Deploy to Firebase Hosting

Wow, you have come a long way and have completed some really hard steps to get this far! There are many lessons in the upcoming lessons that will improve your Firebase skills, but your chat app is finally good enough to put it out on the world wide web!

We'll cover the following ︿

- Install the Firebase CLI
- Login to Firebase
- Initialize Firebase in Your Project.
- Select Hosting From the Options
- Select Your Project
- Public Directory
- Overwrite Index (No)
- Initialization Complete
- Deploy
- Hosting URL

Install the Firebase CLI

First of all, we need to install the Firebase CLI tools. This tutorial assumes that Node is installed on the machine and npm commands can be executed. CLI tools can be installed by running the following command:

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

However, you don't need to run the command above as it is already done for you in the terminal.

Login to Firebase

Once Firebase is installed, you will need to sign in to Firebase. To do that, we will run the following command from the widget below:

```
firebase login --no-localhost
```

If you are using Firebase locally, you may use the following command: `firebase login`.

This code requires the following API keys to execute: ∧

apiKey	Not Specified...
authDomain	Not Specified...
databaseURL	Not Specified...
projectId	Not Specified...
storageBucket	Not Specified...
messagingSenderId	Not Specified...
appId	Not Specified...

```html
<!DOCTYPE html>
<html lang="en">
<head>
        <meta charset="UTF-8">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <meta http-equiv="X-UA-Compatible" content="ie=edge">
        <title>Document</title>
        <script src="https://www.gstatic.com/firebasejs/6.3.0/firebase-app.js"></script>
    <script src="https://www.gstatic.com/firebasejs/6.3.0/firebase-firestore.js"></script>
</head>
<body>
        <div id="container">
                <div id="user-options">
                        <div>Chatting as: <span id="name"></span></div>
                        <div id="change-name">change name</div>
                </div>
                <form id="message-form">
                        <input type="text" id="message-input" placeholder="message" required>
                        <button class="orange-button">send</button>
                </form>

                <div id="messages"></div>

                <button id="clear" class="purple-button">Clear All Messages</button>
        </div>
</body>
</html>
```

When you press the **Run** button on the widget above, your terminal should now look like this:

```
root@educative:/# cp -r /usercode/* /firebase-code && firebase login --no-localhost
i  Firebase optionally collects CLI usage and error reporting information to help improve our pr
oducts. Data is collected in accordance with Google's privacy policy (https://policies.google.co
m/privacy) and is not used to identify you.

? Allow Firebase to collect CLI usage and error reporting information? No

Visit this URL on any device to log in:
https://accounts.google.com/o/oauth2/auth?client_id=563584335869-fgrhgmd47bqnekij5i8b5pr03ho849e
6.apps.googleusercontent.com&scope=email%20openid%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcl
oudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Ffirebase%20https%3A%2F%
2Fwww.googleapis.com%2Fauth%2Fcloud-platform&response_type=code&state=634996752&redirect_uri=urn
%3Aietf%3Awg%3Aoauth%3A2.0%3Aoob

? Paste authorization code here:
```

If you copy-paste the URL in your browser, you will be redirected to a user sign-in window so you can choose the Google account you want to use. You must use the same account that you used when you set your project up in the last section of the course. You can copy-paste the authorization code from that URL to the terminal where it is required.
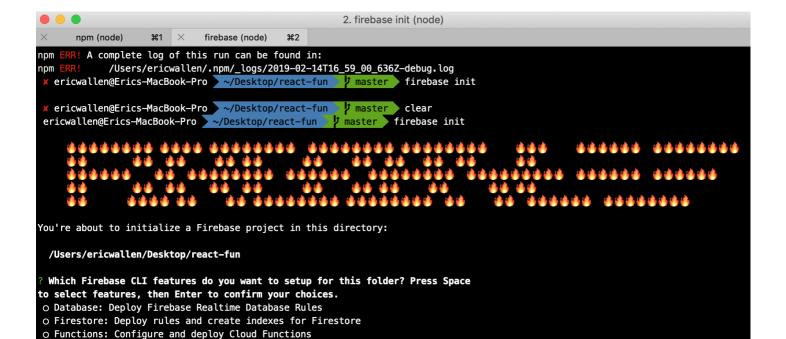
Initialize Firebase in Your Project.

