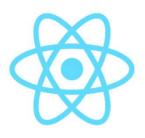




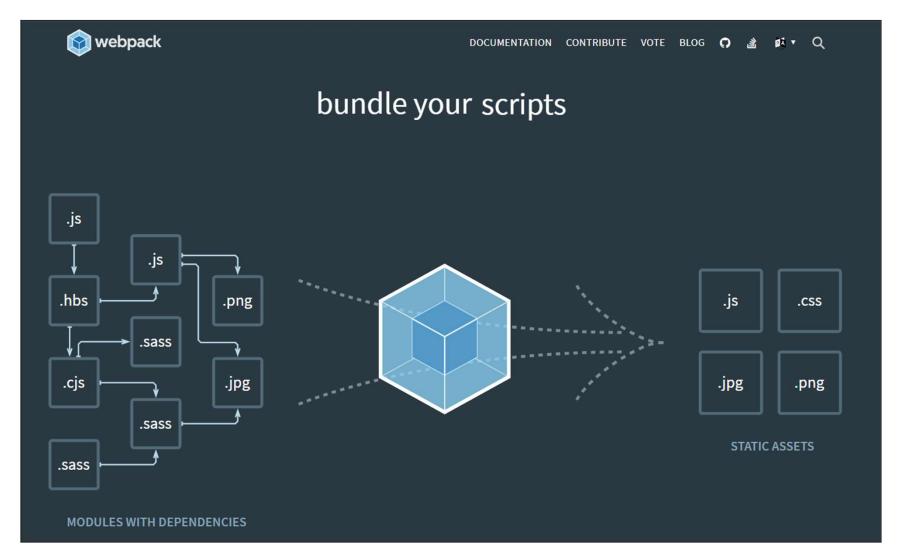
React Fundamentals Module - Deployment



Peter Kassenaar – info@kassenaar.com

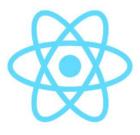


"npm run build creates a build directory with a production build of your app. Inside the build/static directory will be your JavaScript and CSS files. Each filename inside of build/static will contain a unique hash of the file contents."



https://webpack.js.org/

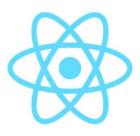
Deployment



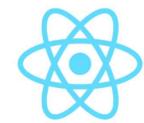
- So, deployment is a task of Create React App
- CRA has a script prepared for that

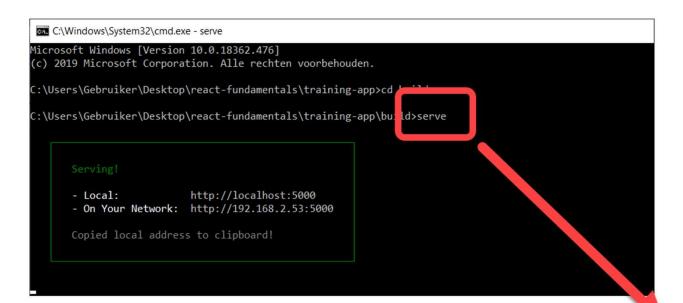
npm run build

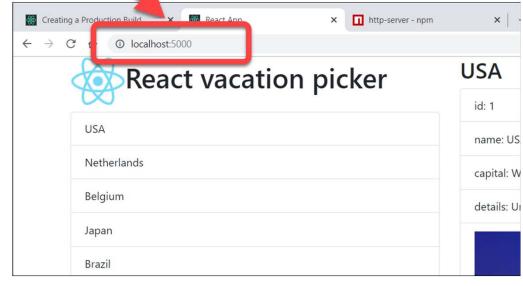
Local http-server



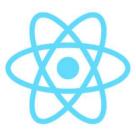
- Deploy the contents of the /build directory to a webserver
- Local, command line webserver; options:
- npm install serve -g
 - cd into the directory and type serve -s
 - Content is hosted at http://localhost:5000
- npm install http-server -g
 - cd into the build directory and type http-server
 - Content is hosted at http://localhost:8080



