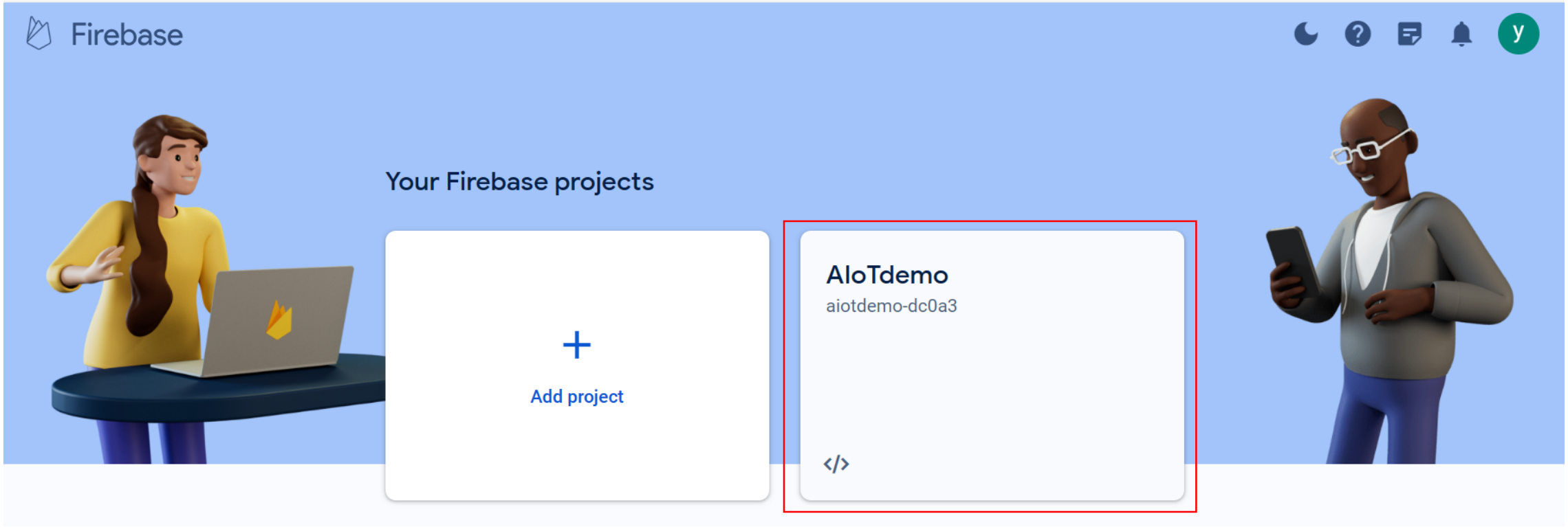
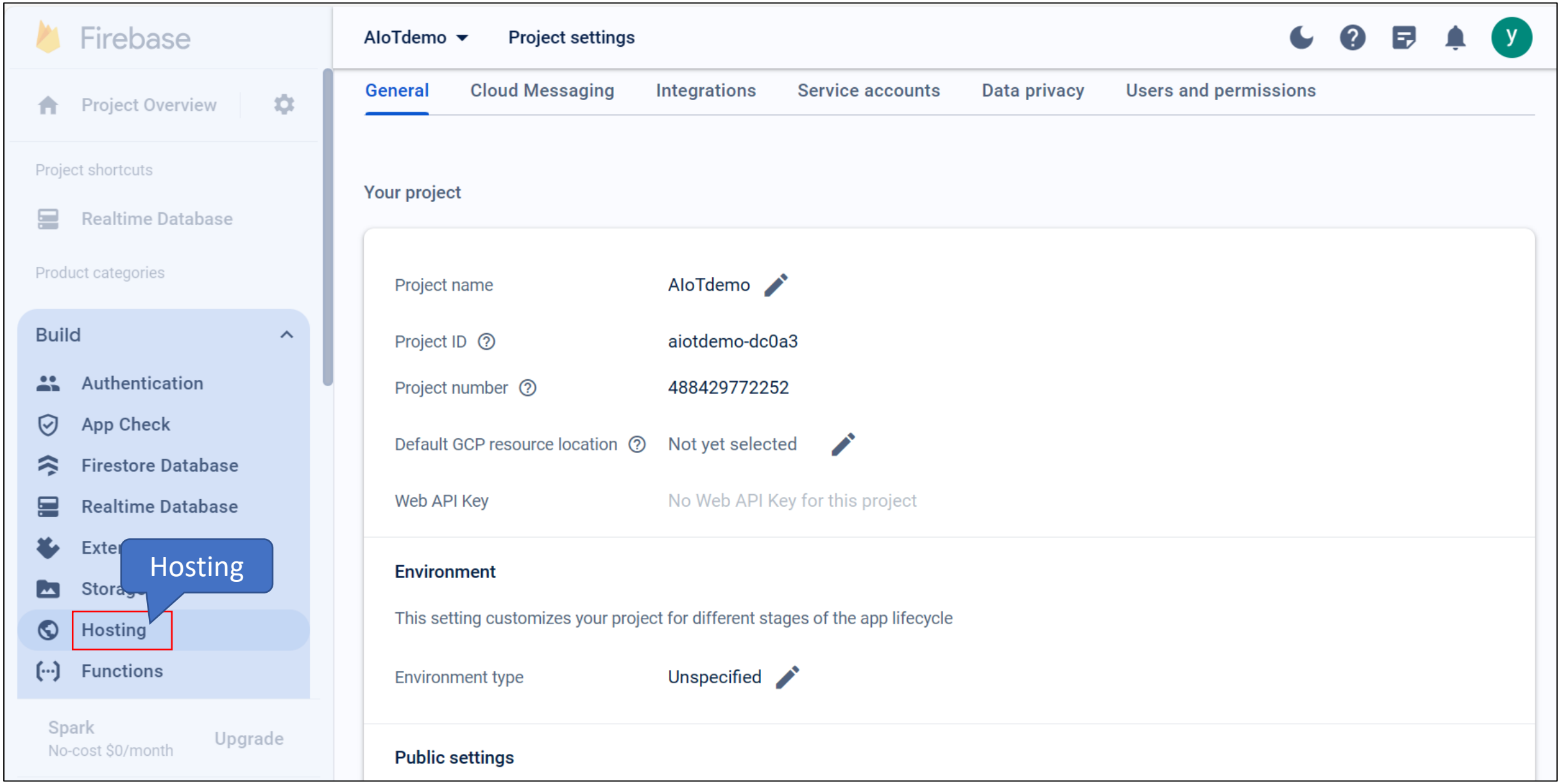
物聯網實作

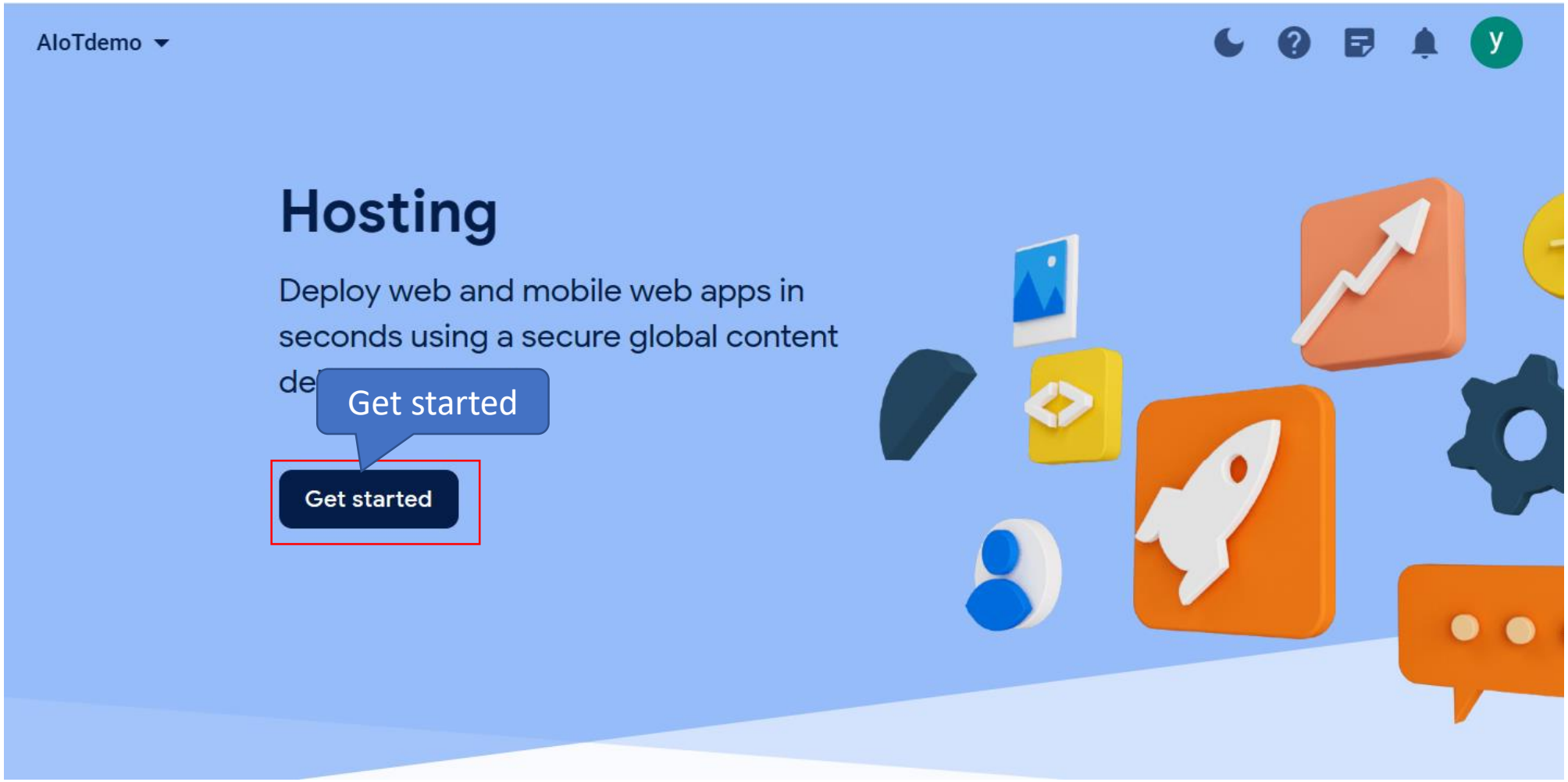
(十三)

