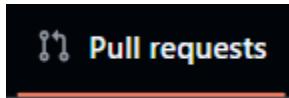


# Guia paso a paso: GitHub Actions

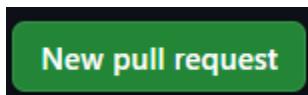
Hello GitHub Actions: <https://github.com/JCARL0/skills-hello-github-actions>

## Parte 1-

Ve a la pestaña Pull Requests del repositorio..



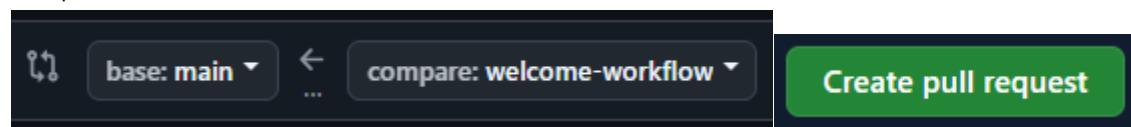
Haz clic en "New pull request".



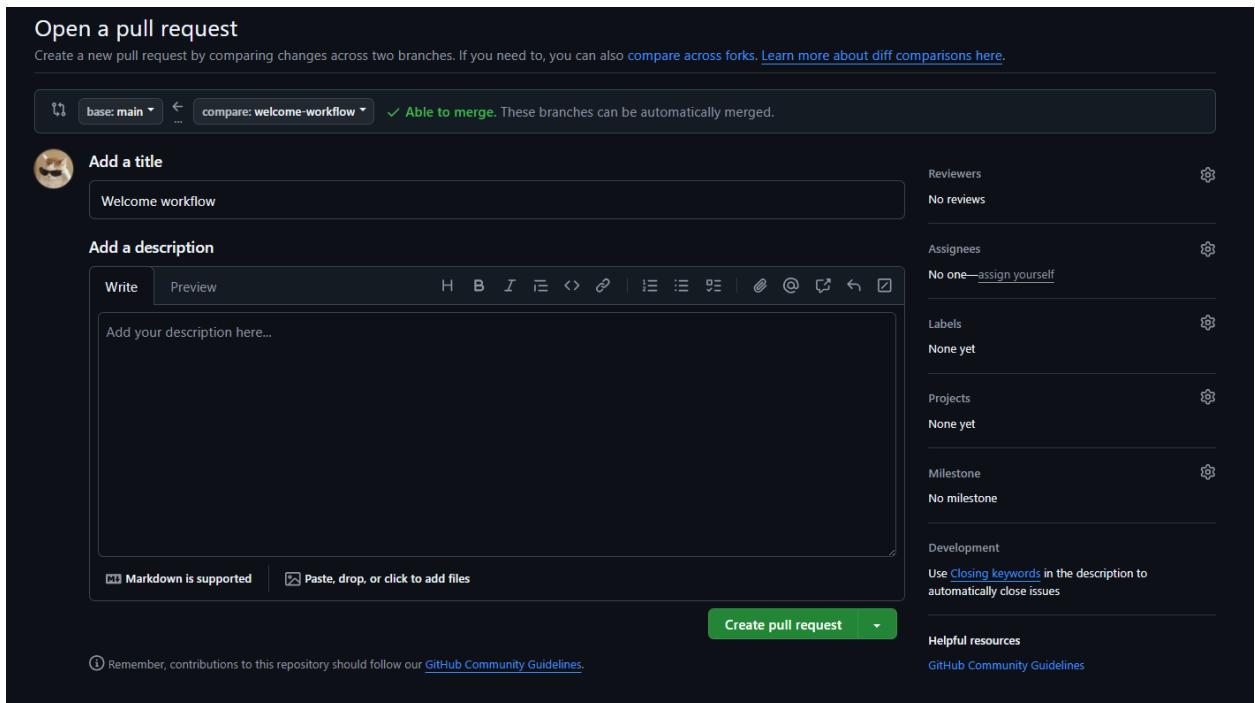
Crea un nuevo pull request desde la rama welcome-workflow hacia la rama main.

Base: main

Compare: welcome-workflow



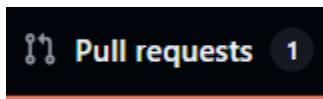
Dale click al create pull requests dos veces para confirmar los cambios



The screenshot shows the 'Open a pull request' interface on GitHub. The top bar has 'base: main' and 'compare: welcome-workflow'. Below it, a message says 'Able to merge. These branches can be automatically merged.' The main area has fields for 'Add a title' (containing 'Welcome workflow') and 'Add a description' (with a rich text editor placeholder 'Add your description here...'). To the right, there are sections for 'Reviewers' (No reviews), 'Assignees' (No one—assign yourself), 'Labels' (None yet), 'Projects' (None yet), 'Milestone' (No milestone), 'Development' (with a note about closing keywords), and 'Helpful resources' (GitHub Community Guidelines). At the bottom, a note says 'Markdown is supported' and 'Paste, drop, or click to add files', with a 'Create pull request' button.

