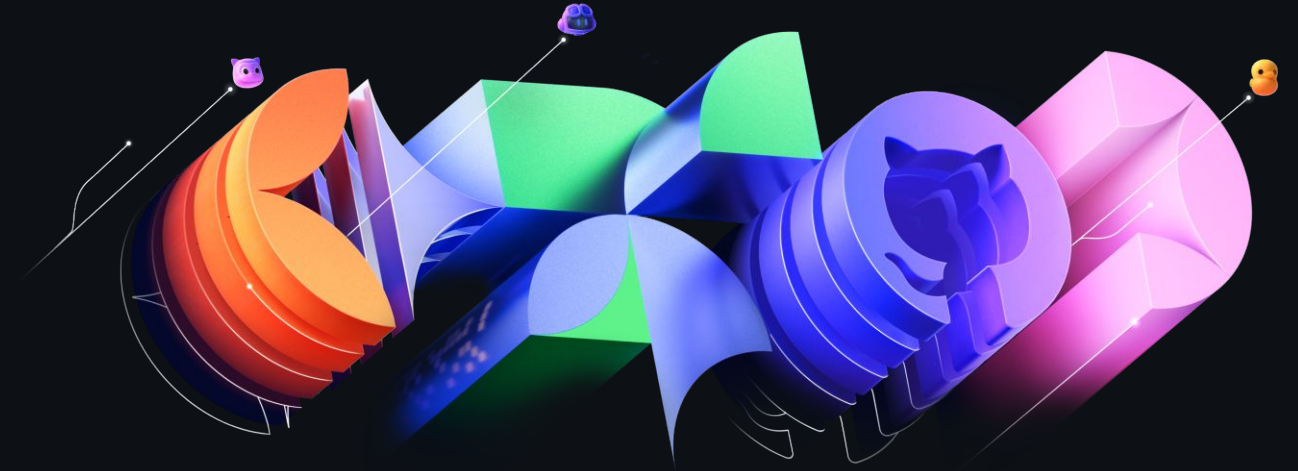


UNIVERSE'24 RECAP



# GitHub Actions 의 다양한 기능 활용하기

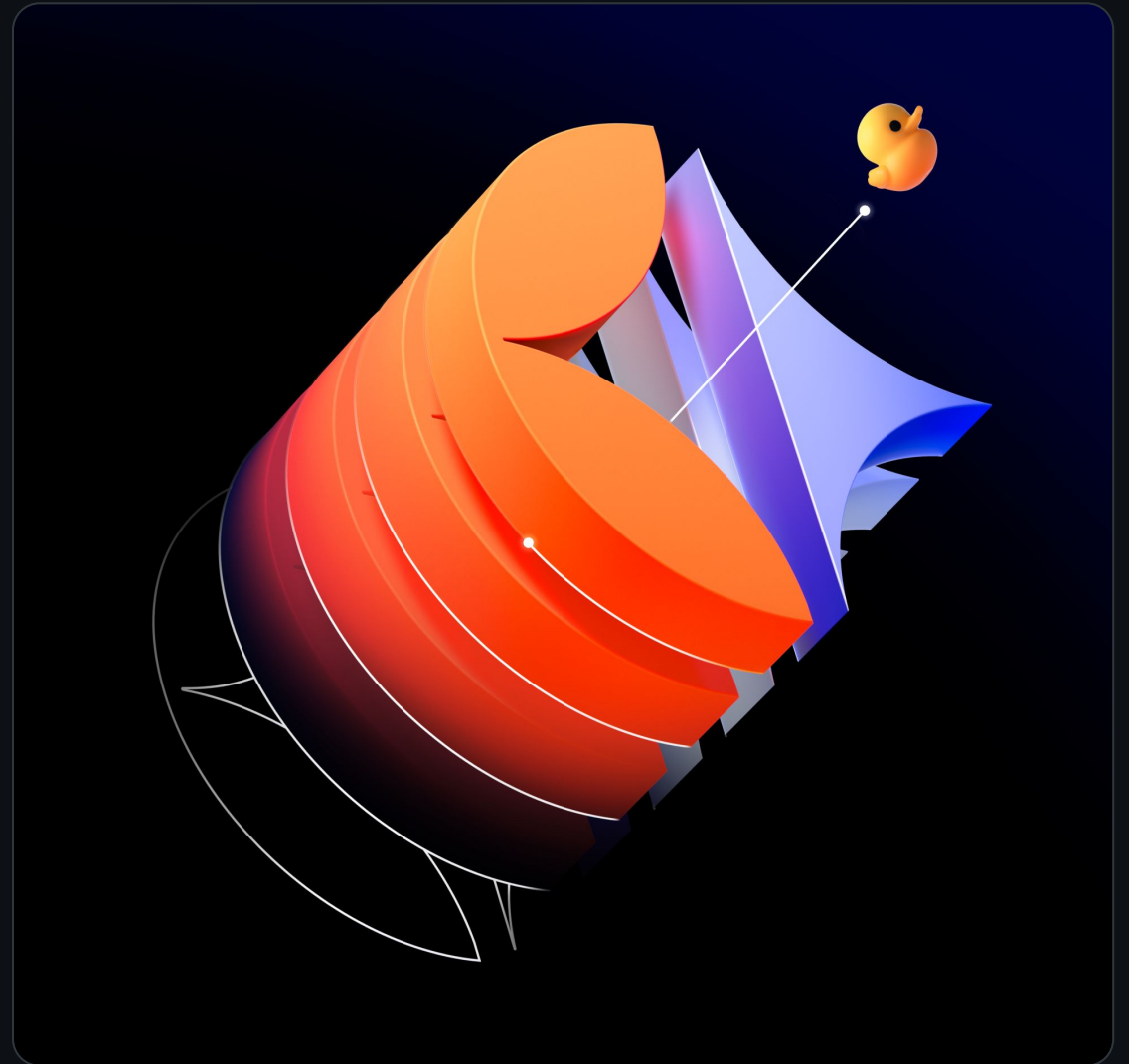


# Outsider

당근마켓 SRE팀 리드  
GitHub Stars

## Agenda

- 01 workflow\_dispatch**
- 02 workflow\_run**
- 03 workflow\_call**
- 04 Composite action**
- 05 environments**
- 06 repository\_dispatch**
- 07 Metrics**



# workflow\_ dispatch

수동 실행

```
name: Demo
```

```
on:
```

```
  push:
```

```
  pull_request:
```

```
  workflow_dispatch:
```

```
jobs:
```

# workflow\_ dispatch

Event ▾ Status ▾ Branch ▾ Actor ▾

This workflow has a `workflow_dispatch` event trigger. Run workflow ▾

- **Create blank.yml**  
CI #1: Commit [9d520b8](#) pushed by outsiders

Use workflow from

Branch: main ▾

Run workflow

# workflow\_ dispatch

```
on:  
  push:  
  pull_request:  
  workflow_dispatch:  
    inputs:  
      name:  