Open a Project

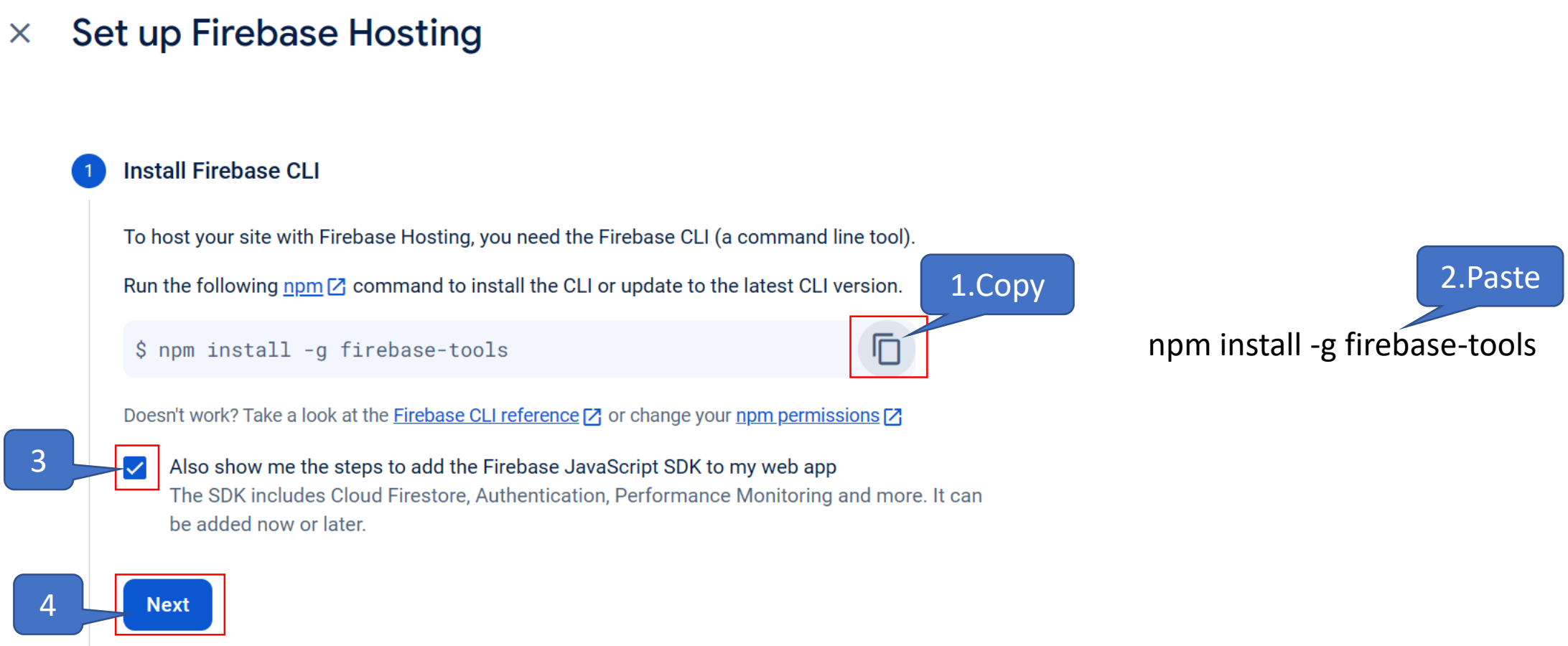



Firebase
Project Overview
Project shortcuts
Realtime Database
Product categories
Build
Authentication
App Check
Firestore Database
Realtime Database
Hosting
Functions
Spark
No-cost $0/month
Upgrade
AIoTdemo
Project settings
General
Cloud Messaging
Integrations
Service accounts
Data privacy
Users and permissions
Your project
Project name
AIoTdemo
Project ID
aiotdemo-dc0a3
Project number
488429772252
Default GCP resource location
Not yet selected
Web API Key
No Web API Key for this project
Environment
This setting customizes your project for different stages of the app lifecycle
Environment type
Unspecified
Public settings

Hosting

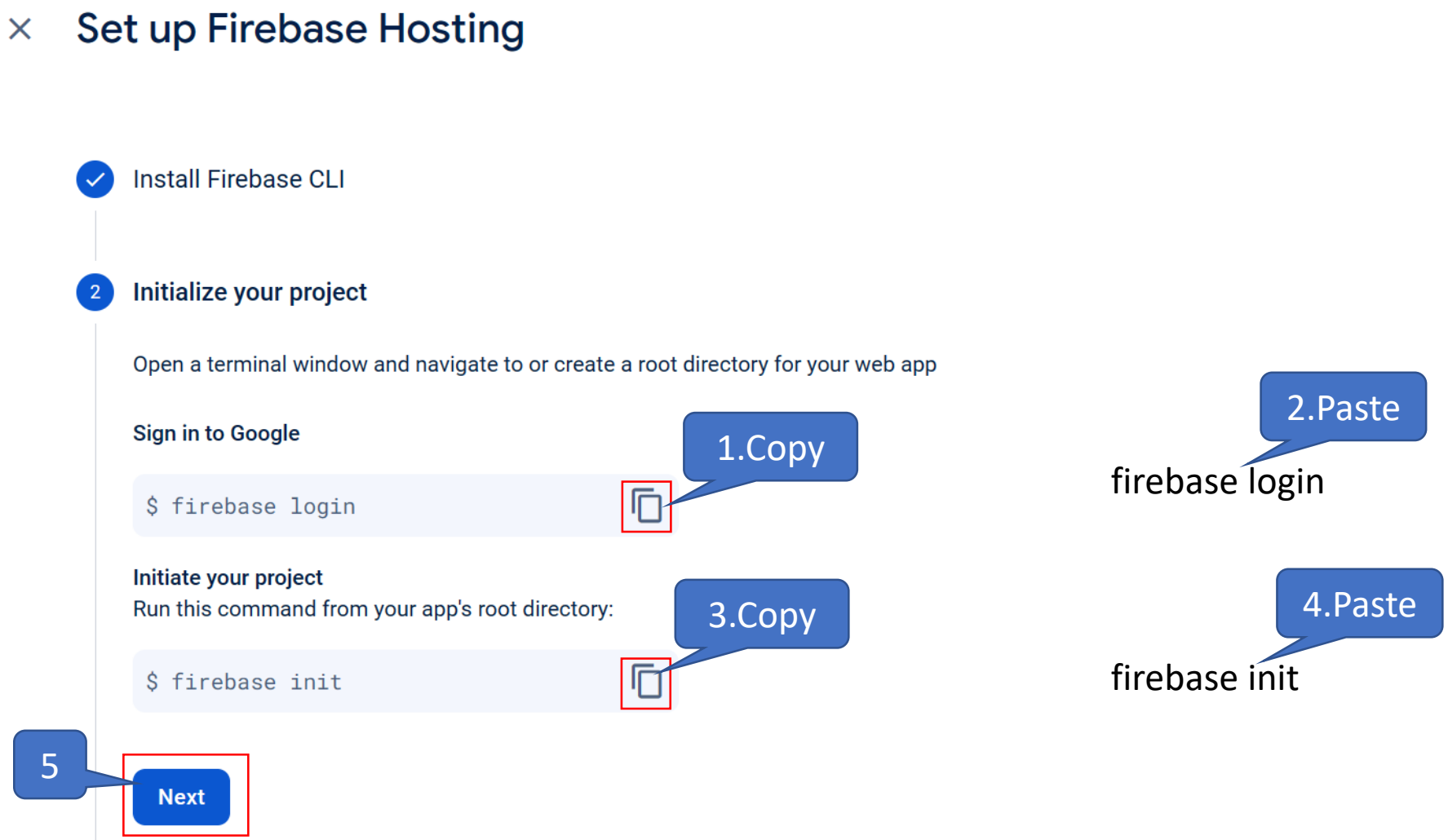

AIoTdemo
y
Hosting
Deploy web and mobile web apps in
seconds using a secure global content
de
Get started
Get started

Set up Firebase Hosting

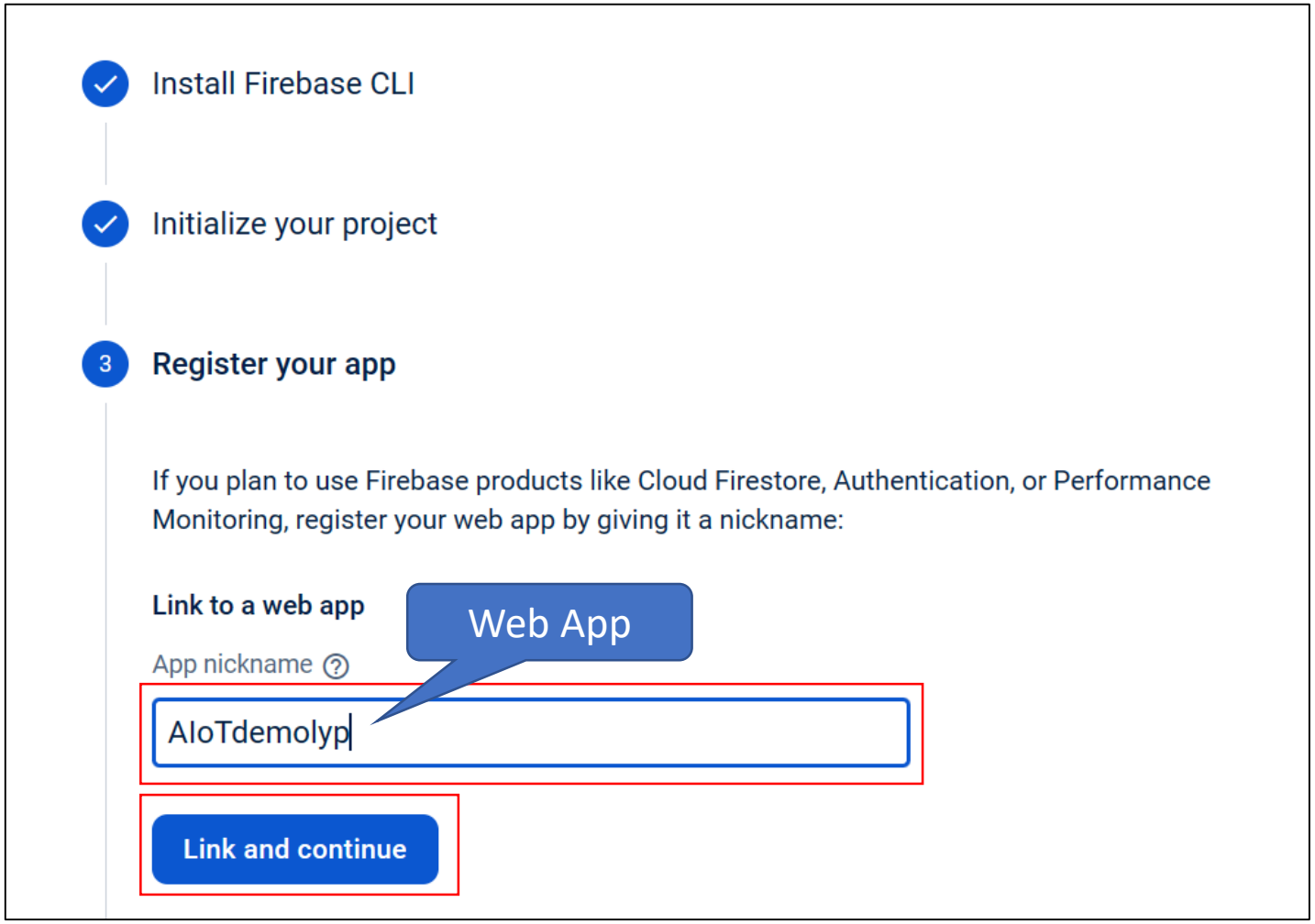


npm install -g firebase-tools

Set up Firebase Hosting



Set up Firebase Hosting



1.Copy

Next

3

2.Paste

```
<script type="module">
  // Import the functions you need from the SDKs you need
  import { initializeApp } from
"https://www.gstatic.com/firebasejs/10.7.1/firebase-app.js";
  import { getAnalytics } from
"https://www.gstatic.com/firebasejs/10.7.1/firebase-analytics.js";
  // TODO: Add SDKs for Firebase products that you want to use
  // https://firebase.google.com/docs/web/setup#available-libraries

  // Your web app's Firebase configuration
  // For Firebase JS SDK v7.20.0 and later, measurementId is optional
  const firebaseConfig = {
  };

  // Initialize Firebase
  const app = initializeApp(firebaseConfig);
  const analytics = getAnalytics(app);
</script>
```

Set up Firebase Hosting

- Install Firebase CLI
- Initialize your project
- Register your app
- Add Firebase SDK
- 5 **Deploy to Firebase Hosting**