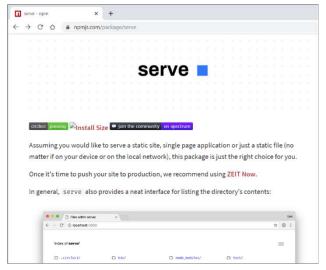




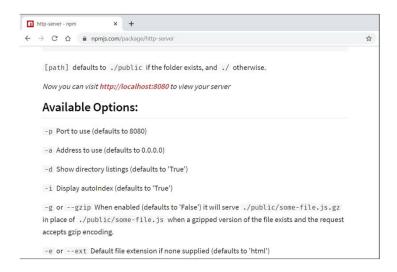
Options



- The flag -s redirects all requests to index.html (for a Single Page Application)
- See other options in online documentation

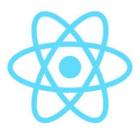


https://www.npmjs.com/package/serve

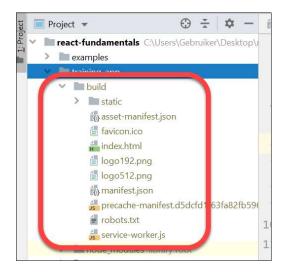


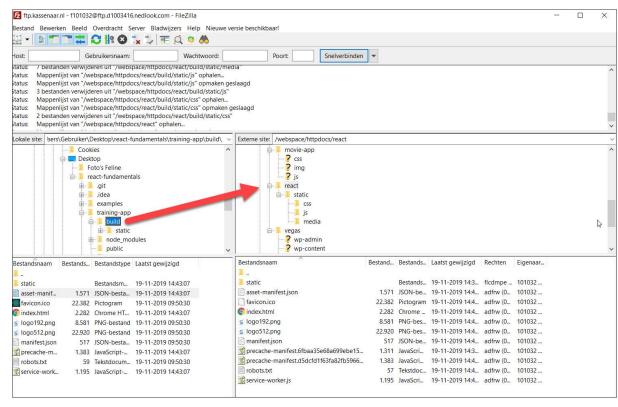
https://www.npmjs.com/package/http-server

To online production server

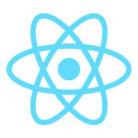


Just copy or FTP the contents of the \build folder to your production server

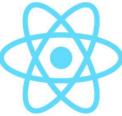




Deploying to a subfolder

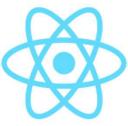


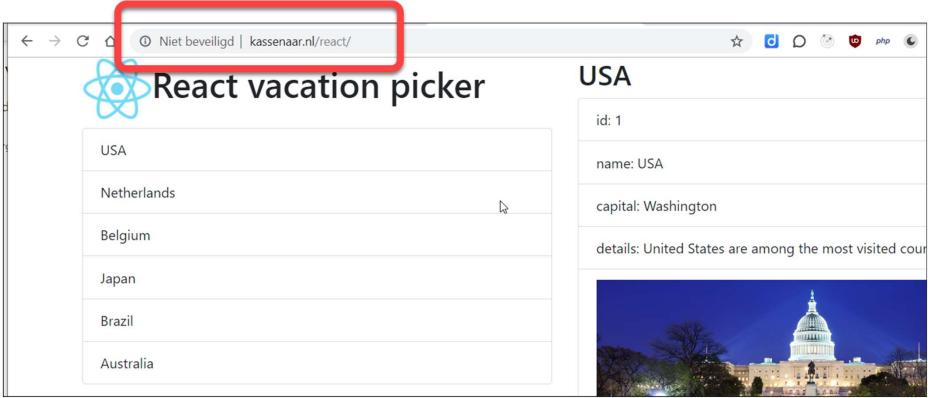
- Update the <base href="/subFolderName/"> in your index.html
- Best practice:
 - 1. add a "homepage": "name" to package.json
 - 2. add <base href="%PUBLIC_URL%/"> to index.html
- Build again
- Deploy to subfolder



```
index.html ×
n package.json ×
        "name": "hello-react",
2
        "version": "0.1.0",
3
        "homepage": "/react/",
5
        "dependencies". {
6
          "bootstrap": "^4.3.1",
7
          "jquery": "^3.4.1",
8
         "popp nackage.json × index.html ×
9
          "reac
                       <!DOCTYPE html>
10
          "reac
                       <html lang="en">
                          <head>
                            <base href="%PUBLIC_URL%/">
                            <unk rel="icon" nret="%PUBLIC_URL%/favicon.ico" /> ;
                            <meta name="viewport" content="width=device-width, init
                             (meta name="theme-color" content="#000000" />
```

