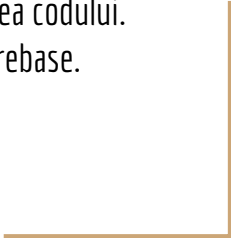




# Frontend Development

Tema 3: Utilizarea Git bash. Partajarea codului.  
Publicarea sitului pe internet. Firebase.



# Etapele publicării sitului pe Firebase

1. Instalarea NodeJS
2. Crearea account-ului Google și autorizarea pe Firebase
3. Inițializarea Firebase
4. Publicarea proiectului pe hostingul Firebase
5. Publicarea codului pe Github

# Instalarea NodeJS

<https://nodejs.org/en/>



Node.js® is a JavaScript runtime built on Chrome's V8 JavaScript engine.

#BlackLivesMatter

New security releases now available for 15.x, 14.x and 12.x  
release lines



Download for Windows (x64)

**14.15.1 LTS**

Recommended For Most Users

**15.2.1 Current**

Latest Features

[Other Downloads](#) | [Changelog](#) | [API Docs](#)

[Other Downloads](#) | [Changelog](#) | [API Docs](#)

Or have a look at the Long Term Support (LTS) schedule.

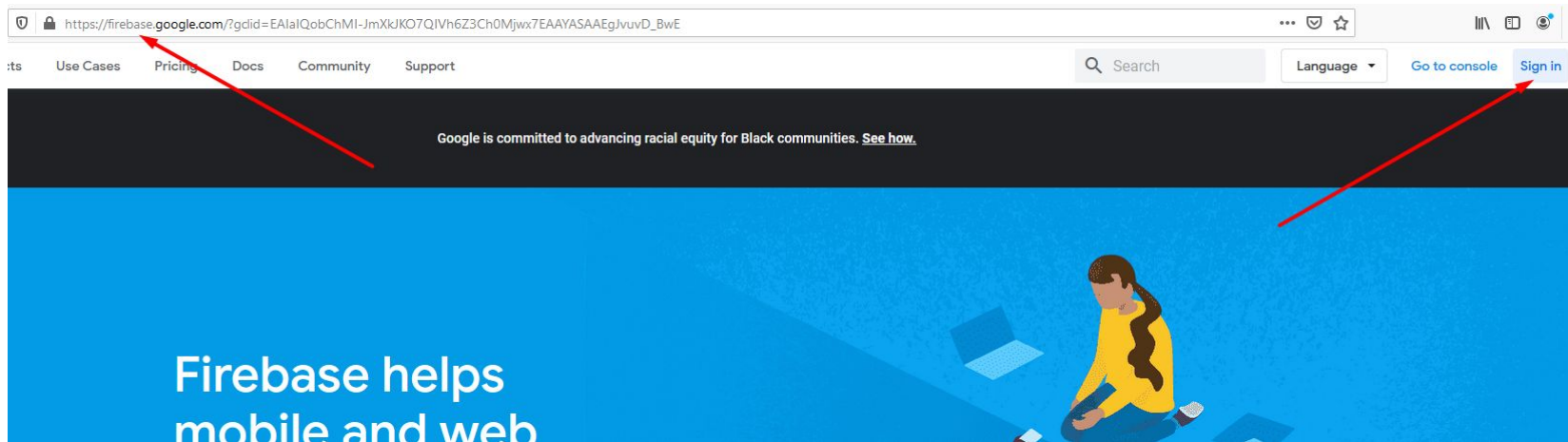


# Instalarea NodeJS


La instalare, la fiecare pas  
selectăm NEXT

# Crearea account-ului Google și autorizarea pe Firebase

<https://firebase.com/>



# Crearea account-ului Google și autorizarea pe Firebase



## Conectare

Accesați Google Developers

Adresa de e-mail sau numărul de telefon

[Ați uitat adresa de e-mail?](#)

Nu este computerul dvs.? Pentru a vă conecta, folosiți o fereastră Privată. [Aflați mai multe](#)

[Creați un cont](#)Înainte

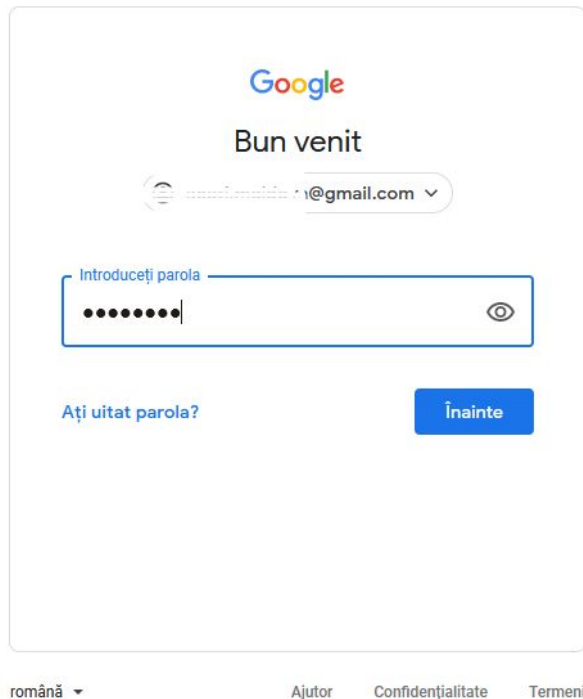
română ▾

Ajutor

Confidențialitate

Termeni

# Crearea account-ului Google și autorizarea pe Firebase



The image shows a Google sign-in interface. At the top is the Google logo. Below it is the text "Bun venit". There is a text input field for an email address, which is partially filled with "i@gmail.com" and has a dropdown arrow. Below the email field is a password field with the placeholder text "Introduceți parola" and a series of dots for the password. To the right of the password field is an eye icon. Below the password field is a link that says "Ați uitat parola?". To the right of the link is a blue button that says "Înainte". At the bottom of the interface, there is a language selector showing "română" with a dropdown arrow, and three links: "Ajutor", "Confidențialitate", and "Termeni".

Google

Bun venit

i@gmail.com ▼

Introduceți parola

.....

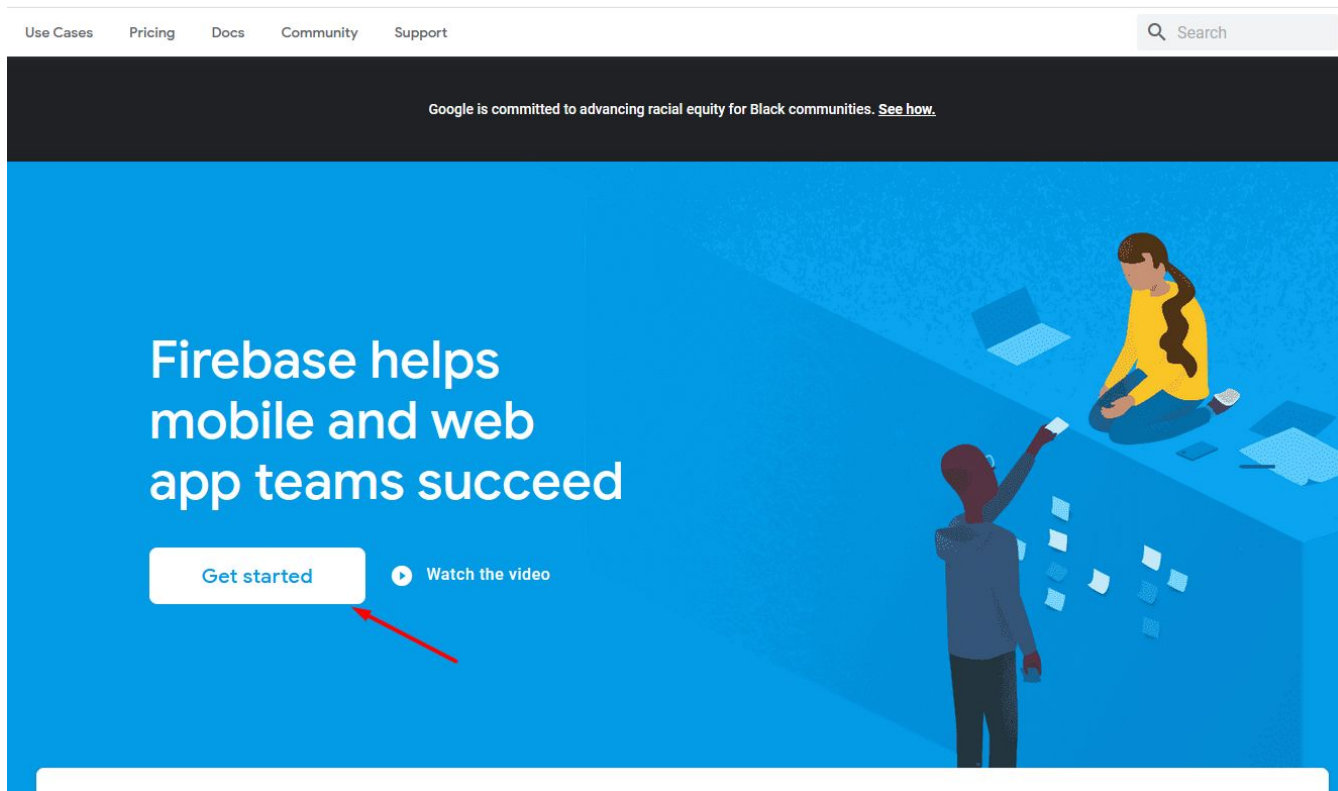
Ați uitat parola?