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
```

1.Copy

After deploying, view your app at aiotdemo-dc0a3.web.app
Need help? Check out the Hosting docs

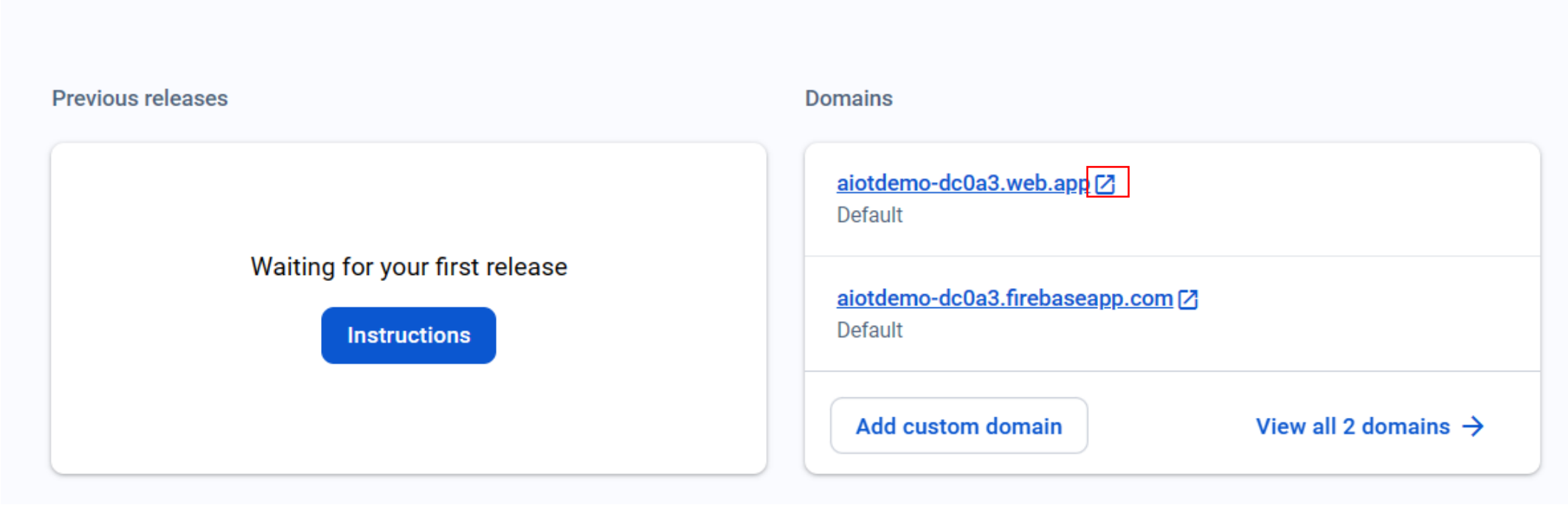
3

Continue to console

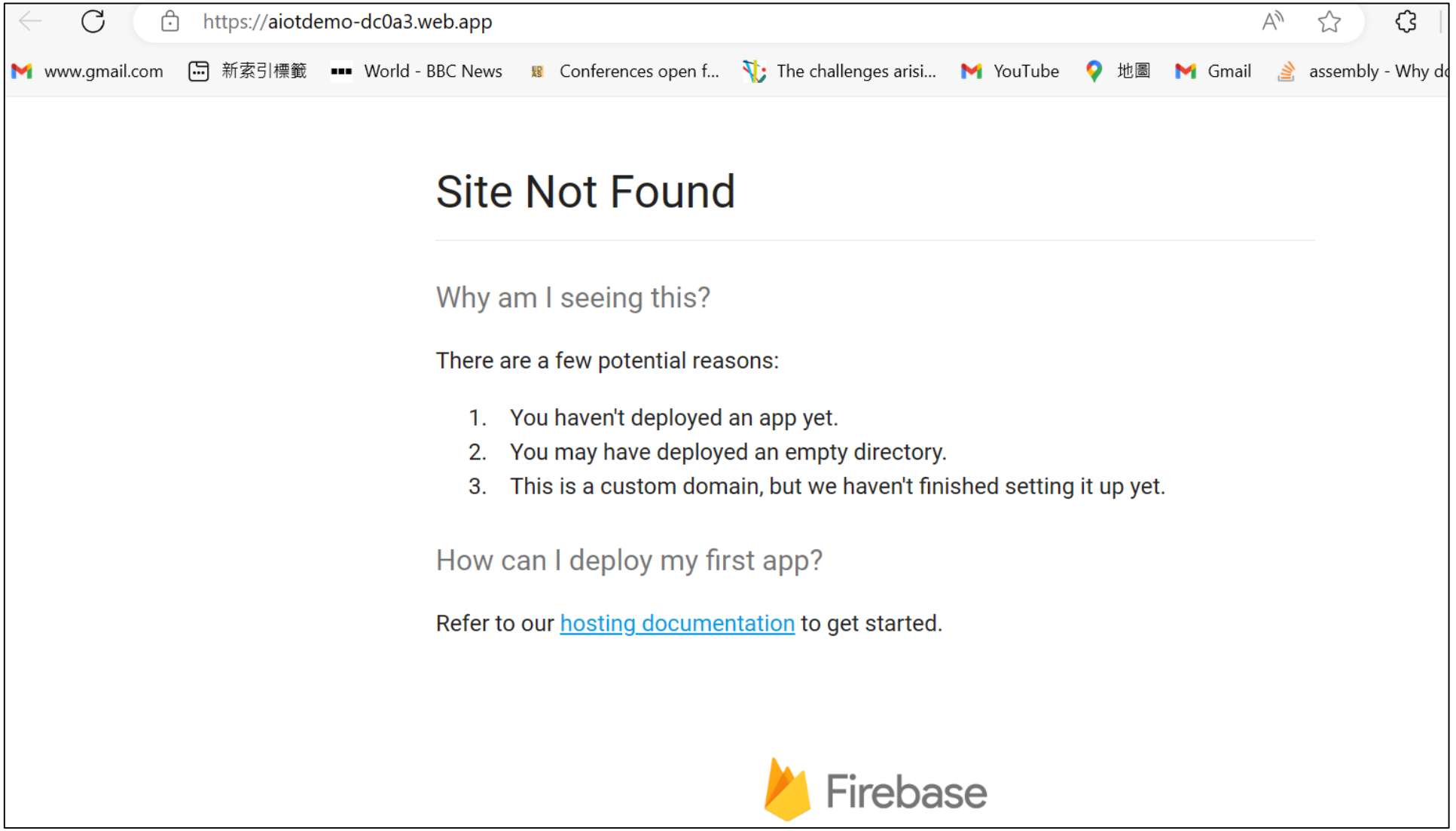
2.Paste

firebase deploy

Open the Web App

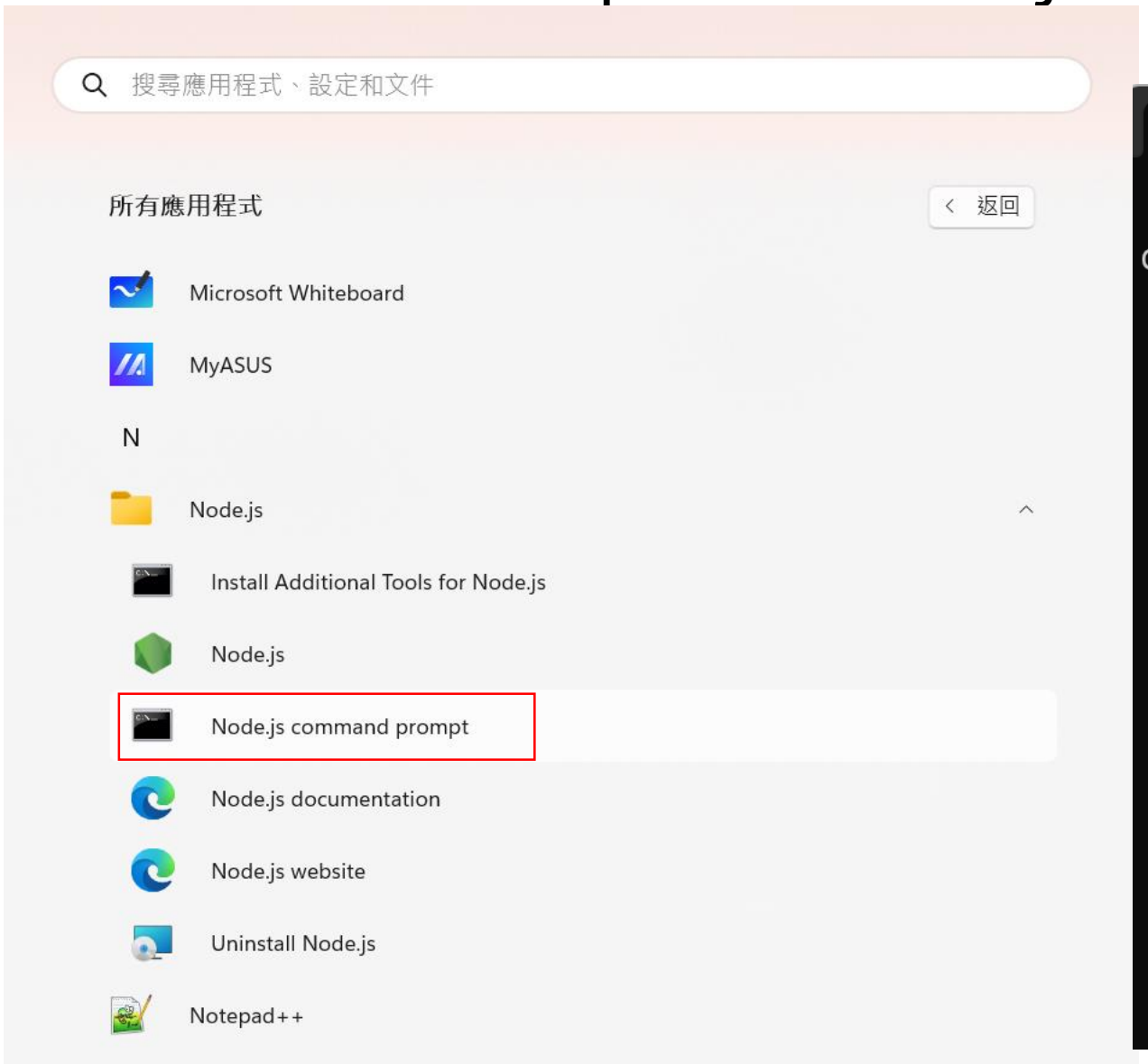


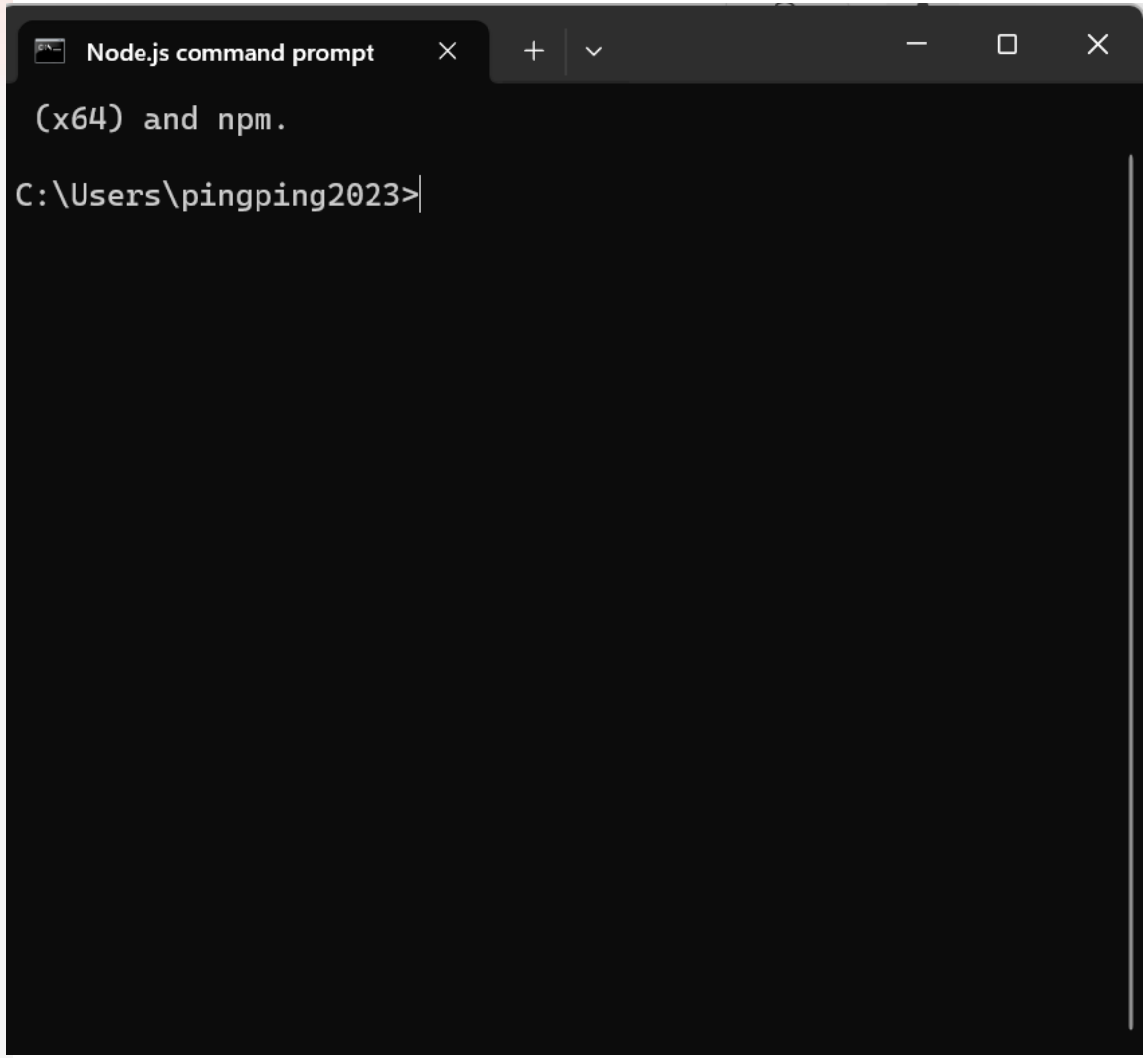
Web App


https://aiotdemo-dc0a3.web.app
www.gmail.com
新索引標籤
World - BBC News
Conferences open f...
The challenges arisi...
YouTube
地圖
Gmail
assembly - Why d
Site Not Found
Why am I seeing this?
There are a few potential reasons:
1. You haven't deployed an app yet.
2. You may have deployed an empty directory.
3. This is a custom domain, but we haven't finished setting it up yet.
How can I deploy my first app?
Refer to our hosting documentation to get started.
Firebase

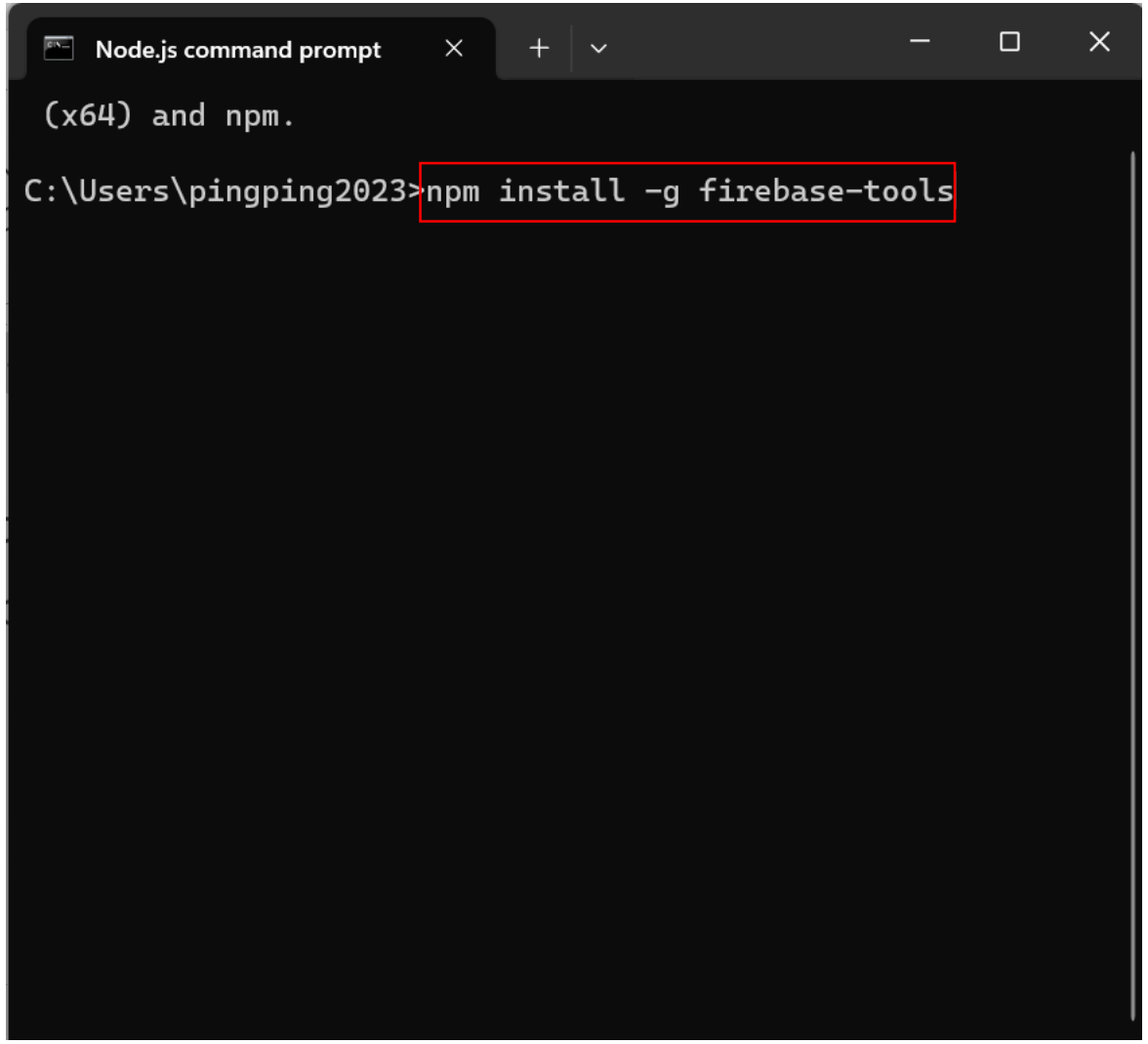
- npm install -g firebase-tools
- firebase login
- firebase init
- firebase deploy

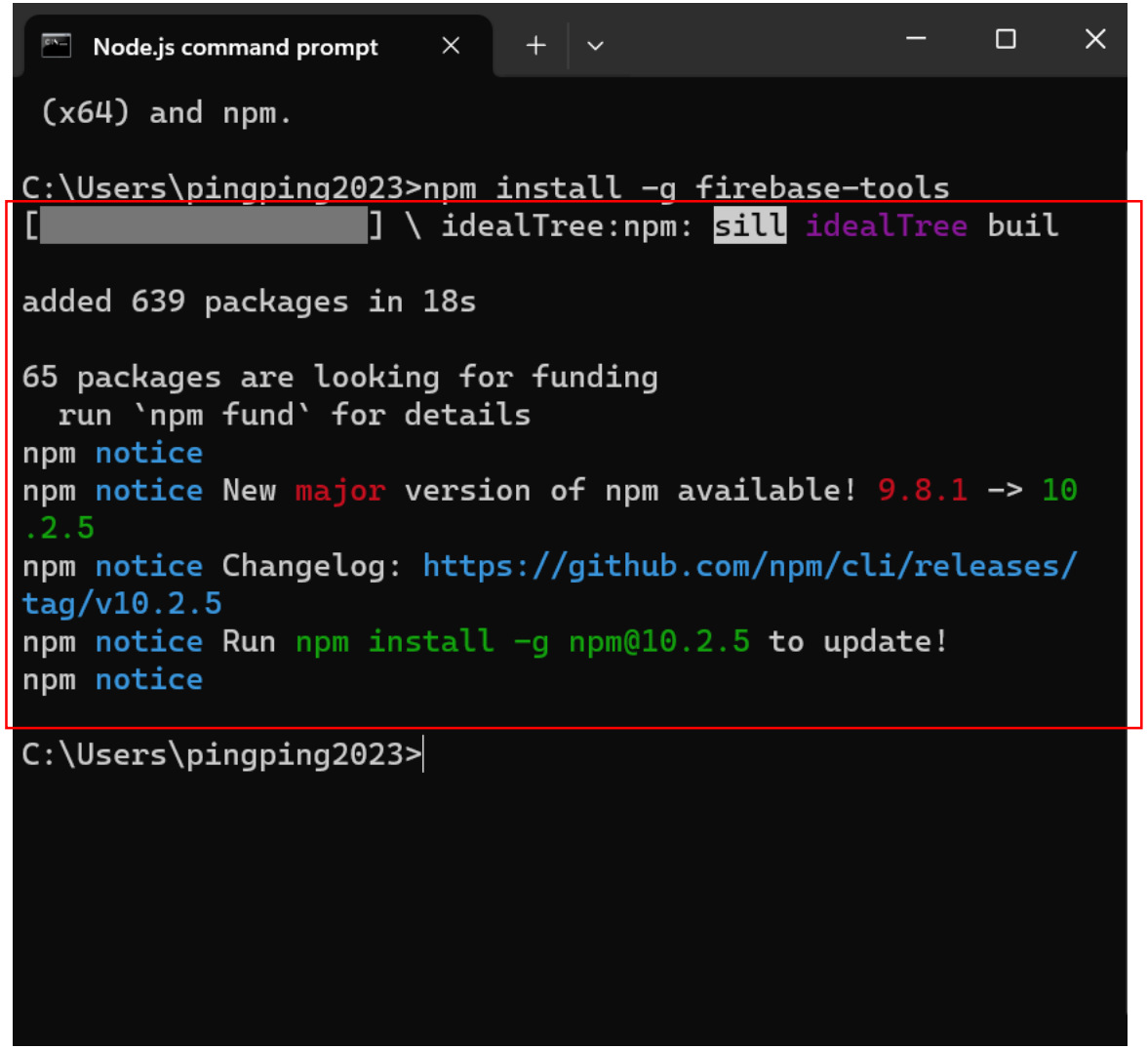