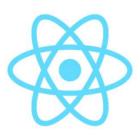
Result





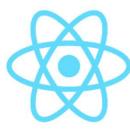
More info: https://skryvets.com/blog/2018/09/20/an-elegant-solution-of-deploying-react-app-into-a-subdirectory/

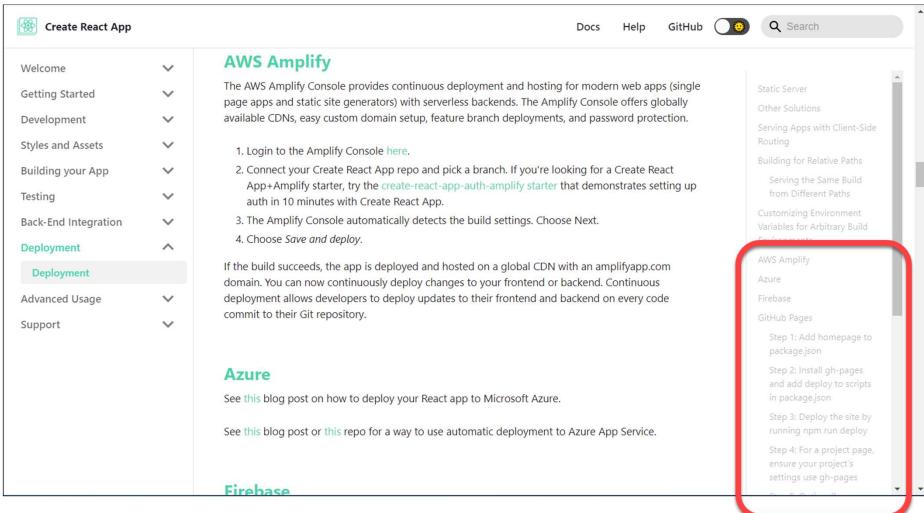
When using HTML5 mode for routing



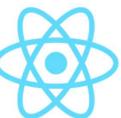
- When using history.pushState (or HTML5 mode) for routing,
 the server needs to rewrite all requests to the index.html file
- This purely depends on the server you are using
 - Apache use mod rewrite
 - Nginx use configuration rule
 - Internet Information Server install UrlRewrite and update web.config
- See https://create-react-app.dev/docs/deployment/#static-server
 server for detailed information
 - Lots of options and online hosting parties are described