Înainte

română ▼

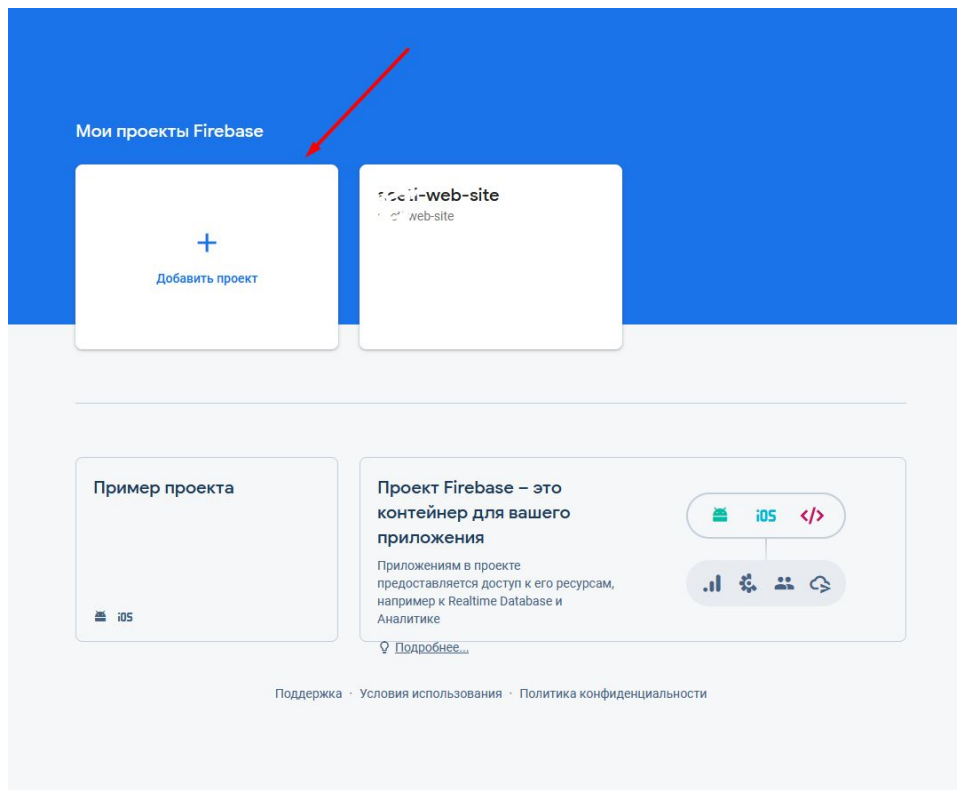
Ajutor Confidențialitate Termeni

# Crearea account-ului Google și autorizarea pe Firebase



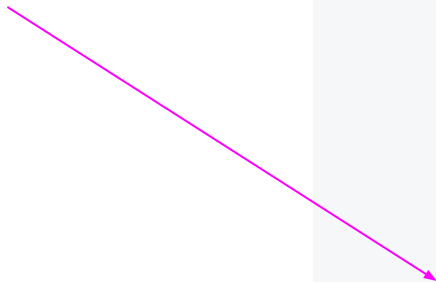


# Crearea account-ului Google și autorizarea pe Firebase



# Crearea proiectului pe Firebase

Numele de domeniu




× Создание проекта(шаг 1 из 3)

**Укажите название проекта<sup>?</sup>**

Название проекта

**test-firebase**

 test-firebase-be7fe

**Продолжить**

# Crearea proiectului pe Firebase

Deactivăm Google Analytics


× Создание проекта(шаг 2 из 3)


## Google Аналитика


### для вашего проекта Firebase


Google Аналитика – это бесплатный сервис для расширенного анализа данных, настройки таргетинга и создания отчетов в сервисах Firebase Crashlytics, Cloud Messaging, In-App Messaging, Remote Config, A/B-тестирование, Predictions и Cloud Functions.


Возможности Google Аналитики:


 A/B-тестирование ⓘ

 Сегментирование пользователей и таргетинг в продуктах Firebase ⓘ

 Прогнозирование поведения пользователей ⓘ

 Пользователи, у которых не возникали сбои ⓘ

 Триггеры Cloud Functions на основе событий ⓘ

 Создание неограниченного числа отчетов бесплатно ⓘ

☒ Включить Google Аналитику в этом проекте

Рекомендация

Назад

Продолжить

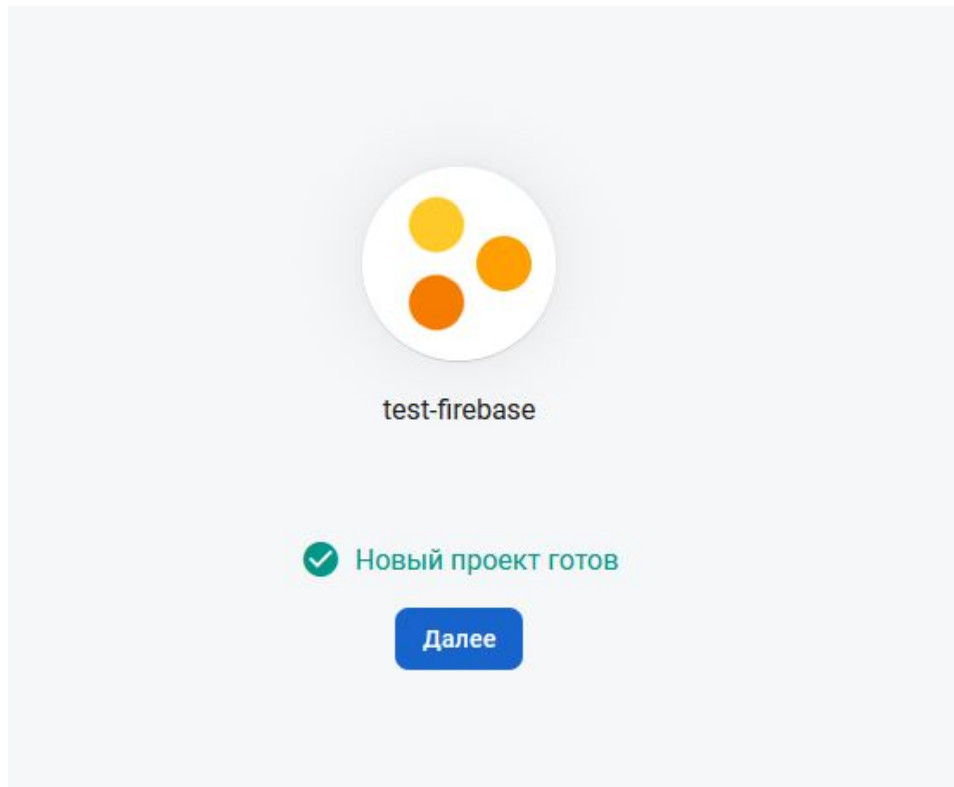
# Crearea proiectului pe Firebase



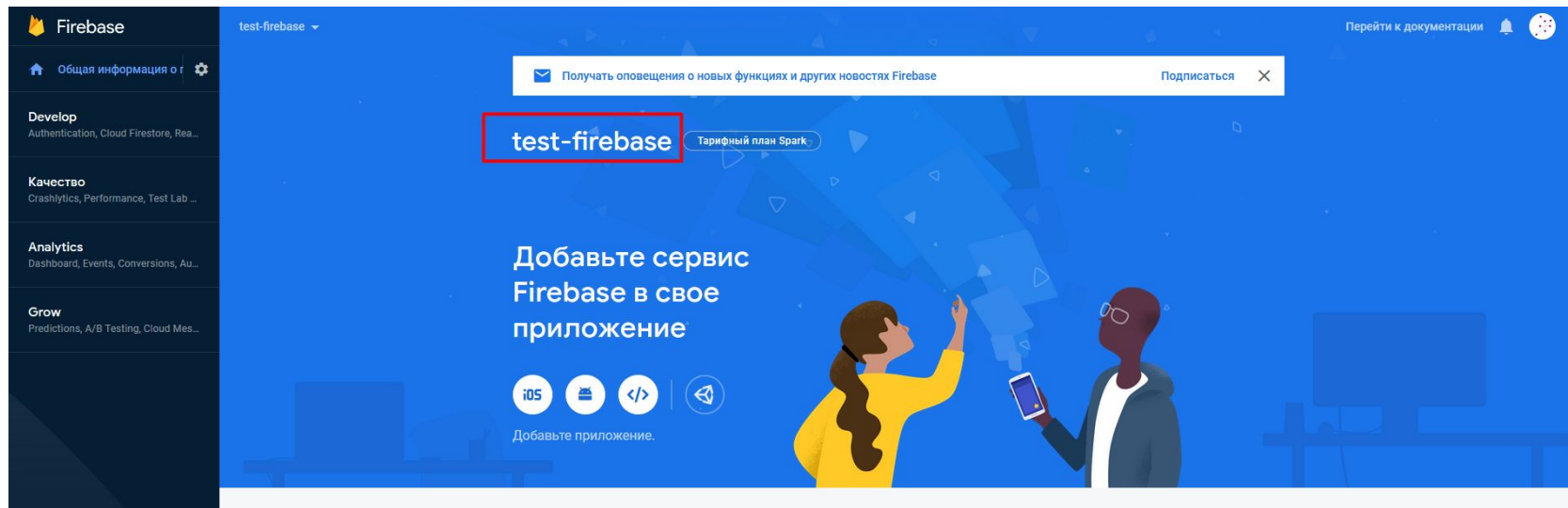
Создание проекта...

test-firebase

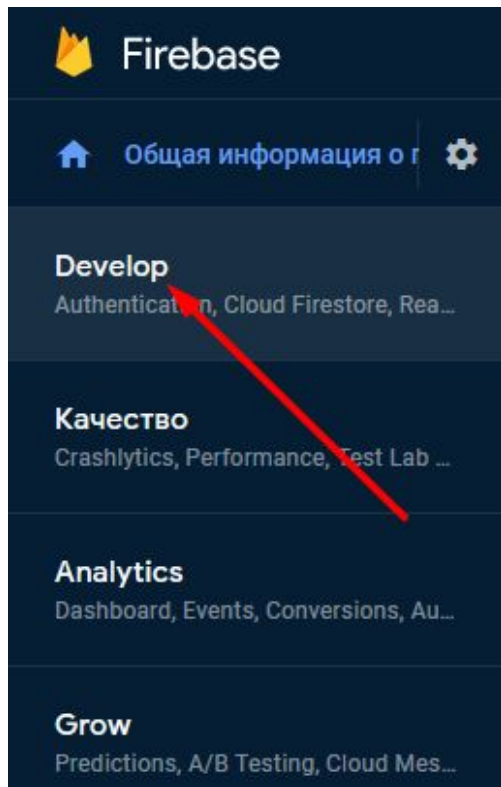
# Crearea proiectului pe Firebase



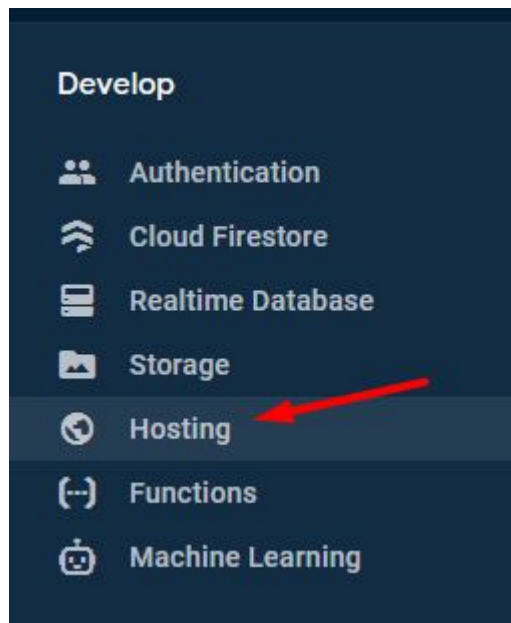
# Crearea proiectului pe Firebase



# Crearea proiectului pe Firebase

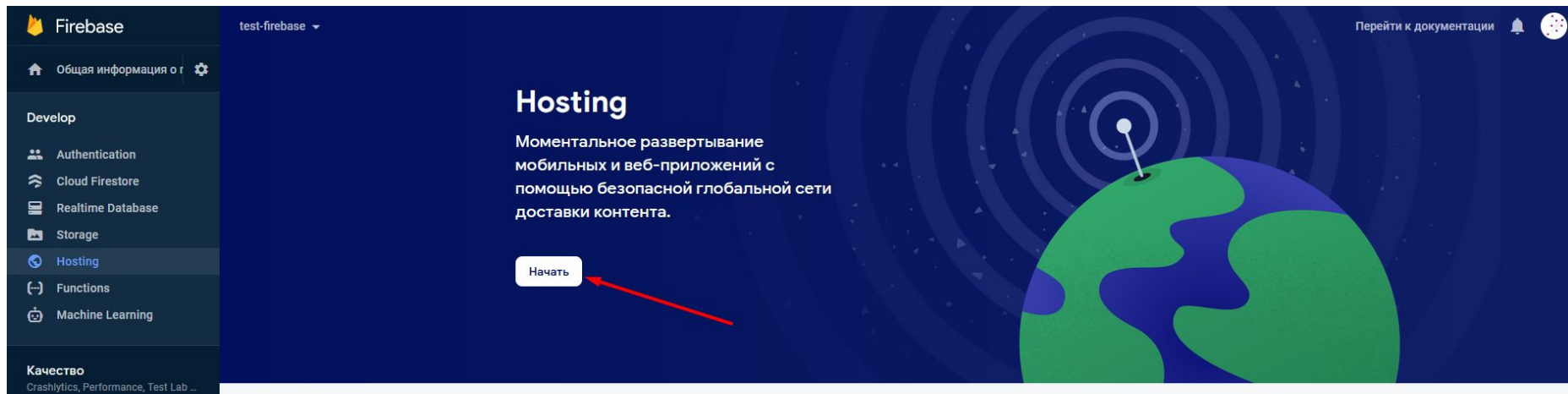


# Utilizarea Hosting-ului





# Configurarea hosting-ului



# Descrierea pe pași a procesului de configurare și publicare

## × Настройка Firebase Hosting

### 1 Установка интерфейса командной строки Firebase

Для размещения сайта в Firebase Hosting требуется интерфейс командной строки Firebase.

Выполните указанную ниже команду [npm](#), чтобы установить ИКС или обновить его до последней версии.

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

npm не работает? Изучите [справочное руководство по интерфейсу командной строки Firebase](#) или измените [права доступа для npm](#).

