

How to deploy React App to GitHub Pages

#javascript #react #github #webdev



Ibrahim Ragab Jun 23, 2019 · Updated on Apr 6, 2020 · 2 min read

How to deploy React App to GitHub Pages

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Did you build React app and want to deploy it, following these simple steps you able to deploy and showing the world your amazing app.

I will show how to create and deploy React App using create-react-app and GitHub Pages

Prerequisites:

- GitHub Account.
- Install <u>Git</u> in your machine and <u>Set up Git</u>.

Make sure you have Node.js and Npm installed in your machine.

- Install Node.js
- Install Npm

Notice You'll need to have Node 8.10.0 or later on your local machine.

Procedure:

1- First create a repository named my-app using create-react-app.

```
npm init react-app my-app
```

2- We need to install <u>GitHub Pages</u> package as a dev-dependency.

```
cd my-app
npm install gh-pages --save-dev
```

3- Add properties to package.json file.

The first property we need to add at the top level <code>homepage</code> second we will define this as a string and the value will be "http://{username}.github.io/{repo-name}" {username} is your GitHub username, and {repo-name} is the name of the GitHub repository you created it will look like this:

```
"homepage": "http://yuribenjamin.github.io/my-app"
```

Second in the existing scripts property we to need to add predeploy and deploy.



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```
"predeploy": "npm run build",
"deploy": "gh-pages -d build"
}
```

```
homepage": "http://yuribenjamin.github.io/my-app",
  'name": "my-app",
'version": "0.1.0",
  private": true,
  dependencies": {
    'react": "^16.8.6",
'react-dom": "^16.8.6"
     react-scripts": "3.0.1"
  scripts": {
   "predeploy": "npm run build",
"deploy": "gh-pages -d build",
"start": "react-scripts start",
"build": "react-scripts build",
    "test": "react-scripts test"
     'eject": "react-scripts eject
  eslintConfig": {
    'extends": "react-app"
  browserslist": {
     production": [
       "not dead"
      "not op_mini all"
   ],
"development": [
"last 1 chrome version"
1 firefox version
      "last 1 firefox version",
       "last 1 safari version"
  devDependencies": {
    'gh-pages": "^2.0.1"
package.json" 37L, 788C
```

4- Create a Github repository and initialize it and add it as a remote in your local git repository.

Now, create a remote GitHub repository with your app name and go back initialize this git init

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5- Now deploy it to GitHub Pages.

just run the following command:

npm run deploy