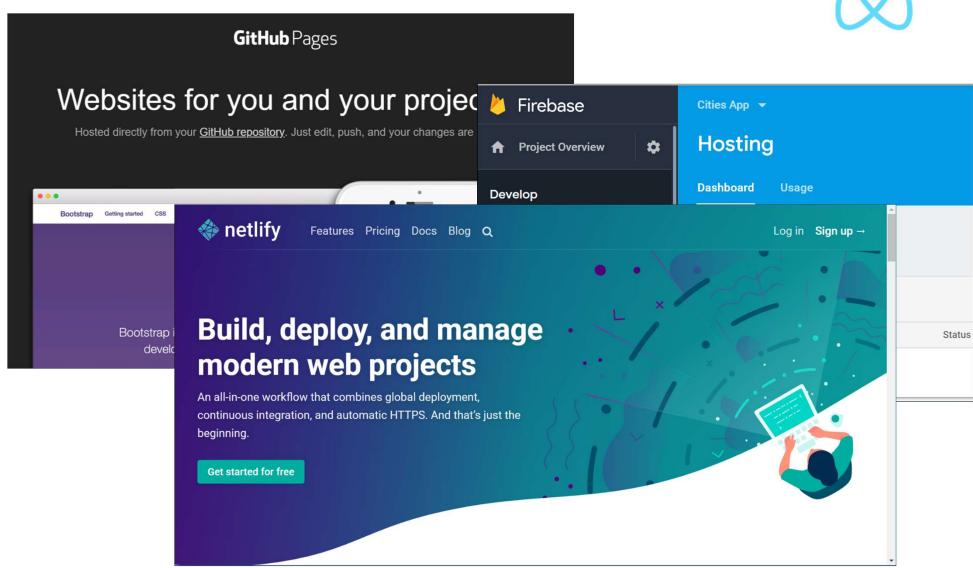
Documentation on servers



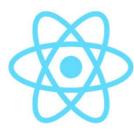


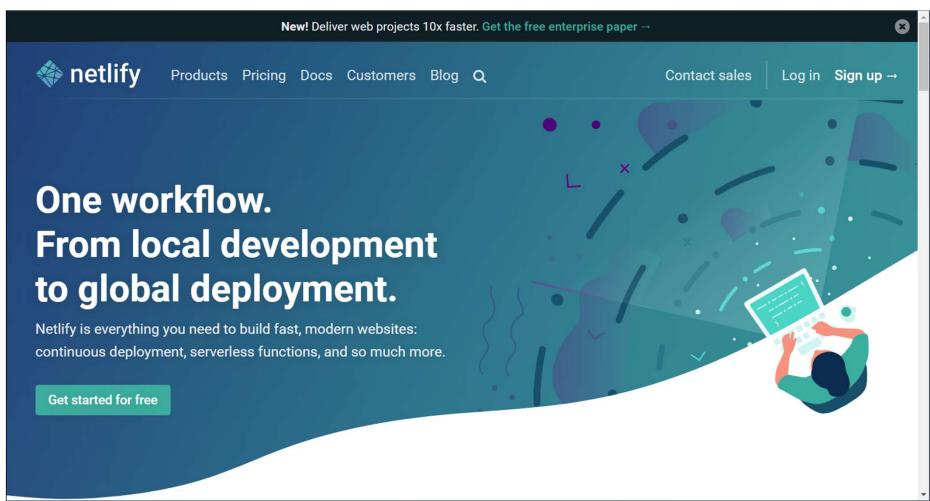
Lots of free SPA-hosting sites available



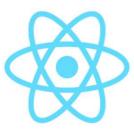


Option: Netlify





Two options

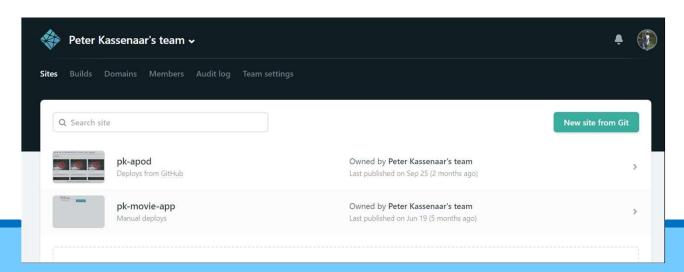


1. Manual build and deploy

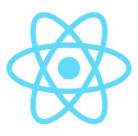
Drag and drop the /build directory

2. Continuous Integration

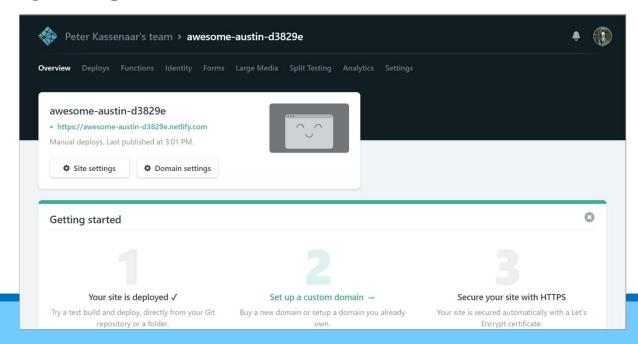
- Set up a Github Repo and connect Netlify to the repo
- If you push to the repo (or a specific branch), the application is rebuild and deployed



