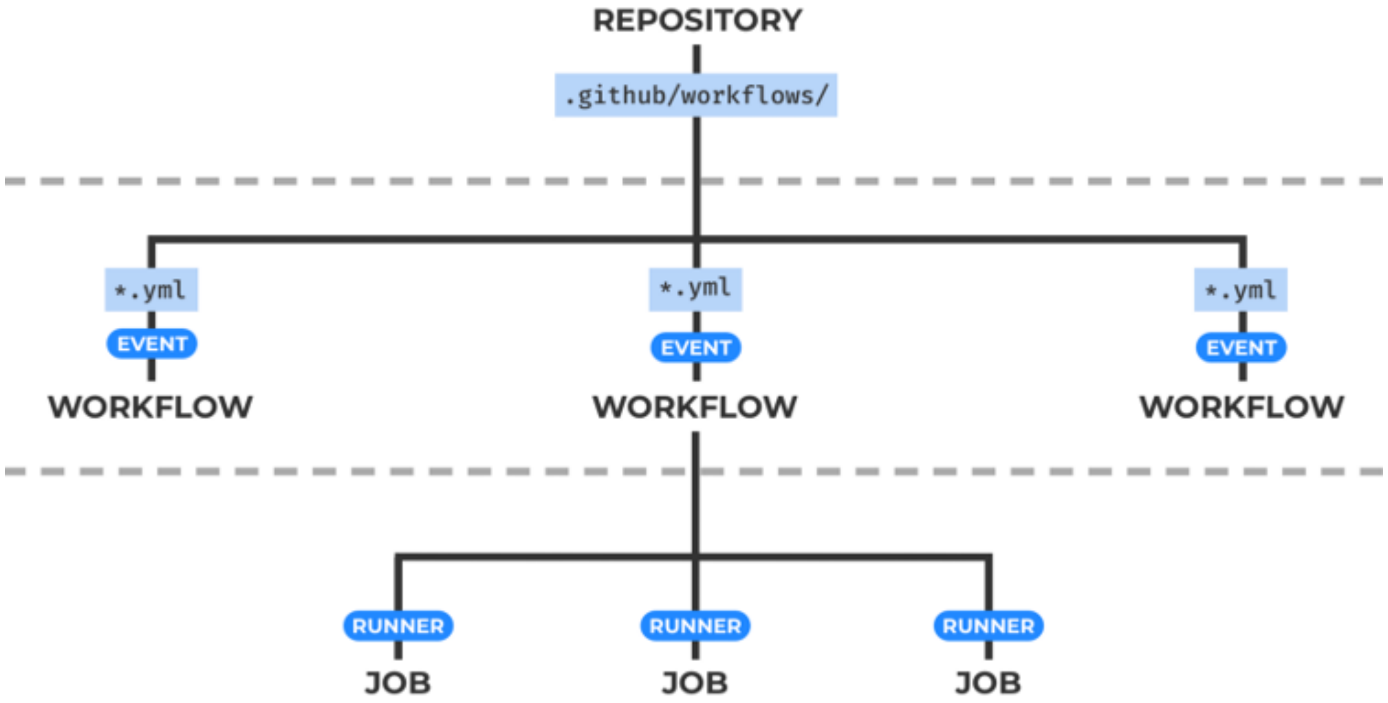
Workflow

Event

Job

Step

Action


REPOSITORY
.github/workflows/
*.yml
EVENT
WORKFLOW
*.yml
EVENT
WORKFLOW
*.yml
EVENT
WORKFLOW
RUNNER
JOB
RUNNER
JOB
RUNNER
JOB

- Workflow 내에서 하나의 처리 단위
- 각각 Runner 에서 기본적으로 병렬로 실행된다

Github Action 핵심 개념

Runner

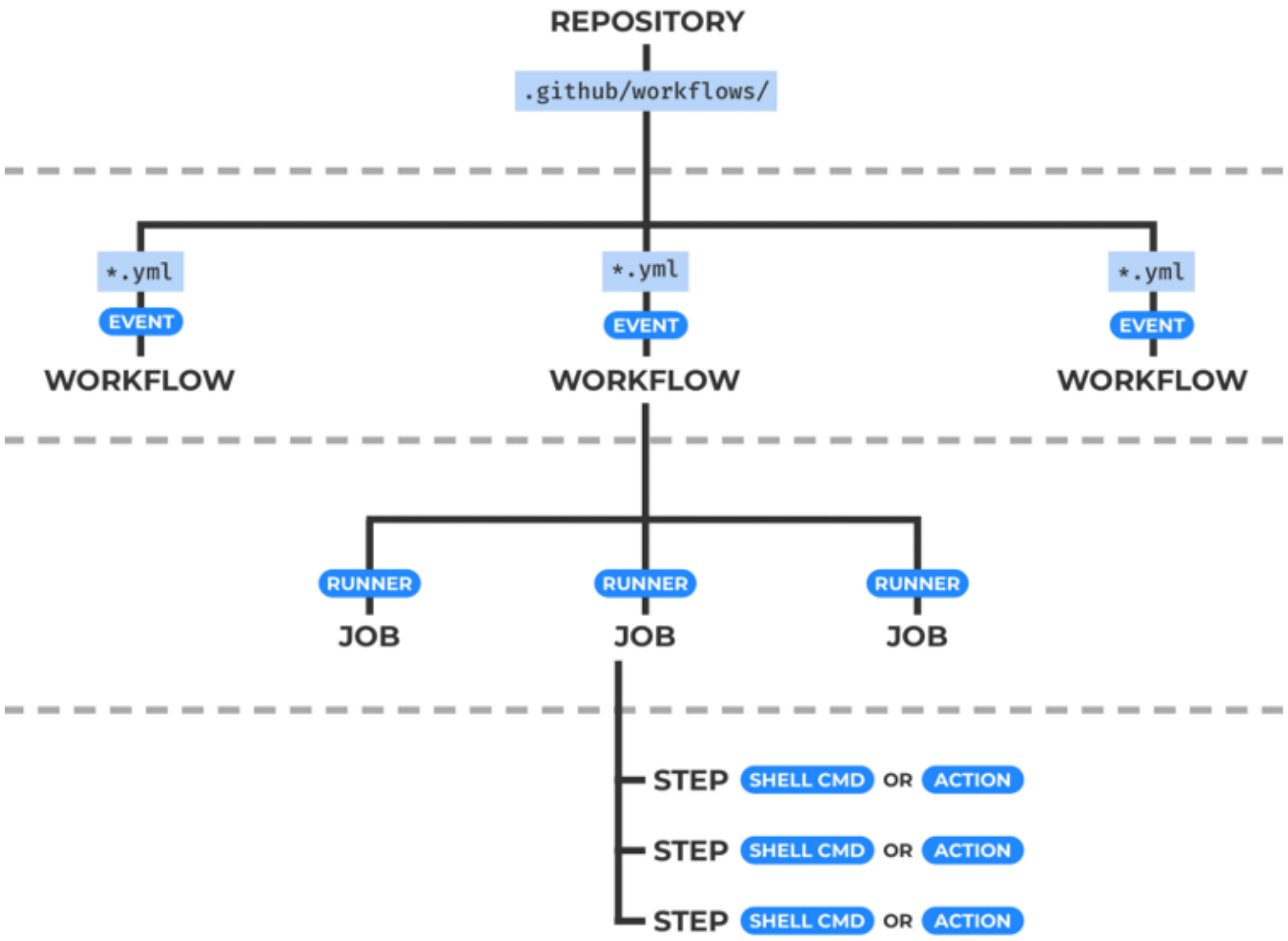
Workflow

Event

Job

Step

Action


REPOSITORY
.github/workflows/
*.yml
EVENT
WORKFLOW
*.yml
EVENT
WORKFLOW
*.yml
EVENT
WORKFLOW
RUNNER
JOB
RUNNER
JOB
RUNNER
JOB
STEP SHELL CMD OR ACTION
STEP SHELL CMD OR ACTION
STEP SHELL CMD OR ACTION

