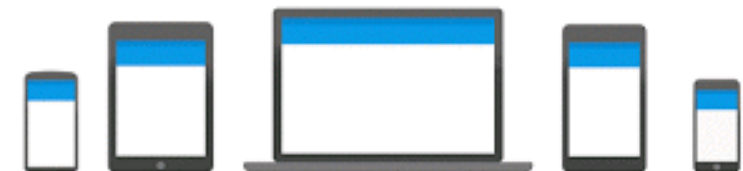




# Firestore-NodeMCU

*NodeMCU interface with Firestore*

Dr. Sarwan Singh  
NIELIT Chandigarh

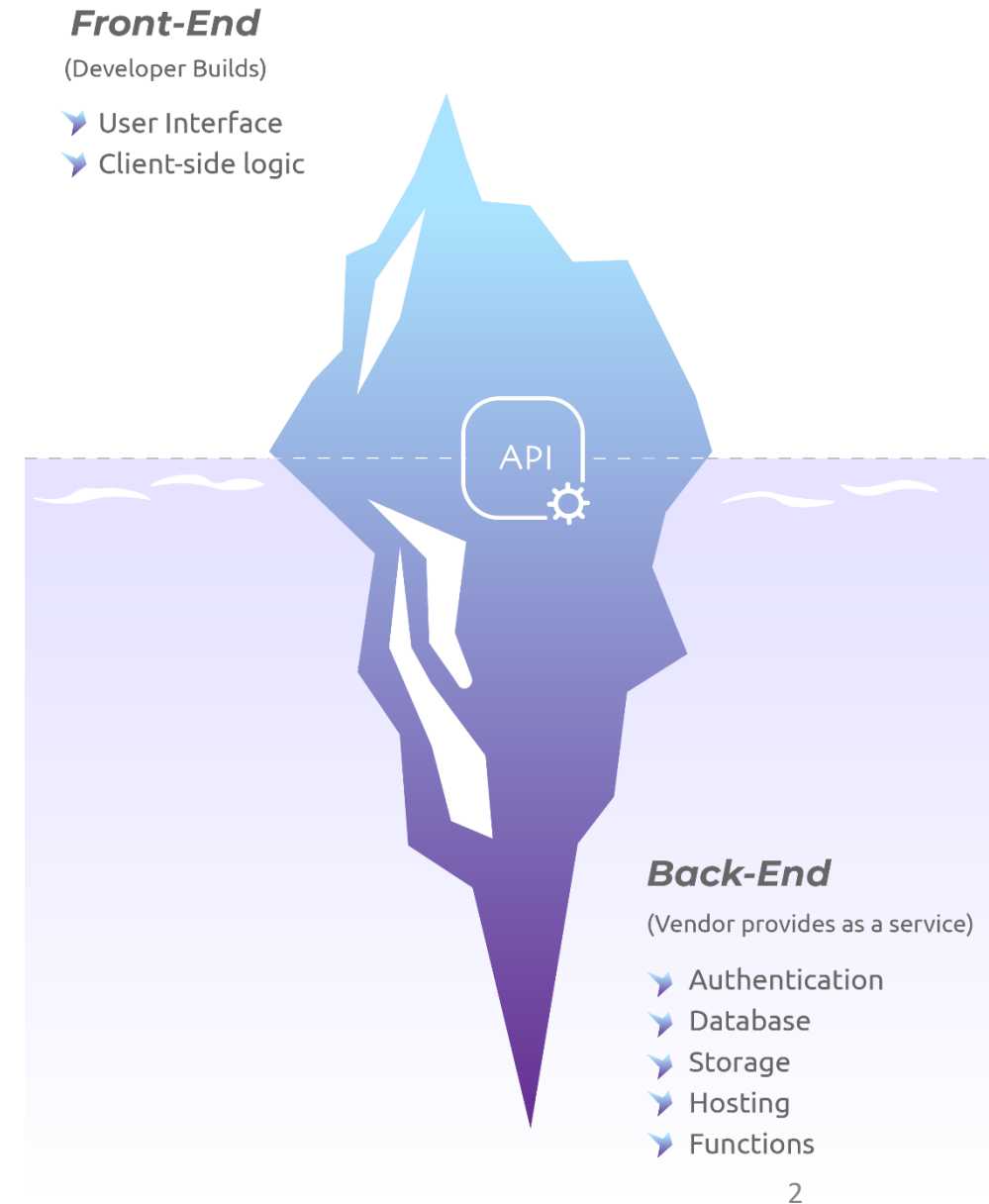


# Agenda

- Firebase – NodeMCU
- Hosting website on Firebase