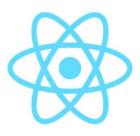
Easiest - Manual Deploy

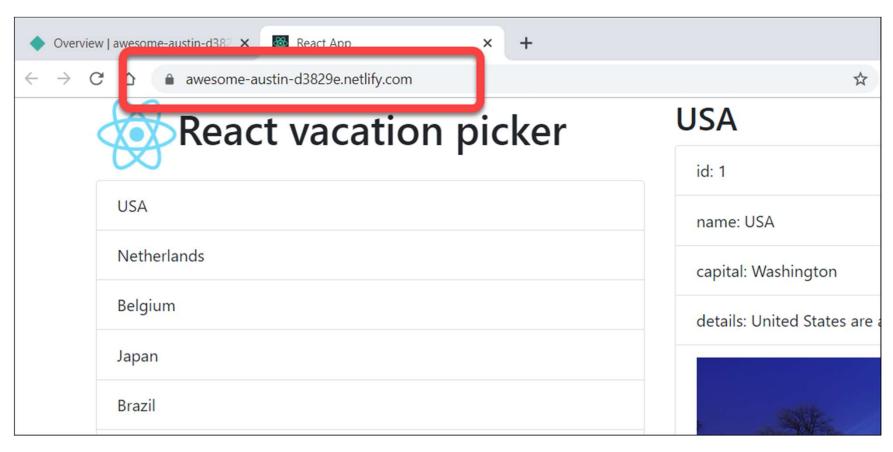


- Create a free Netlify account
- Just drag & drop the /build folder to Netlify dashboard
- Your project gets a random name