```
lbrahim@Yuri:~/projects/my-app$ npm run deploy
 my-app@0.1.0 predeploy /home/ibrahim/projects/my-app
 npm run build
 my-app@0.1.0 build /home/ibrahim/projects/my-app
 react-scripts build
reating an optimized production build...
Compiled successfully.
File sizes after gzip:
 36.44 KB build/static/js/2.b41502e9.chunk.js
 768 B
           build/static/js/runtime~main.6019dd84.js
           build/static/js/main.41e591c4.chunk.js
 601 B
 517 B
The project was built assuming it is hosted at /my-app/.
ou can control this with the homepage field in your package.json.
The build folder is ready to be deployed.
To publish it at http://yuribenjamin.github.io/my-app , run:
 yarn run deploy
ind out more about deployment here:
 https://bit.ly/CRA-deploy
 my-app@0.1.0 deploy /home/ibrahim/projects/my-app
 gh-pages -d build
ublished
```

this command will create a branch named gh-pages this branch host your app, and homepage property you created in package.json file hold your link for a live preview, or you can open the branch setting scroll down to GitHub Pages section you will find this:

✓ Your site is published at https://yuribenjamin.github.io/my-app/

Visit deployed app



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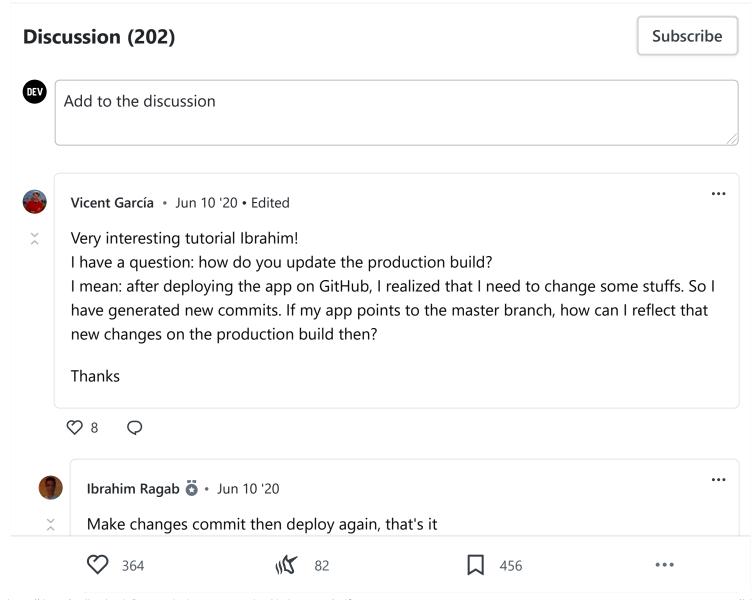
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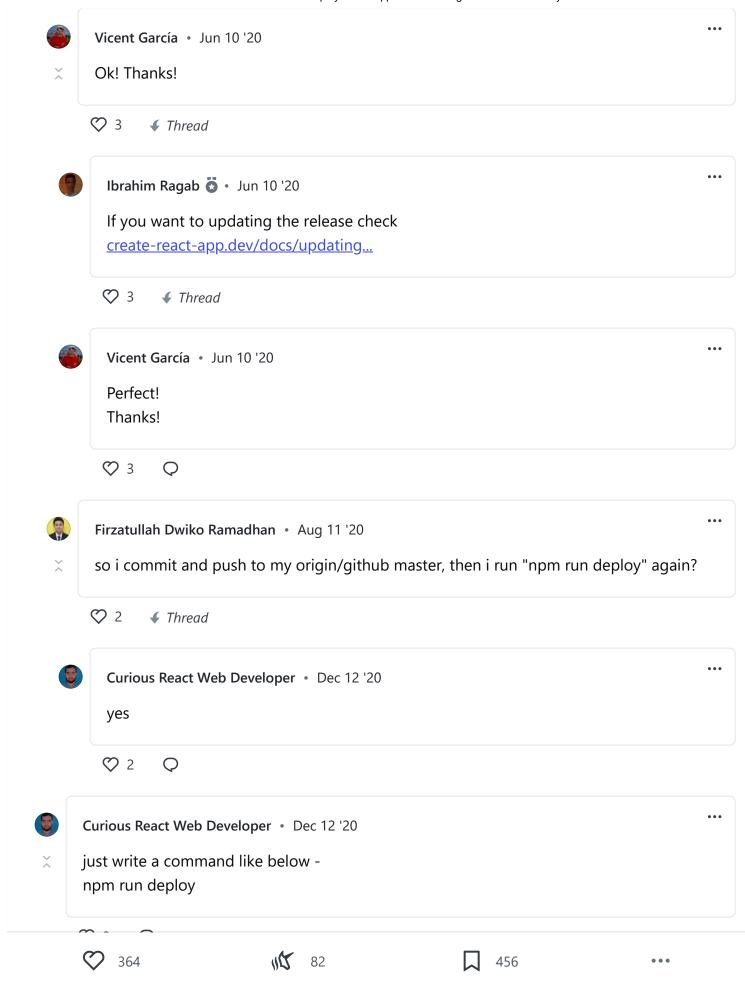
```
git add .
git commit -m "Your awesome message"
git push origin master
```

Recap

We created React App using create-react-app then we installed gh-pages as a dev-dependency and in package.json file we added some properties homepage also in existing scripts property we added predeploy and deploy and created a remote repository and initialize it and run npm run deploy to generate a production build and deploy it to GitHub Pages.

if you have any questions, please don't hesitate to ask. Always happy to hear from you







trishabernice • Jun 15 '20

Hi! Thanks for the tutorial!

I accidentally copy pasted this on my terminal : git remote add origin git@github.com: Yuribenjamin/my-app.git

and now i keep getting this:

Cloning into 'node_modules/gh-pages/.cache/git@github.com!Yuribenjamin!my-app.git'... git@github.com: Permission denied (publickey).

fatal: Could not read from remote repository.

Please make sure you have the correct access rights and the repository exists.

npm ERR! code ELIFECYCLE

npm ERR! errno 1

npm ERR! my-app@0.1.0 deploy: gh-pages -d build

npm ERR! Exit status 1

npm ERR!

npm ERR! Failed at the my-app@0.1.0 deploy script.

npm ERR! This is probably not a problem with npm. There is likely additional logging output above.

npm ERR! A complete log of this run can be found in:

npm ERR! /Users/TrishaBernice/.npm/_logs/2020-06-15T16_41_28_880Z-debug.log

I tried git remote rm origin and it still won't work. can you please advice me on what i should do here? I will really appreciate it!





Ibrahim Ragab 💍 • Jun 15 '20



No problem

git remote - v

Will display origin and the wrong remote url

To delete it

git remote rm origin

Then check again



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Will display nothing time to add the right one Happy Hacking

♥ 8

