

Deploying React Front-end to Netlify

Heroku free goes into sleep if there is no traffic in 30 minutes. If you access the web server again after 30 minutes, it takes 5 to 10 seconds to wake up.

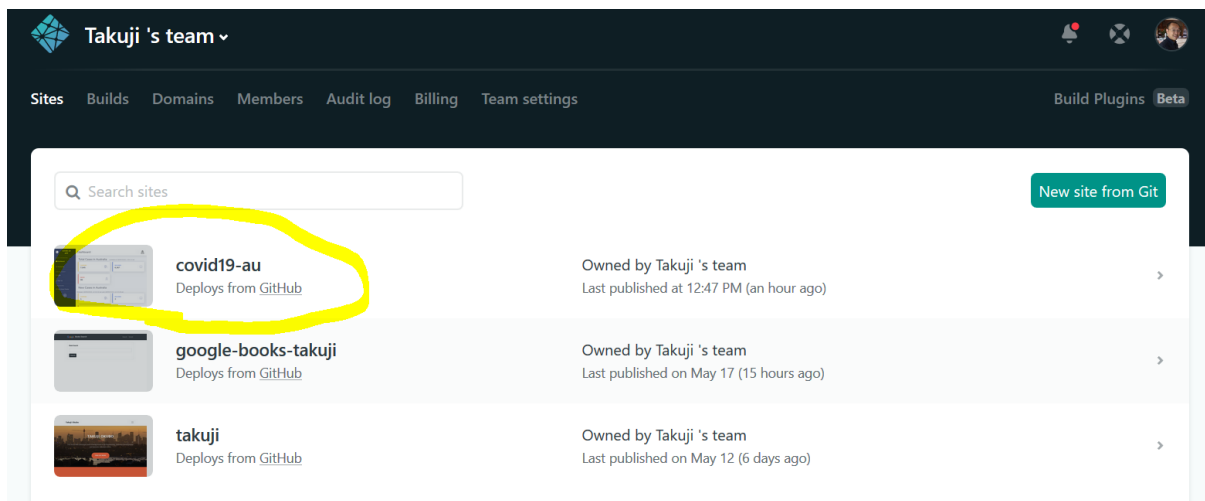
Deploy React front-end to Netlify and Node.js back-end to Heroku. Netlify is a web hosting service. We can connect our GitHub repository with Netlify and update the website on pushing source to GitHub. We can use Netlify free tier and it does not go into sleep. The React front-end page is always displayed quickly!

Steps to Deploy React Front-end to Netlify


1. Sign up Netlify.
2. Sign in Netlify.
3. Click "New site from Git" button. Link a GitHub repository with Netlify.
See this article.

<https://www.netlify.com/blog/2016/09/29/a-step-by-step-guide-deploying-on-netlify/>

4. Choose a new site.



5. Choose a project > Settings > Continuous Deployment
 - Base directory: client
 - Build command: npm run build
 - Publish directory: client/build

 **Takuji 's team** > **covid19-au**


OverviewDeploysFunctionsIdentityFormsLarge MediaSplit TestingAnalytics**Settings**

Settings for covid19-au

[covid19-au.netlify.app](#)

Deploys from [GitHub](#). Owned by [Takuji 's team](#).

Last update at 12:47 PM (an hour ago)



General

Build & deploy

Continuous Deployment

Environment

Post processing

Deploy notifications

Domain management

Analytics

Functions

Identity

Forms

Large Media

Continuous Deployment

Settings for Continuous Deployment from a Git repository

Build settings

Repository:	github.com/tak-9/covid-19
Base directory:	client
Build command:	npm run build
Publish directory:	client/build
Deploy log visibility:	Logs are public
Builds:	Active

[Learn more about common configuration directives in the docs](#) ↗

Set Environment Variable

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Environment

Control the environment your site builds in and/or gets deployed to.

Environment variables

Set environment variables for your build script and add-ons.

NODE_ENV	production
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[Learn more about environment variables in the docs](#) ↗

Edit variables

Modify React Application

./util/env.js

```
export const serverUrl = (process.env.NODE_ENV === "production") ? "https://co-  
vid19-au.herokuapp.com" : "http://localhost:3001";
```

Calling API

```
import { serverUrl } from '../util/env';
```

```
    axios.post(serverUrl + '/api/user/', {  
      username: this.state.username,  
      password: this.state.password  
    })  
      .then(response => {
```

Modify Express

Add Netlify hostname to cors origin to allow API access from Netlify.