Open Node.js command



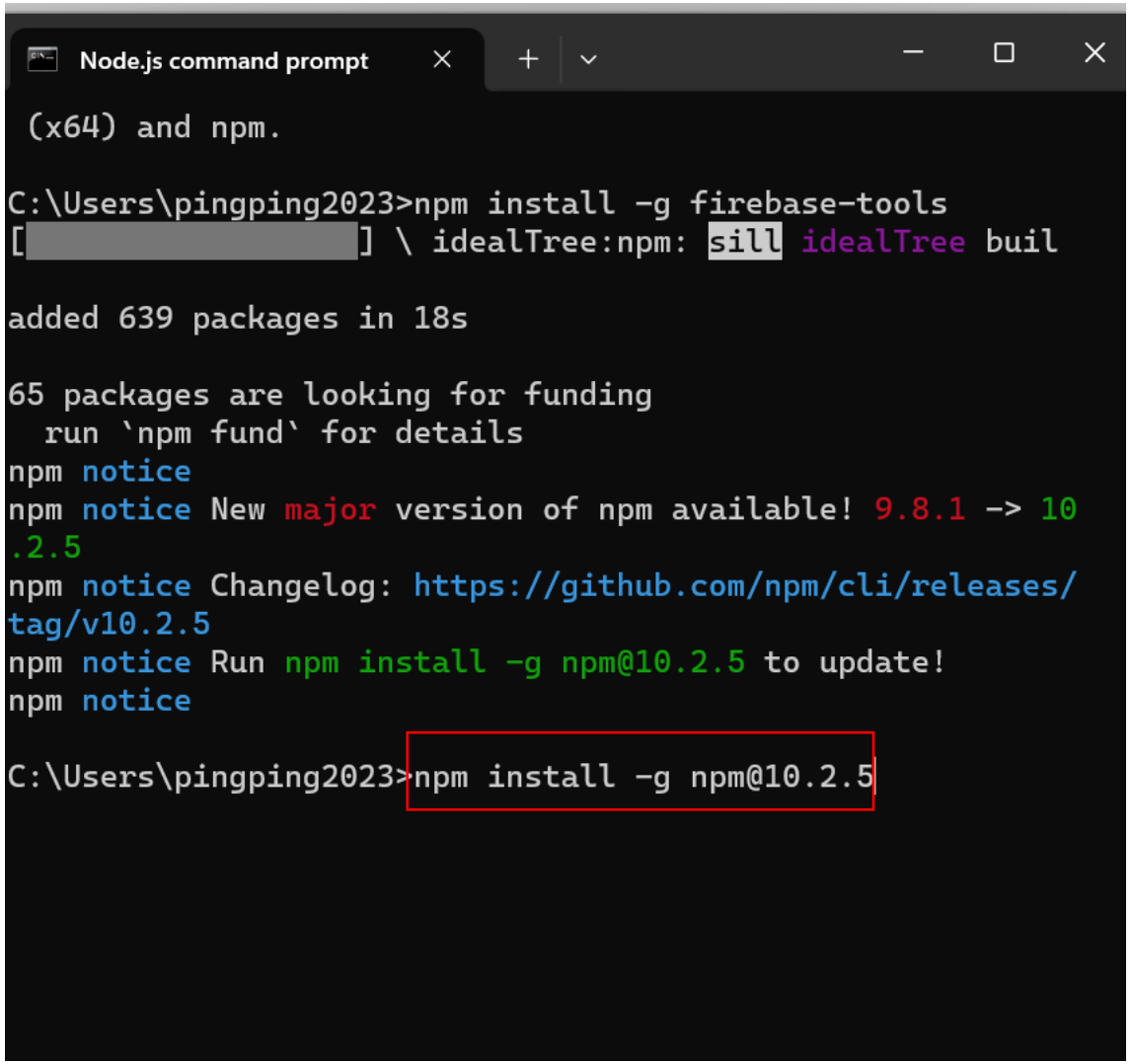


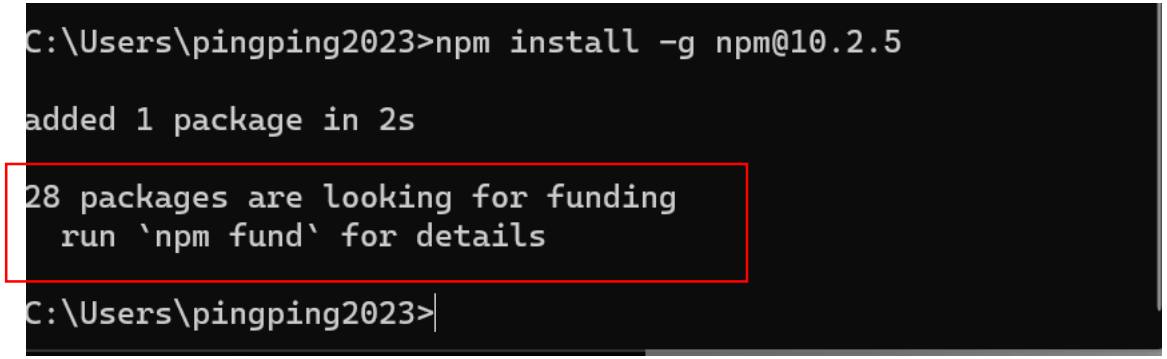
npm install -g firebase-tools



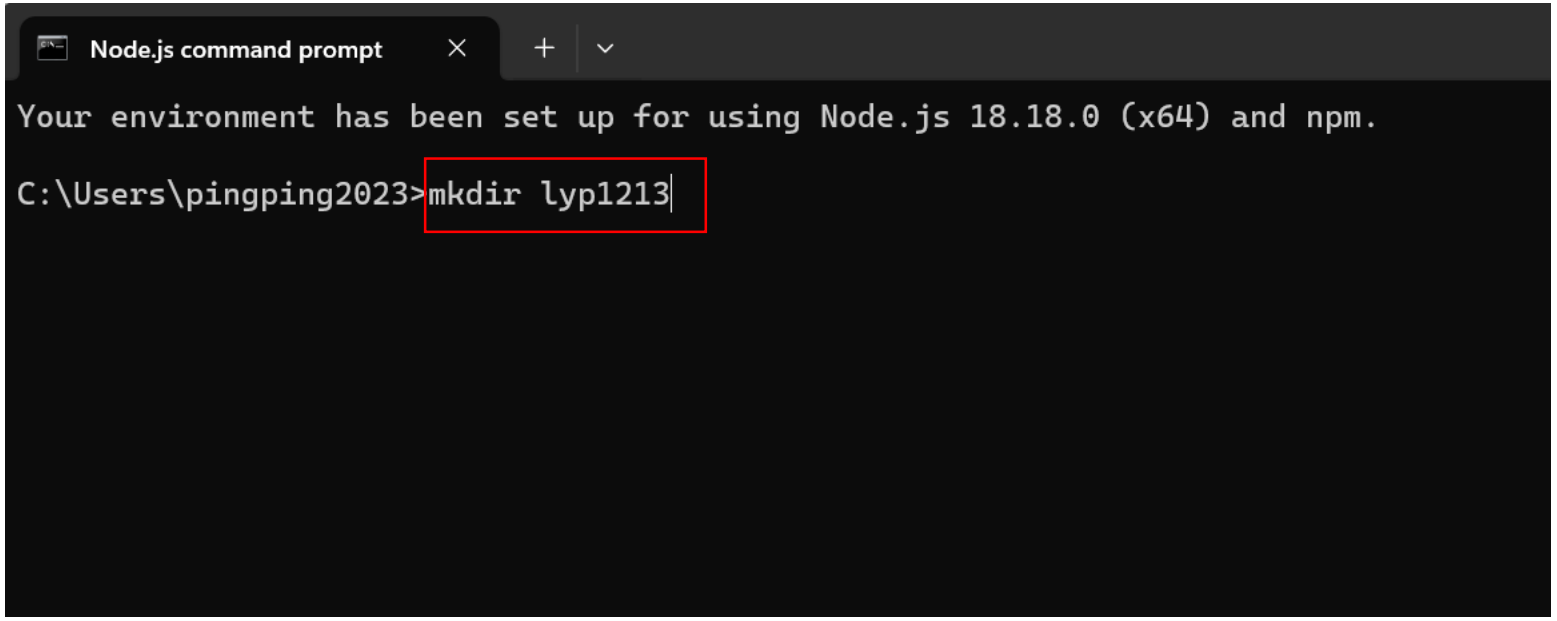


npm install –g npm@10.2.5

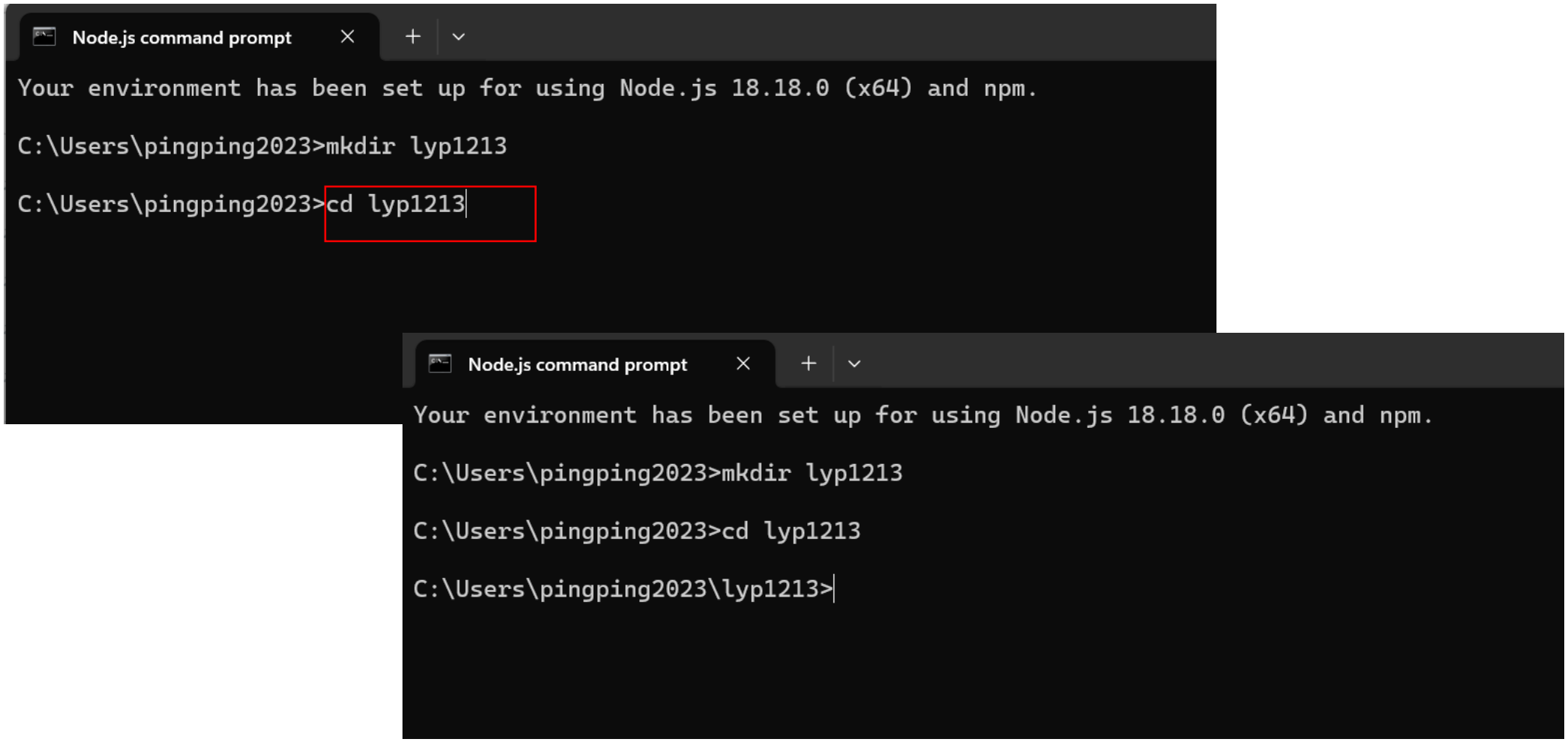




mkdir lyp1213



cd lyp1213


Node.js command prompt
Your environment has been set up for using Node.js 18.18.0 (x64) and npm.
C:\Users\pingping2023>mkdir lyp1213
C:\Users\pingping2023>cd lyp1213
Node.js command prompt
Your environment has been set up for using Node.js 18.18.0 (x64) and npm.
C:\Users\pingping2023>mkdir lyp1213
C:\Users\pingping2023>cd lyp1213
C:\Users\pingping2023\lyp1213>

firebase login

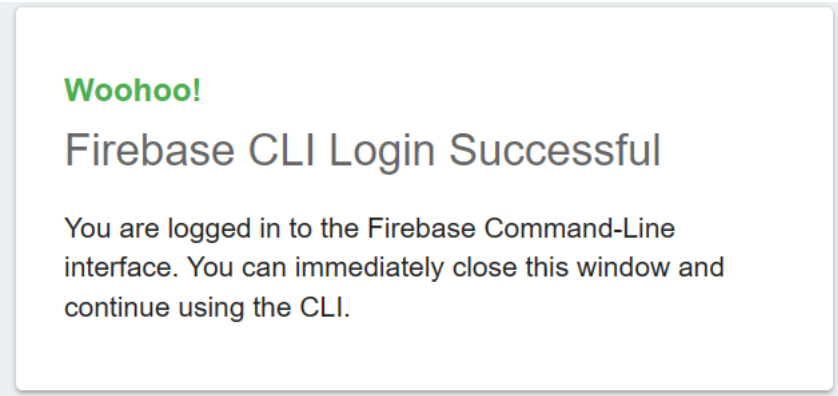
```
C:\Users\pingping2023\lyp1213>firebase login
i  Firebase optionally collects CLI and Emulator Suite usage and error reporting information to help
 improve our products. Data is collected in accordance with Google's privacy policy (https://policie
s.google.com/privacy) and is not used to identify you.