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trishabernice • Jun 15 '20

X

Hi Ibrahim, Thanks for the fast reply!

I did this:

Trishas-MBP-2:src TrishaBernice\$ git remote rm origin

Trishas-MBP-2:src TrishaBernice\$ git remote -v

Trishas-MBP-2:src TrishaBernice\$ git remote add origin

git@github.com:trishabernice/portfolio.git

Trishas-MBP-2:src TrishaBernice\$ npm run deploy

and I still got this...

Cloning into 'node_modules/gh-pages/.cache/git@github.com!Yuribenjamin!my-app.git'...

git@github.com: Permission denied (publickey).

fatal: Could not read from remote repository.

Please make sure you have the correct access rights and the repository exists.

npm ERR! code ELIFECYCLE

npm ERR! errno 1

npm ERR! my-app@0.1.0 deploy: gh-pages -d build

npm ERR! Exit status 1

npm ERR!

npm ERR! Failed at the <u>my-app@0.1.0</u> deploy script.

npm ERR! This is probably not a problem with npm. There is likely additional logging output above.

npm ERR! A complete log of this run can be found in:

npm ERR! /Users/TrishaBernice/.npm/_logs/2020-06-15T17_01_16_913Z-debug.log

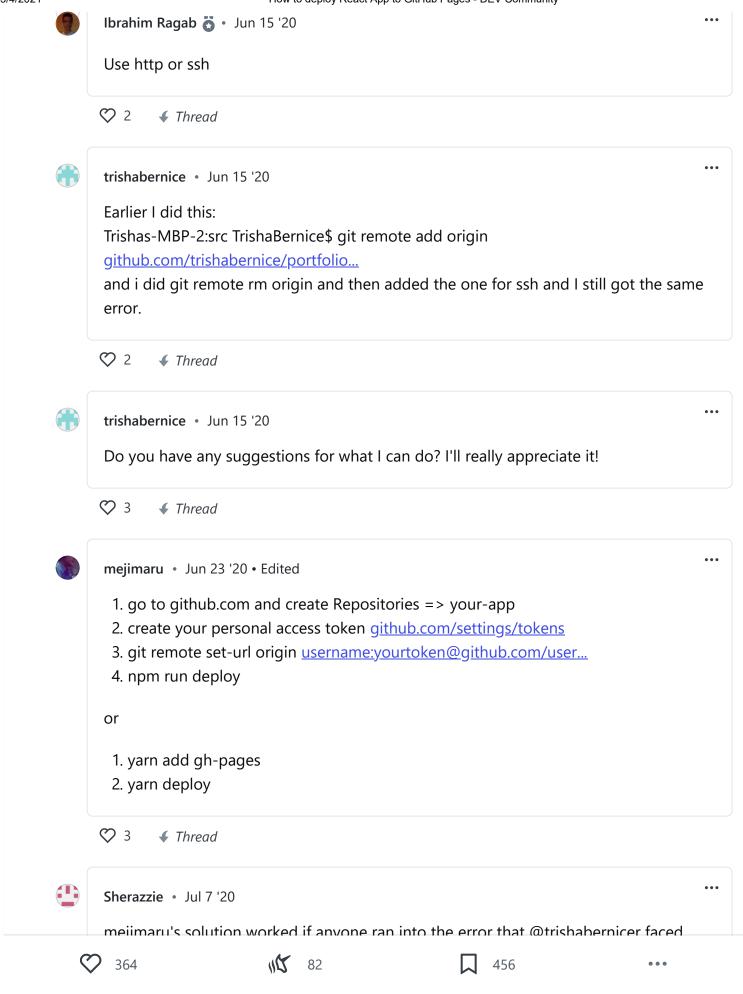
Is there anything else I can try to fix the issue?

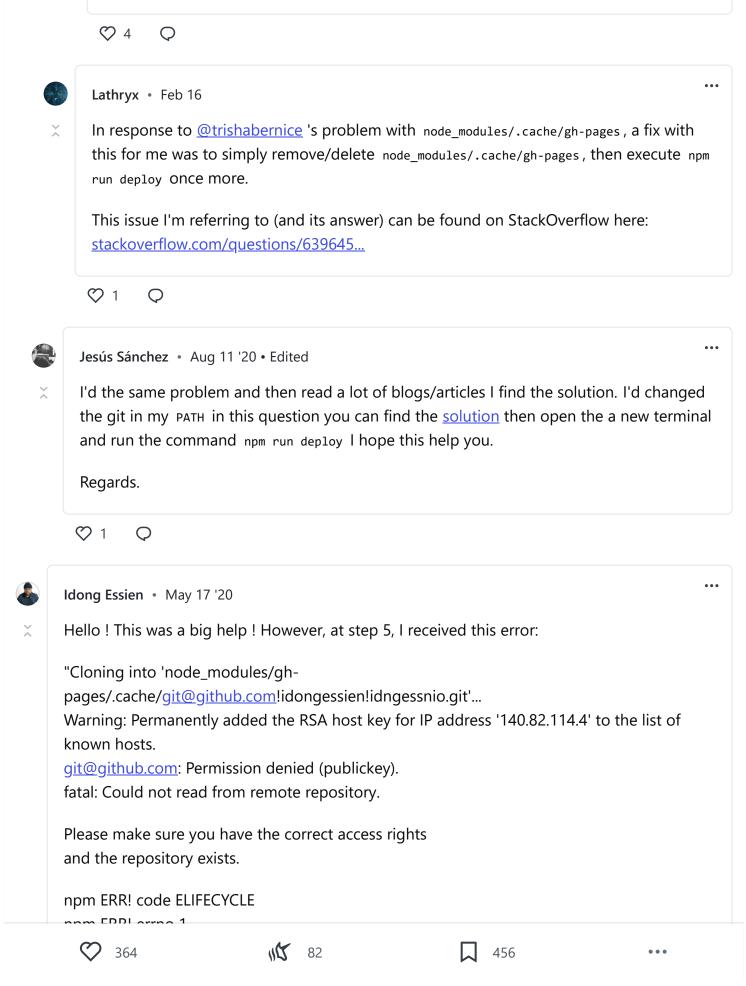
C) 6 # Thread

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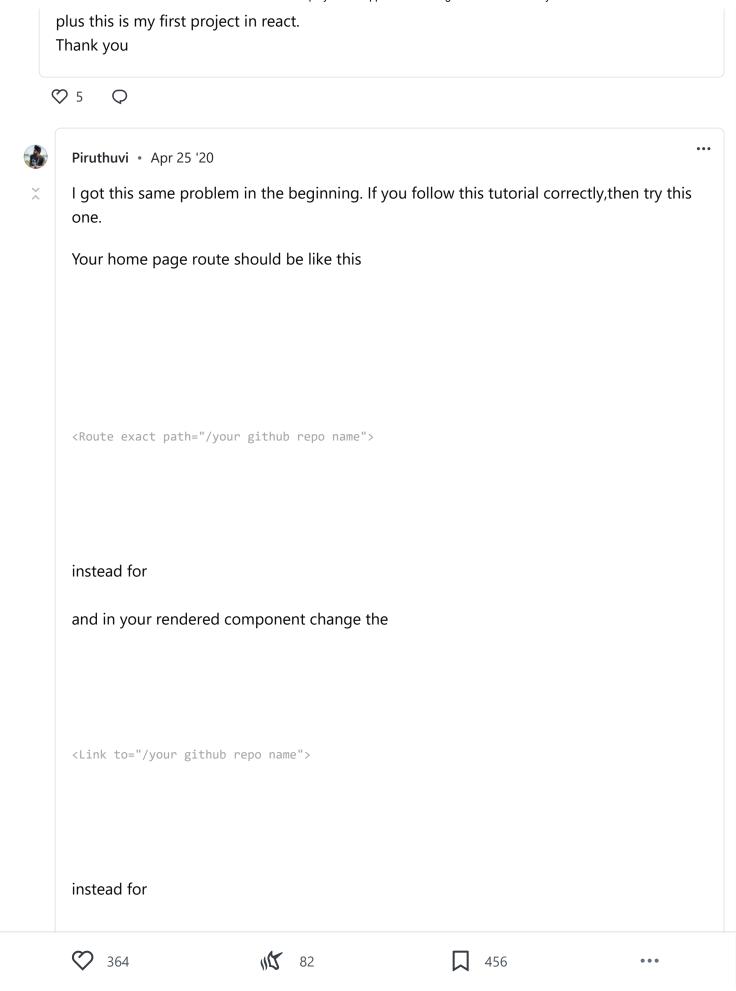
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npm ERR! Exit status 1 npm ERR! npm ERR! Failed at the idngessnio@0.1.0 deploy script. npm ERR! This is probably not a problem with npm. There is likely additional logging output above. npm ERR! A complete log of this run can be found in: npm ERR! /Users/idongessien/.npm/_logs/2020-05-17T18_23_28_805Z-debug.log" **7** 5 Q Kokil Gupta • Jan 12 Hey I'm getting the same error. Did you resolve it? \heartsuit 1 0 Ibrahim Ragab 👶 • May 17 '20 Setup ssh key bro \heartsuit 1 Idong Essien • May 17 '20 Forgive me but how do I do that ? I am a newbie here \heartsuit 1 **♦** Thread Ibrahim Ragab 👶 • May 17 '20 Check this help.github.com/en/enterprise/2.15... **♡** 3 Q DigitalEmma • Aug 16 '19 found this post useful, thank you...I have a question, after i have pushed my react app to 364 82 456



<Link to="/">

And another important point you should consider. your github repo name must be valid name for example dots or space should not be in your repo name because that things conflict with URL.

♥ 5 Q



Learn-Deepak • Aug 2 '20

Thanks a lot @Piruthuvi.

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Rajat Sawarkar • Oct 5 '20

this should be mentioned in the create-react-app docs, was so frustrated because of this simple code change, thanks alot mate @Piruthuvi

♥ 1 Q



Ibrahim Ragab 👶 • Aug 16 '19

Thanks, double check your process, if the same error occurred please share with me your github repo and I will help immediately

♥ 3 ♥



Zac Taylor • Oct 6 '19

Hey Ibrahim, my app won't deploy. I went over your instruction twice but am still having issues. Would you mind taking a look at my repo, it's <u>github.com/ZacASTaylor/zacastaylor...</u>. Thanks!

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Ibrahim Ragab 👸 • Oct 6 '19



Hello Zac