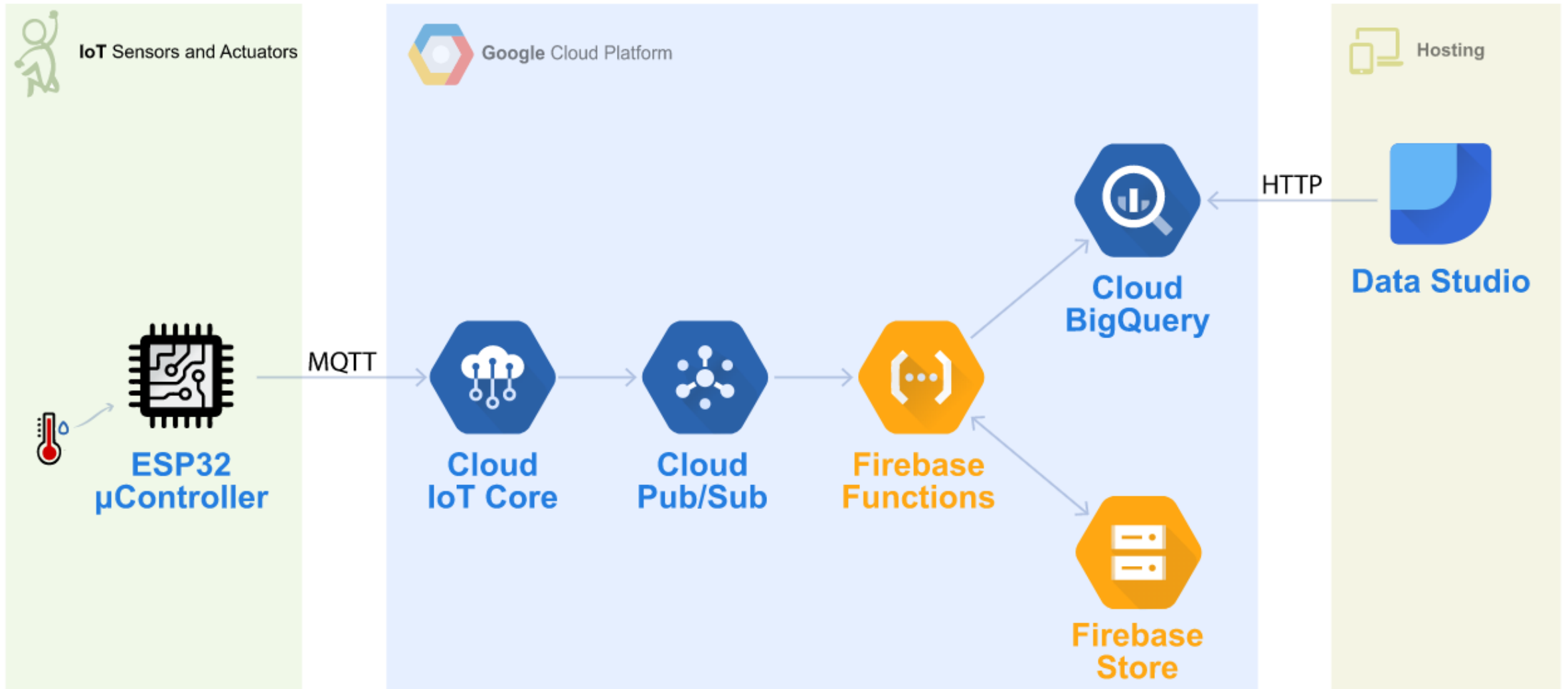
## References

- google
- firebase.google.com



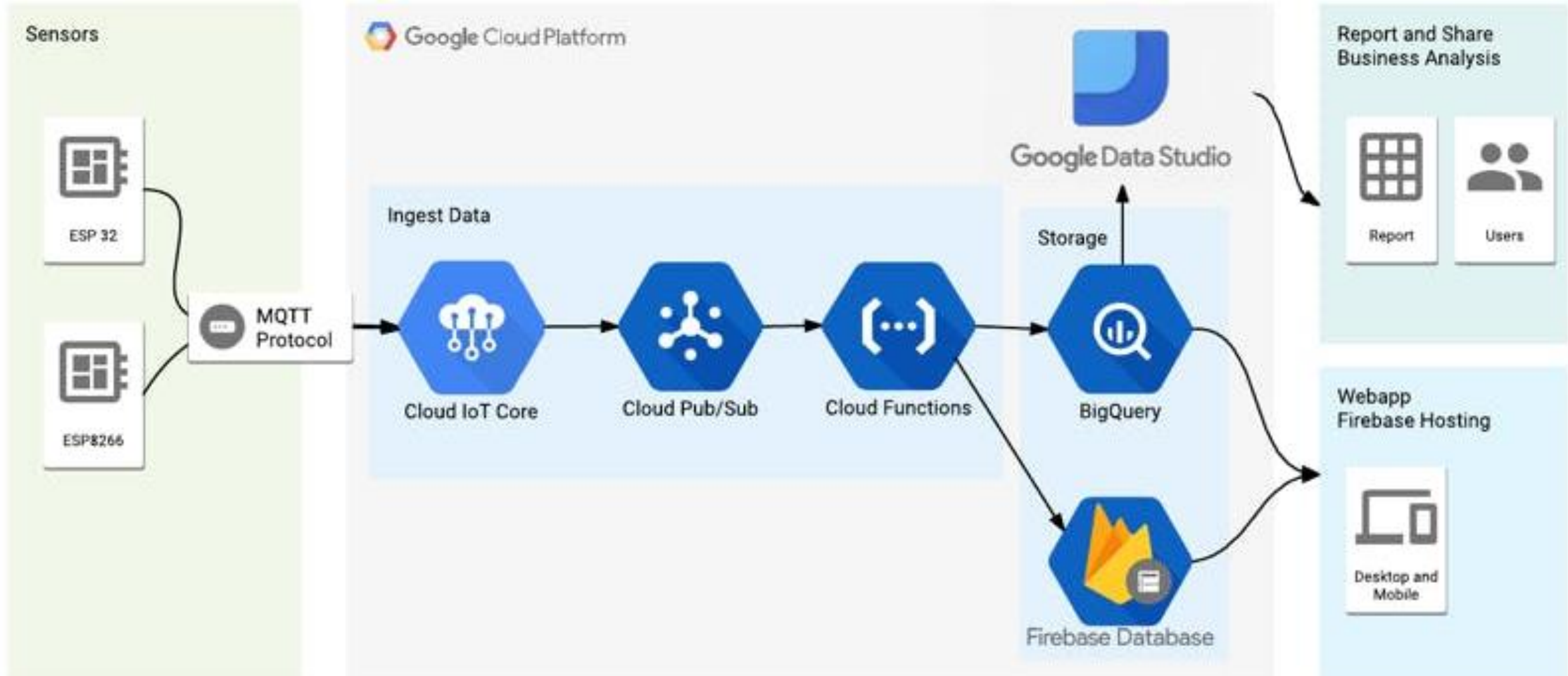


# Design Scenario – Use Case: Designing IoT based application using GCP





# Design Scenario – Use Case: Designing IoT based application using GCP



console.firebase.google.com/project/nodemcu-nielit125/authentication/users


Go to docs

## × Add Firebase to your web app

- 1 Register app
 

App nickname ?