        description: 'Name'  
        required: true  
      debug:  
        description: 'Debug Mode'  
        type: boolean  
jobs:  
  test:  
    runs-on: ubuntu-latest  
    steps:  
      - run:  
        env:  
          NAME: ${{ inputs.name }}  
          DEBUG: ${{ inputs.debug }}
```

# workflow\_ dispatch

Event ▾ Status ▾ Branch ▾ Actor ▾

This workflow has a `workflow_dispatch` event trigger. Run workflow ▾

- **Update blank.yml**  
CI #2: Commit [de081fe](#) pushed by outsidersis
- ✓ **Create blank.yml**  
CI #1: Commit [9d520b8](#) pushed by outsidersis

Use workflow from

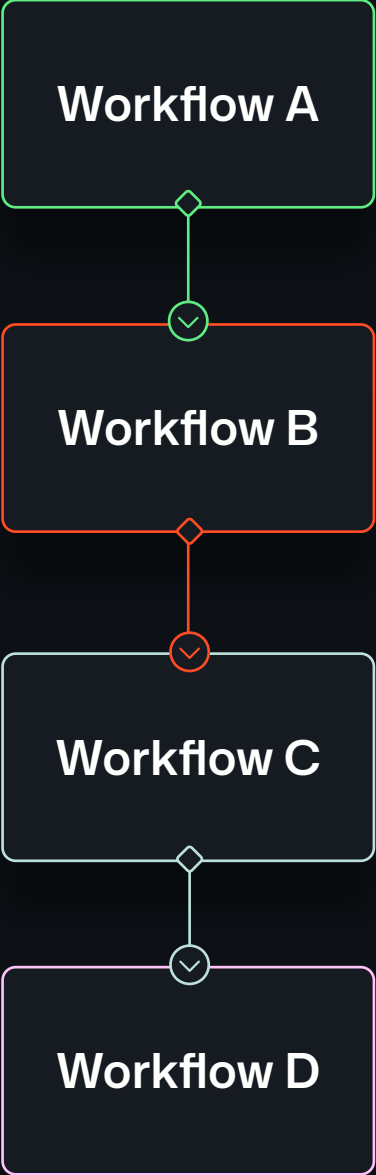
Branch: main ▾

**Name \***

Debug Mode

Run workflow

# workflow\_ run





# workflow\_ run

```
name: Test
on:
  push:

jobs:
  # 생략
```

```
name: Report
on:
  workflow_run:
    workflows: [Test]
    types:
      - completed

jobs:
  # 생략
```

