

# Docker Instructions

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Normally you should just need to do `docker-compose up -d --build`, which will build everything and launch the api in a detached state. That means you can still use your terminal while it's running. If you're on Windows, you can see the docker state in Docker Desktop.

## Triple Whammy

- Note that this is recommended when testing big merges to avoid cached build.
- `docker-compose pull`
- `docker-compose build`
- `docker-compose up --build` (or `docker-compose up -d --build`)

## node\_modules

- You need the SugarRushSite/node\_modules folder in order to use docker, so don't delete that! You can rebuild it if you did with these steps:
  - `npm install`
  - `ng update`
  - (optionally `npm prune` to remove extraneous dependencies--this is untested)
  - You really only need this because you need to do `ng build` as a step in the docker file, and that's where `ng` is located.

## Troubleshooting

1. Make sure you've made the `.env` file. It cannot be stored on github because it contains passwords.
2. Make sure you have the `Dockerfile` and `docker-compose.yml` files from the github repo and make sure you are in the `SugarRushSite` directory.
3. Try `ng build` and repeat step 1.
4. Check `node server.js` works.
5. Try `docker build` followed by `docker run --publish 3000:3000 <name of image>`. If this works then something is wrong in the docker-compose process.
6. Look for problems and error messages when attempting `docker-compose up`.
7. If you see a message implying there is no nodemon or a path involving nodemon, it's probably not in the `package.json` file. Add it and go back to step 4.
  - a. This should be the last line of the `devDependencies` section
8. If that's not the problem, see if any steps say 'cached' when you try `docker-compose up`. If you see this, try the **triple whammy** at the top of this page.
9. If there are still issues, try reinstalling the `node_modules` folder. See **node\_modules** section above
10. If there are files that exist, but docker-compose says otherwise, time to troubleshoot the actual `Dockerfile`.
  - a. Example issues: `COPY` isn't copying the right files into the image
11. If still have problems... you may need to reach out for help.
  - a. Zack might have run into a similar issue when setting up the `dockerfile`.
  - b. Else, Google or TAs.

## Updates:

- When Angela worked with docker, some weird stuff happened to the `wait-for.sh` file, so we've added the script that loads the `wait-for` script to the actual docker image to bypass that step altogether.