nielit125

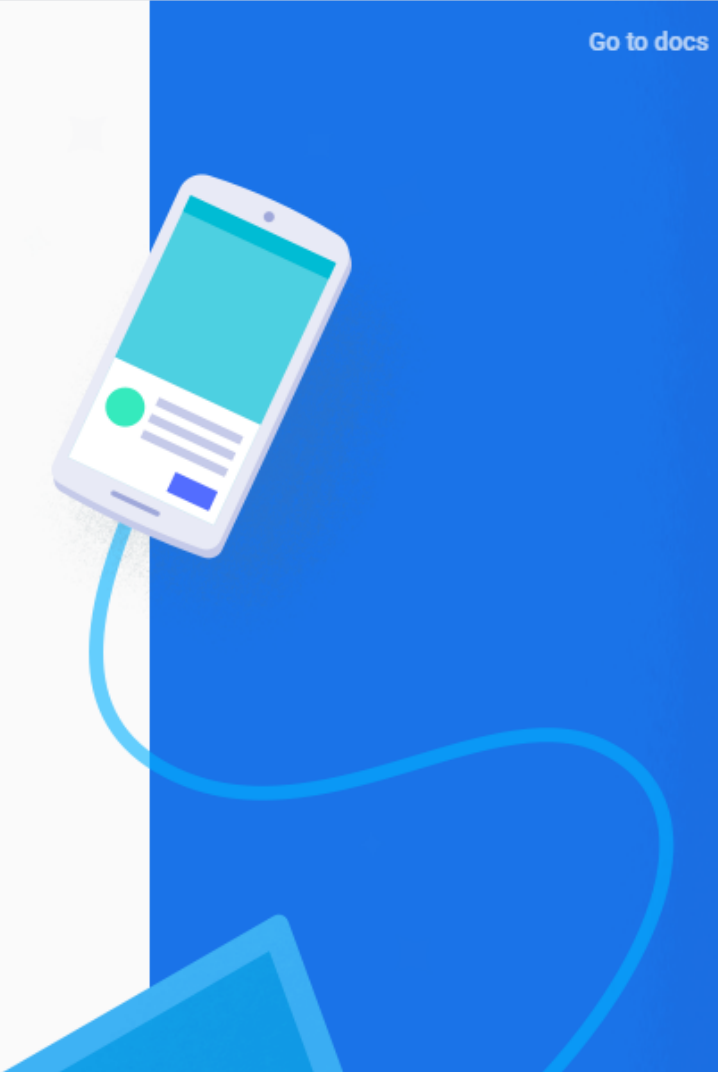
☒ Also set up **Firebase Hosting** for this app. [Learn more](#) 

Hosting can also be set up later. It's free to get started anytime.

Create a new site

nielit125 .web.app

Next



✓ Register app

2 Add Firebase SDK

Copy and paste these scripts into the bottom of your <body> tag, but before you use any Firebase services:

```
<!-- The core Firebase JS SDK is always required and must be listed first -->
<script src="/__/firebase/7.13.1/firebase-app.js"></script>

<!-- TODO: Add SDKs for Firebase products that you want to use
https://firebase.google.com/docs/web/setup#available-libraries -->

<!-- Initialize Firebase -->
<script src="/__/firebase/init.js"></script>
```

Learn more about Firebase for web: [Get Started](#), [Web SDK API Reference](#), [Samples](#)