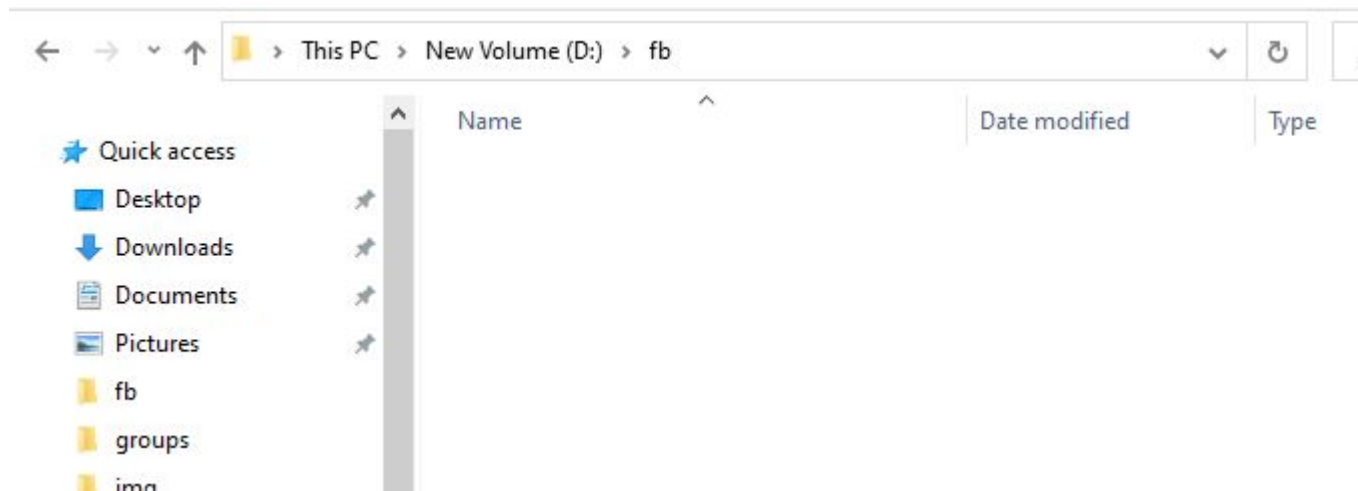
- ☐ Также показать шаги для добавления Firebase JavaScript SDK в веб-приложение  
В пакет разработчика входят функции Cloud Firestore, Authentication, Performance Monitoring и другие. Его можно добавить прямо сейчас или сделать это позже.

Далее

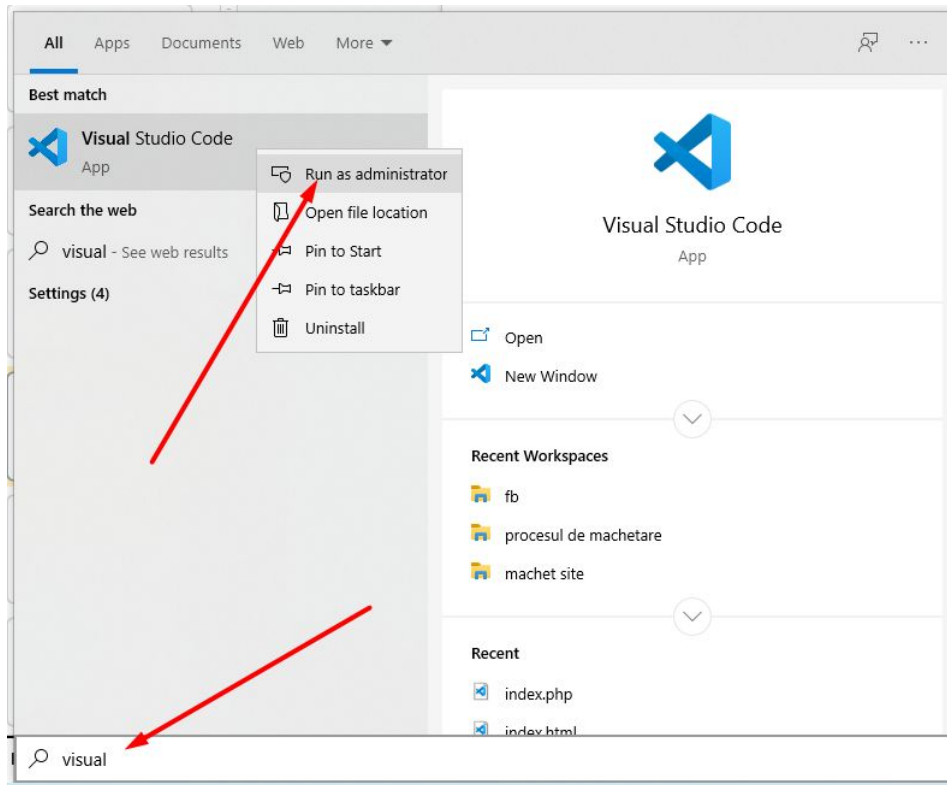
### 2 Инициализация проекта

### 3 Развертывание в Firebase Hosting

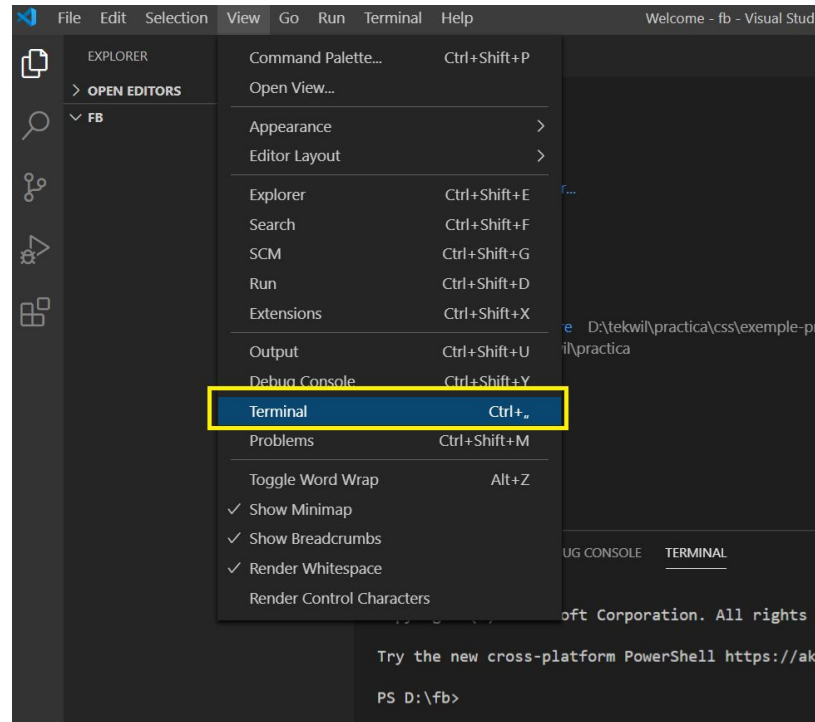
# Crearea dosarului local



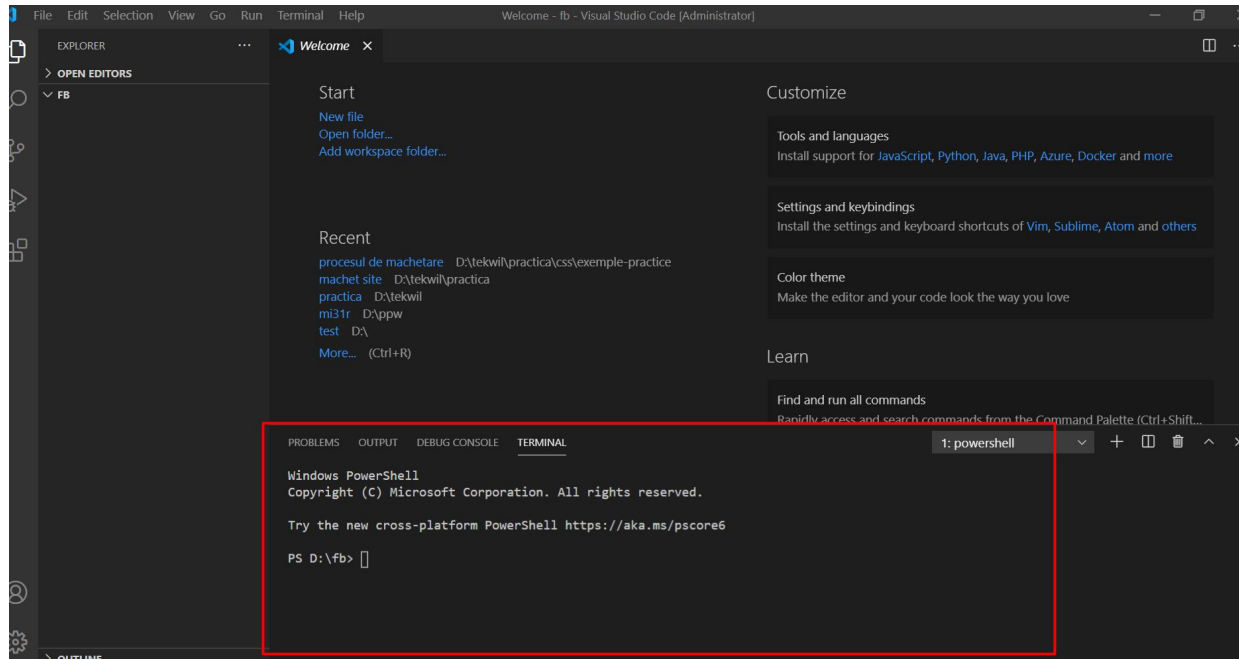
# Lansarea VisualStudioCode cu drepturi de administrator



