How to deploy on Firebase hosting with CircleCI

Steps setup Firebase hosting Project

1. Install firebase-tools **globally** — This will allow you to use `firebase` command globally, on your machine)

```
npm install -g firebase-tools
```

2. Install firebase-tools locally as a **dev** dependency — This will ensure when you install dependencies on the build server, you can execute the `firebase` command

```
npm install -D firebase-tools
```

3. Get authenticated to your firebase account (Sign up if you dont have one)

```
firebase login
```

Once you are logged in, we can now initialise our project:

```
firebase init
```

This will prompt you to select the services you would like to setup. Choose hosting and select the firebase project if you have already created.

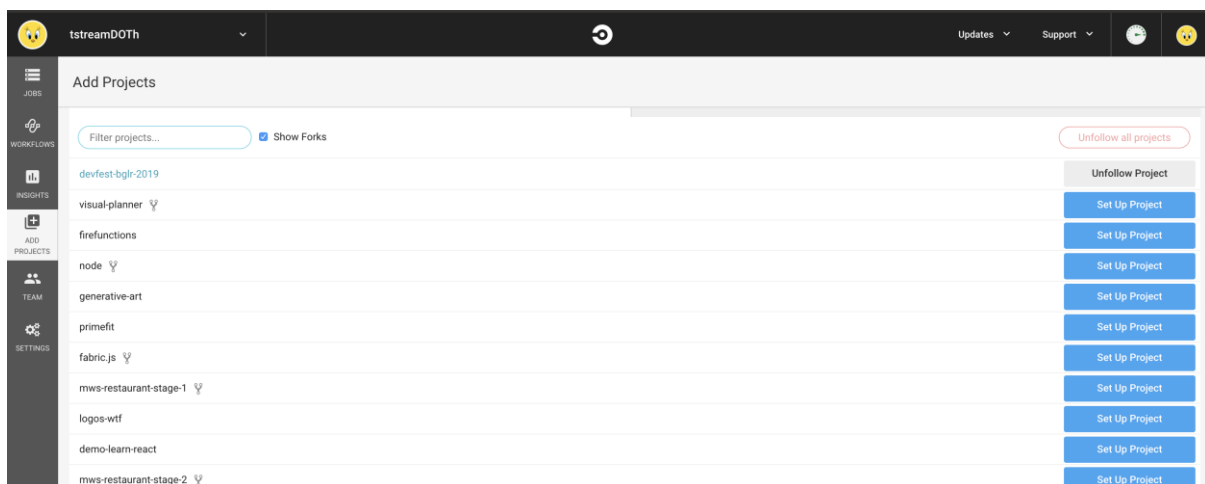Once you are done, you must have a `firebase.json` & `.firebasesrc` file added.

To do a manual deployment, all you need to do (As promised)

```
.build/ firebase deploy
```

(**Important** — You should be in the **build** directory first, if you are packaging into `/build` location, just `cd build` and then execute the deploy command)

Steps setup CircleCI Project

1. Create you account on CircleCI using your github/bitbucket account

2. Select your project (You can sync from github & bitbucket)

- Click on **Set Up Project**
- Choose build environment — Linux
- In your project's root folder, create a folder named `.circleci` and inside it, create a `config.yml` file. CircleCI requires that the config file be located here. Paste the below file and push these changes to your repo (If you are using `create-react-app` , you can safely copy the run & build commands, else use the commands which you have defined for your project)
- Click on **Start Building**

```
26                    command: ./node_modules/.bin/firebase deploy --token "$FIREBASE_TOKEN" --only
```

(This config is all about has been explained at the end)

Thats't it? NO.

This is the most important step. We have not given our CircleCI some sort of access to our firebase project. To do so we need to generate a Firebase token and add it to our CircleCI settings

Get the Firebase Token

- Run `firebase login:ci` and get a token

You should have a similar view like this

```
Visit this URL on any device to log in:
https://accounts.google.com/o/oauth2/auth?client_id=563584335869-fgrhgmd47bqnekij5i8b5pr03ho849e6.apps.
googleusercontent.com&scope=email%20openid%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformpro
jects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Ffirebase%20https%3A%2F%2Fwww.googleapis.com%
2Fauth%2Fcloud-platform&response_type=code&state=195815232&redirect_uri=http%3A%2F%2Flocalhost%3A9005

Waiting for authentication...

✓  Success! Use this token to login on a CI server:



Example: firebase deploy --token "$FIREBASE_TOKEN"

thiyaga@Thiyagarajs-MacBook-Pro    ~/Desktop/projects/devfest    ⎇ master ●
```

Add it to your CircleCI Project

- Go to your project's settings by clicking the gear icon next to your project.
- Got **Build Settings > Environment Variables > Add Variable**.
- Enter **FIREBASE_TOKEN** in the `name` field, add the token we got from Firebase in the `value` field, then finally click **Add Variable.**

Now go to the **Workflows** section and hit **Rerun Workflow**

With this you should be able to deploy directly to firebase on each of your commit. Go go, deploy