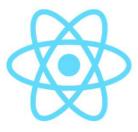


Result

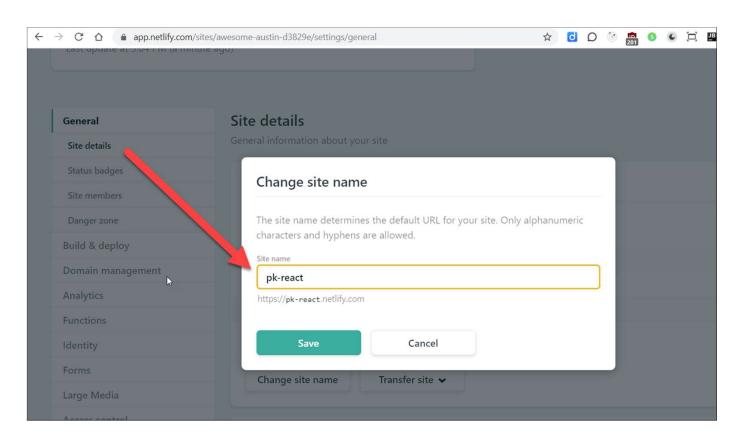




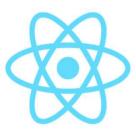
Update the name

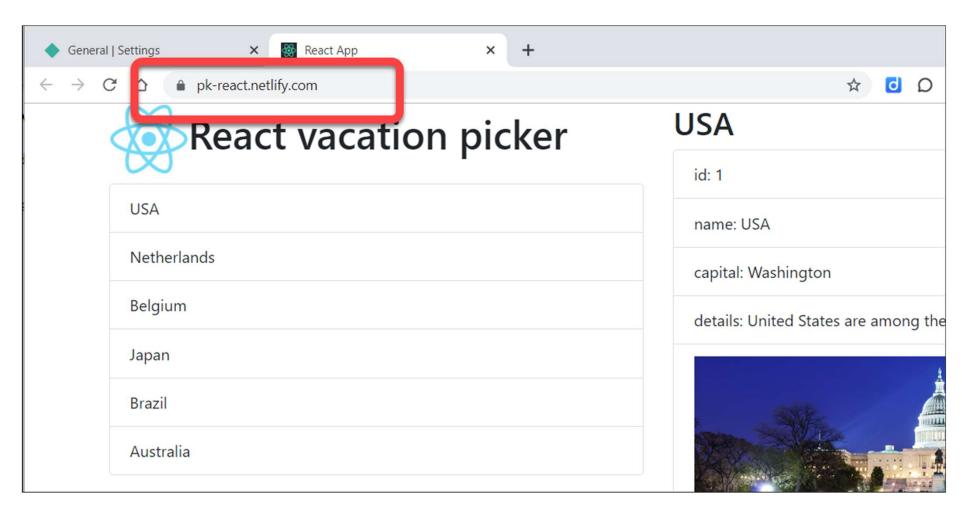


Via the dashboard: site details, change site name

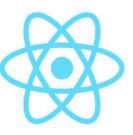


New result

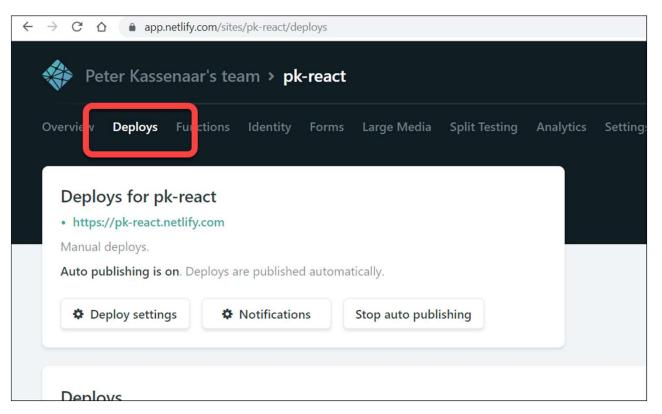




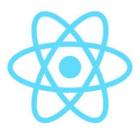
Re-deploy



- First: update your app locally, create a new build (!)
- Go to Deploys, drag & drop the new build

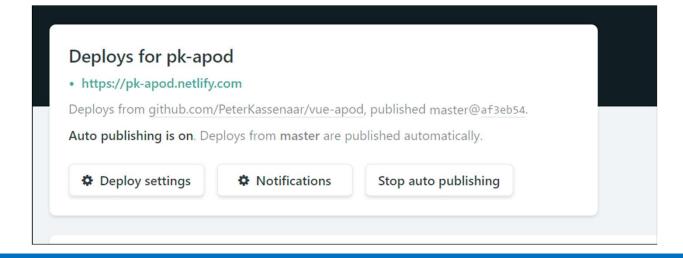


More options

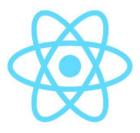


- Connect with a Github Repository
- Link with a custom domain (\$)
- Add Analytics
- Add online functions
- Delete the app

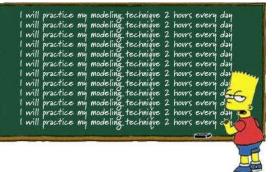
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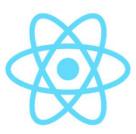
Workshop

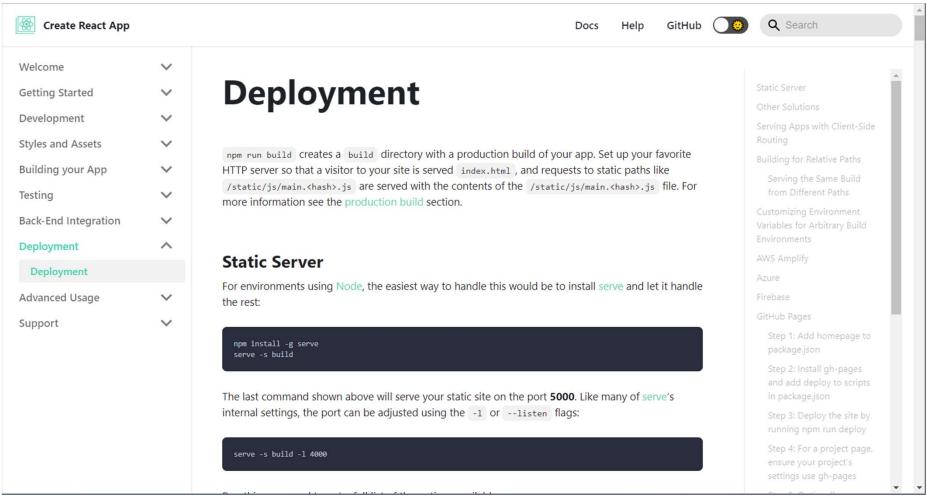


- Use one of your own projects,
 - or start from ../500-api-call
- Create a local build and serve from your own computer, using the serve package
 - Don't forget to run npm run build first!
- Register with Netlify and publish your project online, using the steps in this presentation
- Update the name of the project