# Lansarea terminalului

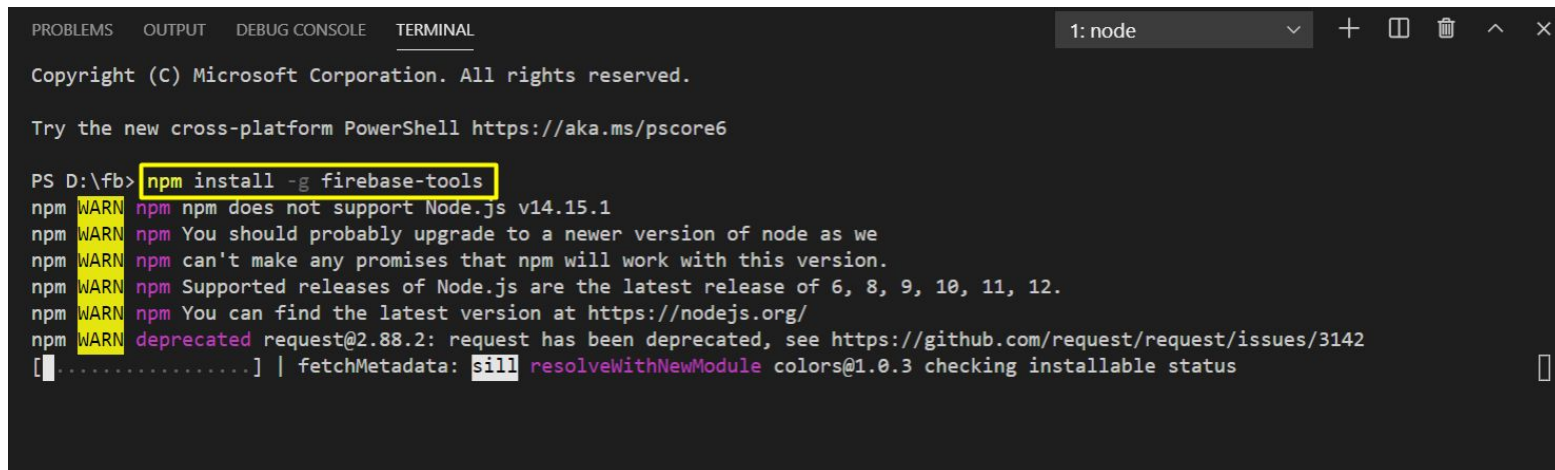


# Terminalul Visual Studio Code



# Instalarea instrumentelor pentru lucrul cu Firebase CLI

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



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL
1: node

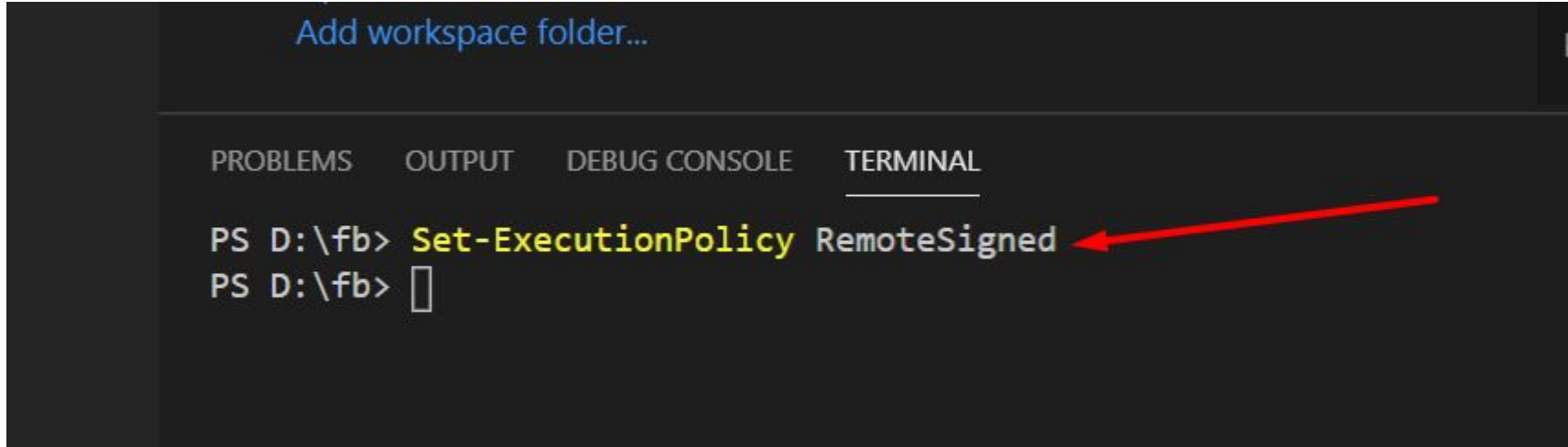
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\fb> npm install -g firebase-tools
npm WARN npm npm does not support Node.js v14.15.1
npm WARN npm You should probably upgrade to a newer version of node as we
npm WARN npm can't make any promises that npm will work with this version.
npm WARN npm Supported releases of Node.js are the latest release of 6, 8, 9, 10, 11, 12.
npm WARN npm You can find the latest version at https://nodejs.org/
npm WARN deprecated request@2.88.2: request has been deprecated, see https://github.com/request/request/issues/3142
[... ] | fetchMetadata: sill resolveWithNewModule colors@1.0.3 checking installable status
```

# Setarea drepturilor de acces necesare

Set-ExecutionPolicy RemoteSigned



The screenshot shows a Visual Studio Code interface with a dark theme. At the top, there is a button labeled "Add workspace folder...". Below it, a panel contains tabs for "PROBLEMS", "OUTPUT", "DEBUG CONSOLE", and "TERMINAL". The "TERMINAL" tab is selected and underlined. Inside the terminal, the command prompt "PS D:\fb>" is followed by the command "Set-ExecutionPolicy RemoteSigned" in yellow text. A red arrow points to the command. Below the command, the prompt "PS D:\fb>" is followed by a cursor icon.

