

Firebase Hosting Guide

Step 1) Create and write your Next.js app

This guide doesn't focus on creating next.js app, but since we need some sample app, we need to have something to deploy.

Here's a command to create latest version of Next.js app in current folder:

- `npx create-next-app@latest` .

Step 2) Make a copy of your app's code

If it's your first time deploying the app you might mess this up, so it's wise to have a copy without all the Firebase packages just in case. Some ideas on where to keep a copy of files:

- Stored in .zip on your computer
- Uploaded on GitHub repo

Step 3) Create a Firebase project and web app

First, you need to understand Firebase's structure. Here's a quick visualisation:

In short: a Project can contain multiple assets, like databases, applications (Android app, IOS app and web app) and many other things.

Now that you understand Firebase's structure:

- Go to firebase console: console.firebase.google.com
- Create a new project
 - choose the project's name
 - choose whether you want to have Google Analytics (if this is a test app, i recommend opting out of this, you can always turn it on later)
 - (Ignore this step if you want to deploy an app as a test) Set up billing for this project. You must change billing settings from Spark (free) to Blaze (pay as you go). Don't worry, it will not cost you a penny until you actually start getting a solid user base.
 - Add a web app to this project (you can do this from settings or from the dashboard)
 - choose the app's name
 - set up Firebase Hosting (check a box)

Step 4) Add Firebase to your app

Link to docs: <https://firebase.google.com/docs/cli>

- Add Firebase SDK
- run `npm install Firebase`
- add a unique script provided by firebase at the end of step 2 in a file that runs your scripts or into a separate .js file in “app” folder
- Install Firebase CLI
- run `npm install firebase-tools`
- Run Firebase login, click on a link in the terminal and log in with your Google Account
- to make sure that you did it correctly run `firebase projects:list` and make sure that a project that you created in step 3 is visible in terminal

Step 5) Integrate your Next.js app with Firebase

Link to docs: <https://firebase.google.com/docs/hosting/frameworks/nextjs>

- Run Firebase experiments: enable web frameworks
- Run Firebase init hosting
- Answer to questions in the terminal by Y or N
 - You are initializing within an existing Firebase project directory - Yes
 - Detected an existing Next.js codebase in the current directory, should we use this? - Yes
 - In which region would you like to host server-side content, if applicable? - Choose the region that your app will be served at (Europe for me)
 - Set up automatic builds and deploys with GitHub? - No (out of the scope of this tutorial)
 - You should get a message “Firebase initialization complete!”
- Run `firebase deploy`
- After that, you should see “Deploy complete!” in the terminal as well as a link to your app.

Congratulations, you have deployed your Next.js app to Firebase!

In case you get an error while initializing Firebase

Run `Set-ExecutionPolicy -Scope Process -ExecutionPolicy Bypass`

Link to stackoverflow solution: <https://stackoverflow.com/questions/60594178/firebase-cannot-be-loading-because-running-scripts-is-disabled-on-this-system>

Not your first deployment?

If you are deploying multiple times, you only need to run:

- Set-ExecutionPolicy -Scope Process -ExecutionPolicy Bypass
- firebase experiments:enable webframeworks
- firebase deploy

More links just in case

GitHub repo with all the info about firebase-tools: <https://github.com/firebase/firebase-tools>

File a bug about firebase tools: https://github.com/firebase/firebase-tools/issues/new?template=bug_report.md

Some other useful videos/links:

Link 1: <https://javascript.plainenglish.io/how-to-deploy-your-website-to-firebase-hosting-for-free-be5e5ff58796>

Link 2: <https://levelup.gitconnected.com/deploying-your-website-to-firebase-ddfc97d0bdb7>

Link 3: <https://dev.to/glennviroux/how-to-deploy-nextjs-to-firebase-18bb>

YT video guide: https://youtu.be/piGza_X9Gj4

How to deploy to AWS: <https://youtu.be/0-uT3wIXn-w>

How to deploy next js to Firebase: <https://youtu.be/TJqJ-WY3XxA>