Github Action 핵심 개념

Runner

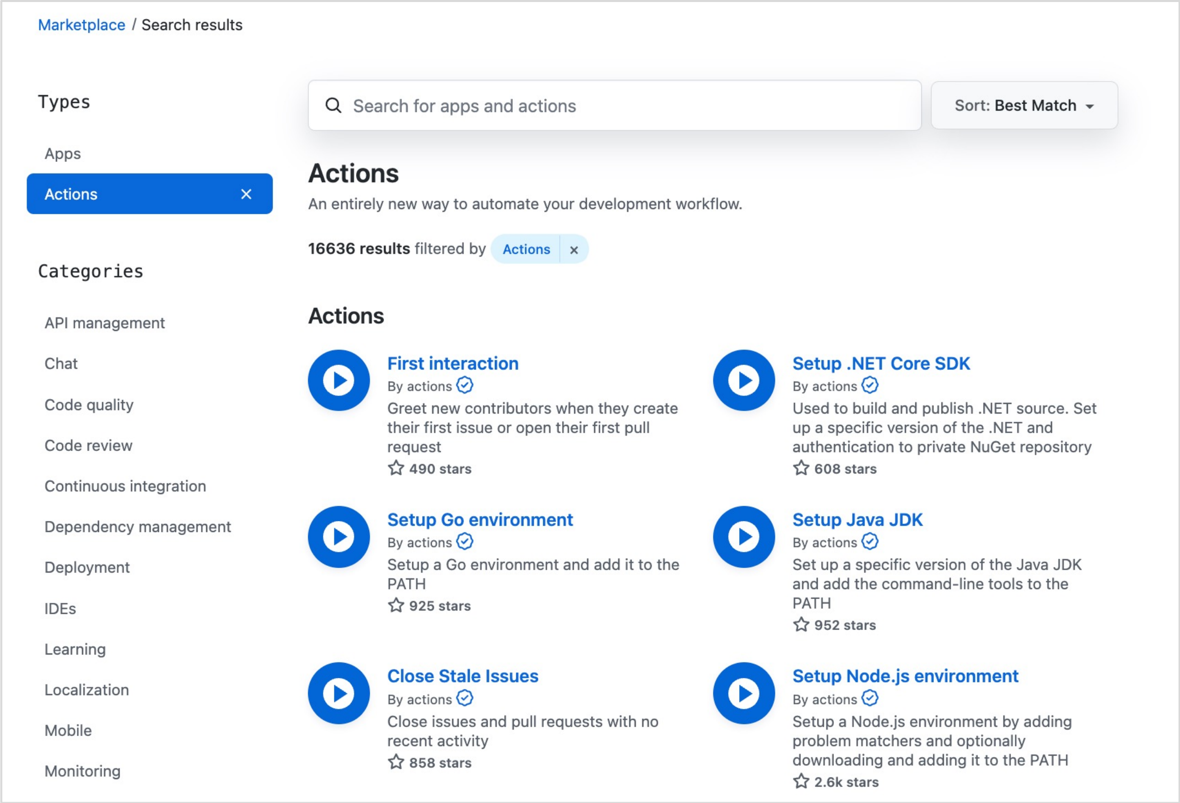
Workflow

Event

Job

Step

Action



Marketplace / Search results

Types

Apps

Actions ×

Categories

API management

Chat

Code quality

Code review

Continuous integration

Dependency management

Deployment

IDEs

Learning

Localization

Mobile

Monitoring

Search for apps and actions

Sort: Best Match

Actions

An entirely new way to automate your development workflow.

16636 results filtered by Actions ×

Actions

First interaction
By actions
Greet new contributors when they create their first issue or open their first pull request
☆ 490 stars

Setup .NET Core SDK
By actions
Used to build and publish .NET source. Set up a specific version of the .NET and authentication to private NuGet repository
☆ 608 stars

Setup Go environment
By actions
Setup a Go environment and add it to the PATH
☆ 925 stars

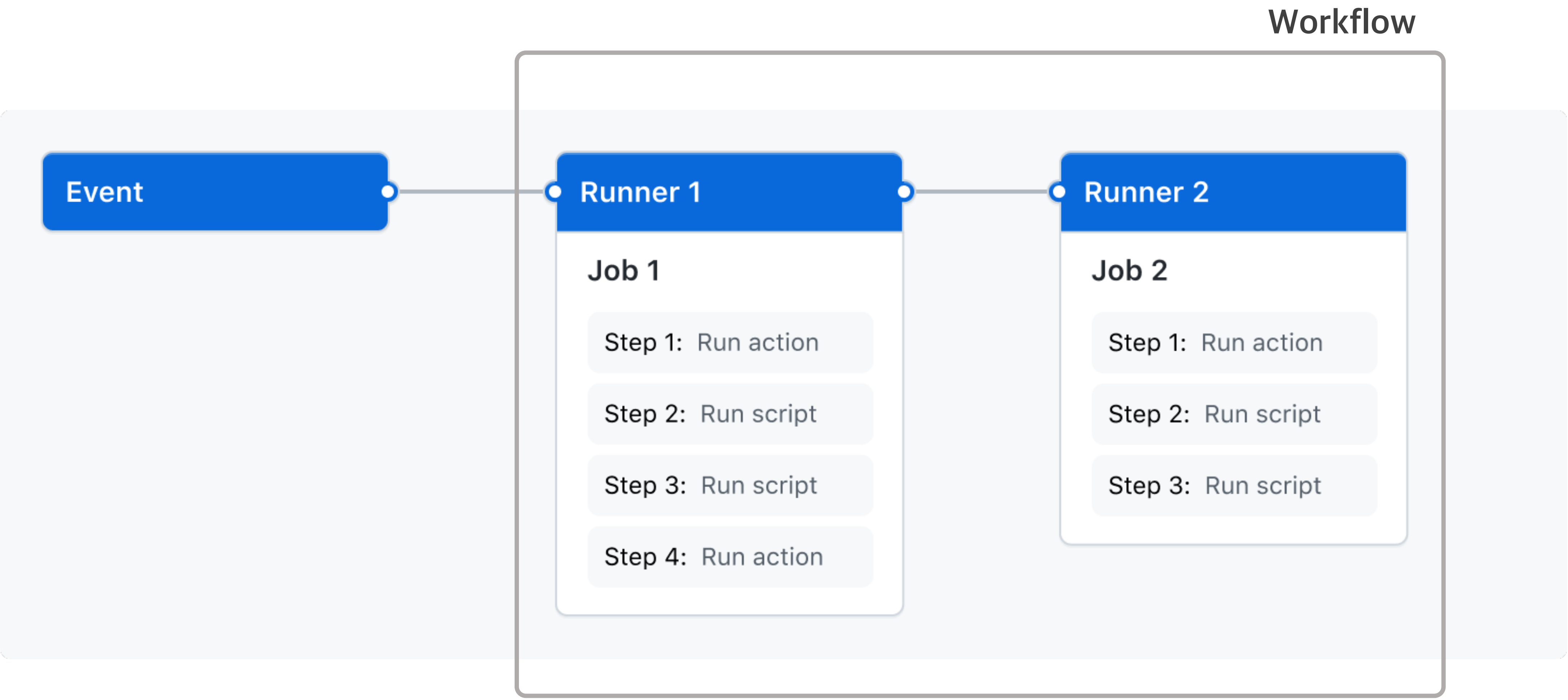
Setup Java JDK
By actions
Set up a specific version of the Java JDK and add the command-line tools to the PATH
☆ 952 stars

Close Stale Issues
By actions
Close issues and pull requests with no recent activity
☆ 858 stars

Setup Node.js environment
By actions
Setup a Node.js environment by adding problem matchers and optionally downloading and adding it to the PATH
☆ 2.6k stars

https://github.com/marketplace?type=actions

- 재사용되는 명령들의 집합으로 이루어진 작업
- 직접 등록할 수 있고, Market에 등록되어 있는 Action들을 가져와 사용할 수도 있다.