```
PS D:\fb> Set-ExecutionPolicy RemoteSigned
PS D:\fb> 
```



# Descrierea pe pași a procesului de configurare și publicare

× **Настройка Firebase Hosting**

1

**Установка интерфейса командной строки Firebase**

Для размещения сайта в Firebase Hosting требуется интерфейс командной строки Firebase.

Выполните указанную ниже команду [npm](#), чтобы установить ИКС или обновить его до последней версии.

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

npm не работает? Изучите [справочное руководство по интерфейсу командной строки Firebase](#) или измените [права доступа для npm](#).

☐ Также показать шаги для добавления Firebase JavaScript SDK в веб-приложение  
В пакет разработчика входят функции Cloud Firestore, Authentication, Performance Monitoring и другие. Его можно добавить прямо сейчас или сделать это позже.


Далее

2

**Инициализация проекта**

3

**Развертывание в Firebase Hosting**



# Autorizarea pe firebase din terminal

× **Настройка Firebase Hosting**

✓


Установка интерфейса командной строки Firebase

2


**Инициализация проекта**

Откройте окно терминала и перейдите в корневой каталог веб-приложения или создайте новый каталог.

Войдите в аккаунт Google

`$ firebase login` 

**Инициализируйте проект**  
Выполните эту команду в корневом каталоге приложения:

`$ firebase init` 

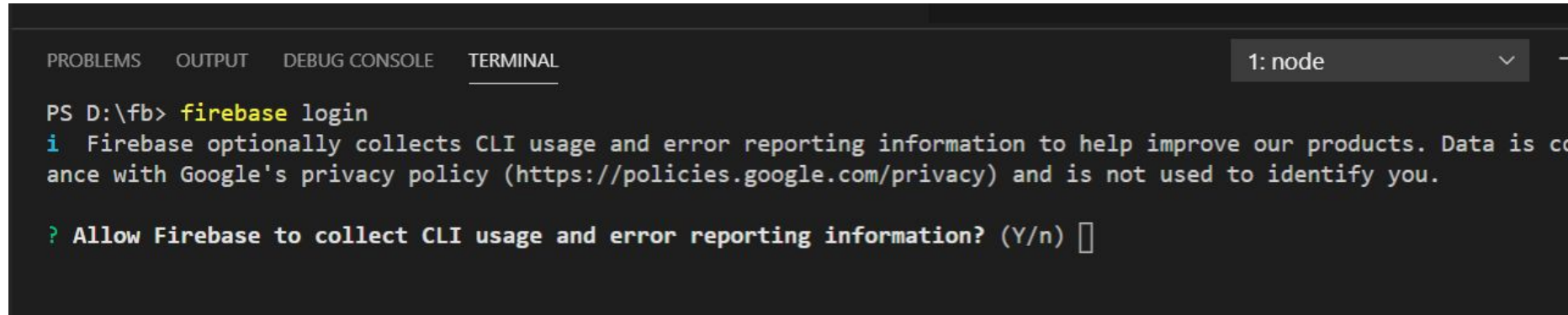
**Далее**

3

Развертывание в Firebase Hosting

# Autorizarea pe firebase din terminal

firebase login



The screenshot shows a terminal window with a dark background. At the top, there are tabs for 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', and 'TERMINAL', with 'TERMINAL' being the active tab. On the right side of the terminal window, there is a dropdown menu showing '1: node' with a downward arrow. The terminal content shows a PowerShell prompt 'PS D:\fb>' followed by the command 'firebase login'. The output of the command is a message from Firebase stating that it optionally collects CLI usage and error reporting information to help improve products, and that this data is collected in accordance with Google's privacy policy. The message includes a link to the privacy policy. At the end of the message, there is a prompt asking for permission to allow Firebase to collect this information, with '(Y/n)' as the expected input and a cursor.

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  1: node
PS D:\fb> firebase login
i  Firebase optionally collects CLI 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 usage and error reporting information? (Y/n) 
```

# Autorizarea pe firebase din terminal

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

1: node

```
PS D:\fb> firebase login
```

```
i Firebase optionally collects CLI 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 usage and error reporting information? Yes
```

```
i To change your data collection preference at any time, run `firebase logout` and log in again.
```

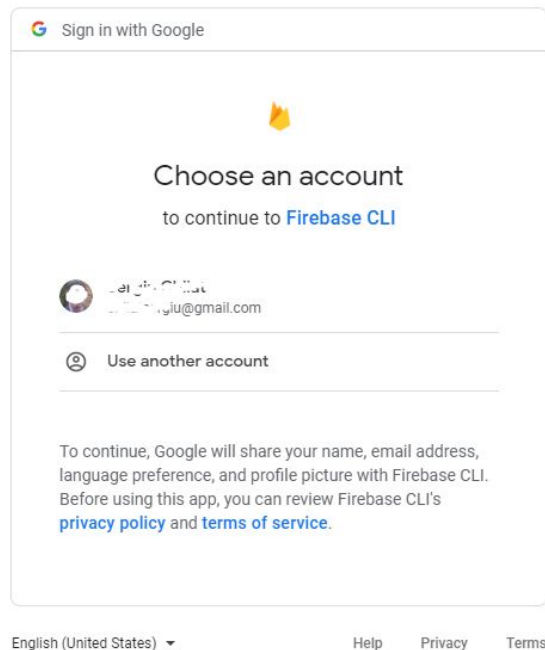
```
Visit this URL on this device to log in:
```

```
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=11504920&redirect\_uri=http%3A%2F%2Flocalhost%3A9005
```

```
Waiting for authentication...
```

```
█
```

# Autorizarea pe firebase din terminal



# Autorizarea pe firebase din terminal

Приложение "[Firebase CLI](#)" сможет выполнять следующие действия:

- Просмотр и изменение данных в сервисах Google Облачной платформы ⓘ
- 🔥 Просмотр всех ваших данных и настроек Firebase, а также управление ими ⓘ
- Просмотр проектов с Облачной платформы ⓘ

Убедитесь в надежности сервиса "Firebase CLI"

Этот сайт или приложение сможет получить доступ к конфиденциальной информации. Ознакомьтесь с [условиями использования](#) и [политикой конфиденциальности](#) приложения "Firebase CLI", чтобы узнать, как будут обрабатываться ваши данные. Посмотреть или удалить приложения и сайты с доступом к вашему аккаунту можно на странице [Аккаунт Google](#).

[Подробнее об угрозах безопасности...](#)

Отмена

Разрешить

# Autorizarea pe firebase din terminal

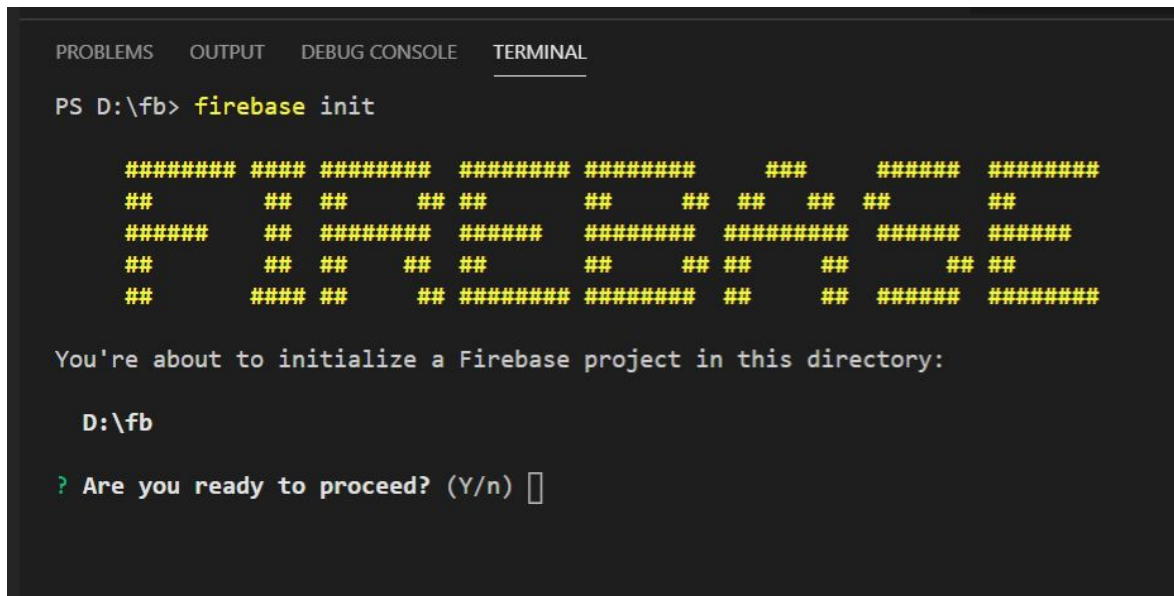
**Woohoo!**

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.