**workflow\_  
run**

**types**

- completed
- requested
- in\_progress

# workflow\_ run

```
name: Report
on:
  workflow_run:
    workflows: [Test]
    types:
      - completed

jobs:
  build:
    if: ${{ github.event.workflow_run.conclusion == 'success' }}
```

# workflow\_ run

```
name: Report
on:
  workflow_run:
    workflows: [Test]
    types:
      - completed

jobs:
  build:
    if: ${{ github.event.workflow_run.conclusion == 'failure' }}
```

## Reusable Workflow

Reusable

# workflow\_ call

```
name: Lint
```

```
on:
```

```
  workflow_call:
```

```
jobs:
```

```
  # 생략
```

Reusable

# workflow\_ call

## Caller Workflow

```
name: CI
on:
  push:

jobs:
  test:
    runs-on: ubuntu-latest
    steps: # 생략
  call-lint:
    uses: ../.github/workflows/lint.yaml@main
```

Reusable

# workflow\_ call

🏠 Summary

Jobs

✔ test

✔ call-lint

Run details

🕒 Usage

📄 Workflow file

**blank.yml**

on: push

✔ test

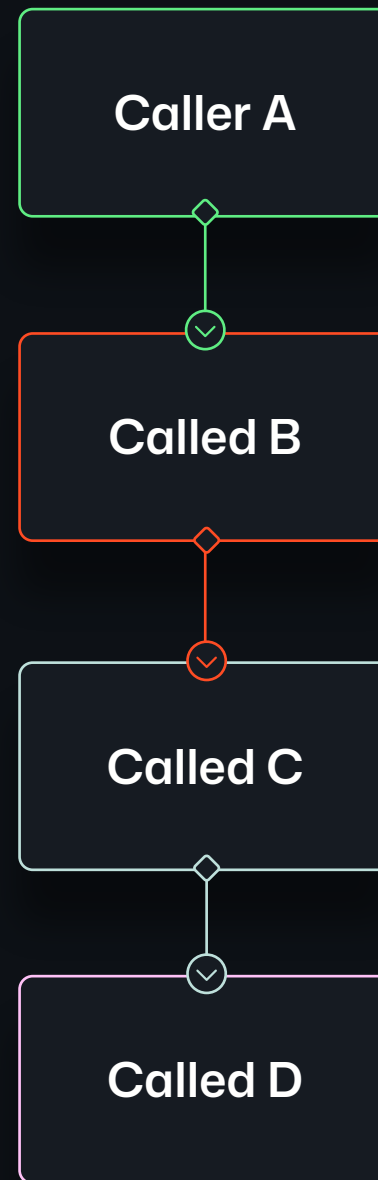
0s

✔ call-lint / lint

0s

Reusable

# workflow\_ call







Settings



Actions

# workflow\_ call

## Actions permissions

**Allow all actions and reusable workflows**

Any action or reusable workflow can be used, regardless of who authored it or where it is defined.

**Disable actions**

The Actions tab is hidden and no workflows can run.

**Allow outsider actions and reusable workflows**

Any action or reusable workflow defined in a repository within an organization can be used.

**Allow outsider, and select non-outsider, actions and reusable workflows**

Any action or reusable workflow that matches the specified criteria, plus those defined in a repository within an organization, can be used. [Learn more about allowing specific actions and reusable workflows to run.](#)

Save

Reusable

# workflow\_ call

같은 저장소나  
접근할 수 있는 원격 저장소

```
uses: ../.github/workflows/lint.yaml@main
```

```
uses: org/repo/.github/workflows/lint.yaml@main
```

## Reusable Workflow

Reusable

# workflow\_ call

입력값과 시크릿 전달

```
name: Lint
on:
  workflow_call:
    inputs:
      name:
        required: true
        type: string
    secrets:
      token:
jobs:
  lint:
    steps:
      - run: |
          echo ${ inputs.name }
          echo ${ secrets.token }
```