you did well but you need to make some changes to make your project run online kindly follow this process carefully:

- 1 you need to change repo name because of dots in repo name conflict with URL, zacastaylor it's good enough and works with me.
- 2- in package.json change homepage with new value should be "racastaylor.github.io/zacastaylor"
- 2.1- change predeploy to the new value "npm run build", yarn is fine but it's not tested.
- 3- in App.js change line 25 to be <Route exact path='/zacastaylor'
- 4- in component => layout => Header.js line 37 to be <Link to="/zacastaylor"

download the project and change the repo name, after that remove the old connection you can check git remote -v you will see this connected with old repo remove connection by git remote rm this command will take one parameter the full command will be git remote rm origin.

if you check again git remote -v will display nothing to your terminal after that do the change above and make a commit with new changes then push and run npm run deploy.

happy to hear from you Zac, kindly update me if this process success or fail







Zac Taylor • Oct 6 '19



Thanks so much for you help Ibrahim, but the issue was that I needed slightly different instructions because I am trying to have my React app hosted on my GitHub user page and not a project page. I followed the instructions here: dev.to/javascripterika/deploy-a-re...

Thanks again!

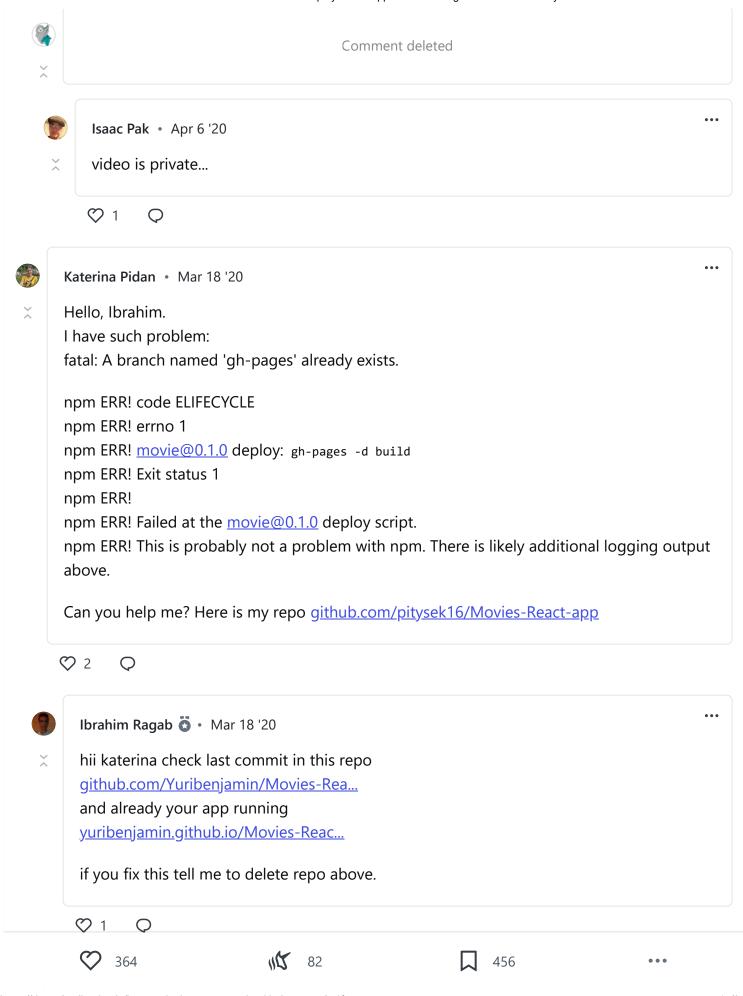


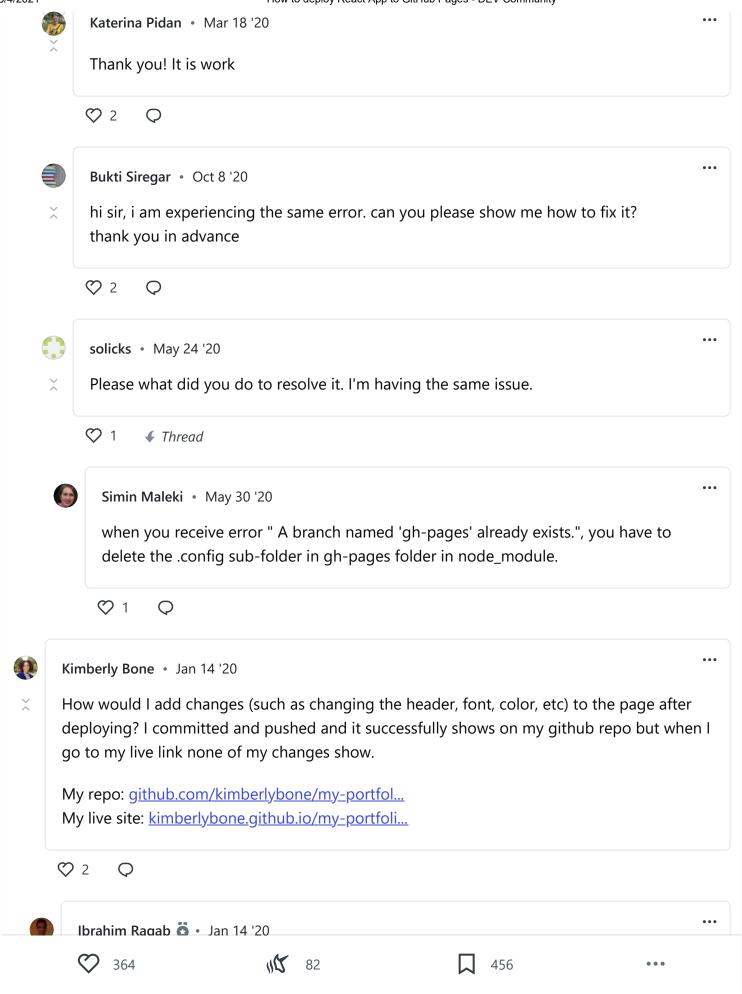
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did you try to delete GH-page branch && build directory, and deploying the app again? if not try this

♥ 1 Q



Ligita Montvilaite • Apr 24 '20

Hey - does this mean, everytime you update something on the page, we need to Delete Gh-page branch && delete build directory folder, and basically deploy again?

Is there no automatic update happening? (i.e. like, when deployed on netlify or smhtg.) ? Thanks!



Ibrahim Ragab 👸 • Apr 27 '20

to update run npm run deploy after each update



Omer • Jul 31 '20

as you said committing and deploying works fine but you have to wait for the change to take an effect on the live link (and sometimes the repo itself)

♥ 1 Q



Leah • Apr 16 '20

Hi. I am having issues deploying my React app to github pages. Could you take a look? github.com/LKian/ToDoList

I added homepage to package.json, along with

"predeploy": "npm run build",

"deploy": "gh-pages -d build"

I added the gh-pages as a dev dependency

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todolist@0.1.0 build /mnt/c/Users/Admin/Desktop/Code/todolist react-scripts build internal/modules/cjs/loader.js:638 throw err; ٨ Error: Cannot find module 'react-dev-utils/crossSpawn' at Function.Module._resolveFilename (internal/modules/cjs/loader.js:636:15) at Function.Module._load (internal/modules/cjs/loader.js:562:25) Thank you! **②** 2 Ibrahim Ragab 👶 • Apr 16 '20 • Edited hello Leah give it try again I cloned your repo and walked through my tutorial, and everything working fine with me check ... dev-to-uploads.s3.amazonaws.com/i/... dev-to-uploads.s3.amazonaws.com/i/... dev-to-uploads.s3.amazonaws.com/i/... \heartsuit 1 0 Leah • Apr 16 '20 • Edited Oh thanks for the screenshots. The only difference I noticed was that for some reason even though I installed "gh-pages" yesterday, it wasn't there. I re-installed and gh-pages now appears in package.json. I then tried to npm run deploy and am still getting an error. Any other thoughts as to what is wrong? 456 364