# Inițializarea proiectului pe Firebase

```
firebase init
```



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

PS D:\fb> firebase init

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

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

D:\fb

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



# Inițializarea proiectului pe Firebase

Cu săgeata mergem  
în jos și tastăm  
SPACE, apoi ENTER

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS D:\fb> firebase init

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

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

D:\fb

? Are you ready to proceed? Yes
? Which Firebase CLI features do you want to set up for this folder? Press Space
  ices. (Press <space> to select, <a> to toggle all, <i> to invert selection)
  ( ) Database: Deploy Firebase Realtime Database Rules
  ( ) Firestore: Deploy rules and create indexes for Firestore
  ( ) Functions: Configure and deploy Cloud Functions
  >( ) Hosting: Configure and deploy Firebase Hosting sites
  ( ) Storage: Deploy Cloud Storage security rules
  ( ) Emulators: Set up local emulators for Firebase features
  ( ) Remote Config: Get, deploy, and rollback configurations for Remote Config
```

# Inițializarea proiectului pe Firebase

Selectăm și tastăm  
ENTER

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

```
D:\fb
```

```
? Are you ready to proceed? Yes
```

```
? Which Firebase CLI features do you want to set up for this folder  
ices. Hosting: Configure and deploy Firebase Hosting sites
```

```
=== 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
```

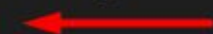
# Inițializarea proiectului pe Firebase

Selectăm proiectul  
Firebase pe care  
dorim să publicăm  
(la fiecare poate  
fi diferită lista  
proiectelor)

## Project Setup

First, let's associate this project directory with a Firebase project. You can create multiple project aliases by running `firebase init` 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:
  aceti-f1676 (aceti)
  taskvue-2d0f8 (taskVue)
> test-2fd23 (test)
  test2-bcbb8 (test2)
```



# Inițializarea proiectului pe Firebase

1. Dosarul Public
2. Single Page: No
3. GitHub: No

```
=== 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!
PS D:\fb> 
```

# Publicarea fişierelor pe hosting-ul Firebase

## × Настройка Firebase Hosting

✓ Установка интерфейса командной строки Firebase

✓ Инициализация проекта

3 Развертывание в Firebase Hosting

### Разверните приложение

Поместите статические файлы (например, HTML, CSS, JS) в каталог развертывания приложения (по умолчанию используется каталог public). Затем выполните следующую команду в корневом каталоге приложения:

```
$ firebase deploy
```

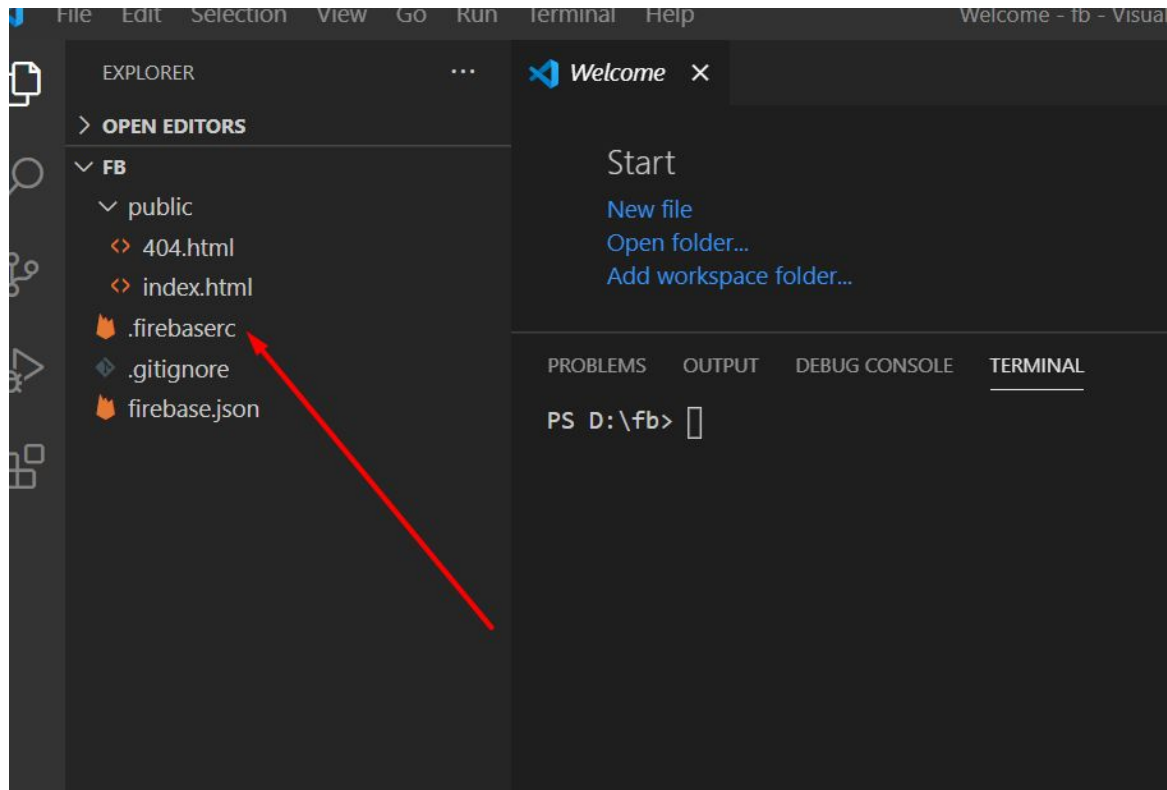


Развернутое приложение будет доступно по адресу [test-firebase-be7fe.web.app](#).

Нужна помощь? Ознакомьтесь с [документацией по Hosting](#).

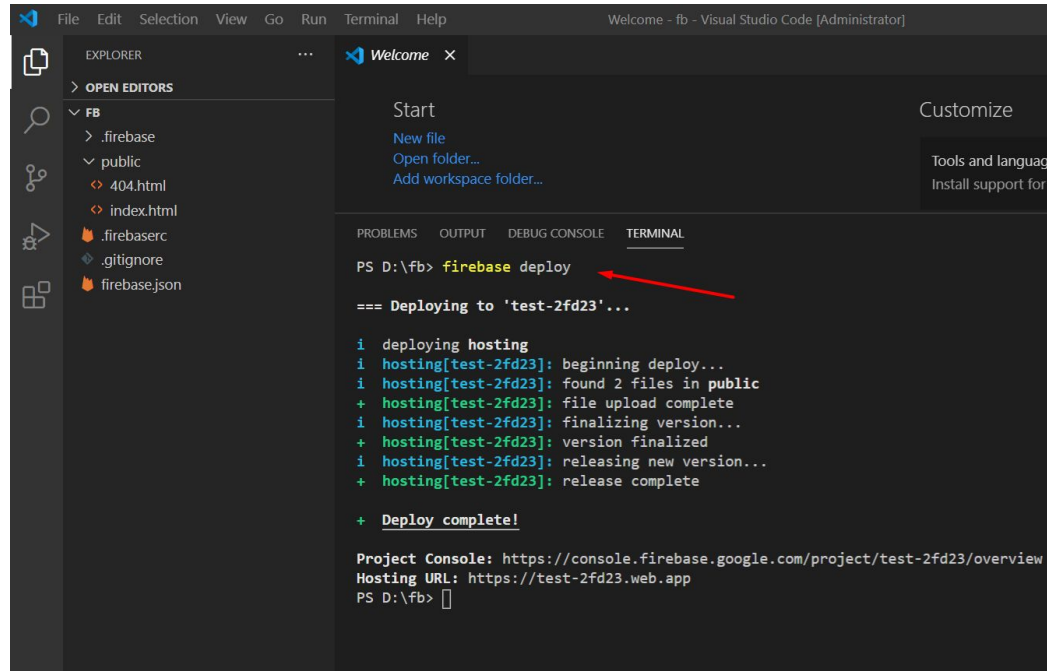
Открыть консоль

# Publicarea fișierelor pe hosting-ul Firebase



# Publicarea fișierelor pe hosting-ul Firebase

firebase deploy



The screenshot shows the Visual Studio Code interface with a project named 'fb' open. The Explorer sidebar on the left shows the file structure: 'fb' folder containing '.firebase', 'public' folder (with '404.html' and 'index.html'), '.firebaseconfig', '.gitignore', and 'firebase.json'. The main editor area shows the 'Welcome' page. The Terminal panel at the bottom displays the output of the 'firebase deploy' command. A red arrow points to the command prompt 'PS D:\fb> firebase deploy'.

```
PS D:\fb> firebase deploy

=== Deploying to 'test-2fd23'...

i  deploying hosting
i  hosting[test-2fd23]: beginning deploy...
i  hosting[test-2fd23]: found 2 files in public
+  hosting[test-2fd23]: file upload complete
i  hosting[test-2fd23]: finalizing version...
+  hosting[test-2fd23]: version finalized
i  hosting[test-2fd23]: releasing new version...
+  hosting[test-2fd23]: release complete

+  Deploy complete!

Project Console: https://console.firebase.google.com/project/test-2fd23/overview
Hosting URL: https://test-2fd23.web.app
PS D:\fb>
```

# Publicarea fișierelor pe hosting-ul Firebase

## × Настройка Firebase Hosting

✓ Установка интерфейса командной строки Firebase

✓ Инициализация проекта

3 Развертывание в Firebase Hosting

### Разверните приложение

Поместите статические файлы (например, HTML, CSS, JS) в каталог развертывания приложения (по умолчанию используется каталог `public`). Затем выполните следующую команду в корневом каталоге приложения:

```
$ firebase deploy
```



Развернутое приложение будет доступно по адресу [test-firebase-be7fe.web.app](https://test-firebase-be7fe.web.app).