## Caller Workflow

Reusable

# workflow\_ call

```
name: CI
on:
  push:

jobs:
  test:
    runs-on: ubuntu-latest
    steps: # 생략
  call-lint:
    uses: ../.github/w...s/lint.yaml@main
    with:
      name: outsider
    secrets:
      token: ${ secrets.TOKEN }
```

## Reusable Workflow

Reusable

# Composite action

/action.yml  
/action.yaml

```
name: Composite

inputs:
  name:

outputs:
  result:
    value: ${{ steps.export.outputs.result }}

runs:
  using: "composite"
  steps:
    - run: echo Hello ${{ inputs.name }}
      shell: bash
    - id: export
      run: echo "result=true" >> $GITHUB_OUTPUT
      shell: bash
```

## Caller Workflow

Reusable

# Composite action

```
jobs:
  test:
    runs-on: ubuntu-latest
    steps:
      - name: Caller's build
        name: echo caller
        shell: bash
      - id: comp
        uses: outsiders/demo@main
        with:
          name: 'Outsider'
      - run: echo result = $RESULT
        shell: bash
    env:
      RESULT: ${{ steps.comp.outputs.result }}
```

Reusable

# Composite action

🏠 Summary

Jobs

✅ test

Run details

🕒 Usage

📄 Workflow file

**test**

succeeded 16 minutes ago in 4s

- > ✅ Set up job
- > ✅ Caller's build
- > ✅ Run outsiders/actions-test@main
- > ✅ Run echo result = \$RESULT
- > ✅ Complete job

# wokflow\_call

- Job 으로 실행
- 여러 Job을 포함할 수 있음
- 최대 4단계 워크플로우 연결 가능
- 시크릿 사용 가능

# Composite action

- Step 으로 실행
- Job을 포함할 수 없음
- 최대 10개 액션을 중첩 가능
- 시크릿 사용 불가



# needs

```
on:  
  push:  
  
jobs:  
  build:  
    runs-on: ubuntu-latest  
    steps: # 생략  
  deploy-dev:  
    needs: build  
    steps: # 생략  
  deploy-prod:  
    needs: deploy-dev  
    steps: # 생략
```

# needs

## Summary



### Jobs

- ✓ build
- ✓ deploy-dev
- ✓ deploy-prod

### Run details

- 🕒 Usage
- 📄 Workflow file

Triggered via push 1 minute ago

 outsideris pushed  cba842a [main](#)

Status

**Success**

Total duration

**30s**

Artifacts

—

## blank.yml

on: push

✓ build

0s

✓ deploy-dev

0s

✓ deploy-prod

0s





Settings



Environments

# environments

## Environments

New environment

You can configure environments with protection rules, variables, and secrets. [Learn more about configuring environments.](#)

prod



dev





Settings



Environments

# environments

## Environments / Configure prod

### Deployment protection rules

Configure reviewers, timers, and custom rules that must pass before deployments to this environment can proceed.

**Required reviewers**

Specify people or teams that may approve workflow runs when they access this environment.

**Add up to 5 more reviewers**

Search for people or teams...



outsideris



**Prevent self-review**

Require a different approver than the user who triggered the workflow run.

**Wait timer**

Set an amount of time to wait before allowing deployments to proceed.

**Enable custom rules with GitHub Apps** [Preview](#)

[Learn about existing apps](#) or [create your own protection rules](#) so you can deploy with confidence.

