



Workflow dispatch - Automation for the past, present, and future



- Vishnu Bharathi P
- Works at  **HASURA**
- Blogs at vishnubharathi.codes
- @scriptnull on  and 





Agenda

- Workflow dispatch in GitHub Actions
- Internal/Dev tools @ Hasura
- The “past, present, and future” problem
- The solution

Workflow dispatch



create review app
create-review-app.yml

Filter workflow runs

118 workflow runs Event Status Branch Actor

This workflow has a workflow_dispatch event trigger. Run workflow

- ✓ **create review app**
create review app #118: Manually run by hasura-bot
- ✓ **create review app**
create review app #117: Manually run by hasura-bot
- ✓ **create review app**
create review app #116: Manually run by hasura-bot
- ✗ **create review app**
create review app #115: Manually run by hasura-bot

Use workflow from

Branch: main

Link to the pull request in oss/mono repo *

Commit SHA (default will be the latest commit in PR)

Run workflow



```
1 name: create review app
2
3 on:
4   workflow_dispatch:
5     inputs:
6       prLink:
7         description: 'Link to the pull request in oss/mono repo'
8         required: true
9       commitSha:
10        description: 'Commit SHA (default will be the latest commit in PR)'
11        required: false
12
13 jobs:
14   review-app:
15     runs-on: ubuntu-20.04
16     steps:
17     - name: Extract pull request details
18       env:
19         PR_LINK: ${ github.event.inputs.prLink }
20         COMMIT_SHA: ${ github.event.inputs.commitSha }
21       run: |
22         echo "Extracting pull request details for ${PR_LINK}"
23         # .....
24
```

Use workflow from

Branch: main ▾




Link to the pull request in oss/mono repo *

Commit SHA (default will be the latest commit in PR)

Run workflow







Create review app

 **hasura-bot** commented 15 days ago Member  

Beep boop! 📢


Attempting to deploy review app for this pull request. ([deploy log](#))


(progress will be updated on this comment)

 **hasura-bot** commented 6 hours ago • edited   

Beep boop! 📢

I deployed a review app for you to try out this pull request 📢

 Docker image: `hasurabuild/graphql-engine:mono-pr-684-5f721c028`

 Heroku app: <https://hge-mono-pr-684.herokuapp.com>



Time to build on top of it! 🙌



Slash commands (via API)