## Parte 2-

Volvemos al pull request



Cambia la rama al welcome-workflow y navegamos en la carpeta siguiente

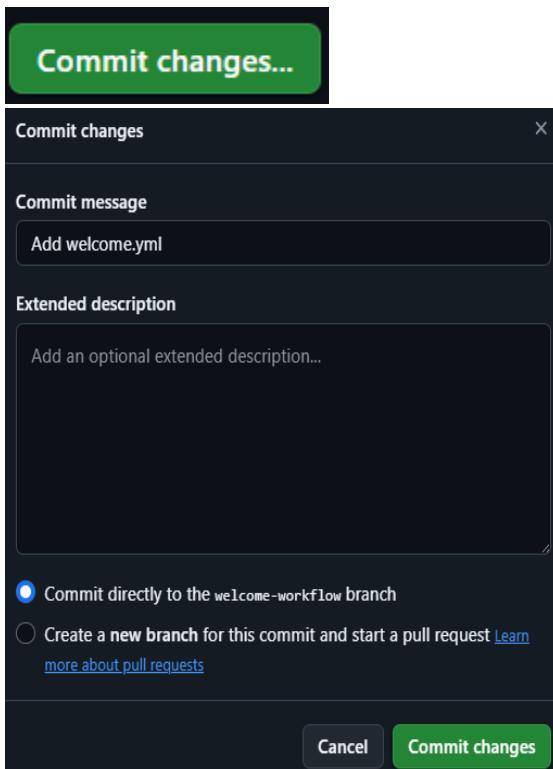


Creamos un nuevo fichero llamado welcome.yaml con el siguiente contenido

```
1 name: Post welcome comment
2 on:
3   pull_request:
4     types: [opened]
5   permissions:
6     pull-requests: write
```

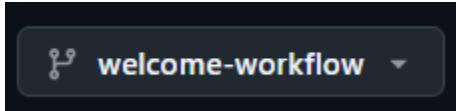
A screenshot of the GitHub 'Add file' dialog. A new file named 'welcome.yaml' is being created. The file contains the following YAML code:

Dale commit directo a la rama welcome-workflow



PT2

Asegura que la rama este en welcome-workflow



Editaremos el fichero welcome.yaml con siguiente contenido

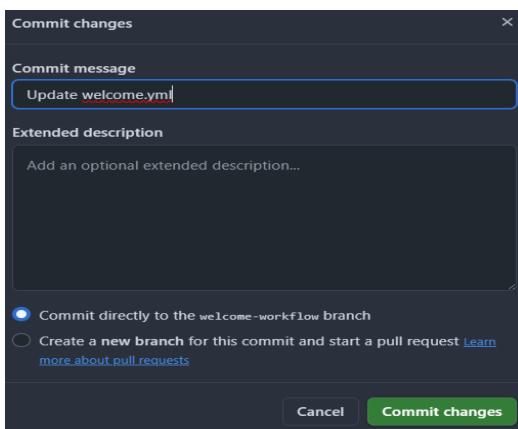


Icono para editar el fichero



```
1   name: Post welcome comment
2   on:
3     pull_request:
4       types: [opened]
5   permissions:
6     pull-requests: write
7   jobs:
8     build:
9       name: Post welcome comment
10      runs-on: ubuntu-latest
```

