



# Firebase

google的移动开发平台

用于构建web、移动应用

aws、azure、cloudflare



我们会用firebase来部署我们的web应用

<https://firebase.google.com/>

## 用一个前端项目演示

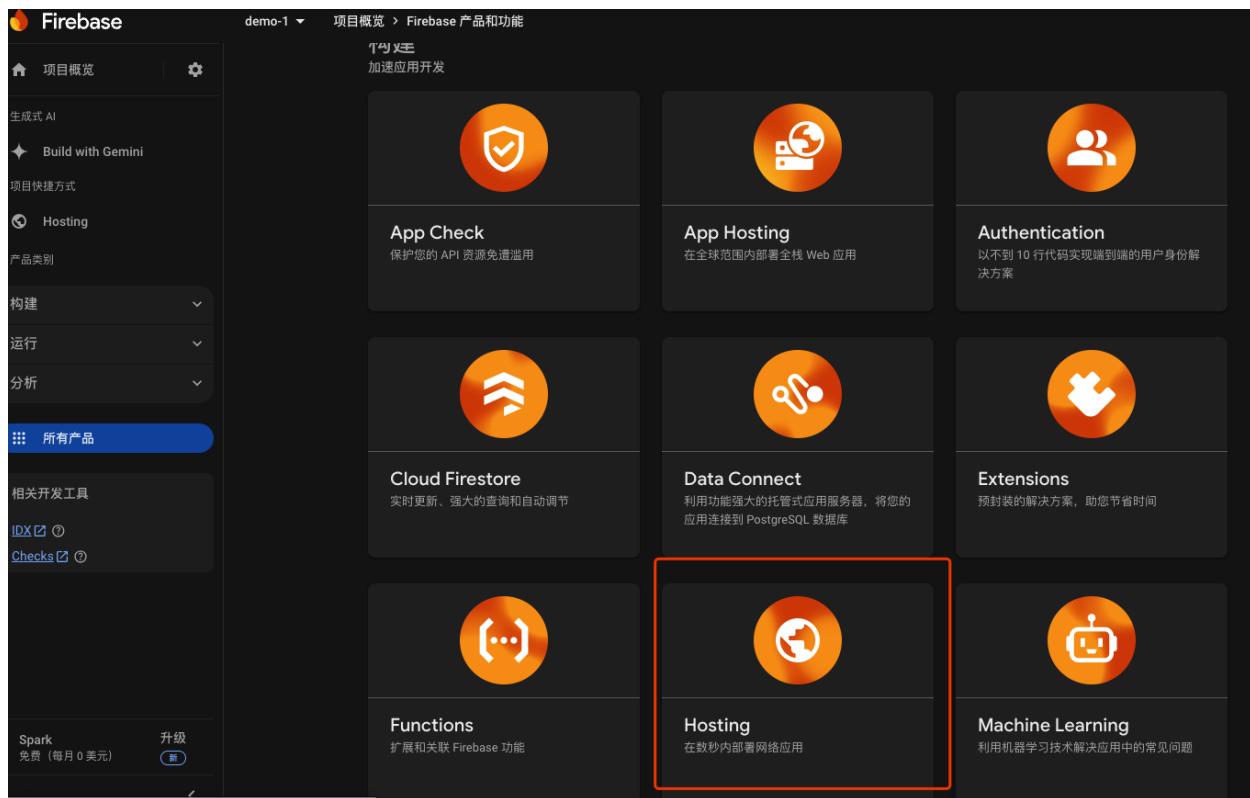
或者你的html文件....

## 创建一个项目

到firebase控制台中创建一个项目

会需要一点时间....