scriptnull commented 2 minutes ago



/heroku deploy



hasura-bot commented 2 minutes ago • edited ▾



Beep boop! 🐸

I deployed a review app for you to try out this pull request 📌

🔗 Docker image: `hasurabuild/graphql-engine:mono-pr-524-147b96e09`

📄 Heroku app: <https://hge-mono-pr-524.herokuapp.com>



Internal/Dev Tools @ Hasura

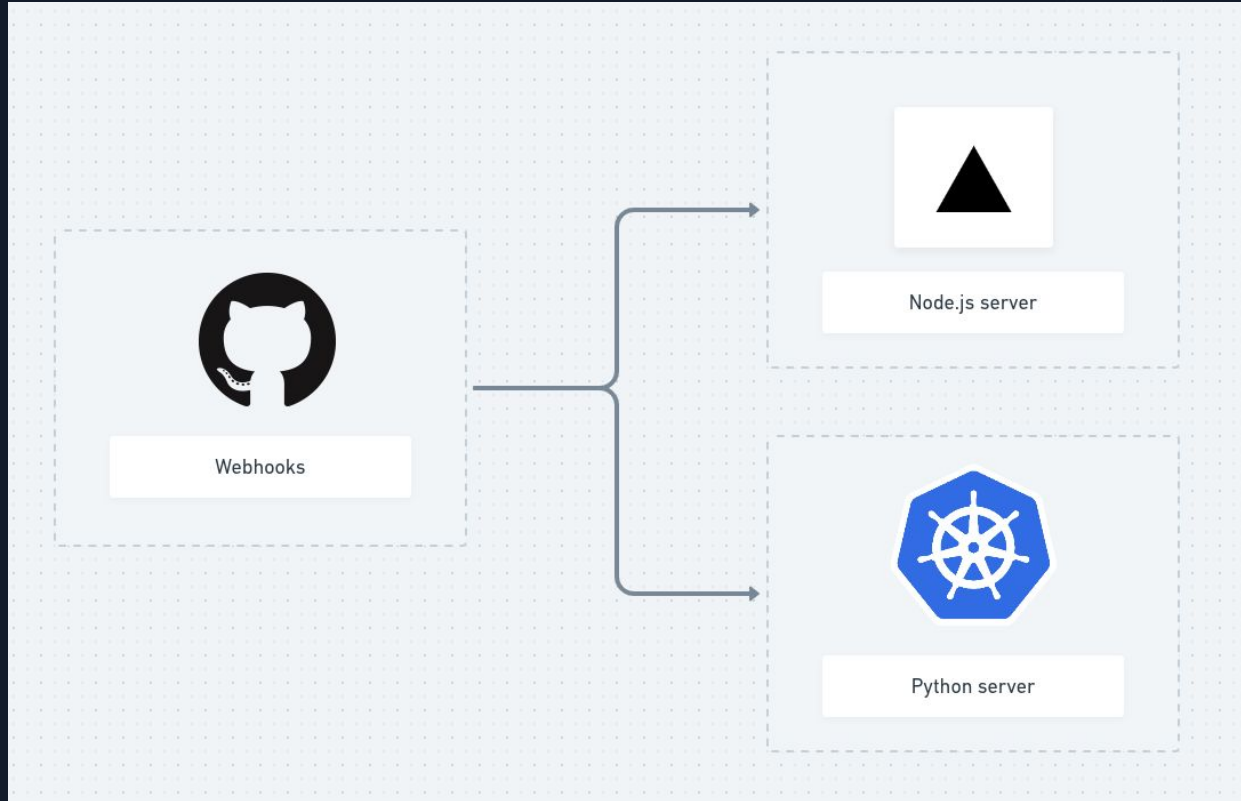
- Review App for pull requests
- Pull Request Shadower (from OSS repo to monorepo and vice versa)
- Comment Bot for OSS pull requests
- Changelog checker
- Image builder
- etc.