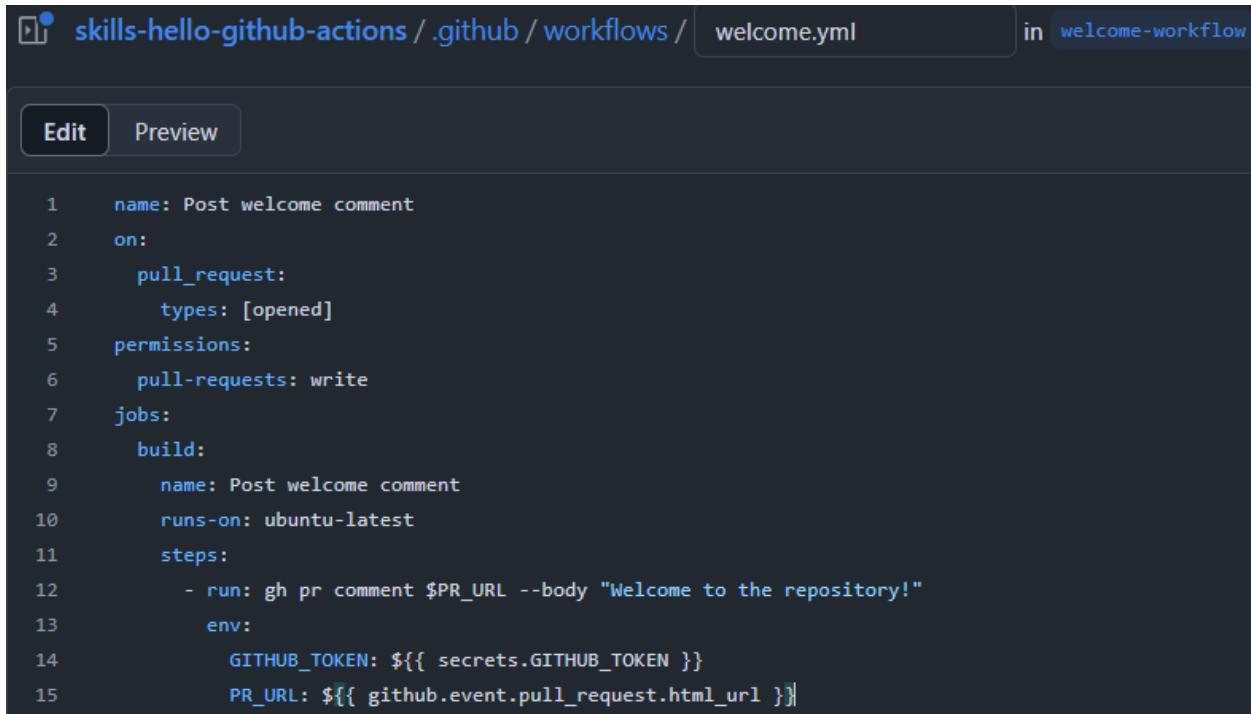
Una vez editada confirmamos los cambios



PT3

PT3

Vuelve editar el fichero con los cambios siguientes

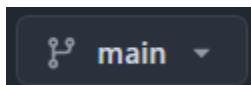


The screenshot shows the GitHub Actions workflow editor for the repository 'skills-hello-github-actions'. The workflow file is 'welcome.yml' and it is part of the 'welcome-workflow'. There are two tabs at the top: 'Edit' (selected) and 'Preview'. The code in 'welcome.yml' is as follows:

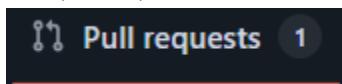
```
1  name: Post welcome comment
2  on:
3    pull_request:
4      types: [opened]
5  permissions:
6    pull-requests: write
7  jobs:
8    build:
9      name: Post welcome comment
10     runs-on: ubuntu-latest
11     steps:
12       - run: gh pr comment $PR_URL --body "Welcome to the repository!"
13     env:
14       GITHUB_TOKEN: ${{ secrets.GITHUB_TOKEN }}
15       PR_URL: ${{ github.event.pull_request.html_url }}
```