./src/index.js

Error: [BABEL] /mnt/c/Users/Admin/Desktop/Code/todolist/src/index.js: Cannot find module '@babel/core' (While processing:

"/mnt/c/Users/Admin/Desktop/Code/todolist/node_modules/babel-preset-react-app/index.js")

I read that the gh-pages is supposed to create a new branch but that is not happening. I'm going to try to delete the repo and start from scratch. After I make a new repo, should I still be running the following setup commands?

git init

git add README.md

git commit -m "first commit"

git remote add origin git@github.com:LKian/ToDoList.git

git push -u origin master

and THEN running npm run deploy? Still getting an error

Update: I deleted node_modules and package-lock.json and npm installed again. And it says published!!!!!!!!! Still not showing up on the live page but I know sometimes it takes a while. Will keep you updated :-)

Ikian.github.io/ToDoList/index.html

Got it. Apparently you have to add "/index.html" to the path

♥ 2 **《** Thread



Ibrahim Ragab 👶 • Apr 16 '20

no, just the URL that equal to the home page key in the package.json lkian.github.io/ToDoList dev-to-uploads.s3.amazonaws.com/i/...

♥ 1 Q



jaykeeshow • Feb 22

Very nice post Ibrahim. Really helped me.

I was able to deploy my page to gh pages. The only thing is that my background image is

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displaying my image perfectly. While i deploy on gh pages, image disappears.

I have tried adding the image using jsx, but to no avail. Previously i imported the image to my scss. Thought that was the problem.

Can someone tell me what's going on?

app is deployed here- jaykeeshow.github.io/simple-app/





Ibrahim Ragab 💍 • Feb 23

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Thanks buddy, I see your image doesn't load i saw the build file in yout code, try to build and run build locally before you deployed it and check why the image didn't appear

♥ 1 Q



jaykeeshow • Feb 23

X

dear ibrahim, i dont know how to run build locally. when i run- npm install -g serve, I get an error.

npm WARN checkPermissions Missing write access to /usr/local/lib/node_modules

npm ERR! code EACCES

npm ERR! syscall access

npm ERR! path /usr/local/lib/node_modules

npm ERR! errno -13

npm ERR! Error: EACCES: permission denied, access '/usr/local/lib/node_modules'

npm ERR! [Error: EACCES: permission denied, access '/usr/local/lib/node_modules'] {

npm ERR! stack: "Error: EACCES: permission denied, access

'/usr/local/lib/node_modules'",

npm ERR! errno: -13,

npm ERR! code: 'EACCES',

npm ERR! syscall: 'access',

npm ERR! path: '/usr/local/lib/node_modules'

npm ERR! }

npm ERR!

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npm ERR! The operation was rejected by your operating system.

npm ERR! It is likely you do not have the permissions to access this file as the current

user