Most of them are workflow dispatches

But why? 🤔

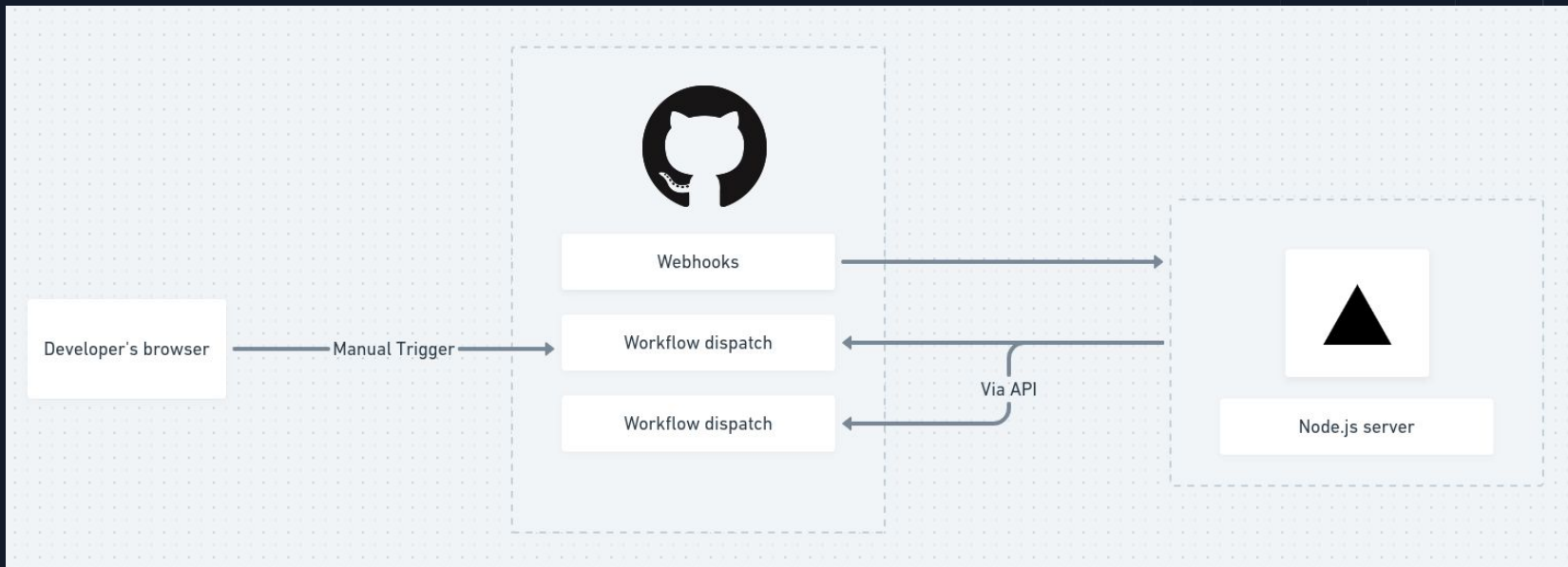


Prior Art





Current state of art

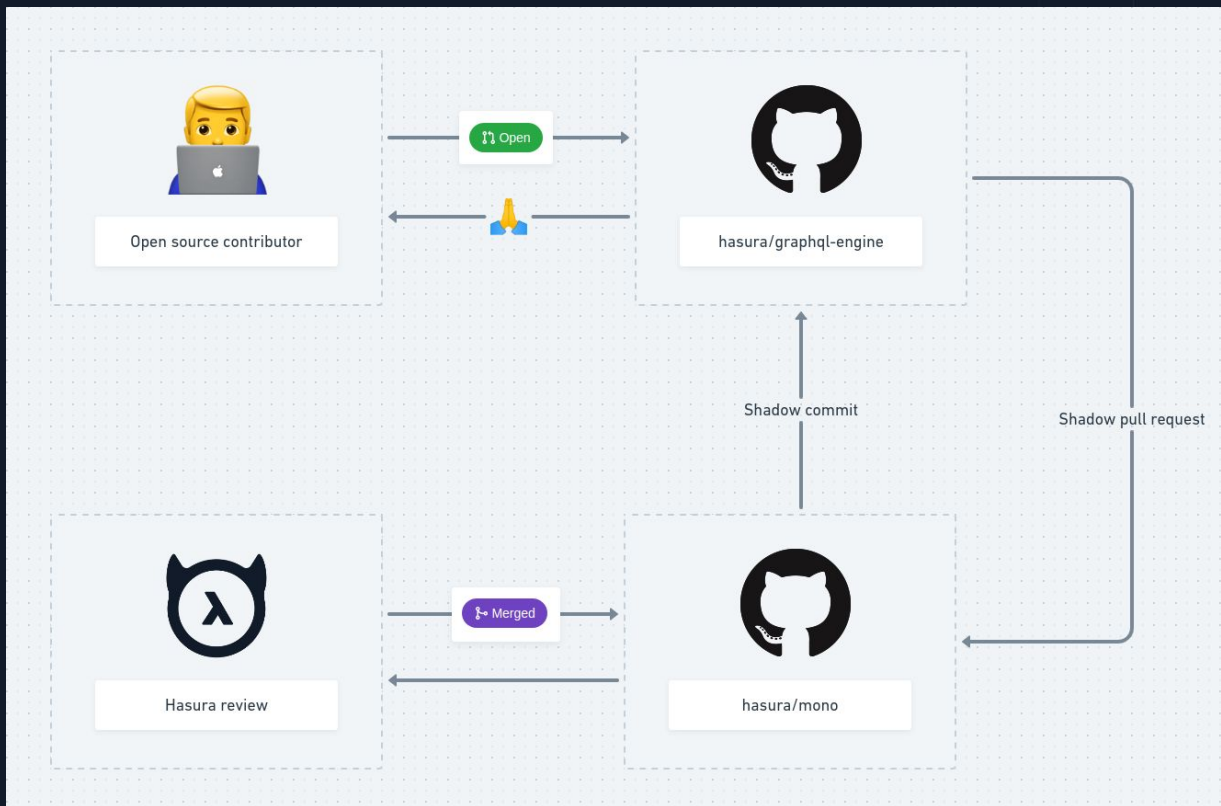




The past, present, and future problem



Hasura OSS and Monorepo code sync





Dev Tool: Pull request Shadower

Past	Shadow already opened pull requests
Present	Shadow pull request for early adopters
Future	Automatically shadow future pull requests



	on: pull_request	on: workflow_dispatch
Shadow already existing PR	✗	✓
Shadow only for early adopters	✗	✓
Auto-Shadow for new PR	✓	✓
Reruns and hot fixes	OK	🔥



Branch based workflows

Use workflow from

Branch: fix-bug ▾

Link to the pull request in oss/mono repo *

Commit SHA (default will be the latest commit in PR)

Run workflow

Use workflow from

Branch: feature-branch ▾

Link to the pull request in oss/mono repo *

Commit SHA (default will be the latest commit in PR)

Run workflow

Summary



Workflow dispatch is awesome 700 Give it a try 🛠️



Thank you