Now you can initialize Firebase in your project by running the following command in the terminal provided above.

```
firebase init
```

Select Hosting From the Options

When you see the menu for firebase services, choose **Hosting** with the arrow keys (up/down) and press the space bar to select. Then, hit enter.

```
●●●                        2. firebase init (node)
 ✕      npm (node)      ⌘1    ✕    firebase (node)    ⌘2
npm ERR! A complete log of this run can be found in:
npm ERR!     /Users/ericwallen/.npm/_logs/2019-02-14T16_59_00_636Z-debug.log
 ✗ ericwallen@Erics-MacBook-Pro  ~/Desktop/react-fun  ⎇ master   firebase init

 ✗ ericwallen@Erics-MacBook-Pro  ~/Desktop/react-fun  ⎇ master   clear
   ericwallen@Erics-MacBook-Pro  ~/Desktop/react-fun  ⎇ master   firebase init



You're about to initialize a Firebase project in this directory:

  /Users/ericwallen/Desktop/react-fun

? Which Firebase CLI features do you want to setup for this folder? Press Space
to select features, then Enter to confirm your choices.
 ◯ Database: Deploy Firebase Realtime Database Rules
 ◯ Firestore: Deploy rules and create indexes for Firestore
 ◯ Functions: Configure and deploy Cloud Functions
```

```
>● Hosting: Configure and deploy Firebase Hosting sites
 ○ Storage: Deploy Cloud Storage security rules
```

Select Your Project

First, select that you will be using an existing project:

```
=== Project Setup

First, let's associate this project directory with a Firebase project.
You can create multiple project aliases by running firebase use --add,
but for now we'll just set up a default project.

? Please select an option: (Use arrow keys)
❯ Use an existing project
  Create a new project
  Add Firebase to an existing Google Cloud Platform project
  Don't set up a default project
```

Then, select your project by using the arrow keys and then hit enter.

```
? Select a default Firebase project for this directory: (Use arrow keys)
❯ fir-project-17a9e (Demo Project)
```

Public Directory

Add `./firebase-code` as your public directory. This tells Firebase to look for index.html in the root of your app. Then you will be asked if you want to configure it as a single-page app. Select no by entering **N**. Notice that the **N** is capital in the **(y/N)**. That means that if you hit enter without putting **N** it will default to **N**.

```
=== Hosting Setup

Your public directory is the folder (relative to your project directory) that
will contain Hosting assets to be uploaded with firebase deploy. If you
have a build process for your assets, use your build's output directory.

? What do you want to use as your public directory? ./firebase-code
? Configure as a single-page app (rewrite all urls to /index.html)? No
```

Overwrite Index (No)

You will be asked if you want to overwrite index.html. Add the **N** and press enter.

```
? Configure as a single-page app (rewrite all urls to /index.html)? No
✔  Wrote ./firebase-code/404.html
? File ./firebase-code/index.html already exists. Overwrite? (y/N) No
```

Initialization Complete

You will see several information dialogs in your terminal marking the end of initialization.

Deploy

Now run the following command in your terminal:

```
firebase deploy
```

```
=== Deploying to 'chat-app-aba69'...

i  deploying hosting
i  hosting[chat-app-aba69]: beginning deploy...
i  hosting[chat-app-aba69]: found 18 files in ./
✔  hosting[chat-app-aba69]: file upload complete
i  hosting[chat-app-aba69]: finalizing version...
✔  hosting[chat-app-aba69]: version finalized
i  hosting[chat-app-aba69]: releasing new version...
✔  hosting[chat-app-aba69]: release complete

✔  Deploy complete!

Project Console: https://console.firebase.google.com/project/chat-app-aba69/overvie
w
Hosting URL: https://chat-app-aba69.firebaseapp.com
 ericwallen@Erics-MacBook-Pro  ~/Documents/course-2-chat-app-final   master 
```

Hosting URL

Now you can see your hosting URL in the terminal. Go to the URL in your browser and you will see a fully deployed live app.

In the next lesson, I will show you how to have a real live chat with someone.