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npm ERR! permissions of the file and its containing directories, or try running npm ERR! the command again as root/Administrator.

npm ERR! A complete log of this run can be found in: npm ERR! /Users/jrajkumar/.npm/_logs/2021-02-23T10_56_22_458Z-debug.log jays-Air:simple-app jrajkumar\$





Akanksha priya • May 21 '20

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Hi! At step 5, I added SSH keys however I received such error:

Cloning into 'node_modules/gh-pages/.cache/git@github.com!Spring-dot!face-detector.git'...

ERROR: Repository not found.

fatal: Could not read from remote repository.

Please make sure you have the correct access rights and the repository exists.

npm ERR! code ELIFECYCLE

npm ERR! errno 1

npm ERR! face-detector@0.1.0 deploy: gh-pages -d build

npm ERR! Exit status 1

npm ERR!

npm ERR! Failed at the <u>face-detector@0.1.0</u> deploy script.

npm ERR! This is probably not a problem with npm. There is likely additional logging output above.

npm ERR! A complete log of this run can be found in:

npm ERR! /home/akanksha/.npm/_logs/2020-05-21T06_16_57_148Z-debug.log

Please help!! I am a beginner!





Oleksandr Strelchenko • May 31 '20

stackoverflow.com/questions/607806...

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tianyiz8 • Mar 25 '20 • Edited



Hello, i am doing the routing for my website, but only the landing page shows up. Could you have a look? I think the problem should be in index.js, main.js, App.js. Thanks!! tianyiz8.github.io/personal-website/ github.com/tianyiz8/personal-website

♥ 1 Q



Ibrahim Ragab 👸 • Mar 25 '20



Hey thanks for your comment, handling route in react can easly done by using react router package, not by default way as i saw in your app, also read about Single Page App, and declaritive programming

github.com/ReactTraining/react-router

Happy Hacking!

♥ 1



tianyiz8 • Mar 25 '20

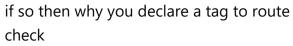


Hello! Could you be more specific? I did use react-router-dom, and where are declaritive programming and Single Page App? I still have no idea how to make it work. Thanks!

♥ 1 **《** Thread



Ibrahim Ragab 👸 • Mar 25 '20



reacttraining.com/react-router/web...

♥ 1 Q



Alex • Feb 1 '20



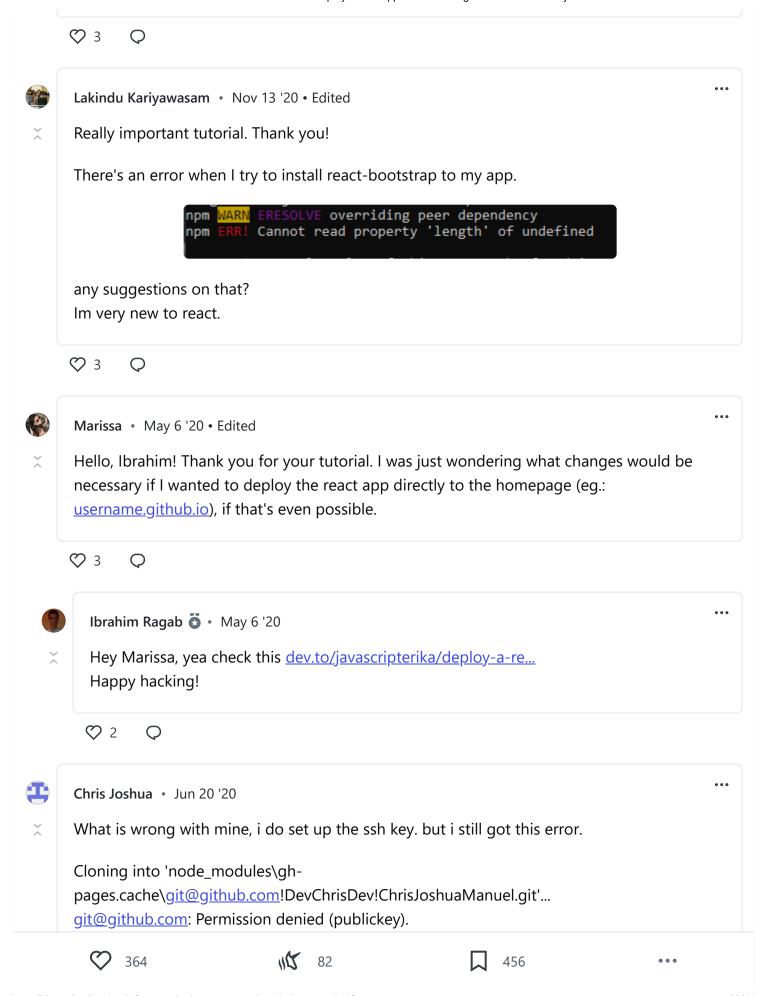
Great article. I got it to work publishing the react app. Note that for the homepage I used

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Please make sure you have the correct access rights and the repository exists.

npm ERR! code ELIFECYCLE

npm ERR! errno 1

npm ERR! chris-resume@0.1.0 deploy: gh-pages -d build

npm ERR! Exit status 1

npm ERR!

npm ERR! Failed at the chris-resume@0.1.0 deploy script.

npm ERR! This is probably not a problem with npm. There is likely additional logging output above.

npm ERR! A complete log of this run can be found in:

npm ERR! C:\Users\Client\AppData\Roaming\npm-cache_logs\2020-06-20T00_08_24_598Z-debug.log

all help would be much appreciated.





Bhargav Gohil • Oct 9 '20 • Edited

hey, Ibrahim I don't know where I am going wrong can you please check where is the issue

github.com/Bhargav252000/fakegram

the error I am getting