? Allow Firebase to collect CLI and Emulator Suite usage and error reporting information? (Y/n)
```

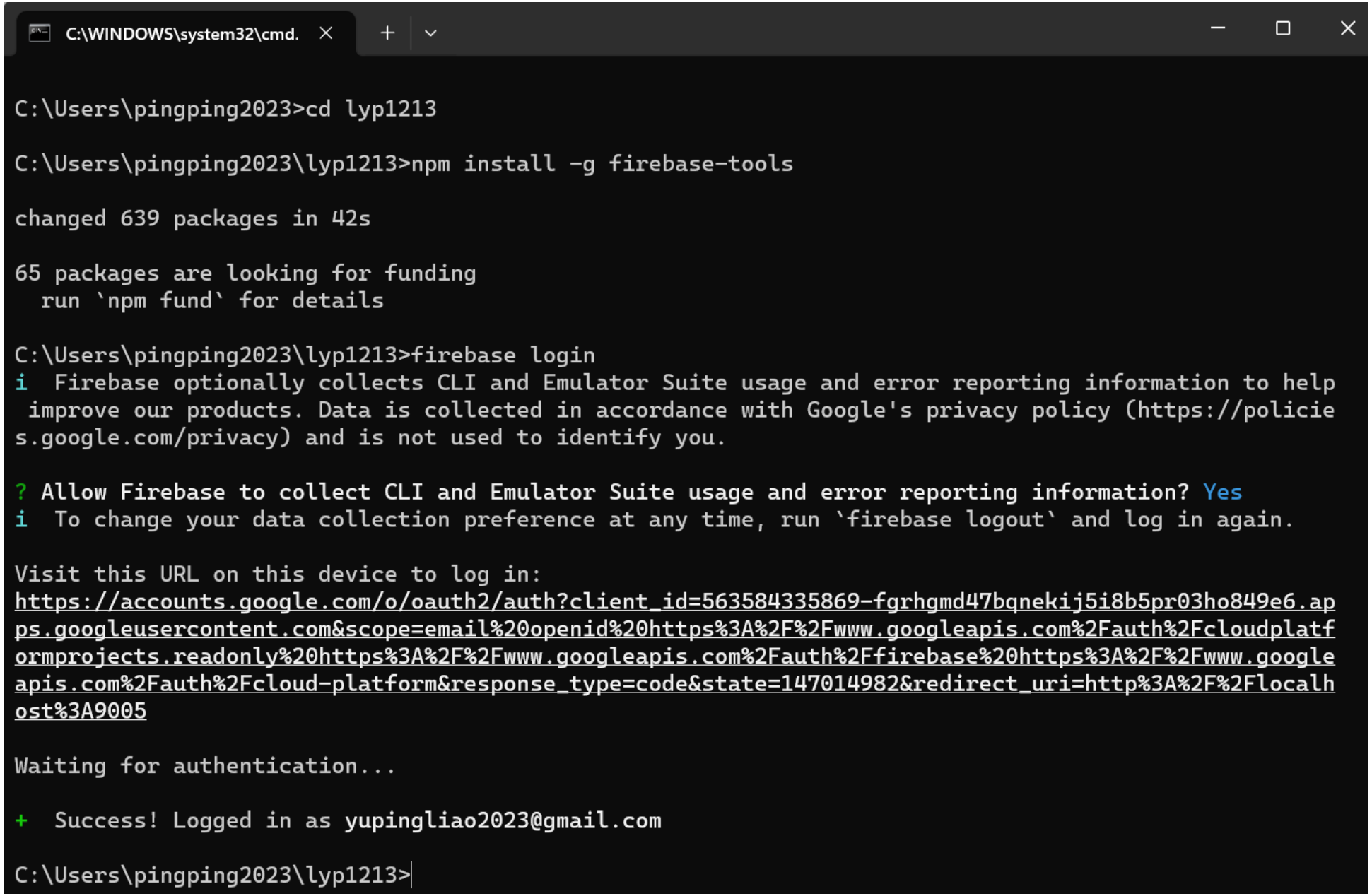
```
? Allow Firebase to collect CLI and Emulator Suite usage and error reporting information? (Y/n) Y
```

Enter

使用 Google 帳戶登入
選擇帳戶
以繼續使用「Firebase CLI」
Yu-Ping Liao
lyp@cycu.org.tw
yupingliao2023廖平平
yupingliao2023@gmail.com
使用其他帳戶
如要繼續進行，Google 會將您的姓名、電子郵件地址、語言偏好設定和個人資料相片提供給「Firebase CLI」。使用這個應用程式前，請先詳閱「Firebase CLI」的《隱私權政策》及《服務條款》。

「Firebase CLI」想要存取您的 Google 帳戶
yupingliao2023@gmail.com
這麼做將允許「Firebase CLI」進行以下操作：
查看、編輯、設定和刪除您的 Google Cloud 資料，以及查看您 Google 帳戶的電子郵件地址。
查看及管理您的所有 Firebase 資料和設定
查看您的 Cloud Platform 專案
確認「Firebase CLI」是您信任的應用程式
這麼做可能會將機密資訊提供給這個網站或應用程式。您隨時可以前往 Google 帳戶頁面查看或移除存取權。
瞭解 Google 如何協助您安全地分享資料。
詳情請參閱「Firebase CLI」的《隱私權政策》和《服務條款》。
取消
允許


Woohoo!
Firebase CLI Login Successful
You are logged in to the Firebase Command-Line interface. You can immediately close this window and continue using the CLI.


C:\WINDOWS\system32\cmd.
C:\Users\pingping2023>cd lyp1213
C:\Users\pingping2023\lyp1213>npm install -g firebase-tools
changed 639 packages in 42s
65 packages are looking for funding
run `npm fund` for details
C:\Users\pingping2023\lyp1213>firebase login
i Firebase optionally collects CLI and Emulator Suite usage and error reporting information to help improve our products. Data is collected in accordance with Google's privacy policy (https://policies.google.com/privacy) and is not used to identify you.
? Allow Firebase to collect CLI and Emulator Suite usage and error reporting information? Yes
i To change your data collection preference at any time, run `firebase logout` and log in again.
Visit this URL on this 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%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Ffirebase%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloud-platform&response_type=code&state=147014982&redirect_uri=http%3A%2F%2Flocalhost%3A9005
Waiting for authentication...
+ Success! Logged in as yupingliao2023@gmail.com
C:\Users\pingping2023\lyp1213>

firebase init