**Allow administrators to bypass configured protection rules**

Save protection rules



🏠 Summary

Jobs

- ✅ build
- ✅ deploy-dev
- 🕒 deploy-prod

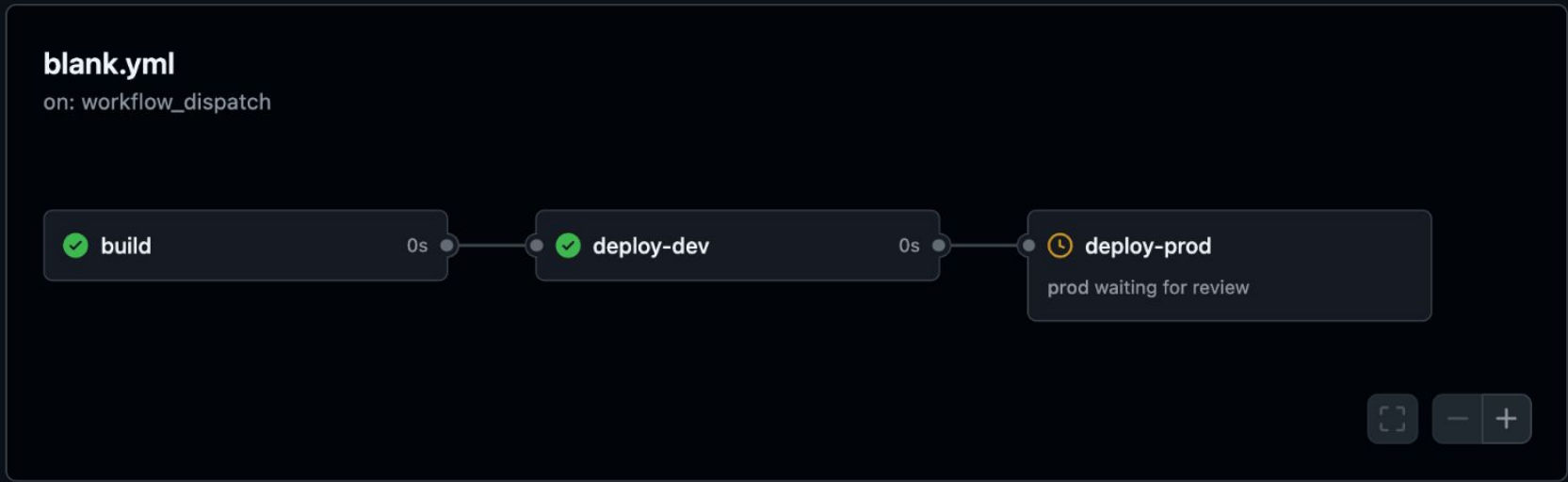
Run details

- 🕒 Usage
- 📄 Workflow file

Manually triggered 1 minute ago	Status	Total duration	Artifacts
outsideris  b9e2df6 <span>main</span>	<b>Waiting</b>	—	—

outsideris requested your review to deploy to prod

[Review deployments](#)



**Deployment protection rules** [Start all waiting jobs](#)

Reviewers, timers, and other rules protecting deployments in this run

Event	Environments	Comment
outsideris  requested review	<b>prod</b>	—

## Review pending deployments



requested by outsidersis in Release #35

**prod**

Review needed from outsidersis



Leave a comment:

LGTM



Reject

 Approve and deploy 1

Deployment protection rules

# repository\_ dispatch

```
on:  
  repository_dispatch:  
    workflows: [ trigger ]  
  
jobs:  
  # 생략
```

# repository\_ dispatch

```
jobs:
  test:
    steps:
      - run: |
          gh api \
            /repos/outsideris/demo/dispatches \
            -f event_type='trigger'
    env:
      GITHUB_TOKEN: ${ secrets.PAT }
```



# repository\_ dispatch

```
on:  
  repository_dispatch:  
    workflows: [ trigger ]  
  
jobs:  
  report:  
    steps:  
    - run: |  
      echo \  
      {{{ github.event.client_payload.message }}}
```

# Action Usage Metrics

- Pulse
- Contributors
- Community
- Community Standards
- Traffic
- Commits
- Code frequency
- Dependency graph
- Network
- Forks
- Actions Usage Metrics**
- Actions Performance Metrics

## Actions Usage Metrics Preview

Period: Current month

Showing data from 2024. 12. 1. to 21 minutes ago

**Total minutes**

**26**

Total minutes across all workflows in this organization for current month

**Total job runs**

**26**

Total job runs across all workflows in this organization for current month

Workflows Jobs Runtime OS **Runner type**

**Filter** Search or filter

Runner type	↕ Total minutes	Workflow runs	Workflows
hosted	26	22	1 ...

# Action Performance Metrics

Actions Performance Metrics Preview

Period: Current month

Showing data from 2024. 12. 1. to 1 hour ago

Avg job run time

2s

Average run time of jobs in this organization for current month

Avg job queue time

8s

Average queue time of jobs in this organization for current month

Job failure rate

19%

Failure rate across jobs in this organization for current month

Failed job usage

5

Total minutes used across failed jobs in this organization for current month

Workflows Jobs Runtime OS Runner type

Filter

Search or filter



Workflow	Has job failures	⌵ Avg run time	Workflow runs	Jobs
blank.yml	24%	2s	21	3 ...

**Thank  
you.**



**outsideris**

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