Workflow

Event

Runner 1

Job 1

Step 1: Run action

Step 2: Run script

Step 3: Run script

Step 4: Run action

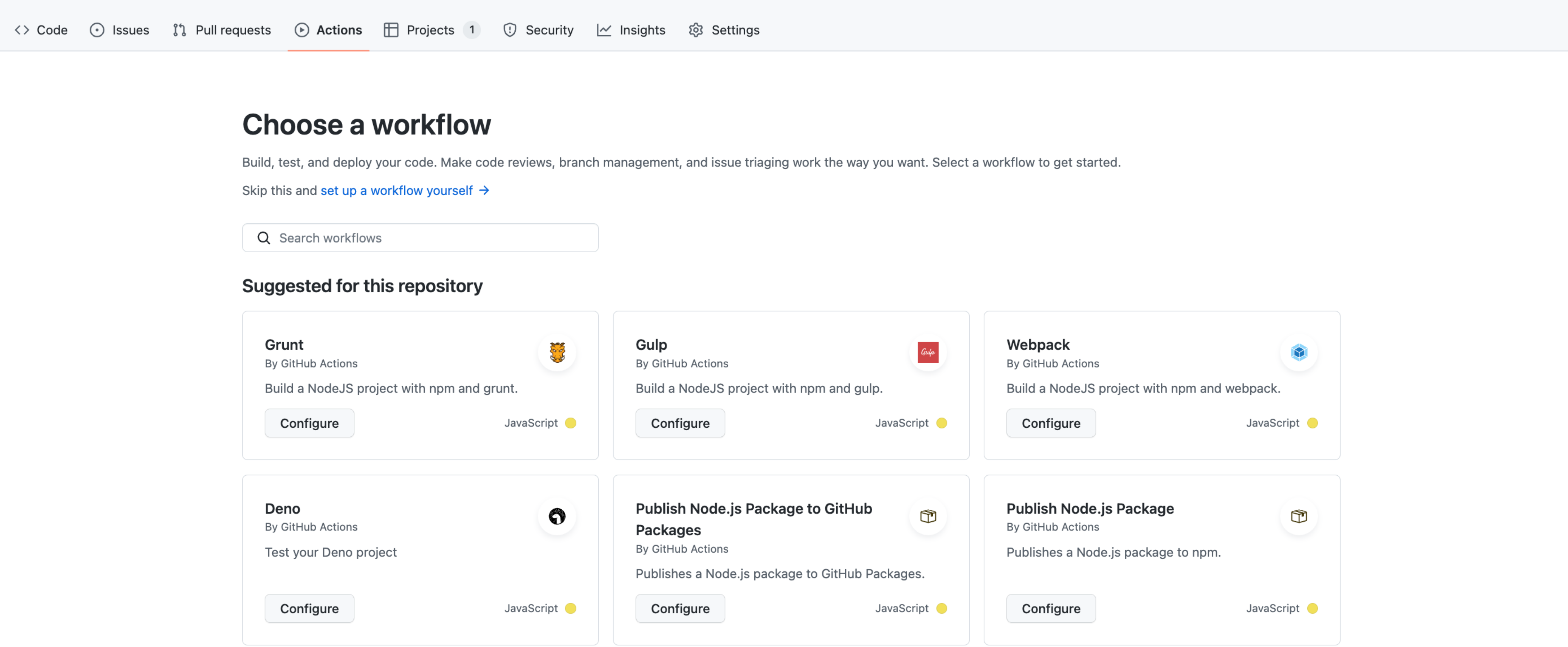
Runner 2

Job 2

Step 1: Run action

Step 2: Run script

Step 3: Run script


Code
Issues
Pull requests
Actions
Projects 1
Security
Insights
Settings

Choose a workflow

Build, test, and deploy your code. Make code reviews, branch management, and issue triaging work the way you want. Select a workflow to get started.

Skip this and set up a workflow yourself →

Search workflows

Suggested for this repository

Grunt
By GitHub Actions
Build a NodeJS project with npm and grunt.
Configure
JavaScript

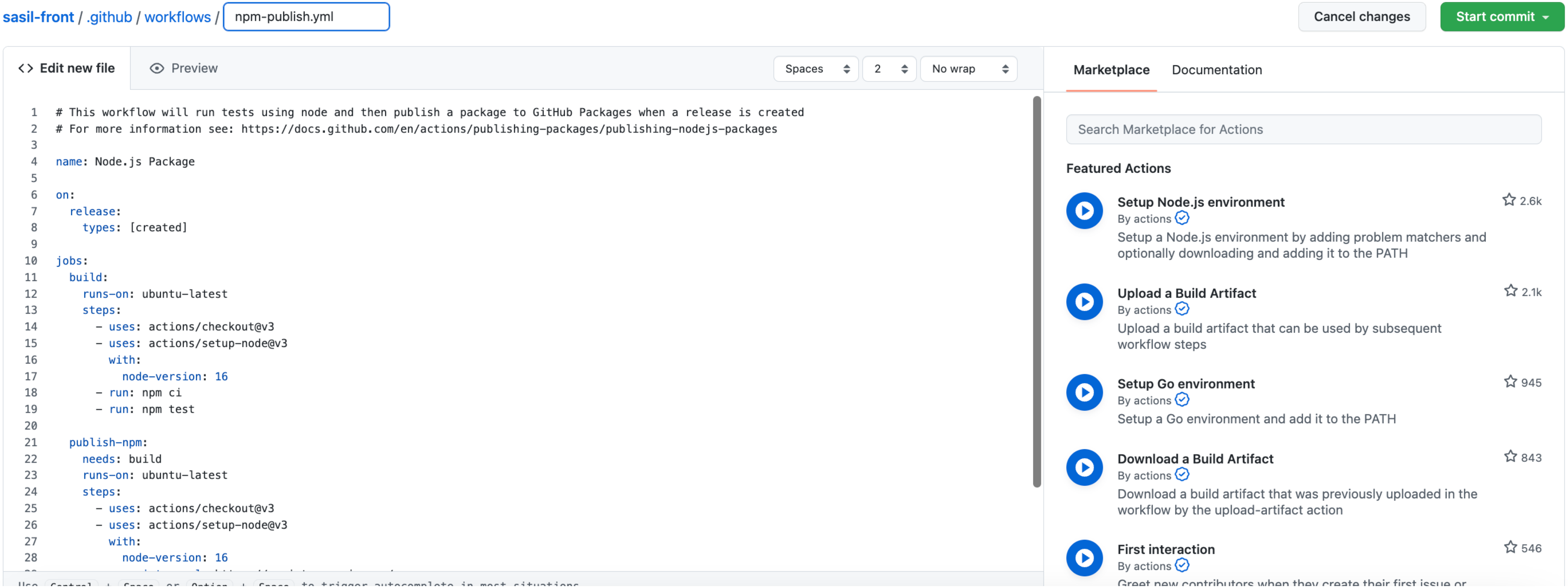
Gulp
By GitHub Actions
Build a NodeJS project with npm and gulp.
Configure
JavaScript

Webpack
By GitHub Actions
Build a NodeJS project with npm and webpack.
Configure
JavaScript

Deno
By GitHub Actions
Test your Deno project
Configure
JavaScript

Publish Node.js Package to GitHub Packages
By GitHub Actions
Publishes a Node.js package to GitHub Packages.
Configure
JavaScript

Publish Node.js Package
By GitHub Actions
Publishes a Node.js package to npm.
Configure
JavaScript



sasil-front / .github / workflows / npm-publish.yml
Cancel changes
Start commit
Edit new file
Preview
Spaces
2
No wrap
Marketplace
Documentation
Search Marketplace for Actions

```yaml
# This workflow will run tests using node and then publish a package to GitHub Packages when a release is created
# For more information see: https://docs.github.com/en/actions/publishing-packages/publishing-nodejs-packages

name: Node.js Package

on:
  release:
    types: [created]

jobs:
  build:
    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@v3
      - uses: actions/setup-node@v3
        with:
          node-version: 16
      - run: npm ci
      - run: npm test

  publish-npm:
    needs: build
    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@v3
      - uses: actions/setup-node@v3
        with:
          node-version: 16
```

Featured Actions

Setup Node.js environment ☆ 2.6k
By actions
Setup a Node.js environment by adding problem matchers and optionally downloading and adding it to the PATH

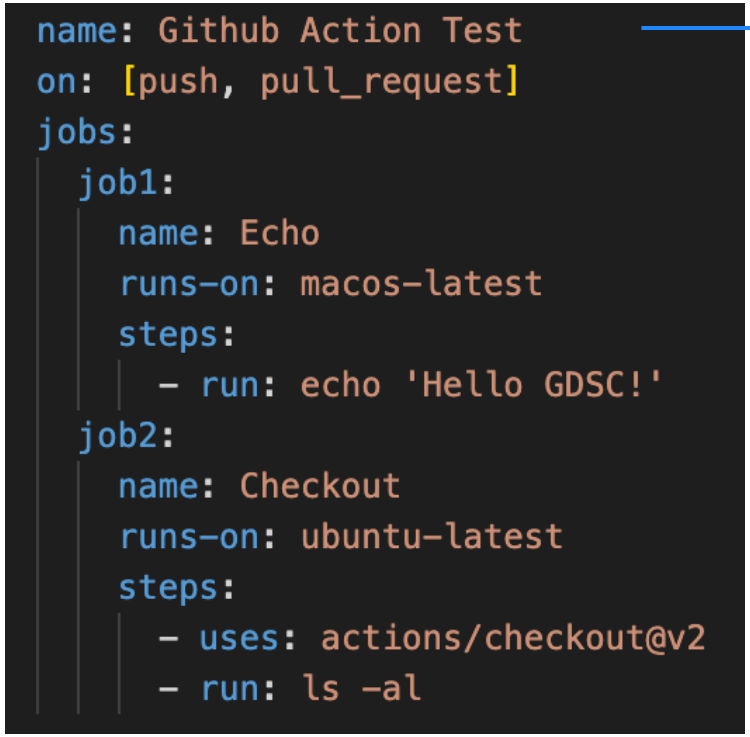
Upload a Build Artifact ☆ 2.1k
By actions
Upload a build artifact that can be used by subsequent workflow steps

Setup Go environment ☆ 945
By actions
Setup a Go environment and add it to the PATH