PT4

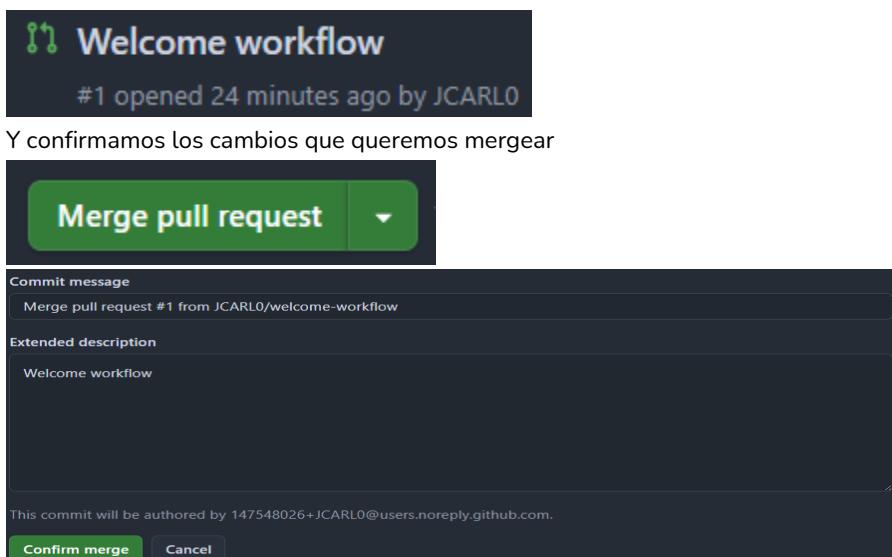
Hacemos merge desde la rama main



Ve a pull requests



Selecciona Welcome Workflow



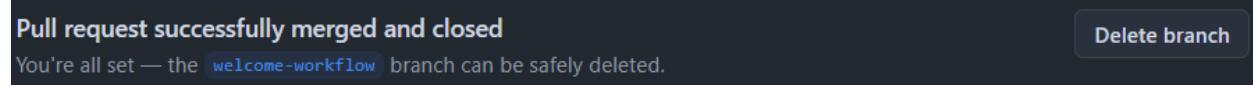
The screenshot shows the 'Merge pull request' dialog. At the top, it says 'Merge pull request #1 from JCARLO/welcome-workflow'. Below that is an 'Extended description' field containing 'Welcome workflow'. At the bottom, there is a note: 'This commit will be authored by 147548026+JCARLO@users.noreply.github.com.' and two buttons: 'Confirm merge' and 'Cancel'.

Resultado final despues de meargear

Pull request successfully merged and closed

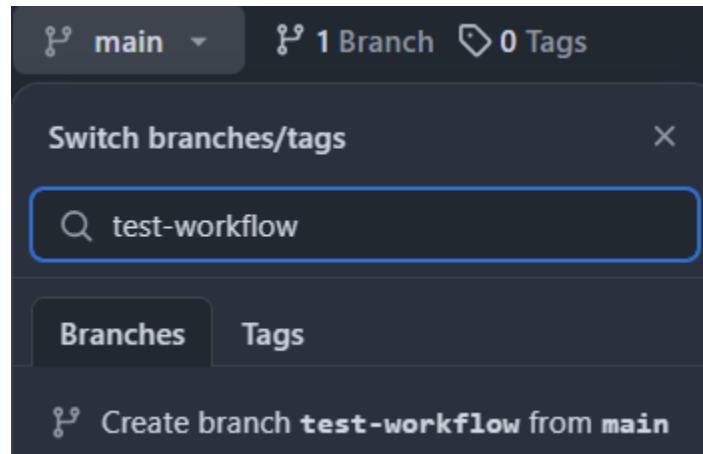
You're all set — the `welcome-workflow` branch can be safely deleted.

Delete branch



PT5

Creamos una nueva rama llamado test-workflow



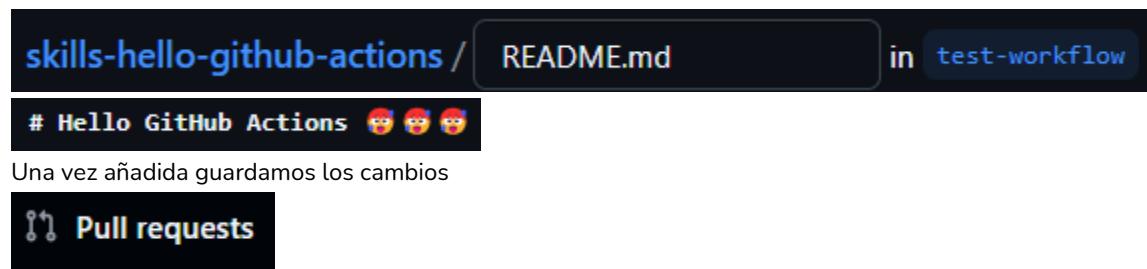
Switch branches/tags

test-workflow

Branches Tags

Create branch `test-workflow` from `main`

Editaremos el readme añadiendo emoticonos



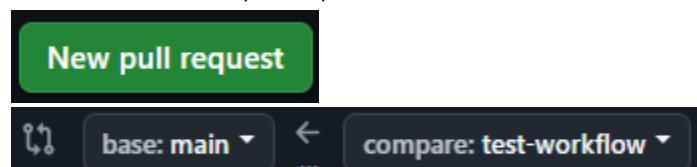
skills-hello-github-actions / README.md in test-workflow