```
Cloning into 'C:\Users\BHARGAV\Desktop\React-Apps\fake-gram\node_modules\.cache\gh-pages\git
fatal: invalid branch name: init.defaultBranch =

npm ERR! code ELIFECYCLE
npm ERR! errno 1
npm ERR! fake-gram@0.1.0 deploy: `gh-pages -d build`
npm ERR! Exit status 1
npm ERR!
npm ERR!
npm ERR! Failed at the fake-gram@0.1.0 deploy script.
npm ERR! This is probably not a problem with npm. There is likely additional logging output

npm ERR! A complete log of this run can be found in:
npm ERR! C:\Users\BHARGAV\AppData\Roaming\npm-cache\_logs\2020-10-09T13_30_51_074Z-debu§
```







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Irena Mishonova • Apr 6 '20

Helloooo:)

So, I am begginer... and I did what you "said"...and it worked... although I have two issues that I dont understand.

- that is supposed to be my project page irenkaaa.github.io/sweet-shop-proj... ... when u go is showing my 'not found page'... but when u click on the header parts, it is working but with changed address irenkaaa.github.io/{home?store?login ...etc.}..and it is only working the views... my node.js server is not exactly on there..
- also the other thing... after the deploying, i got that build folder.. and basically...all my files changed and i caouldnt working on the project..ldk how but I managed to return them and now I can work, but I am totally lost...





Ibrahim Ragab 👸 • Apr 6 '20

first issue check routing, second cuz you watch gh-branch change to master happy hacking!

♥ 2



Irena Mishonova • Apr 7 '20

Thanks a lot! On my way to check the stuff!!!

Keep safe from Covid!

♥ 2

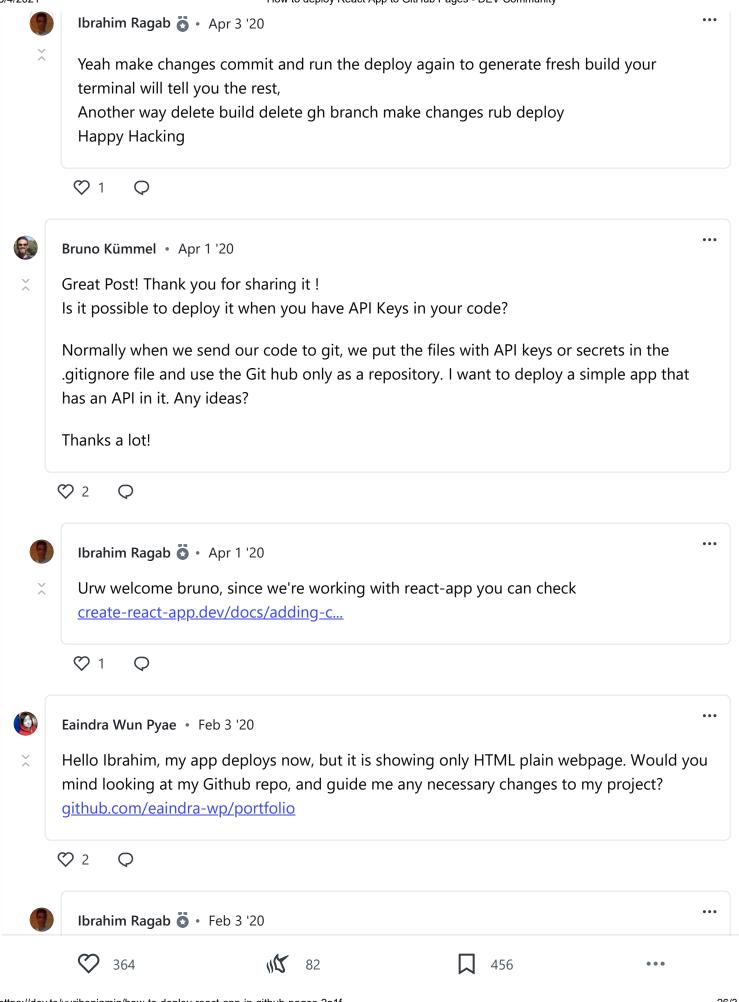


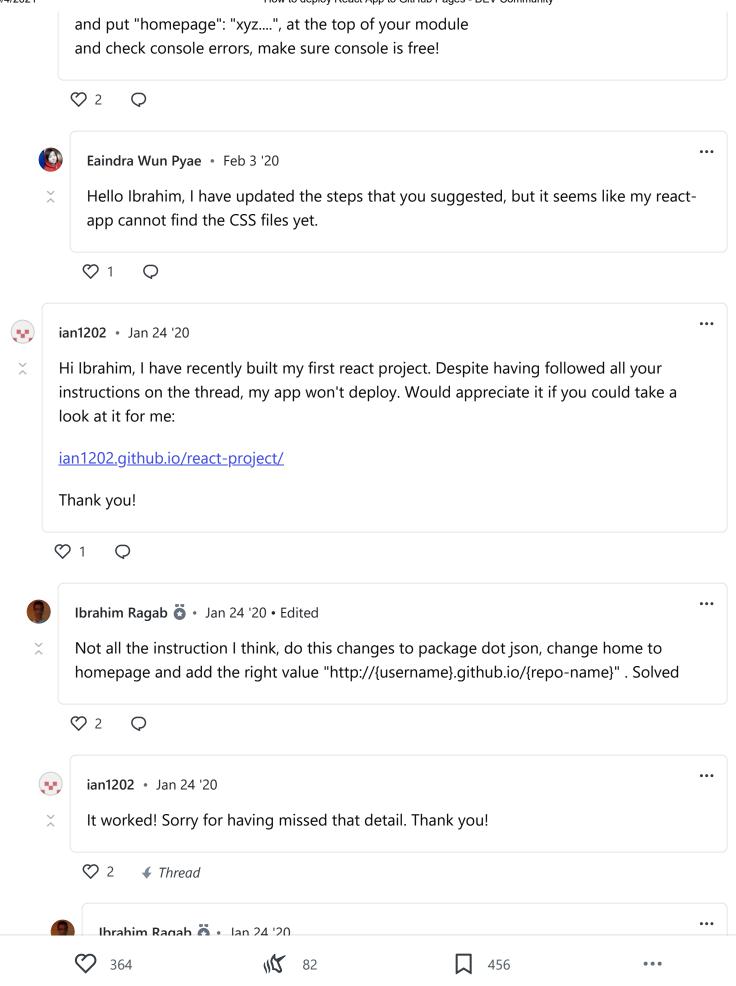
Shivam Sharma • Apr 3 '20

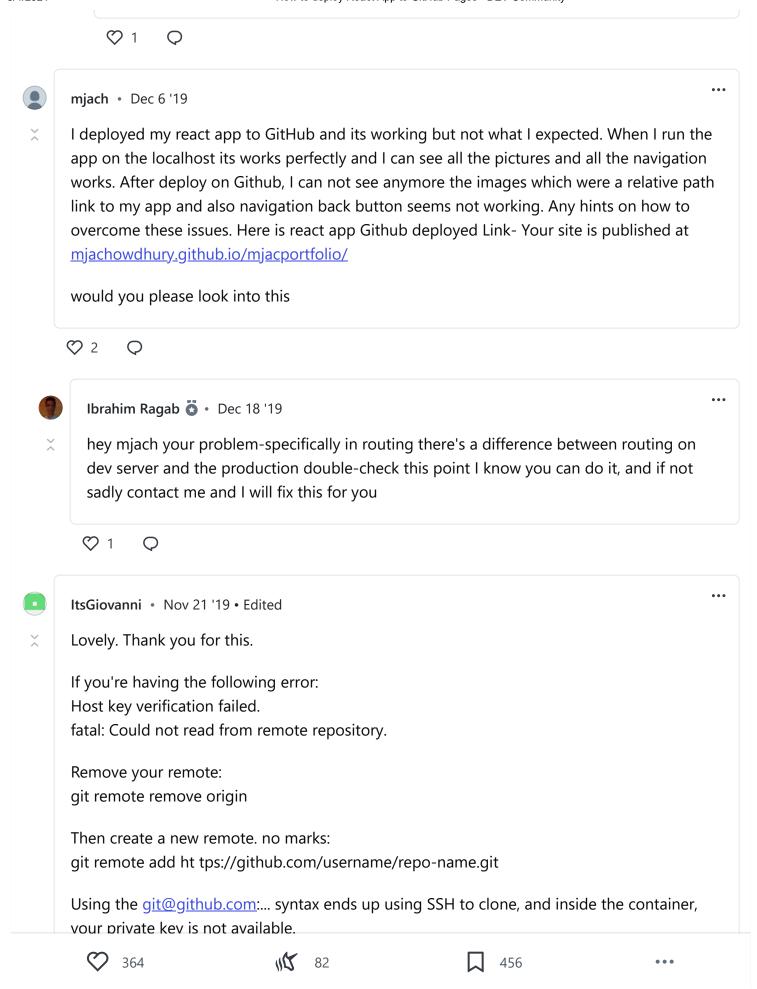
Hi Ibrahim, First Thank you for a such a wonderful and helping blog. I have one doubt that i was able to successfully deploy my react app but when i make changes locally i am unable to get those changes on my react app. Can you please guide how to do that in a proper way?













Kriviears • Dec 18 '19 • Edited

X

I followed the instructions and got the same messages from the terminal up to right under the "gh-pages -d build" and then I get these lines

gh-pages -d build

bash: /dev/tty: No such device or address

error: failed to execute prompt script (exit code 1)

fatal: could not read Username for 'github.com': Invalid argument

my repo is github.com/Kriviears/React-Portfolio







Ibrahim Ragab 💍 • Dec 18 '19

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hey Kriviears, first you should fix all bugs before deploy, second check this repo this is your app running successfully, and double-check the fix commit after you fix this problem notify me to delete you repo = >