Download a Build Artifact ☆ 843
By actions
Download a build artifact that was previously uploaded in the workflow by the upload-artifact action

First interaction ☆ 546
By actions
Greet new contributors when they create their first issue or

Github Action 사용법

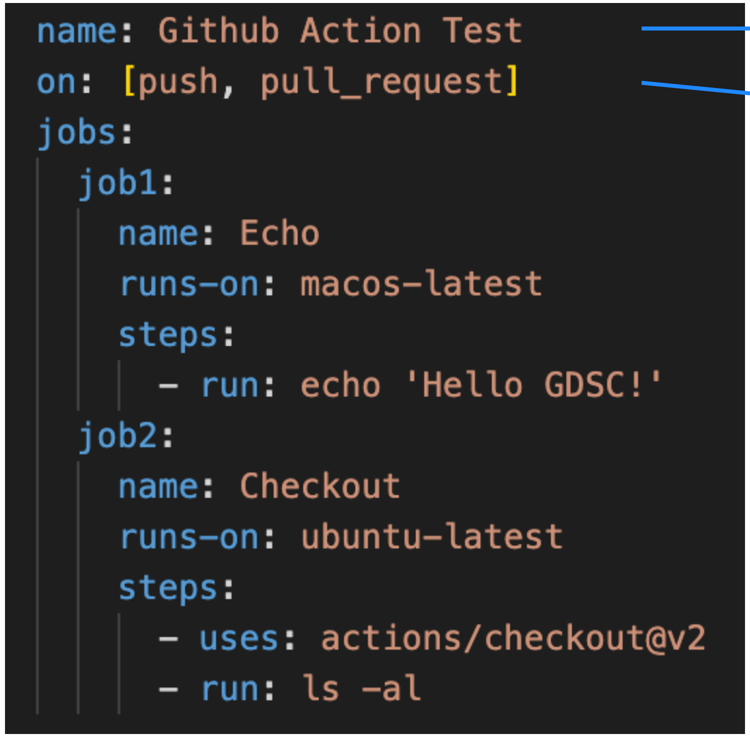


```
name: Github Action Test
on: [push, pull_request]
jobs:
  job1:
    name: Echo
    runs-on: macos-latest
    steps:
      - run: echo 'Hello GDSC!'
  job2:
    name: Checkout
    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@v2
      - run: ls -al
```

Workflow 이름

.github/workflows/test.yml

Github Action 사용법

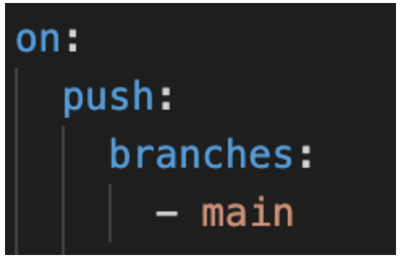


```yaml
name: Github Action Test
on: [push, pull_request]
jobs:
  job1:
    name: Echo
    runs-on: macos-latest
    steps:
      - run: echo 'Hello GDSC!'
  job2:
    name: Checkout
    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@v2
      - run: ls -al
```

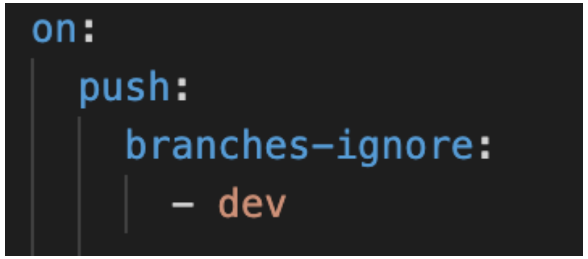
.github/workflows/test.yml

Workflow 이름

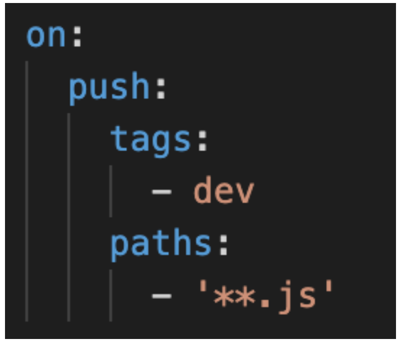
Event



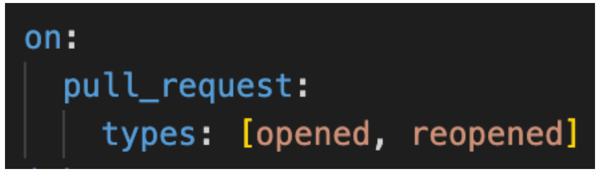
```yaml
on:
  push:
    branches:
      - main
```



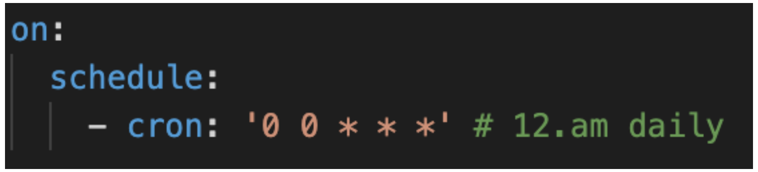
```yaml
on:
  push:
    branches-ignore:
      - dev
```



```yaml
on:
  push:
    tags:
      - dev
    paths:
      - '**.js'
```

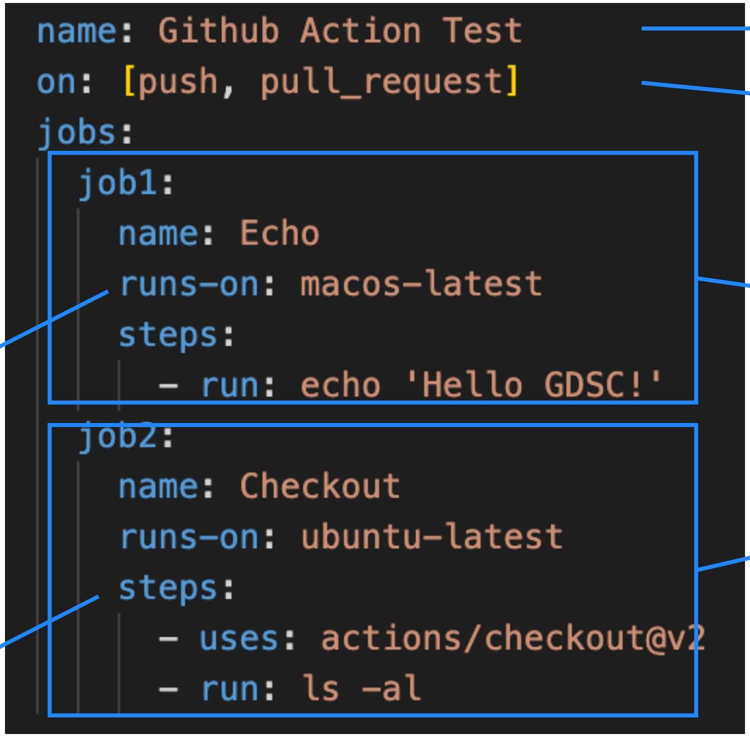


```yaml
on:
  pull_request:
    types: [opened, reopened]
```



```yaml
on:
  schedule:
    - cron: '0 0 * * *' # 12.am daily
```

Github Action 사용법



```
name: Github Action Test
on: [push, pull_request]
jobs:
  job1:
    name: Echo
    runs-on: macos-latest
    steps:
      - run: echo 'Hello GDSC!'
  job2:
    name: Checkout
    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@v2
      - run: ls -al
```