<https://firebase.google.com/>



# Firebase CLI

## Firebase Tools

<https://firebase.google.com/docs/cli?hl=zh-cn>

## Firebase Admin

<https://firebase.google.com/docs/admin/setup?hl=zh-cn>

这些工具允许你通过编程使用一些firebase网站上的功能。

我们会用这个工具来做项目前端的部署。

文档中写了如何安装工具

## mac环境

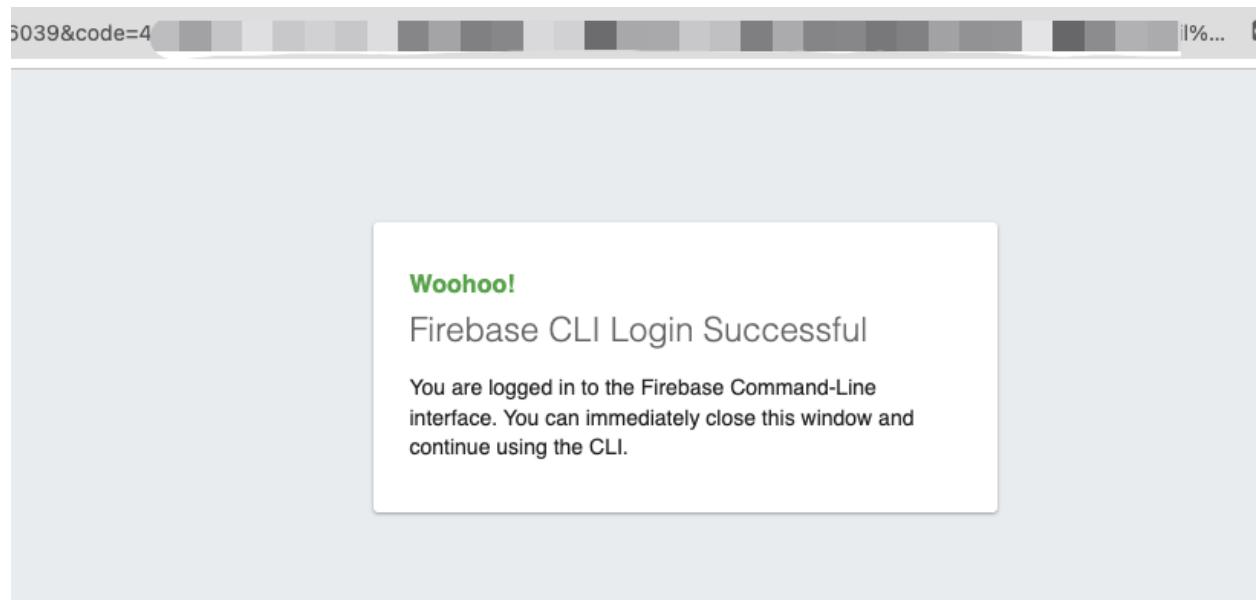
```
curl -sL https://firebase.tools | bash  
npm i -g firebase-admin
```

firebase-tools是CLI的二进制文件，firebase-admin是一个你需要使用到的库

如果你之前没有登陆...

```
firebase login
```

会打开网页，授权，然后回到命令行



```
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/v2/auth?scope=email+profile+openid+https://www.googleapis.com/auth/cloud-devrel+https://www.googleapis.com/auth/firebase+https://www.googleapis.com/auth/firebase.messaging&state=1100peope%2F82...&response\_type=code&client\_id=103191111111-aeoluj@gmail.com&redirect\_uri=https://www.gstatic.com/firebasejs/8.0.0/firebase-auth.html  
Waiting for authentication...  
✓ Success! Logged in as aeoluj@gmail.com
```

## 回到你的项目文件下

```
firebase init
```

选择你的项目

设置想发送到internet的dir

```
build
```

```
? Please select an option: Use an existing project  
? Select a default Firebase project for this directory: fir-1-28286 (demo-1)  
i Using project fir-1-28286 (demo-1)

==== 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? build  
? Configure as a single-page app (rewrite all urls to /index.html)? Yes  
? Set up automatic builds and deploys with GitHub? No  
✓ Wrote build/index.html

i Writing configuration info to firebase.json...
i Writing project information to .firebaserc...

✓ Firebase initialization complete!
```

package.json中添加一个新的scripts

```
npm run build && firebase deploy
```

`firebase deploy` 会将你的应用push到firebase提供的cloud服务上

```
vite v6.0.1 building for production...
✓ 30 modules transformed.
build/index.html          0.46 kB | gzip: 0.29 kB
build/assets/react-CHdo91hT.svg 4.13 kB | gzip: 2.05 kB
build/assets/index-n_ryQ3BS.css 1.39 kB | gzip: 0.71 kB
build/assets/index-u0412iEj.js 143.90 kB | gzip: 46.34 kB
✓ built in 366ms

== Deploying to 'fir-1-28286'...

i deploying hosting
i hosting[fir-1-28286]: beginning deploy...
i hosting[fir-1-28286]: found 5 files in build
✓ hosting[fir-1-28286]: file upload complete
i hosting[fir-1-28286]: finalizing version...
✓ hosting[fir-1-28286]: version finalized
i hosting[fir-1-28286]: releasing new version...
✓ hosting[fir-1-28286]: release complete

✓ Deploy complete!

Project Console: https://console.firebaseio.google.com/project/fir-1-28286/overview
Hosting URL: https://fir-1-28286.web.app
```

你每次的部署都会被展示在服务中，如果你部署出错了，你可以回退到之前的部署

The screenshot shows the Firebase Hosting dashboard for a project named 'demo-1'. At the top, there's a 'Hosting' section with a '管理网站' (Manage Website) button and a Gemini AI help card. Below it are tabs for '信息中心' (Information Center) and '使用量' (Usage). The main area displays the '当前版本' (Current Version) which was deployed by 'aeoluj@gmail.com' on '2024/11/27 22:59' with commit hash '5f1a9a'. To the right, under '网域' (Domains), the 'fir-1-28286.web.app' domain is listed as the default. Below this, another deployment by the same user on '2024/11/27 22:56' is shown. A red arrow points from this second deployment row to a '回滚' (Rollback) button. Other buttons visible include '删除' (Delete) and '查看详情' (View Details). At the bottom left, there's a '版本存储设置' (Version Storage Settings) button.

这对CD工作流来说很方便，你可以把它接入到CI当中（比如Travis CI）

举个例子

- push to master
- run & build
- 如果失败回滚到之前的部署版本

显示指定项目

```
firebase deploy --project ${PROJECT_ID}
```

