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:

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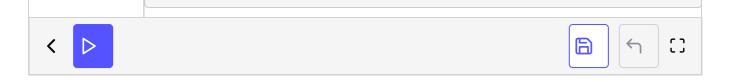
firebase login --no-localhost

If you are using Firebase locally, you may use the following command:

firebase login.

```
This code requires the following keys to execute:
Key:
                        Value:
apiKey
                          Not Specified...
authDomain
                          Not Specified...
databaseURL
                          Not Specified...
projectld
                          Not Specified...
storageBucket
                          Not Specified...
messagingSenderld
                          Not Specified...
                          Not Specified...
appld
               body{
                                                                                     font-family: sans-serif;
 index.html
                   color: #666;
               }
 app.js
               #container{
    style.css
                   max-width: 400px;
                   margin: auto;
               }
               #user-options{
                   display: grid;
                   grid-template-columns: 1fr 1fr;
                   grid-gap: 20px;
                   margin: 40px 0px 15px 0px;
               }
               #change-name{
                   text-align: right;
                   color: #0fabbc;
                   font-size: 10px;
                   cursor: pointer;
               }
               #messages > div{
                   border-radius: 10px;
                   background-color: #EFEFEF;
                   margin: 10px 0px 10px 0px;
                   padding: 10px;
               }
               #messages{
                   margin: 15px 0px 10px 0px;
```

```
input{
    padding: 10px;
    border-radius: 10px;
    border: 1px solid #CCC;
    width: 100%;
    margin-bottom: 10px;
    box-sizing:border-box
}
input:focus{
    outline: none;
}
.name{
    font-size: 11px;
   font-weight: 700;
}
#name{
    font-style: italic;
    font-weight: 600;
}
button{
    color: #fff;
    width: 100%;
    text-align: center;
    border: 0px;
    border-radius: 10px;
    padding: 10px 0px 10px 0px;
    font-size: 16px;
    outline: 0;
    cursor: pointer;
}
.purple-button{
    background-color: #aa96da ;
        box-shadow: 0 4px #7765a0;
}
.purple-button:hover{
    box-shadow: 0 2px #7765a0;
}
.purple-button:active{
    box-shadow: 0 0 #7765a0;
}
.orange-button{
    background-color: #ffbd69;
        box-shadow: 0 4px #d19c57;
}
.orange-button:hover{
    box-shadow: 0 2px #d19c57;
}
.orange-button:active{
    box-shadow: 0 0 #d19c57;
```



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%2Oopenid%2Ohttps%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcl
oudplatformprojects.readonly%2Ohttps%3A%2F%2Fwww.googleapis.com%2Fauth%2Ffirebase%2Ohttps%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)
                            firebase (node)
                                          32
       A complete log of this run can be found in:
           /Users/ericwallen/.npm/_logs/2019-02-14T16_59_00_636Z-debug.log
 # ericwallen@Erics-MacBook-Pro ~/Desktop/react-fun
iinaanii aisa aisiinaa jaaniini jariinii
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.

O Database: Deploy Firebase Realtime Database Rules
o Firestore: Deploy rules and create indexes for Firestore
o Functions: Configure and deploy Cloud Functions
> Hosting: Configure and deploy Firebase Hosting sites
o 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.

```
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
```

```
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/overview
WHosting 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 IIRI in the terminal Go to the IIRI 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.