.github/workflows/test.yml

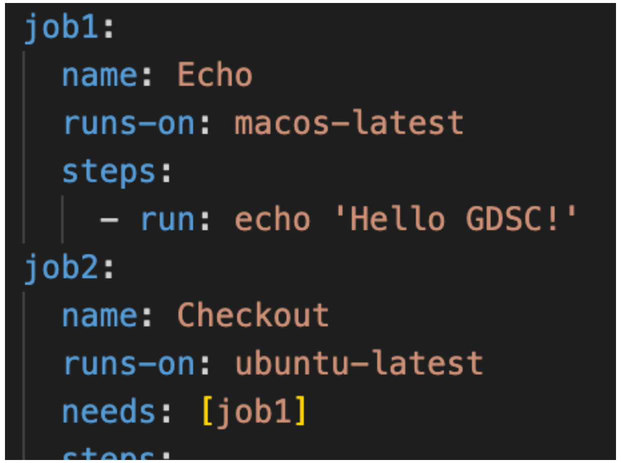
Workflow 이름

Event

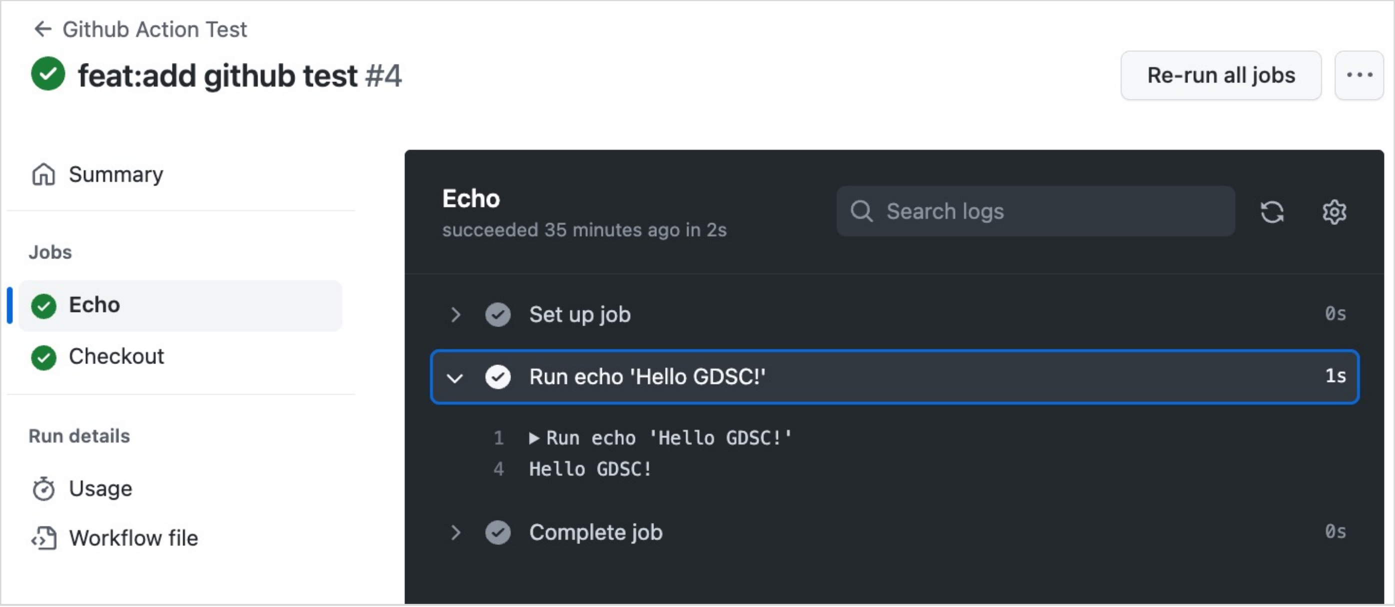
Job

Runner

Steps



```
job1:
  name: Echo
  runs-on: macos-latest
  steps:
    - run: echo 'Hello GDSC!'
job2:
  name: Checkout
  runs-on: ubuntu-latest
  needs: [job1]
  steps:
```



← Github Action Test

feat:add github test #4

Re-run all jobs
···
Summary
Jobs

Echo

Checkout

Run details
Usage
Workflow file

Echo

succeeded 35 minutes ago in 2s

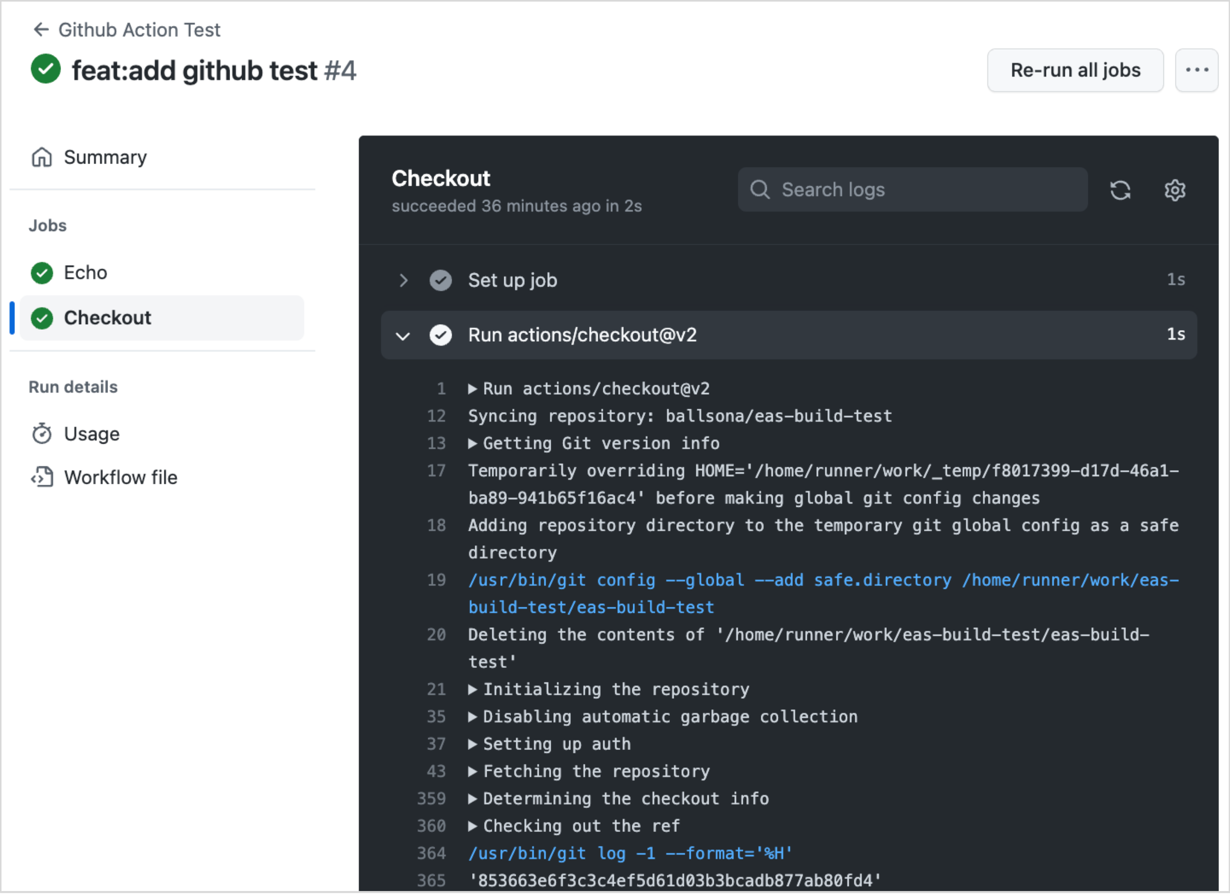
Search logs

Set up job 0s

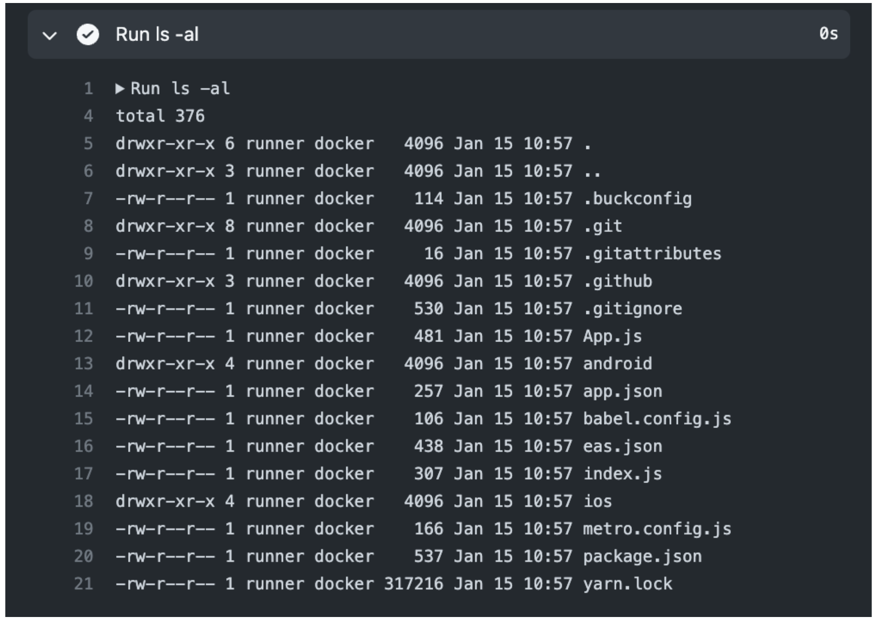
Run echo 'Hello GDSC!' 1s

```
▶Run echo 'Hello GDSC!'
Hello GDSC!
```