```
C:\Users\pingping2023\lyp1213>firebase init

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

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

  C:\Users\pingping2023\lyp1213

? Are you ready to proceed? (Y/n)
```

```
? Are you ready to proceed? (Y/n) Y
```

Enter

```
  C:\Users\pingping2023\lyp1213

? Are you ready to proceed? Yes
? Which Firebase features do you want to set up for this directory? Press Space to select features,
then Enter to confirm your choices. (Press <space> to select, <a> to toggle all, <i> to invert
selection, and <enter> to proceed)
provision default instance
 ( ) Firestore: Configure security rules and indexes files for Firestore
 ( ) Functions: Configure a Cloud Functions directory and its files
>( ) Hosting: Configure files for Firebase Hosting and (optionally) set up GitHub Action deploys
 ( ) Hosting: Set up GitHub Action deploys
 ( ) Storage: Configure a security rules file for Cloud Storage
 ( ) Emulators: Set up local emulators for Firebase products
(Move up and down to reveal more choices)
```

1.上下鍵

```
  C:\Users\pingping2023\lyp1213

? Are you ready to proceed? Yes
? Which Firebase features do you want to set up for this directory? Press Space to select features,
then Enter to confirm your choices. (Press <space> to select, <a> to toggle all, <i> to invert
selection, and <enter> to proceed)
provision default instance
 ( ) Firestore: Configure security rules and indexes files for Firestore
 ( ) Functions: Configure a Cloud Functions directory and its files
>(*) Hosting: Configure files for Firebase Hosting and (optionally) set up GitHub Action deploys
 ( ) Hosting: Set up GitHub Action deploys
 ( ) Storage: Configure a security rules file for Cloud Storage
 ( ) Emulators: Set up local emulators for Firebase products
(Move up and down to reveal more choices)
```

2.Space

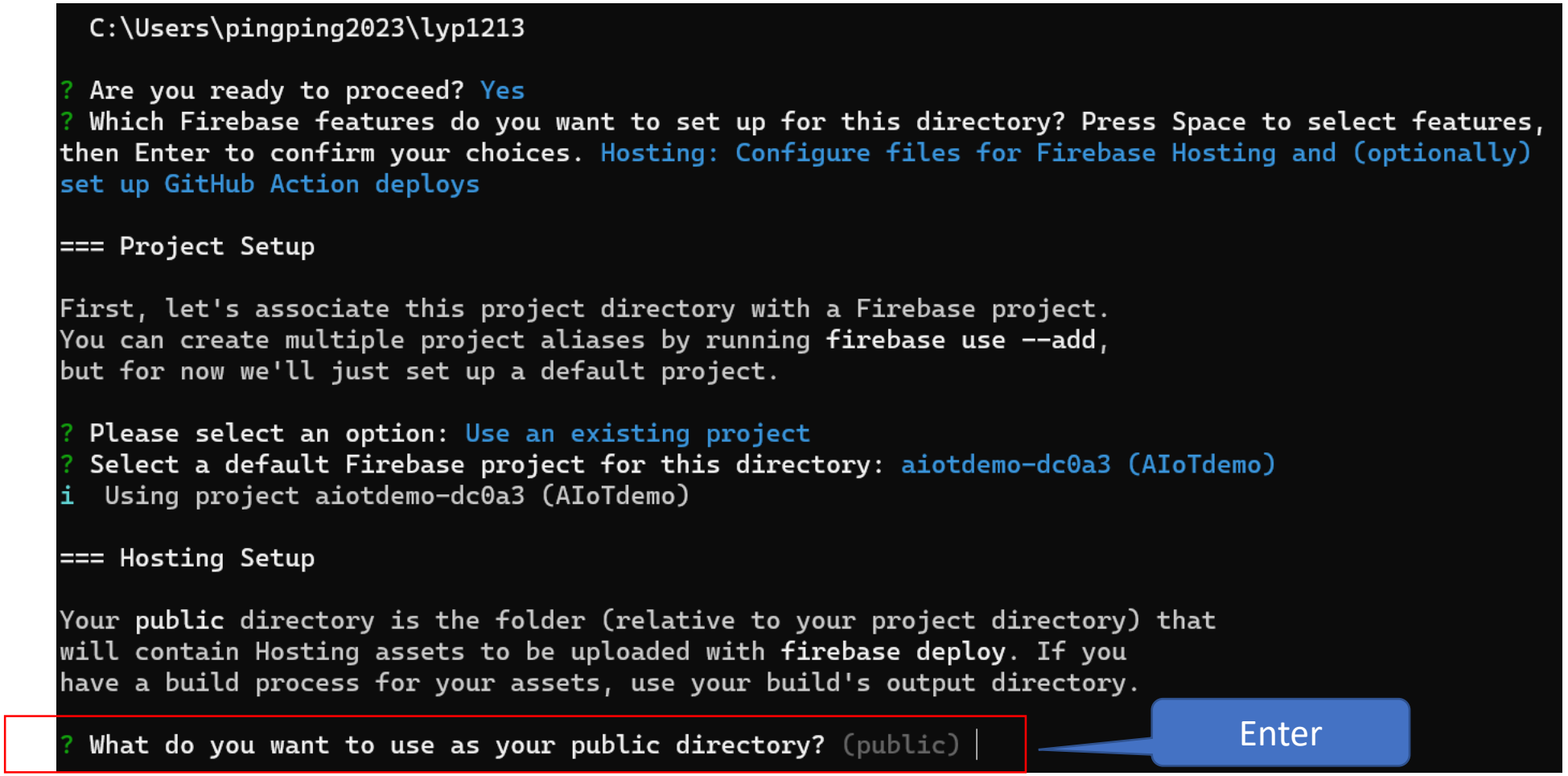
3.Enter