# Hello GitHub Actions 😊😊😊

Una vez añadida guardamos los cambios

Pull requests

Añadimos una nueva pull request



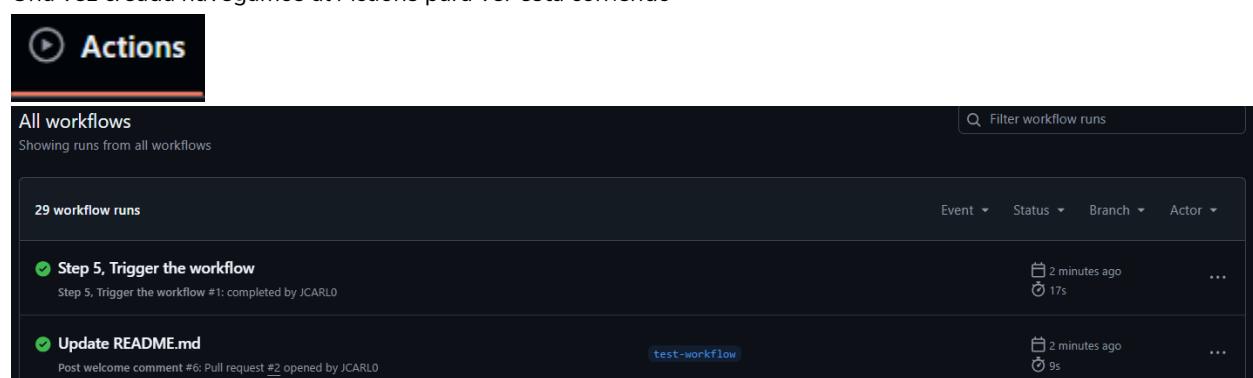
New pull request

base: main compare: test-workflow

Base: main

compare: test-workflow

Una vez creada navegamos al Actions para ver esta corriendo



All workflows

29 workflow runs

Event Status Branch Actor

Step 5, Trigger the workflow Step 5. Trigger the workflow #1: completed by JCARLO 2 minutes ago 17s ...

Update README.md Post welcome comment #6: Pull request #2 opened by JCARLO test-workflow 2 minutes ago 9s ...

FIN

# Hello GitHub Actions

*Create and run a GitHub Actions workflow.*

## Finish

*Congratulations friend, you've completed this course!*

Here's a recap of all the tasks you've accomplished in your repository:

- You've created your first GitHub Actions workflow file.
- You learned where to make your workflow file.
- You defined an event trigger, a job, and a step for your workflow.
- You're ready to automate anything you can dream of.

## What's next?

- Learn more about GitHub Actions by reading "[Learn GitHub Actions](#)"
- Use actions created by others in [awesome-actions](#)
- We'd love to hear what you thought of this course [in our discussion board](#)
- [Take another course on GitHub Actions](#)
- Learn more about GitHub by reading the "[Get started](#)" docs
- To find projects to contribute to, check out [GitHub Explore](#)



**Test with Actions:** <https://github.com/JCARL0/skills-test-with-actions>

PT1

Añadimos un nuevo test

Dale new workflow y buscamos Simple Workflow

New workflow

## 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 →](#)

**Categories**

- Deployment
- Security
- Continuous integration
- Automation
- Pages

Q Simple workflow ×

Found 2 workflows

<b>Simple workflow</b> By GitHub Start with a file with the minimum necessary structure. <a href="#">Configure</a>	<b>Manual workflow</b> By GitHub Actions Simple workflow that is manually triggered. <a href="#">Configure</a> Automation ●
---	--

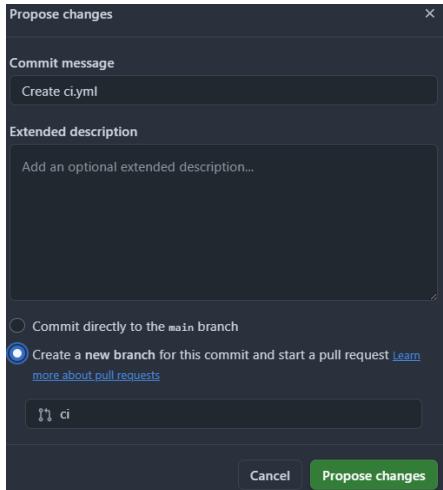
En .github/workflows creamos un nuevo fichero workflow llamado ci.yml

skills-test-with-actions / .github / workflows / ci.yml in main

Añade el siguiente contenido al fichero

```
run: |
  npm install remark-cli remark-preset-lint-consistent
  npx remark . --use remark-preset-lint-consistent --frail
```

Confirmamos los cambios y creando una nueva rama llamado ci



## PT2

### Arreglamos el workflow

Step 2, Fix the test  
2-fix-the-test.yml

1 workflow run

This workflow has a `workflow_dispatch` event trigger.