Complete job 0s


← Github Action Test
feat:add github test #4
Re-run all jobs
Summary
Jobs
Echo
Checkout
Run details
Usage
Workflow file
Checkout
succeeded 36 minutes ago in 2s
Search logs
Set up job
1s
Run actions/checkout@v2
1s

```
▶ Run actions/checkout@v2
Syncing repository: ballsona/eas-build-test
▶ Getting Git version info
Temporarily overriding HOME='/home/runner/work/_temp/f8017399-d17d-46a1-ba89-941b65f16ac4' before making global git config changes
Adding repository directory to the temporary git global config as a safe directory
/usr/bin/git config --global --add safe.directory /home/runner/work/eas-build-test/eas-build-test
Deleting the contents of '/home/runner/work/eas-build-test/eas-build-test'
▶ Initializing the repository
▶ Disabling automatic garbage collection
▶ Setting up auth
▶ Fetching the repository
▶ Determining the checkout info
▶ Checking out the ref
/usr/bin/git log -1 --format='%H'
'853663e6f3c3c4ef5d61d03b3bcadb877ab80fd4'
```



```
▶ Run ls -al
total 376
drwxr-xr-x 6 runner docker   4096 Jan 15 10:57 .
drwxr-xr-x 3 runner docker   4096 Jan 15 10:57 ..
-rw-r--r-- 1 runner docker    114 Jan 15 10:57 .buckconfig
drwxr-xr-x 8 runner docker   4096 Jan 15 10:57 .git
-rw-r--r-- 1 runner docker     16 Jan 15 10:57 .gitattributes
drwxr-xr-x 3 runner docker   4096 Jan 15 10:57 .github
-rw-r--r-- 1 runner docker    530 Jan 15 10:57 .gitignore
-rw-r--r-- 1 runner docker    481 Jan 15 10:57 App.js
drwxr-xr-x 4 runner docker   4096 Jan 15 10:57 android
-rw-r--r-- 1 runner docker    257 Jan 15 10:57 app.json
-rw-r--r-- 1 runner docker    106 Jan 15 10:57 babel.config.js
-rw-r--r-- 1 runner docker    438 Jan 15 10:57 eas.json
-rw-r--r-- 1 runner docker    307 Jan 15 10:57 index.js
drwxr-xr-x 4 runner docker   4096 Jan 15 10:57 ios
-rw-r--r-- 1 runner docker    166 Jan 15 10:57 metro.config.js
-rw-r--r-- 1 runner docker    537 Jan 15 10:57 package.json
-rw-r--r-- 1 runner docker 317216 Jan 15 10:57 yarn.lock
```

Github Action 활용 예시

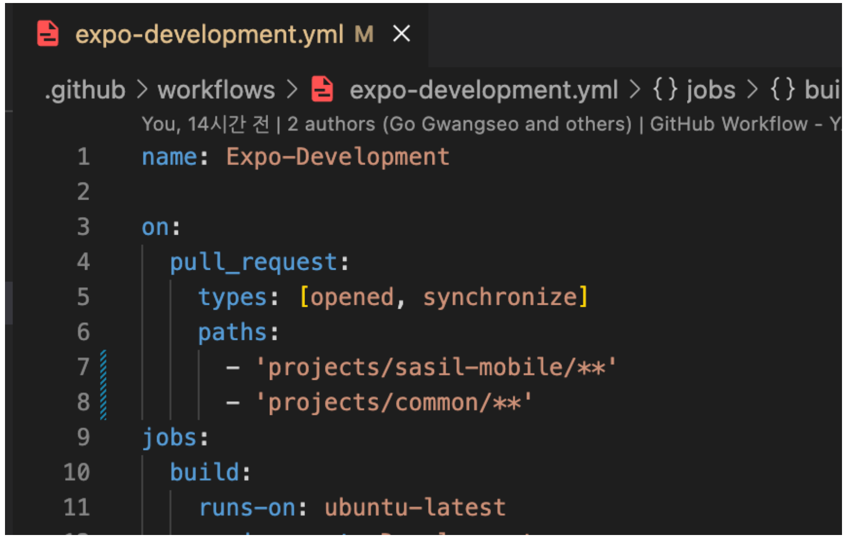
sasil

GitHub Action

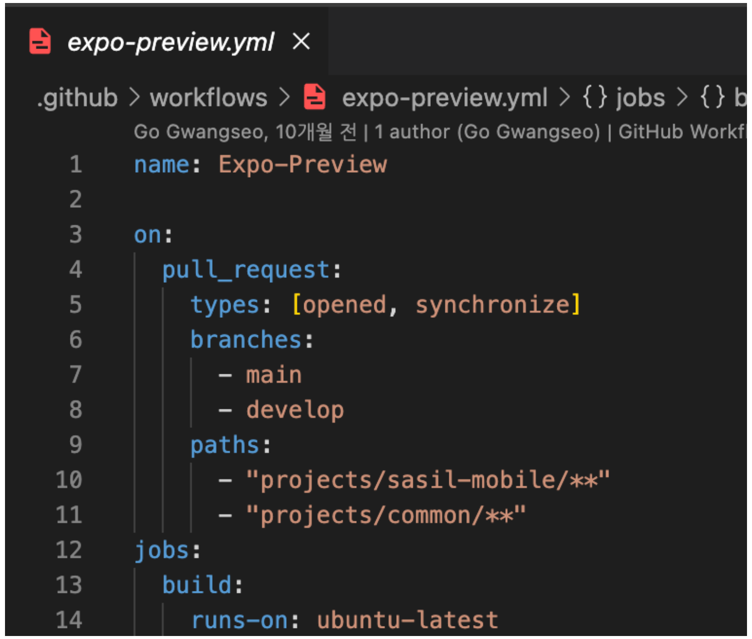
Expo GitHub Action

7.2.0 Latest version

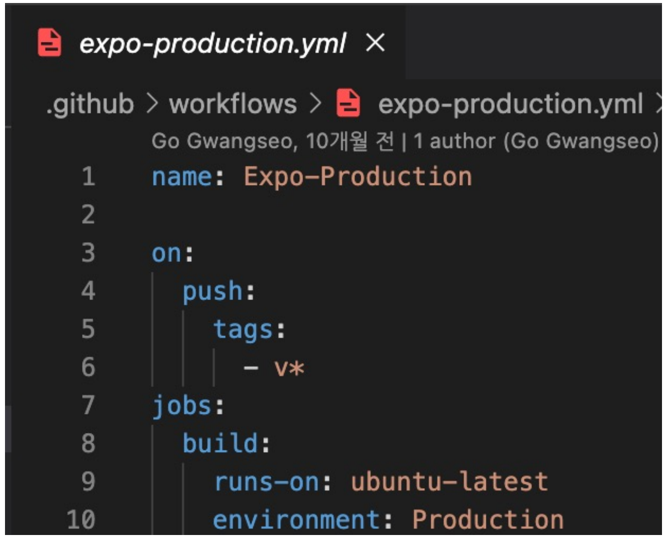
Github Action 활용 예시


expo-development.yml M ×
.github > workflows > expo-development.yml > {} jobs > {} bui
You, 14시간 전 | 2 authors (Go Gwangseo and others) | GitHub Workflow - Y

```yaml
name: Expo-Development

on:
  pull_request:
    types: [opened, synchronize]
    paths:
      - 'projects/sasil-mobile/**'
      - 'projects/common/**'
jobs:
  build:
    runs-on: ubuntu-latest
```