<u>yuribenjamin.github.io/React-Portf...</u> <u>github.com/Yuribenjamin/React-Port...</u>





pauluzo • Nov 18 '19



Hello Ibrahim. I followed your tutorial and I am trying to deploy my first app to github pages. I keep getting this error when I run "npm run deploy".

gh-pages -d build

Host key verification failed.

fatal: Could not read from remote repository.

Please make sure you have the correct access rights and the repository exists.

Any help please?



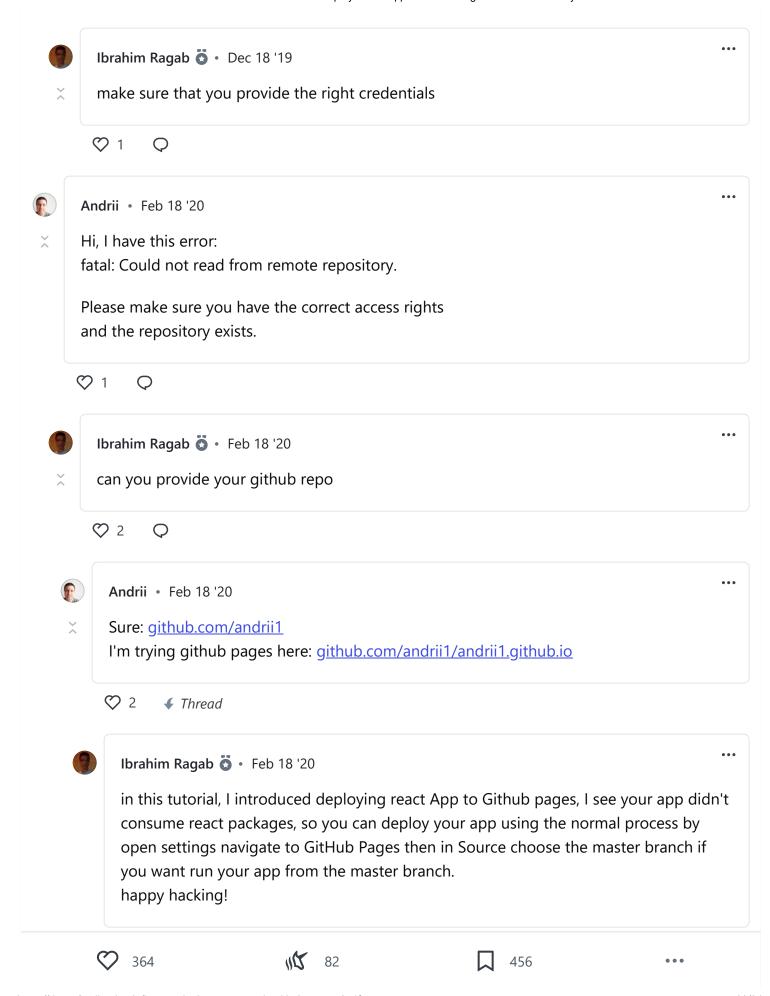
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Andrii • Feb 18 '20

Sorry, can you specify a bit? I need to push it in separate repository inside /andrii1.github.io?





Ibrahim Ragab 👸 • Feb 18 '20

what I need to say your app not a react app so you don't need this tutorial to deploy it to gihtub you can deploy it from the setting

♥ 1 **《** Thread



Andrii • Feb 19 '20 • Edited

So, I have my React app in separate folder my-app, when I'm trying to upload it to GitHub, I see this:

dev-to-uploads.s3.amazonaws.com/i/...

♥ 1 **《** Thread



Andrii • Feb 19 '20

Update: issue was solved with: git push -f origin master

But, still <u>andrii1.github.io/my-app</u> is not live.. <u>github.com/andrii1/my-app</u>

♥ 1 Ç



pniebrzydowski • May 25 '20

In case anyone else runs into the same issue that I had. When running the build command for the first time, I got error:

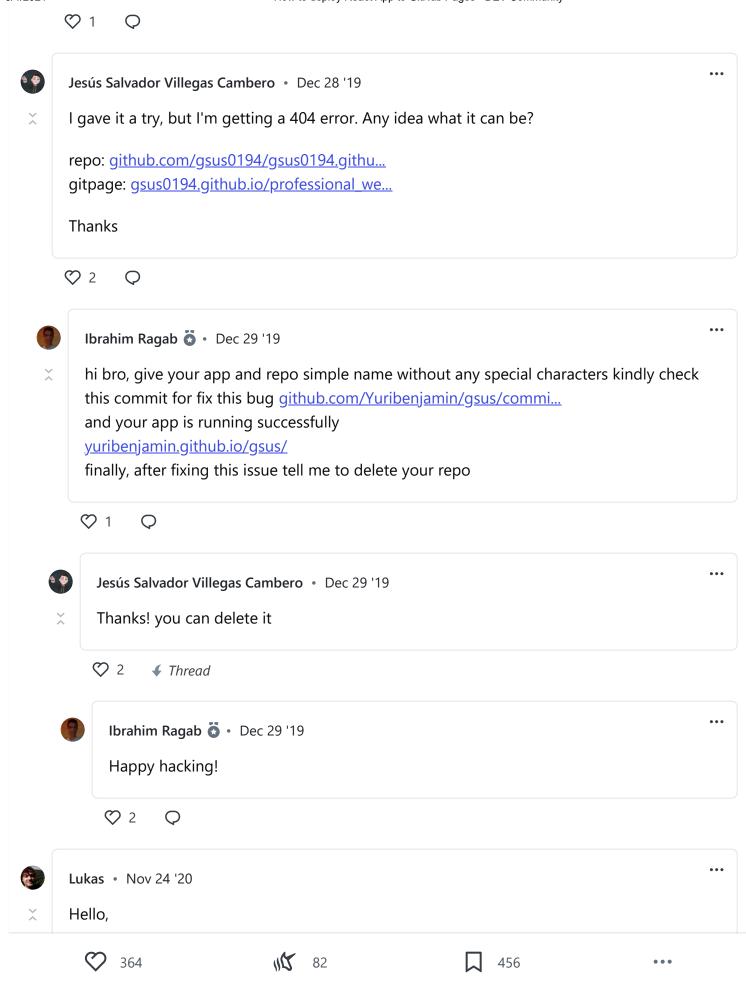
fatal: ambiguous argument 'HEAD': unknown revision or path not in the working tree.

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Thanks for the tutorial. I followed all the steps but for some reason my gh-pages link is left blank (but it still receives the title 'React App'.)

Why is my project not showing up on the gh-pages link?

My repo: github.com/lukas-jj/pomodoro

Link to the page: <u>lukas-jj.github.io/pomodoro/</u>

Cheers





appukuttan-shailesh • Nov 16 '20

Hi Ibrahim, thanks for the tutorial. I believe I have followed all the steps, got no errors, but unable to view the final output... it keeps showing "Site not found".

My page is at: appukuttan-shailesh.github.io/live...

The branch I deployed is here:

github.com/appukuttan-shailesh/liv...

Can you give me any tips on what I might be doing wrong? Thanks in advance!

 \bigcirc 1 \bigcirc

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Ibrahim Ragab

Frontend developer @WuiltApp, Former Lawyer

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LOCATION





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FD		

Front-End Web Developer Nanodegree

JOINED

Dec 8, 2018

More from Ibrahim Ragab

Write Node server with ES6 Classes

#discuss #node #express #javascript

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