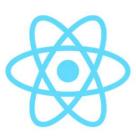
More info

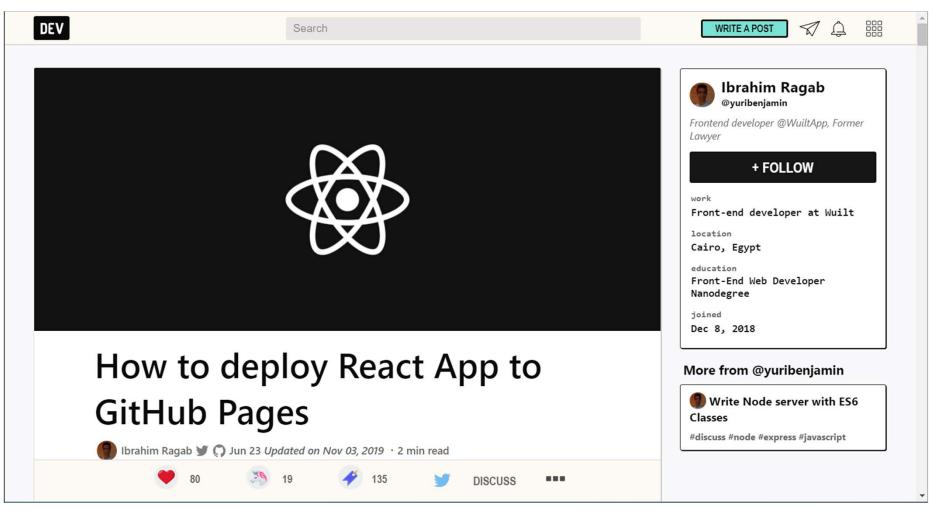




https://create-react-app.dev/docs/deployment

Deploy to Github Pages

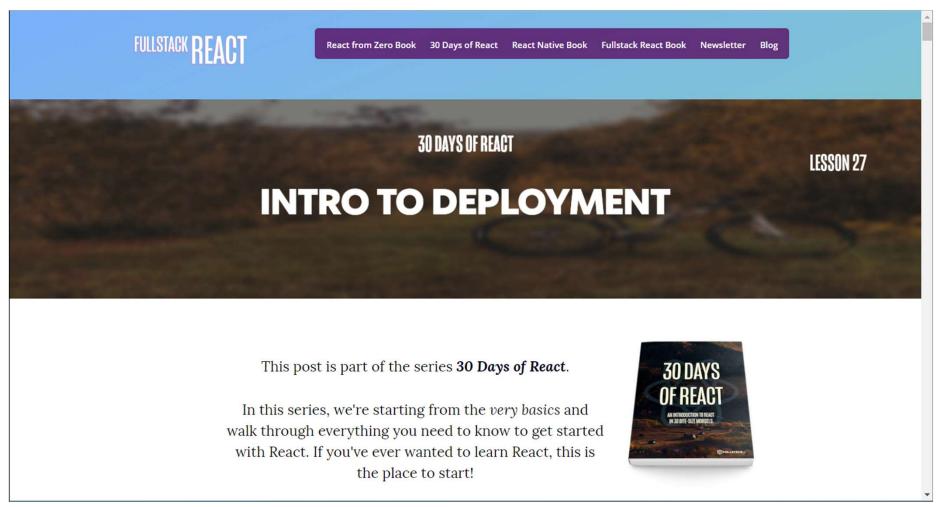




https://dev.to/yuribenjamin/how-to-deploy-react-app-in-github-pages-2a1f

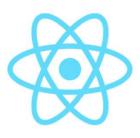
When doing more manually...





https://www.fullstackreact.com/30-days-of-react/day-27/

Checkpoint



- You know how to build a production version of your app
- You can serve the project locally
- You are able to deploy the site online