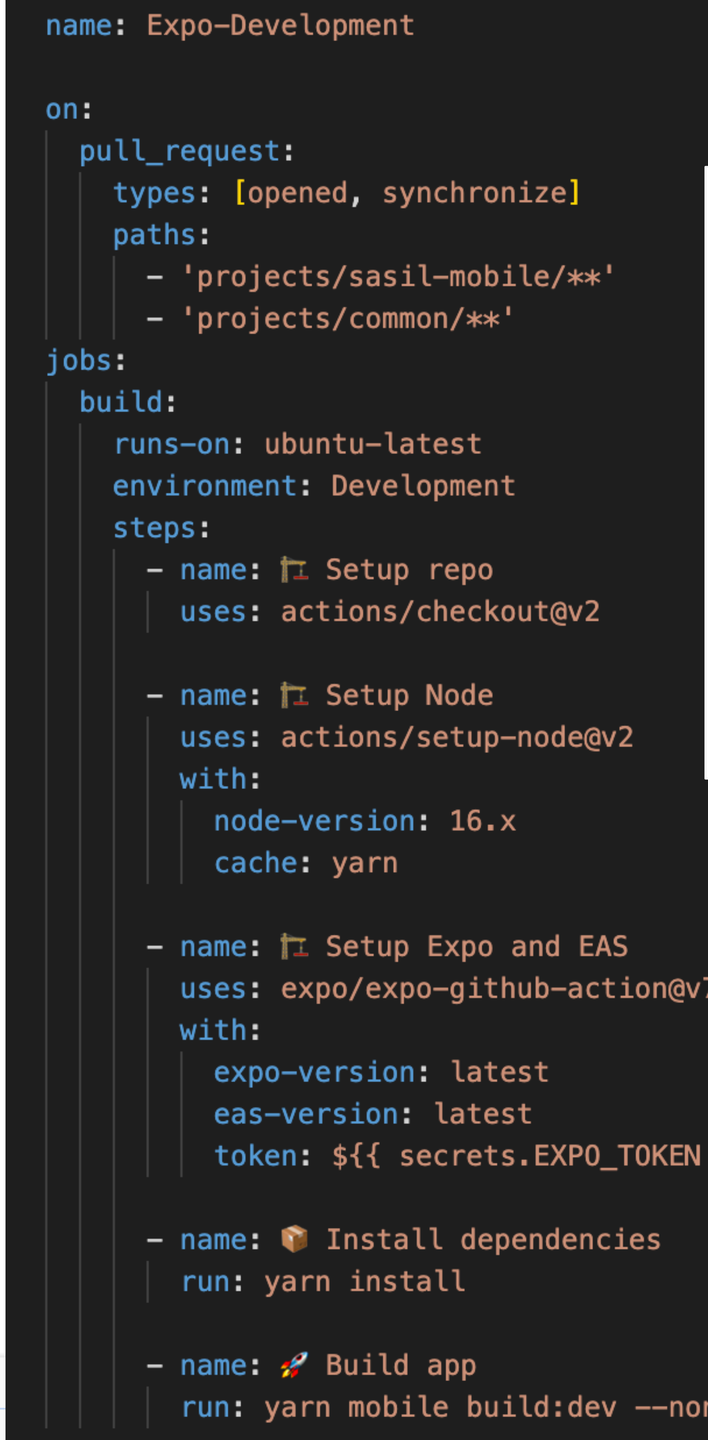

expo-preview.yml ×
.github > workflows > expo-preview.yml > {} jobs > {} b
Go Gwangseo, 10개월 전 | 1 author (Go Gwangseo) | GitHub Workf

```yaml
name: Expo-Preview

on:
  pull_request:
    types: [opened, synchronize]
    branches:
      - main
      - develop
    paths:
      - "projects/sasil-mobile/**"
      - "projects/common/**"
jobs:
  build:
    runs-on: ubuntu-latest
```

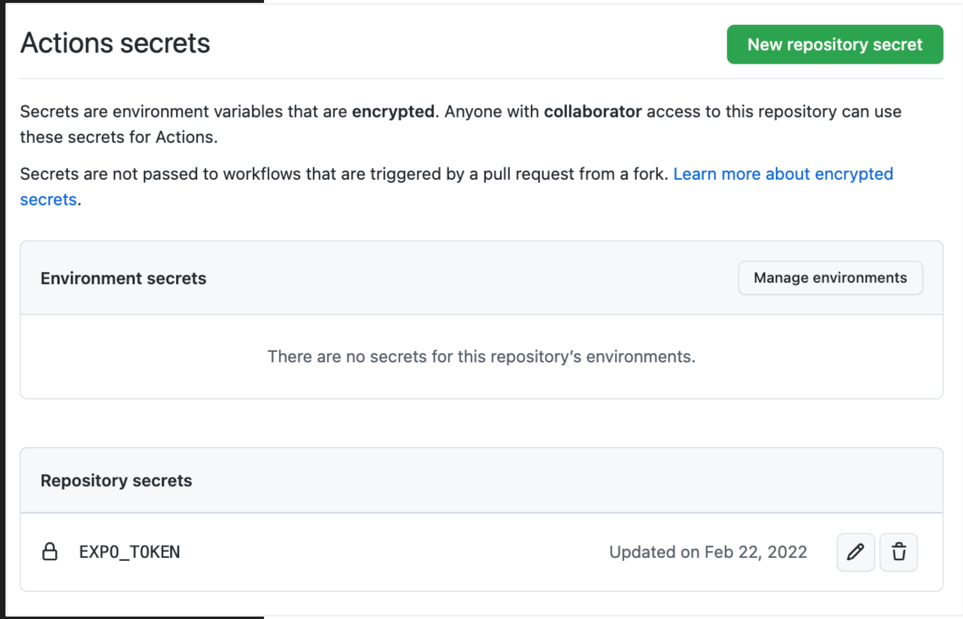

expo-production.yml ×
.github > workflows > expo-production.yml >
Go Gwangseo, 10개월 전 | 1 author (Go Gwangseo)

```yaml
name: Expo-Production

on:
  push:
    tags:
      - v*
jobs:
  build:
    runs-on: ubuntu-latest
    environment: Production
```

Github Action 활용 예시



```yaml
name: Expo-Development

on:
  pull_request:
    types: [opened, synchronize]
    paths:
      - 'projects/sasil-mobile/**'
      - 'projects/common/**'
jobs:
  build:
    runs-on: ubuntu-latest
    environment: Development
    steps:
      - name: 🏗 Setup repo
        uses: actions/checkout@v2

      - name: 🏗 Setup Node
        uses: actions/setup-node@v2
        with:
          node-version: 16.x
          cache: yarn

      - name: 🏗 Setup Expo and EAS
        uses: expo/expo-github-action@v7
        with:
          expo-version: latest
          eas-version: latest
          token: ${{ secrets.EXPO_TOKEN }}

      - name: 📦 Install dependencies
        run: yarn install

      - name: 🚀 Build app
        run: yarn mobile build:dev --non-interactive
```



Actions secrets

Secrets are environment variables that are **encrypted**. Anyone with **collaborator** access to this repository can use these secrets for Actions.

Secrets are not passed to workflows that are triggered by a pull request from a fork. Learn more about encrypted secrets.

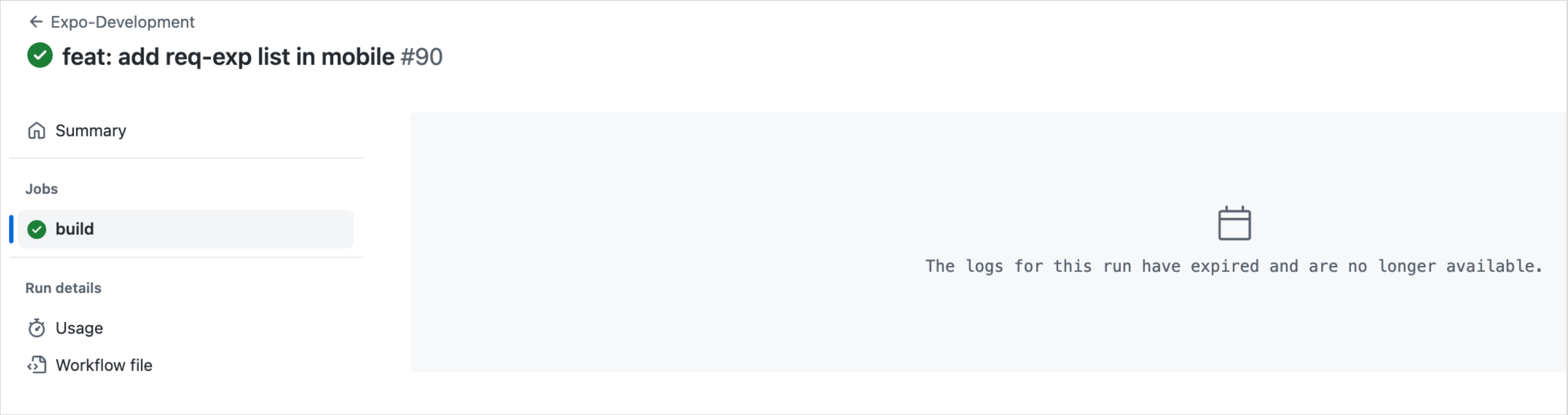
Environment secrets

There are no secrets for this repository's environments.