Step 2, Fix the test #1: Manually run by JCARLO

Run workflow

↳ Step 2, Fix the test

✓ Step 2, Fix the test #1

Summary

Jobs

- ✓ Check current step number
- ✓ On fix test

Run details

Usage

Workflow file

2-fix-the-test.yml  
on: workflow\_dispatch

```
graph LR; A[Check current step number] --> B[On fix test]
```

## PT3

Test error

The screenshot shows a GitHub repository page for 'skills-test-with-actions'. The user 'JCARLO' has updated the 'ci.yml' file. The code in the file is as follows:

```
1 build:
2   runs-on: ubuntu-latest
3   steps:
4     - uses: actions/checkout@v4
5
6     - name: Run markdown lint
7       run: |
8         npm install remark-cli remark-preset-lint-consistent vfile-reporter-json
9         npx remark . --use remark-preset-lint-consistent --report vfile-reporter-json 2> remark-lint-report.json
10
11    - uses: actions/upload-artifact@v4
12      with:
13        name: remark-lint-report
14        path: remark-lint-report.json
```

## PT4

Añadimos una regla en las ramas

The screenshot shows the GitHub repository settings page. Under the 'Branches' tab, there is a section titled 'Branch protection rules'. A message states: 'Classic branch protections have not been configured. Define branch rules to disable force pushing, prevent branches from being deleted, or require pull requests before merging.' Below this message are two buttons: 'Add branch ruleset' and 'Add classic branch protection rule'. The rest of the settings page includes sections for General, Access, Collaborators, Moderation options, Code and automation, Security, and Integrations.

Haz click al "add classic branch protection rule"

 **Classic branch protections have not been configured**  
Define branch rules to disable force pushing, prevent branches from being deleted, or require pull requests before merging.  
Learn more about [repository rules](#) and [protected branches](#).

[Add branch ruleset](#) [Add classic branch protection rule](#)

Añade el nombre de la rama principal

**Branch name pattern \***

main

- Require a pull request before merging
- Require approvals
- Require status checks to pass before merging

**Protect matching branches**

**Require a pull request before merging**  
When enabled, all commits must be made to a non-protected branch and submitted via a pull request before they can be merged into a branch that matches this rule.

**Require approvals**  
When enabled, pull requests targeting a matching branch require a number of approvals and no changes requested before they can be merged.

**Dismiss stale pull request approvals when new commits are pushed**  
New reviewable commits pushed to a matching branch will dismiss pull request review approvals.

**Require review from Code Owners**  
Require an approved review in pull requests including files with a designated code owner.

**Require approval of the most recent reviewable push**  
Whether the most recent reviewable push must be approved by someone other than the person who pushed it.

**Require status checks to pass before merging**  
Choose which [status checks](#) must pass before branches can be merged into a branch that matches this rule. When enabled, commits must first be pushed to another branch, then merged or pushed directly to a branch that matches this rule after status checks have passed.

**Require branches to be up to date before merging**  
This ensures pull requests targeting a matching branch have been tested with the latest code. This setting will not take effect unless at least one status check is enabled (see below).

Q Search for status checks in the last week for this repository

No required checks

No checks have been added

**Branch protection rules** [Add rule](#)

main Currently applies to 1 branch [Edit](#) [Delete](#)

Ve a [branch para guardar los cambios](#)



PT5

1. Ve en Pull requests
2. Click Merge pull request

Pull requests 1

Create ci.yml #1 opened 44 minutes ago by JCARLO

Merge pull request

FIN

## Test with Actions

*Create workflows that enable you to use Continuous Integration (CI) for your projects.*

### Finish

*Congratulations friend, you've completed this course!*

Here's a recap of all the tasks you've accomplished in your repository:

- We created an Actions workflow to lint our Markdown files.
- You caught an issue in a file and fixed the issue before it could make it to `main`.
- You learned how to use build artifacts for test reports.
- You enabled branch protections to require the workflow to pass before merging.



### What's next?

- Get more ideas of what you can do with [awesome actions](#).
- We'd love to hear what you thought of this course [in our discussion board](#).
- [Take another GitHub Skills course](#).
- [Read the GitHub Getting Started docs](#).
- To find projects to contribute to, check out [GitHub Explore](#).

**Write JavaScript actions:** <https://github.com/JCARL0/skills-write-javascript-actions>

PT1

Abre el terminal o command prompt

```
C:\Users\Jcarl\Documents\M8UF4PF>git clone https://github.com/JCARL0/skills-write-javascript-actions.git
Cloning into 'skills-write-javascript-actions'...
remote: Enumerating objects: 32, done.
remote: Counting objects: 100% (32/32), done.
remote: Compressing objects: 100% (28/28), done.
remote: Total 32 (delta 7), reused 13 (delta 1), pack-reused 0 (from 0)
Receiving objects: 100% (32/32), 16.93 KiB | 1.21 MiB/s, done.
Resolving deltas: 100% (7/7), done.
```

```
C:\Users\Jcarl\Documents\M8UF4PF>cd skills-write-javascript-actions
```

Cambia el Branch a main

```
C:\Users\Jcarl\Documents\M8UF4PF\skills-write-javascript-actions>git switch main
Already on 'main'
Your branch is up to date with 'origin/main'.
```