Next

3 Install Firebase CLI

4 Deploy to Firebase Hosting

Go to docs

console.firebase.google.com/project/nodemcu-nielit125/authentication/users

## × Add Firebase to your web app

- ✓ Register app
- ✓ Add Firebase SDK
- 3 Install Firebase CLI**

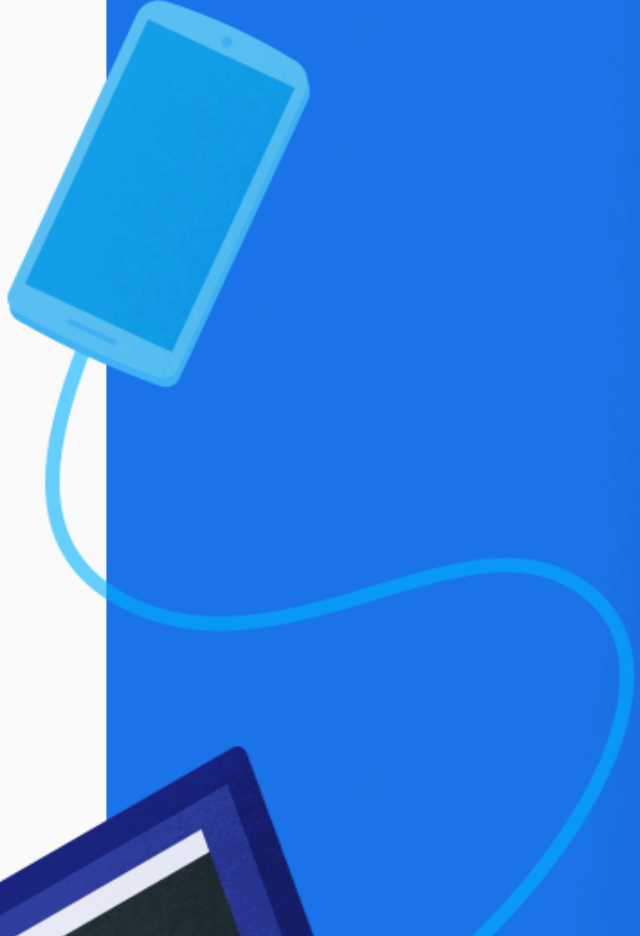
To host your site with Firebase Hosting, you need the Firebase CLI (a command line tool).  
Run the following [npm](#) [🔗](#) command to install the CLI or update to the latest CLI version.

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

Doesn't work? Take a look at the [Firebase CLI reference](#) [🔗](#) or change your [npm permissions](#) [🔗](#)

**Next**
- 4 Deploy to Firebase Hosting

Go to docs







- ✓ Register app
- ✓ Add Firebase SDK
- ✓ Install Firebase CLI
- 4** **Deploy to Firebase Hosting**

You can deploy now or [later](#). To deploy now, open a terminal window, then navigate to or create a root directory for your web app.

Sign in to Google

```
$ firebase login
```



## Initiate your project

Run this command from your app's root directory:

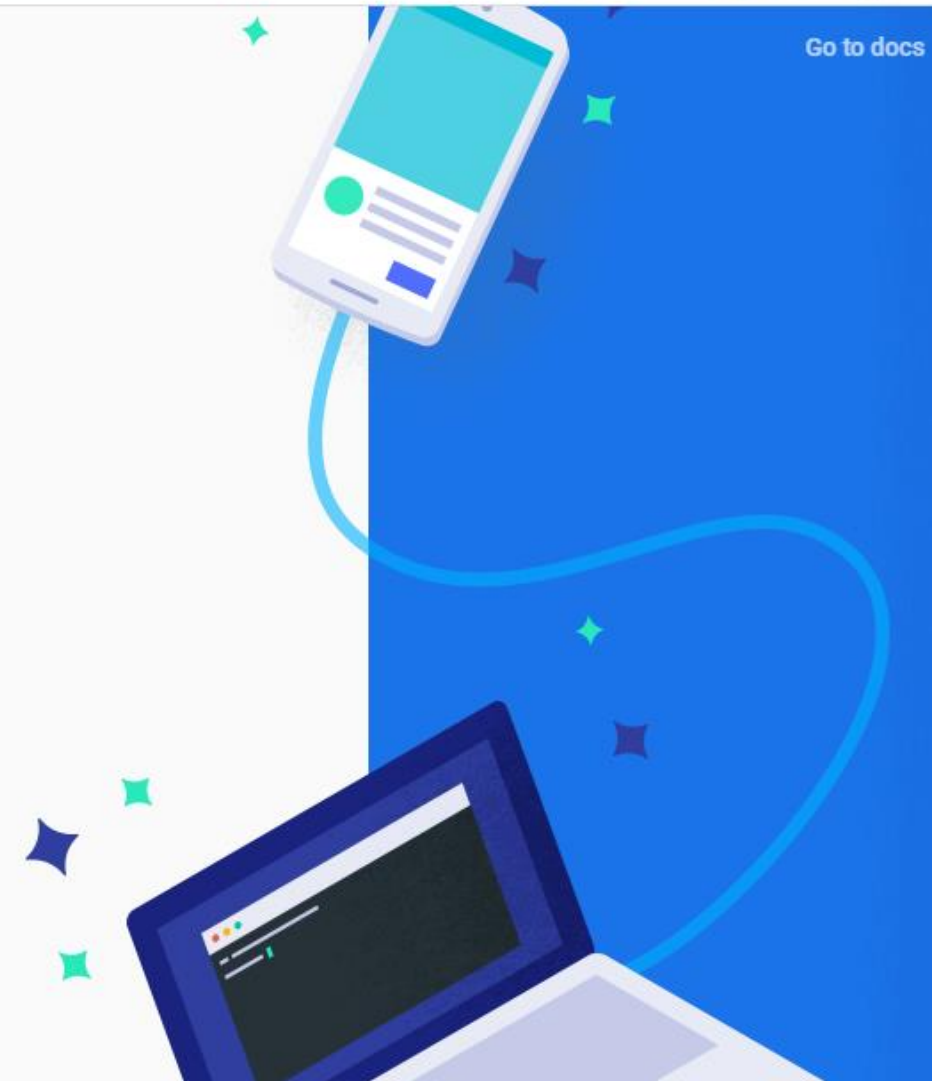
```
$ firebase init
```



Specify your site in `firebase.json`

Add your site name to the [firebase.json](#)  configuration file. After you get set up, see the [best practices for multi-site deployment](#) .

{





← → ↻ 🏠 🔒 console.firebase.google.com/project/nodemcu-nielit125/authentication/users ☆ 🌙 🔍 🔒 🐱 ⚙️ 👤 ⋮

```
$ firebase init
```

Specify your site in firebase.json  
Add your site name to the [firebase.json](#) configuration file. After you get set up, see the [best practices for multi-site deployment](#).


```
{  
  "hosting": {  
    "site": "nielit125",  
    "public": "public",  
    ...  
  }  
}
```

When you're ready, deploy your web app  
Put your static files (e.g., HTML, CSS, JS) in your app's deploy directory (the default is "public").  
Then, run this command from your app's root directory:

```
$ firebase deploy --only hosting:nielit125
```

After deploying, view your app at [nielit125.web.app](#)  
Need help? Check out the [Hosting docs](#)

[Continue to console](#)



[Go to docs](#)

```
C:\Windows\System32\cmd.exe

f:\IoT WKP\firebase\firebaseweb>firebase init

#####  ####  #####  #####  #####  ###  #####  #####
##      ##  ##      ##  ##      ##      ##  ##      ##
#####  ##  #####  #####  #####  #####  #####  #####
##      ##  ##      ##  ##      ##      ##  ##      ##
##      ####  ##      ##  #####  #####  ##      ##  #####

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

  f:\IoT WKP\firebase\firebaseweb

Before we get started, keep in mind:

  * You are initializing in an existing Firebase project directory

? Are you ready to proceed? Yes
? Which Firebase CLI features do you want to set up for this folder? Press Space to select features, then Enter to confirm your choices. (Press <space> to select, <a> to toggle all, <i> to invert selection)

Error: Must select at least one feature. Use SPACEBAR to select features, or provide a feature with firebase init [feature_name]

f:\IoT WKP\firebase\firebaseweb>firebase deploy --only hosting:nielit125

=== Deploying to 'nodemcu-nielit125'...

i  deploying hosting

Error: Specified public directory 'public' does not exist, can't deploy hosting to site nielit125
```

# <https://nielit125.firebaseio.com/>



```
C:\Windows\System32\cmd.exe

f:\IoT WKP\firebase\firebaseweb>firebase deploy --only hosting:nielit125

=== Deploying to 'nodemcu-nielit125'...

i  deploying hosting

Error: Specified public directory 'public' does not exist, can't deploy hosting to site nielit125

Having trouble? Try firebase [command] --help

f:\IoT WKP\firebase\firebaseweb>firebase deploy --only hosting:nielit125

=== Deploying to 'nodemcu-nielit125'...

i  deploying hosting
i  hosting[nielit125]: beginning deploy...
i  hosting[nielit125]: found 105 files in public
+  hosting[nielit125]: file upload complete
i  hosting[nielit125]: finalizing version...
+  hosting[nielit125]: version finalized
i  hosting[nielit125]: releasing new version...
+  hosting[nielit125]: release complete

+  Deploy complete!

Project Console: https://console.firebase.google.com/project/nodemcu-nielit125/overview
Hosting URL: https://nielit125.firebaseio.com

f:\IoT WKP\firebase\firebaseweb>
```