```
  C:\Users\pingping2023\lyp1213

? Are you ready to proceed? Yes
? Which Firebase features do you want to set up for this directory? Press Space to select features,
then Enter to confirm your choices. Hosting: Configure files for Firebase Hosting and (optionally)
set up GitHub Action deploys

=== 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
```

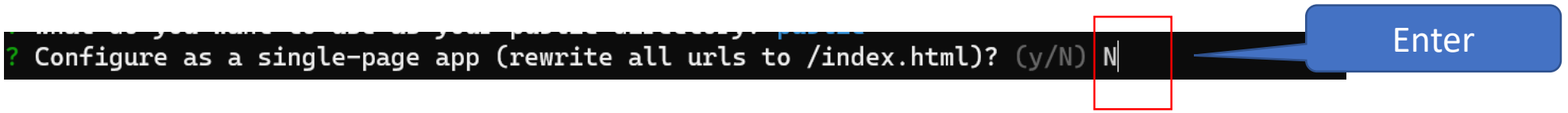
Enter

```
  C:\Users\pingping2023\lyp1213

? Are you ready to proceed? Yes
? Which Firebase features do you want to set up for this directory? Press Space to select features,
then Enter to confirm your choices. Hosting: Configure files for Firebase Hosting and (optionally)
set up GitHub Action deploys

=== 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 an existing project
? Select a default Firebase project                y: (Use arrow keys)
> aiotdemo-dc0a3 (AIoTdemo)
```

Enter

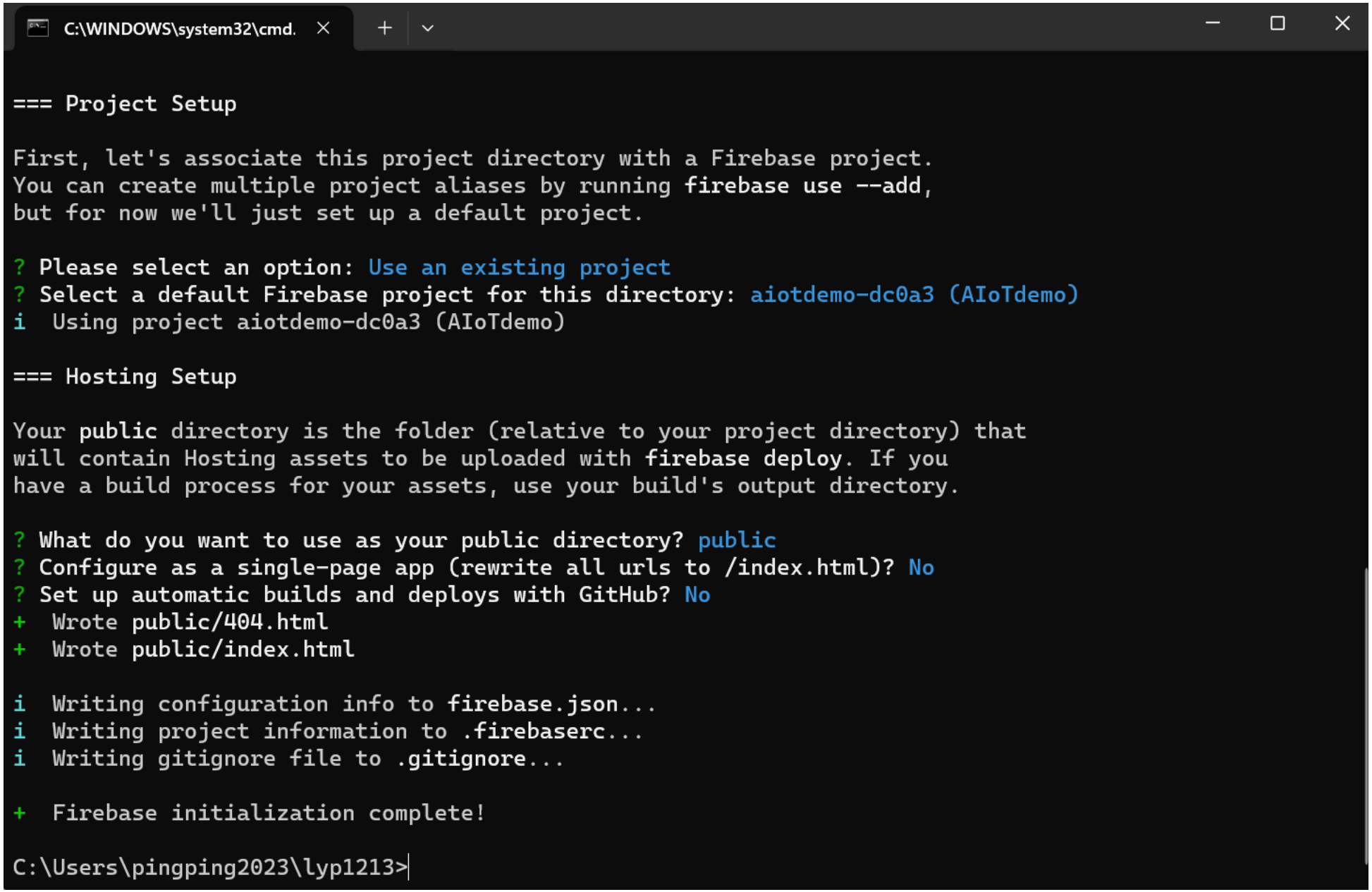

C:\Users\pingping2023\lyp1213
? Are you ready to proceed? Yes
? Which Firebase features do you want to set up for this directory? Press Space to select features, then Enter to confirm your choices. Hosting: Configure files for Firebase Hosting and (optionally) set up GitHub Action deploys
=== Project 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 an existing project
? Select a default Firebase project for this directory: aiotdemo-dc0a3 (AIoTdemo)
i Using project aiotdemo-dc0a3 (AIoTdemo)
=== 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? (public)
Enter

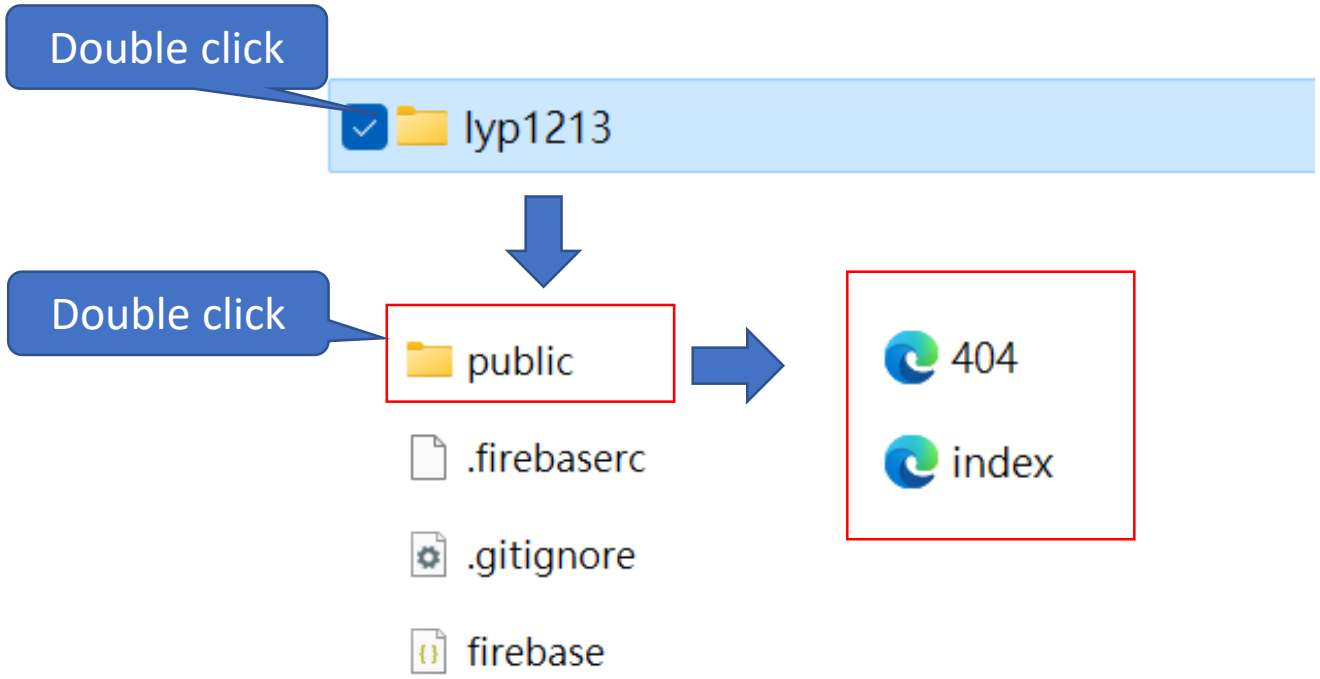
```
  C:\Users\pingping2023\lyp1213

? Are you ready to proceed? Yes
? Which Firebase features do you want to set up for this directory? Press Space to select features,
then Enter to confirm your choices. Hosting: Configure files for Firebase Hosting and (optionally)
set up GitHub Action deploys

=== 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 an existing project
? Select a default Firebase project for this directory: aiotdemo-dc0a3 (AIoTdemo)
i  Using project aiotdemo-dc0a3 (AIoTdemo)

=== 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? public
? Configure as a single-page app (rewrite all urls to /index.html)? (y/N)
```



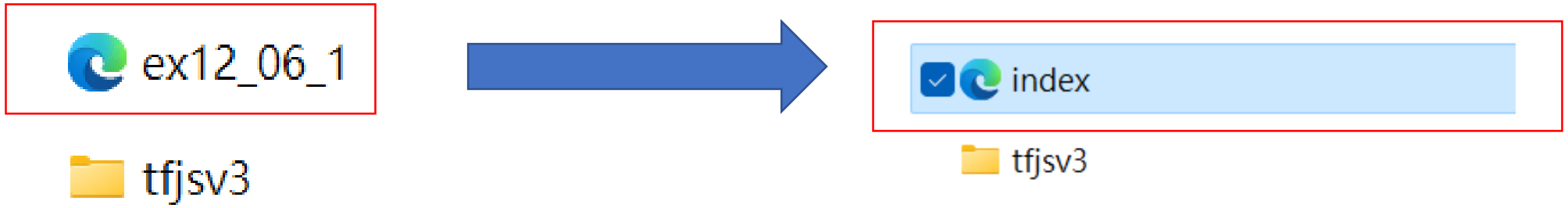
```
  C:\Users\pingping2023\lyp1213

? Are you ready to proceed? Yes
? Which Firebase features do you want to set up for this directory? Press Space to select features,
then Enter to confirm your choices. Hosting: Configure files for Firebase Hosting and (optionally)
set up GitHub Action deploys