Crear una nueva carpeta en github/actions/joke-action

```
C:\Users\Jcarl\Documents\M8UF4PF\skills-write-javascript-actions>mkdir .github\actions\joke-action
npm init -y para inicializar el proyecto
```

Instalar request, request-promise and @actions/core dependencies usando npm

```
C:\Users\Jcarl\Documents\M8UF4PF\skills-write-javascript-actions\.github\actions\joke-action>npm install --save request request-promise @actions/core
hacemos commit para añadir los nuevos ficheros al nuestro repositorio
C:\Users\Jcarl\Documents\M8UF4PF\skills-write-javascript-actions\.github\actions\joke-action>git add .
C:\Users\Jcarl\Documents\M8UF4PF\skills-write-javascript-actions>git commit -m "add project dependencies"
C:\Users\Jcarl\Documents\M8UF4PF\skills-write-javascript-actions>git push
```

PT2

Creacion de un nuevo fichero en ".github/actions/joke-action/action.yml"

```
! action.yml U ●
skills-write-javascript-actions > .github > actions > joke-action > ! action.yml
  1   name: "my joke action"
  2
  3   description: "use an external API to retrieve and display a joke"
  4
  5   runs:
  6     using: "node16"
  7     main: "main.js"
```

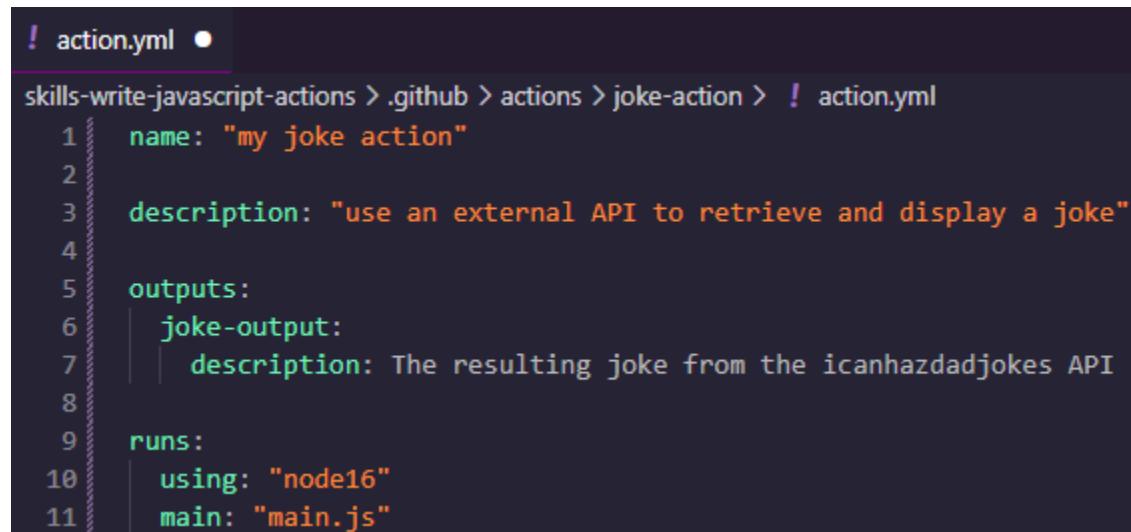
Confirme los cambios

```
PS C:\Users\Jcarl\Documents\M8UF4PF\skills-write-javascript-actions\.github\actions\joke-action> git add action.yml
PS C:\Users\Jcarl\Documents\M8UF4PF\skills-write-javascript-actions\.github\actions\joke-action> git commit -m 'create action.yml'
[main 0327cf5] create action.yml
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 .github/actions/joke-action/action.yml
PS C:\Users\Jcarl\Documents\M8UF4PF\skills-write-javascript-actions\.github\actions\joke-action> git pull
```

```
PS C:\Users\Jcarl\Documents\M8UF4PF\skills-write-javascript-actions\.github\actions\joke-action> git push
fatal: unable to connect to cache daemon: Unknown error
Enumerating objects: 17, done.
Counting objects: 100% (15/15), done.
Delta compression using up to 12 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (9/9), 1.04 KiB | 353.00 KiB/s, done.
Total 9 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To https://github.com/JCARL0/skills-write-javascript-actions.git
  8f285c3..5df0770  main -> main
```