Repository secrets

EXPO_TOKEN	Updated on Feb 22, 2022

Github Action 활용 예시



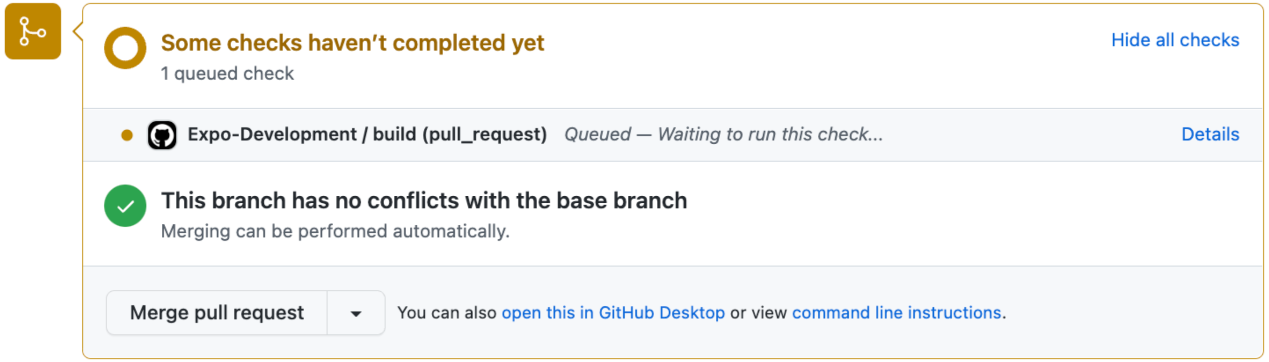
← Expo-Development

feat: add req-exp list in mobile #90

Summary
Jobs
✓ build
Run details
Usage
Workflow file

```
The logs for this run have expired and are no longer available.
```

만료되었다…



Some checks haven't completed yet

1 queued check

Hide all checks

Expo-Development / build (pull_request) *Queued — Waiting to run this check...*

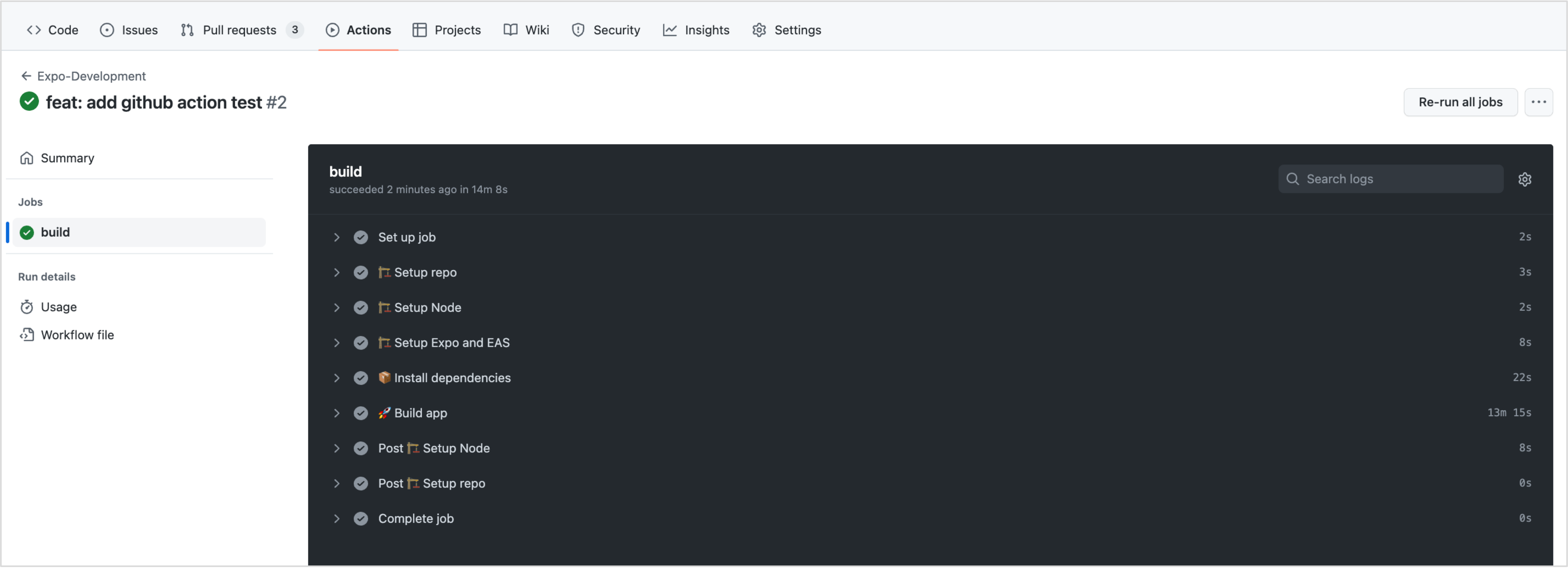
Details

This branch has no conflicts with the base branch

Merging can be performed automatically.

Merge pull request

You can also open this in GitHub Desktop or view command line instructions.



Code
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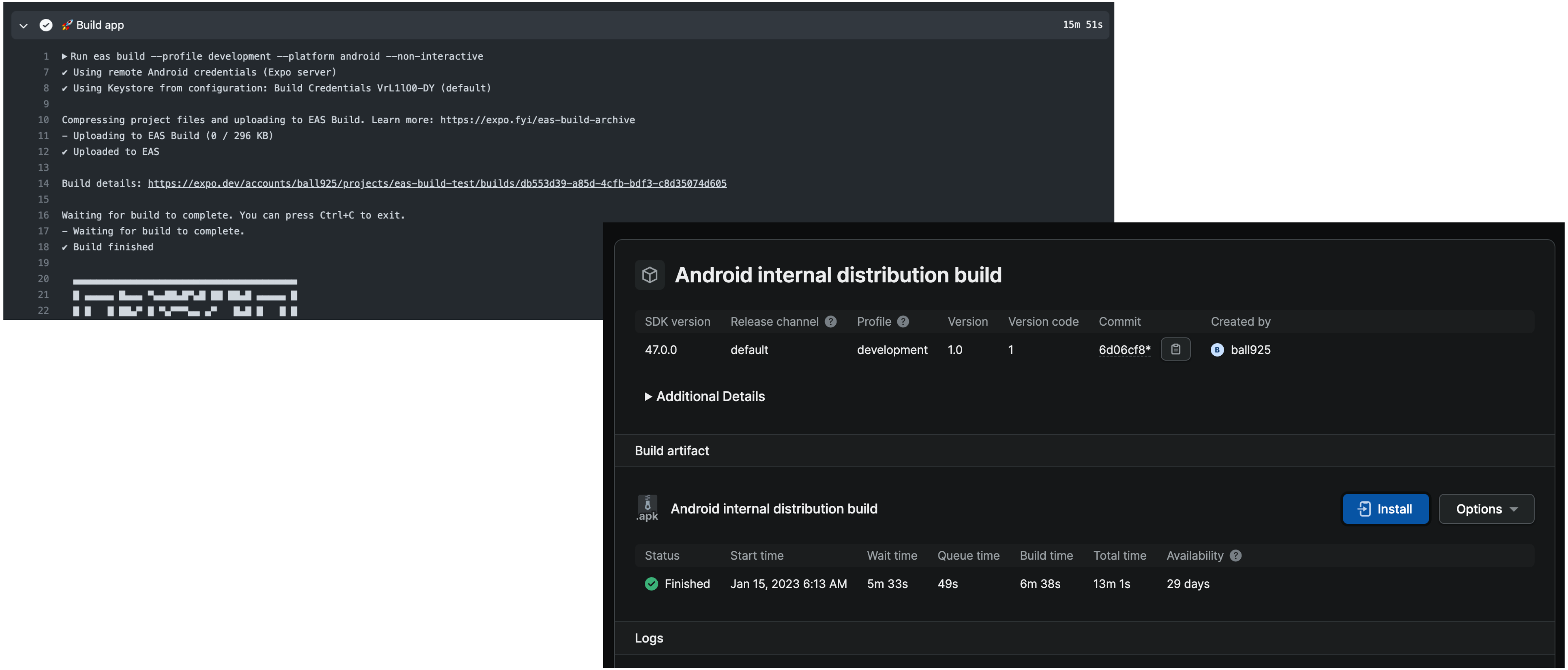
Search logs

feat: add github action test #2

build

succeeded 2 minutes ago in 14m 8s

Set up job	2s
🏗 Setup repo	3s
🏗 Setup Node	2s
🏗 Setup Expo and EAS	8s
📦 Install dependencies	22s
🚀 Build app	13m 15s
Post 🏗 Setup Node	8s
Post 🏗 Setup repo	0s
Complete job	0s



```
▶ Run eas build --profile development --platform android --non-interactive
✔ Using remote Android credentials (Expo server)
✔ Using Keystore from configuration: Build Credentials VrL1lO0-DY (default)

Compressing project files and uploading to EAS Build. Learn more: https://expo.fyi/eas-build-archive
- Uploading to EAS Build (0 / 296 KB)
✔ Uploaded to EAS

Build details: https://expo.dev/accounts/ball925/projects/eas-build-test/builds/db553d39-a85d-4cfb-bdf3-c8d35074d605

Waiting for build to complete. You can press Ctrl+C to exit.
- Waiting for build to complete.
✔ Build finished
```

Android internal distribution build

SDK version	Release channel	Profile	Version	Version code	Commit	Created by
47.0.0	default	development	1.0	1	6d06cf8*	ball925

▶ Additional Details

Build artifact

.apk Android internal distribution build

Status	Start time	Wait time	Queue time	Build time	Total time	Availability
Finished	Jan 15, 2023 6:13 AM	5m 33s	49s	6m 38s	13m 1s	29 days

Logs

감사합니다