

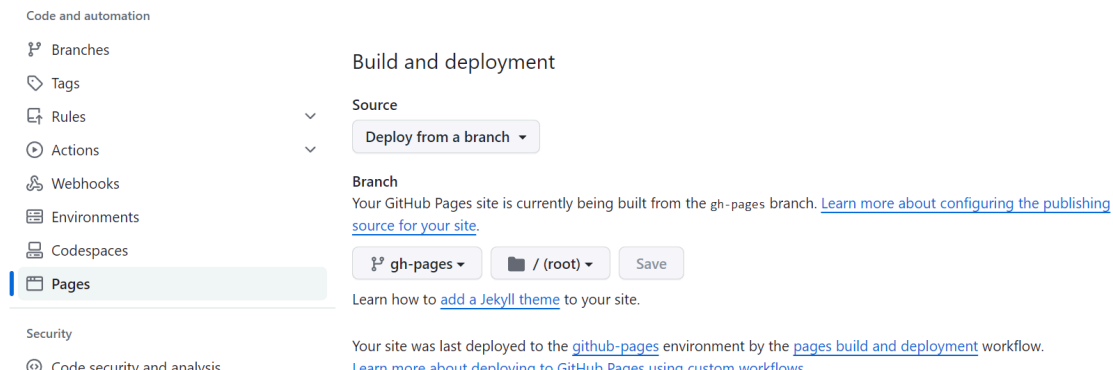
TP04 - Github Actions

Please read all the subject carefully before starting

A. Context

Today you will create an application, decide on a Gitflow, design a CI/CD pipeline, and deploy the application on Github Pages.

- You will version your project on Github
- Your app will be a react app featuring Chrome Dino Game
- Your repository must be public (otherwise you will have to switch to a paid Github account)
- You will have to create two workflow yamls. One for app building on all branches, and one for the app deploy on Github Pages.
- To deploy on Github Pages, you will have to use gh-pages. This library includes a script that will compile your project into a static website on a branch called “gh-pages”. Ex: you want to deploy from master branch, to the deploy workflow yaml should be triggered on master branch, execute gh-pages script to compile on gh-pages branch, that will be deployed on Github Pages.
- You must have a branch called “**gh-pages**”, and you must go to your repo settings, and activate Pages on this branch :



B. Steps

- Create a React app : <https://react.dev/learn/start-a-new-react-project>
- Implement <https://www.npmjs.com/package/react-chrome-dino>
- By default, Github Pages does not accept React apps. You must compile the app into static code thanks to <https://www.npmjs.com/package/gh-pages> , <https://github.com/gitname/react-gh-pages>
- Start you app, check that it works
 - If Dino appears twice, remove <React.StrictMode> from index.js
- Create a Github public repository with your chosen git flow
- Create two <workflows>.yaml

Hints :

- You might (depending of your choices) need these actions :
 - `actions/checkout@v4`
 - `actions/setup-node@v4`

For deploy job, you must use :

- `actions/upload-pages-artifact@v2`
- `actions/deploy-pages@v3`

(There a a lot of packages available on the Internet but they are not all compatible one with another)

Troubleshoot :

- Ensure `GITHUB_TOKEN` has permission "id-token: write".

add this to your deploy yaml :

```
permissions:  
  contents: read  
  pages: write  
  id-token: write
```

- No artifact found.

The screenshot shows the GitHub 'Environments' configuration page for the 'gh-pages' environment. The left sidebar contains a navigation menu with categories: General, Access, Code and automation, Security, and Integrations. The 'Environments' item is selected. The main content area is titled 'Environments / Configure github-pages' and includes sections for 'Deployment protection rules' (with checkboxes for 'Required reviewers' and 'Wait timer', and a link to 'Enable custom rules with GitHub Apps'), 'Allow administrators to bypass configured protection rules' (checked), 'Save protection rules' button, 'Deployment branches and tags' (showing '2 branches and 0 tags allowed' with a table listing 'gh-pages' and 'main' branches), and an 'Add deployment branch or tag rule' button.

2 branches and 0 tags allowed	
gh-pages	Currently applies to 1 branch Edit Remove
main	Currently applies to 1 branch Edit Remove

Add the deploy branch (for instance master here), to your gh-pages environment.

C. Next steps

Have fun editing your app on feature branches, merge and deploy them !