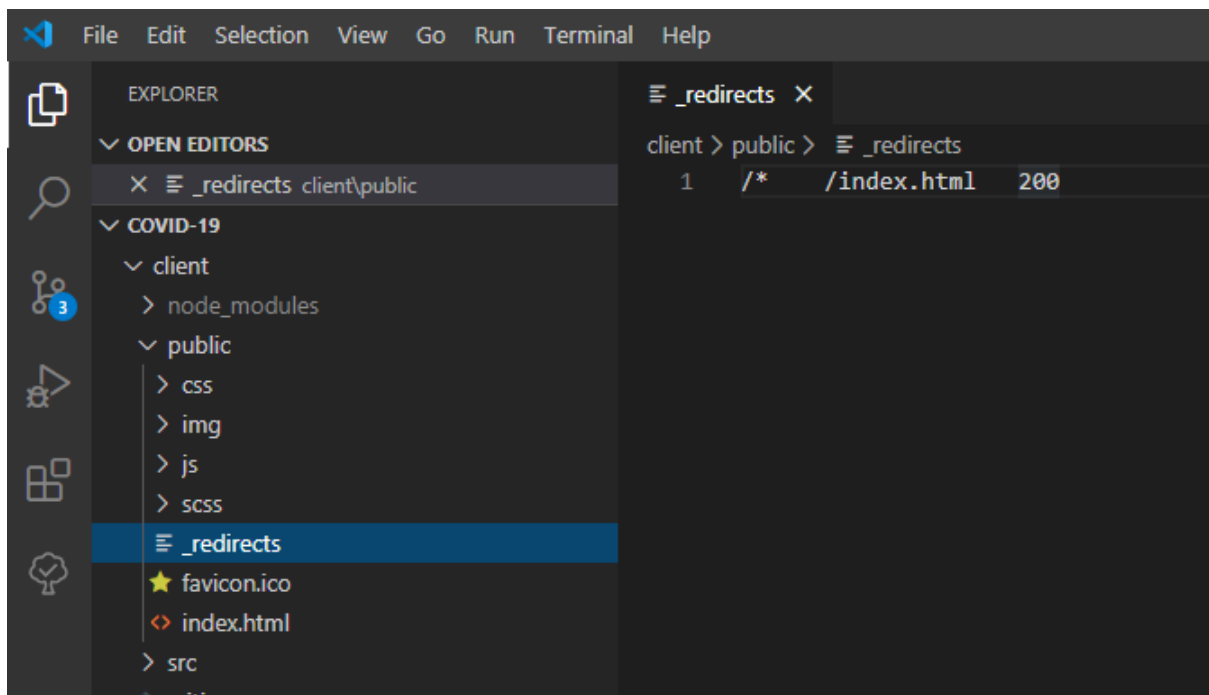
```
const cors = require("cors");
```

```
app.use(  
  cors({  
    origin: ["http://localhost:3000", "https://covid19-  
au.netlify.app"], // allow to server to accept request from different origin  
    methods: "GET,HEAD,PUT,PATCH,POST,DELETE",  
    credentials: true // allow session cookie from browser to pass through  
  })  
);
```

Modify Application for BrowserRouter

- create _redirects in React's public directory
- See this page for details.

<https://medium.com/@rexben/how-to-fix-page-not-found-on-netlify-with-react-router-dom-e0520692be5>



Optional

In the landing page, `useEffect()` or `componentDidMount()`, make a dummy access to heroku to wake up Heroku server. The Heroku server should be up when a user click a button or do something.

```
useEffect(()=>{
  // Wakeup Heroku when accessed from Netlify
  if (window.location.hostname === "covid19-au.netlify.app") {
    console.log("Accessing https://covid19-
au.herokuapp.com/img/login.jpg This is only for netlify");
    axios.get("https://covid19-au.herokuapp.com/img/login.jpg");
  }
});
```

Wakeup Heroku when opening landing page.

Troubleshooting

<https://community.netlify.com/t/support-guide-my-site-deploy-fails-unless-netlifys-build-cache-is-cleared/3035>

Fairly rare but worth mentioning: You have a `package.json` in your repo root, but you are building a subdirectory of your repo and have NOT appropriately set the `base` directory in your build settings. That can lead to some confusing caching situations since we'll only sometimes use that `package.json` (when there is `nocache`).

Base directory must be set. Set as client

If you notice error message of module is missing in the Netlify deployment log file, run “`npm install package-name --save`” in the React client directory.