=== 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 an existing project
? Select a default Firebase project for this directory: aiotdemo-dc0a3 (AIoTdemo)
i  Using project aiotdemo-dc0a3 (AIoTdemo)

=== 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? public
? Configure as a single-page app (rewrite all urls to /index.html)? No
? Set up automatic builds and deploys with GitHub? (y/N) N
```

Enter

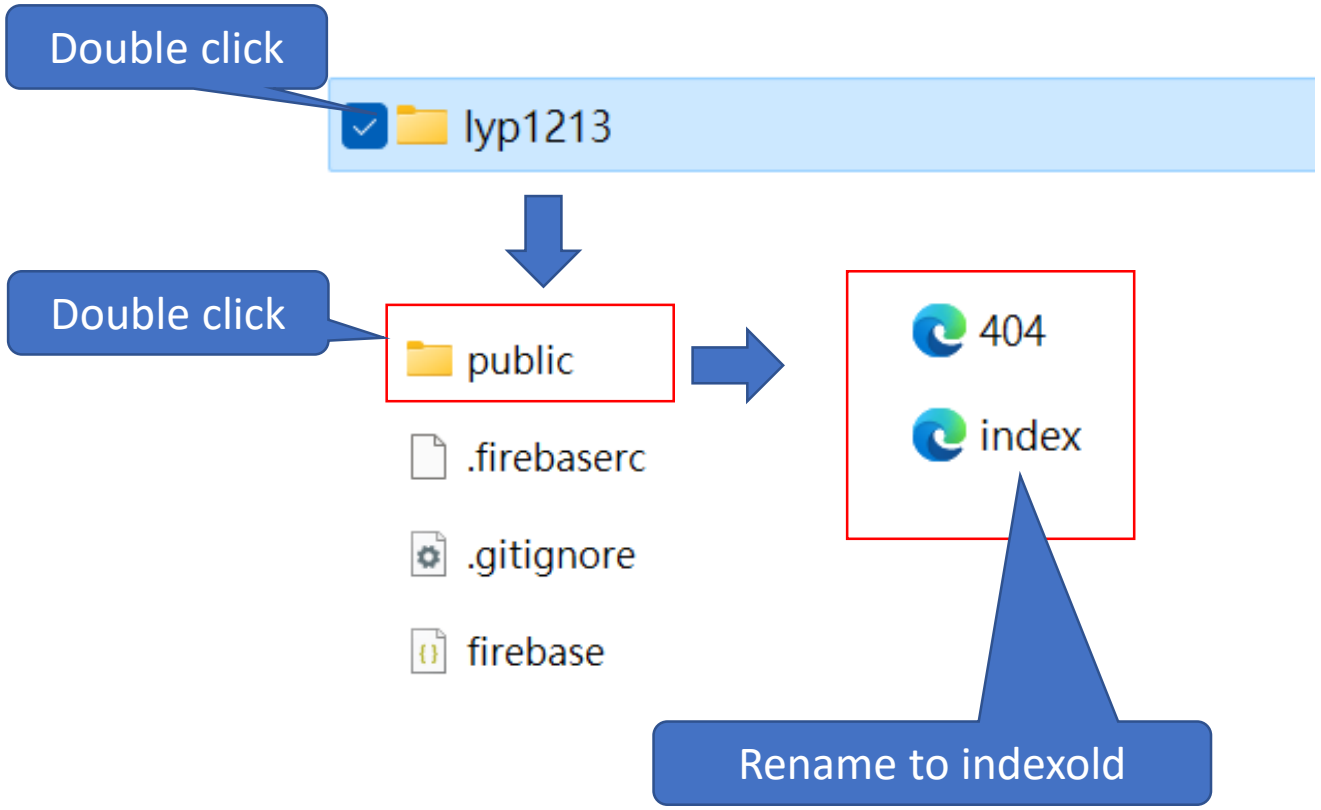

C:\WINDOWS\system32\cmd.
=== Project Setup
First, let's associate this project directory with a Firebase project.
You can create multiple project aliases by running firebase use --add,
but for now we'll just set up a default project.
? Please select an option: Use an existing project
? Select a default Firebase project for this directory: aiotdemo-dc0a3 (AIoTdemo)
i Using project aiotdemo-dc0a3 (AIoTdemo)
=== 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? public
? Configure as a single-page app (rewrite all urls to /index.html)? No
? Set up automatic builds and deploys with GitHub? No
+ Wrote public/404.html
+ Wrote public/index.html
i Writing configuration info to firebase.json...
i Writing project information to .firebaserc...
i Writing gitignore file to .gitignore...
+ Firebase initialization complete!
C:\Users\pingping2023\lyp1213>


Double click
lyp1213
Double click
public
.firebaserc
.gitignore
firebase
404
index

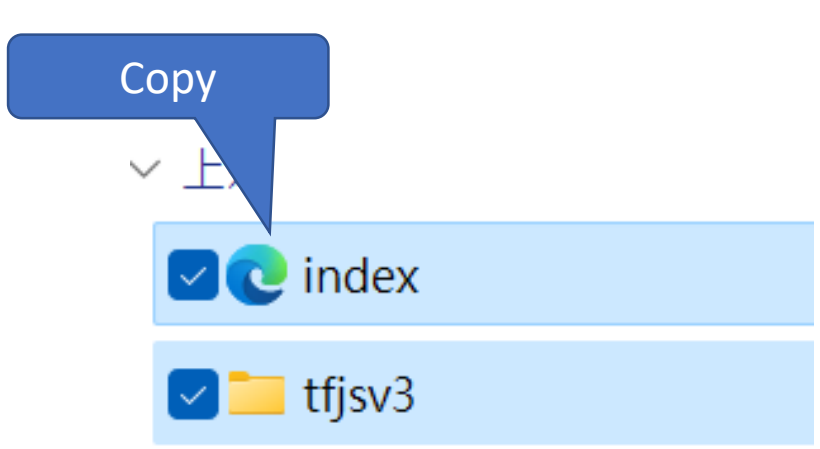
Rename

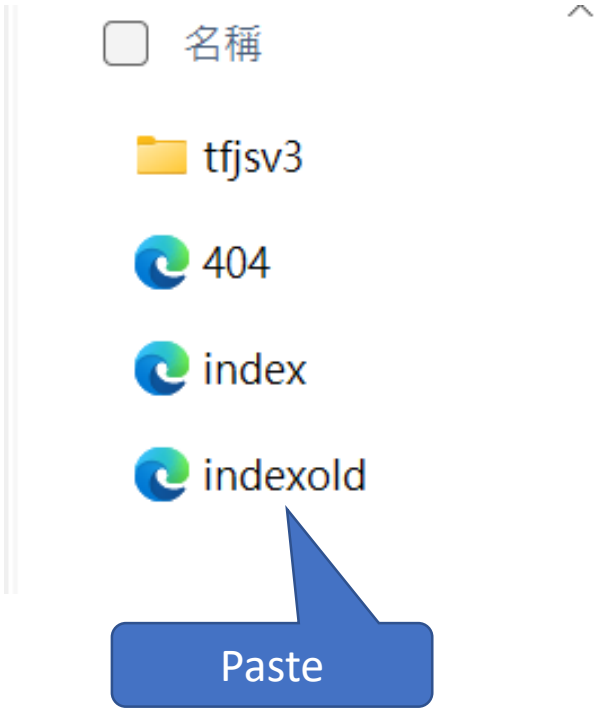


Rename


Double click
lyp1213
Double click
public
.firebaserc
.gitignore
firebase
404
index
Rename to indexold

Copy and Paste



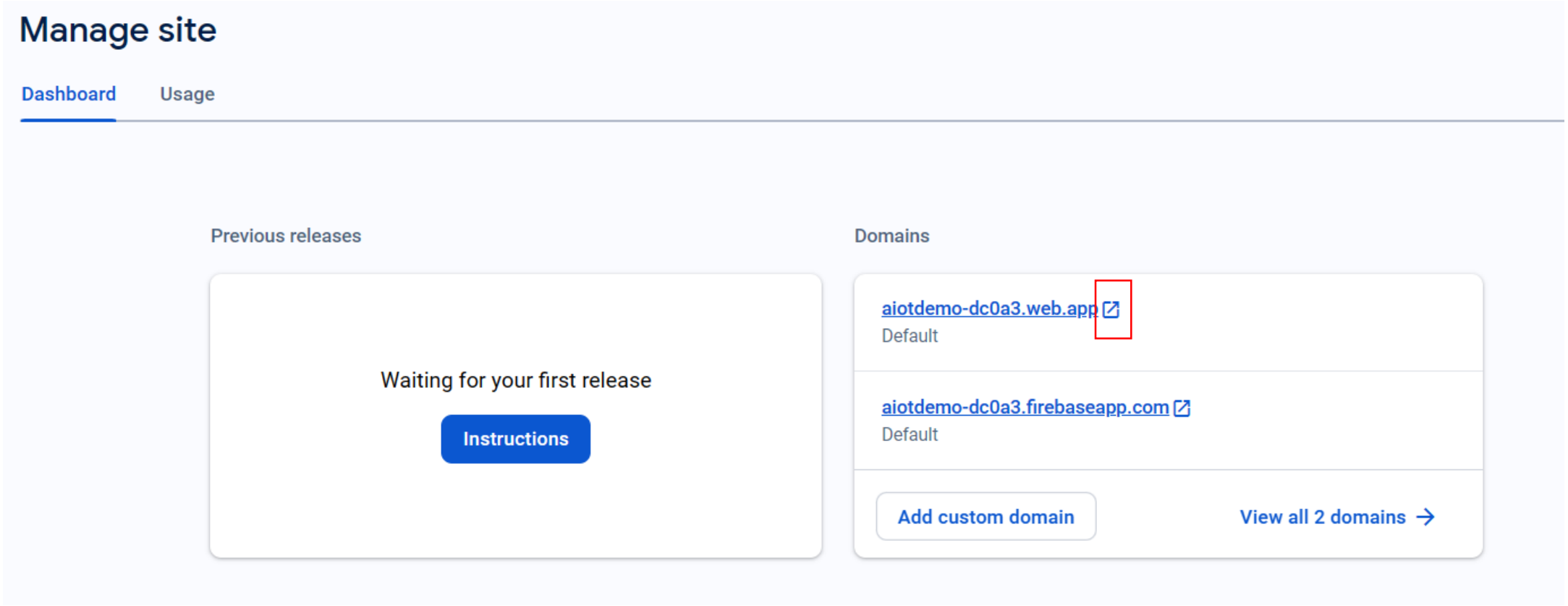


firebase deploy

```
C:\Users\pingping2023\lyp1213>firebase deploy
```

```
C:\WINDOWS\system32\cmd.

=== Deploying to 'aiotdemo-dc0a3'...

i  deploying hosting
i  hosting[aiotdemo-dc0a3]: beginning deploy...
i  hosting[aiotdemo-dc0a3]: found 5 files in public
+  hosting[aiotdemo-dc0a3]: file upload complete
i  hosting[aiotdemo-dc0a3]: finalizing version...
+  hosting[aiotdemo-dc0a3]: version finalized
i  hosting[aiotdemo-dc0a3]: releasing new version...
+  hosting[aiotdemo-dc0a3]: release complete

+  Deploy complete!

Project Console: https://console.firebase.google.com/project/aiotdemo-dc0a3/overview
Hosting URL: https://aiotdemo-dc0a3.web.app

C:\Users\pingping2023\lyp1213>
```

Open Web App


Manage site
Dashboard
Usage
Previous releases
Waiting for your first release
Instructions
Domains
aiotdemo-dc0a3.web.app
Default
aiotdemo-dc0a3.firebaseapp.com
Default
Add custom domain
View all 2 domains

https://aiotdemo-dc0a3.web.app/

Homework 13-1

- Deploy your code to firebase hosting.