PT3

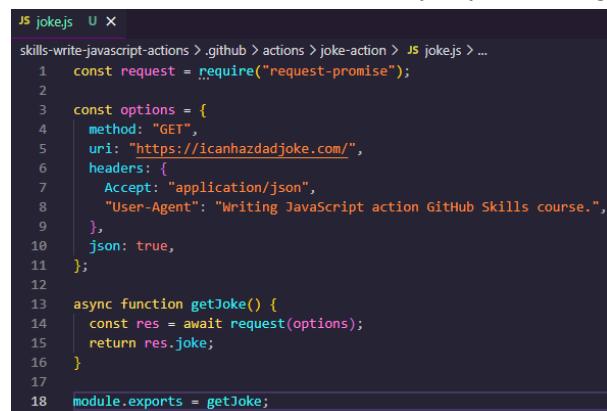
Edita el ".github/actions/joke-action/action.yml" y guarda los cambios



```
! action.yml •
skills-write-javascript-actions > .github > actions > joke-action > ! action.yml
1 name: "my joke action"
2
3 description: "use an external API to retrieve and display a joke"
4
5 outputs:
6   joke-output:
7     description: The resulting joke from the icanhazdadjokes API
8
9 runs:
10   using: "node16"
11   main: "main.js"
```

PT4

Creacion de un nuevo fichero llamado joke.js con los siguientes contenidos



```
joke.js  U X
skills-write-javascript-actions > .github > actions > joke-action > joke.js > ...
1 const request = require("request-promise");
2
3 const options = {
4   method: "GET",
5   uri: "https://icanhazdadjoke.com/",
6   headers: {
7     Accept: "application/json",
8     "User-Agent": "Writing JavaScript action GitHub Skills course.",
9   },
10  json: true,
11};
12
13 async function getJoke() {
14   const res = await request(options);
15   return res.joke;
16 }
17
18 module.exports = getJoke;
```

Creacion un nuevo fichero llamado main.js con los siguientes contenidos

```
JS main.js U X  
skills-write-javascript-actions > .github > actions > joke-action > JS main.js > ...  
1 const getJoke = require("./joke");  
2 const core = require("@actions/core");  
3  
4 √ async function run() {  
5   const joke = await getJoke();  
6   console.log(joke);  
7   core.setOutput("joke-output", joke);  
8 }  
9  
10 run();
```

PT5

Edita el fichero "my-workflow.yml" y hacer commit directamente al Branch main

The screenshot shows the GitHub workflow editor interface. At the top, it displays the repository path: skills-write-javascript-actions / .github / workflows / my-workflow.yml in the main branch. Below this, there are two tabs: 'Edit' (which is selected) and 'Preview'. The code editor contains the following YAML configuration:

```
1 name: JS Actions  
2  
3 on:  
4   issues:  
5     types: [labeled]  
6  
7 jobs:  
8   action:  
9     if: ${{ !github.event.repository.is_template }}  
10    runs-on: ubuntu-latest  
11  
12 steps:  
13   - uses: actions/checkout@v4  
14   - name: ha-ha  
15     uses: ./github/actions/joke-action
```

The screenshot shows the 'Commit changes' dialog box. It has the following fields and options:

- Commit message:** A text input field containing the text "Update my-workflow.yml".
- Extended description:** A text area with placeholder text "Add an optional extended description...".
- Branch selection:** A radio button group where the first option, "Commit directly to the main branch", is selected (indicated by a blue dot).
- Other options:** An unselected radio button for "Create a new branch for this commit and start a pull request" followed by a link "Learn more about pull requests".
- Buttons:** Two buttons at the bottom: "Cancel" and "Commit changes" (which is highlighted in green).

PT6

Trigger joke action

A screenshot of a GitHub Issues page. It shows two issues listed:

- issue #2** (`second joke`)  
#3 · JCARL0 opened now
- issue #1** (`first joke`)  
#2 · JCARL0 opened 1 minute ago

## Write JavaScript Actions

*Write your own GitHub JavaScript Action and automate customized tasks unique to your workflow.*

### Finish

**Congratulations, you've completed this course!**

In this course, you've learned a lot about developing custom actions using JavaScript and Actions Toolkit.



### Publishing your actions

Publishing your actions is a great way to help others in your team and across the GitHub community. Although actions do not need to be published to be consumed, by adding them to the marketplace you make them easier to find.

Some notable actions you will find on the marketplace are:

- [Actions for Discord](#)
- [GitHub Action for Slack](#)
- [Jekyll action](#)
- [Run Jest](#)

And that just scratches the surface of the 1600+ and counting actions you will find on the marketplace

Follow [this guide](#) to learn how to publish your actions to the GitHub Marketplace

### What's next?

- [Take another GitHub Skills course.](#)
- We'd love to hear what you thought of this course in our [discussion board](#).
- [Read the GitHub Getting Started docs.](#)
- To find projects to contribute to, check out [GitHub Explore](#).