Нужна помощь? Ознакомьтесь с [документацией по Hosting](#).

Открыть консоль






# Publicarea fișierelor pe hosting-ul Firebase

test2 ▾

Hosting

[Панель управления](#) [Использование](#)


 Отслеживайте веб-запросы к вашему сайту с помощью Cloud Logging. [Начать](#)

Домены test2-bcbb8

Добавить пользовательский домен


Домен	Состояние
test2-bcbb8.web.app По умолчанию	
test2-bcbb8.firebaseio.com По умолчанию	

История выпусков сайта test2-bcbb8

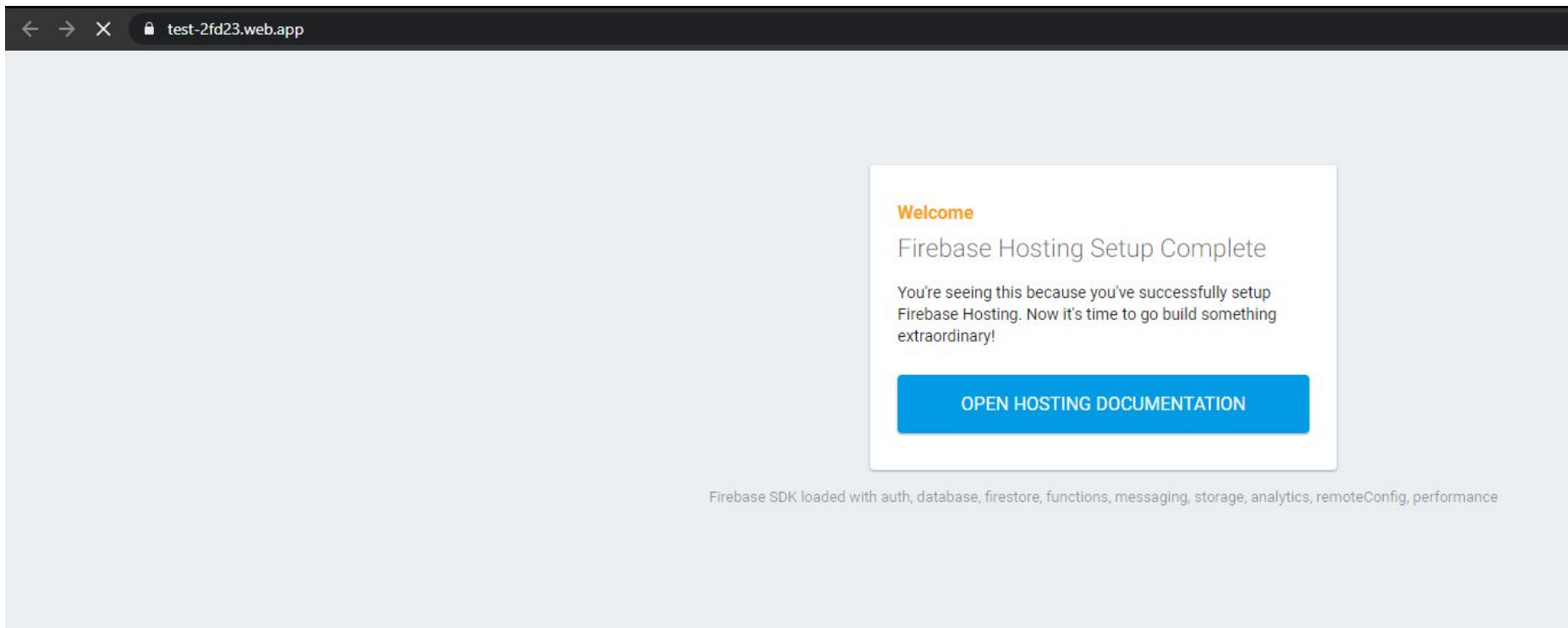
Состояние	Время	Развертывание	Файлы
★ Текущая версия	19 нояб. 2020 г. 09:26	 test2-bcbb8@gmail.com 9fb6f7	4

# Publicarea fișierelor pe hosting-ul Firebase

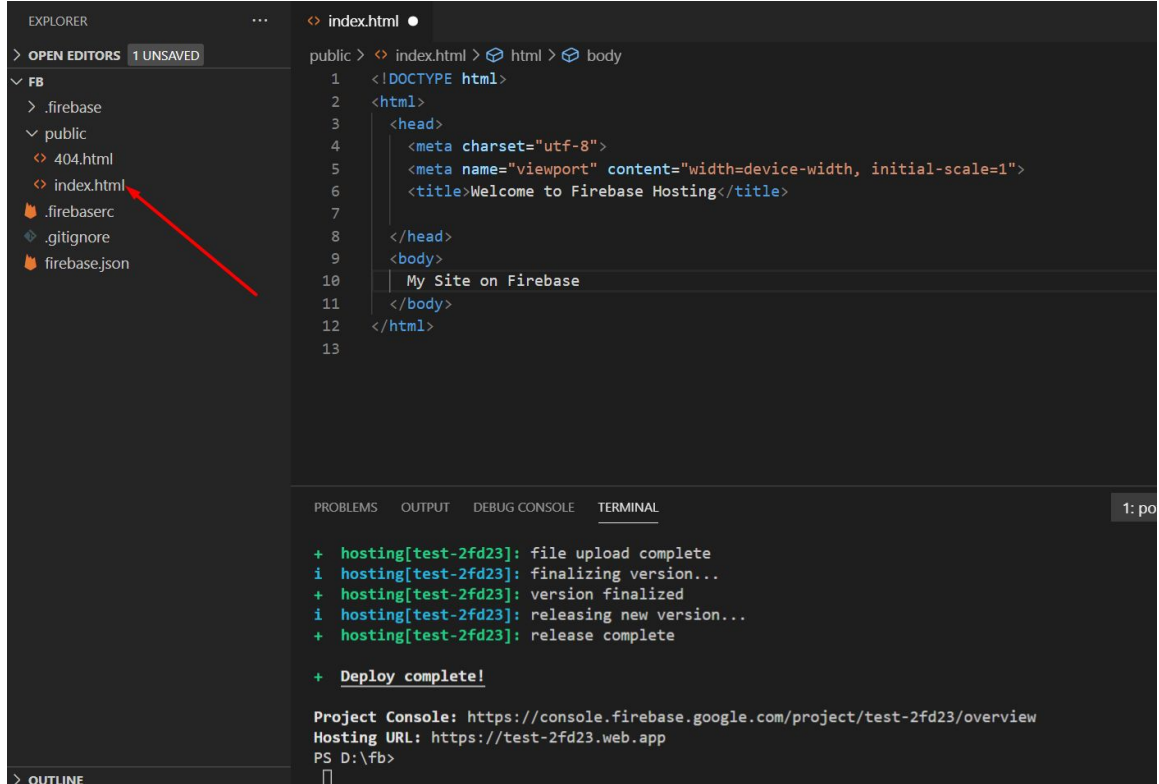
```
+ Deploy complete!  
  
Project Console Follow Link (ctrl + click) firebase.google.com/project/test-2  
Hosting URL: https://test-2fd23.web.app  
PS D:\fb> 
```



# Vizualizarea sitului online



# Vizualizarea sitului online



The screenshot shows the Visual Studio Code interface with the Explorer, Editor, and Terminal panels. The Explorer panel on the left shows a file tree for a project named 'FB' with a 'public' subdirectory containing '404.html' and 'index.html'. A red arrow points to 'index.html'. The Editor panel in the center shows the content of 'index.html', which is a simple HTML page with a title 'Welcome to Firebase Hosting' and a body text 'My Site on Firebase'. The Terminal panel at the bottom shows the output of the deployment command, indicating that the file upload is complete, the version is finalized, and the new version is released. The terminal also displays the project console URL and the hosting URL.

```
EXPLORER
1 OPEN EDITORS 1 UNSAVED
FB
  .firebase
  public
    404.html
    index.html
  .firebaserc
  .gitignore
  firebase.json

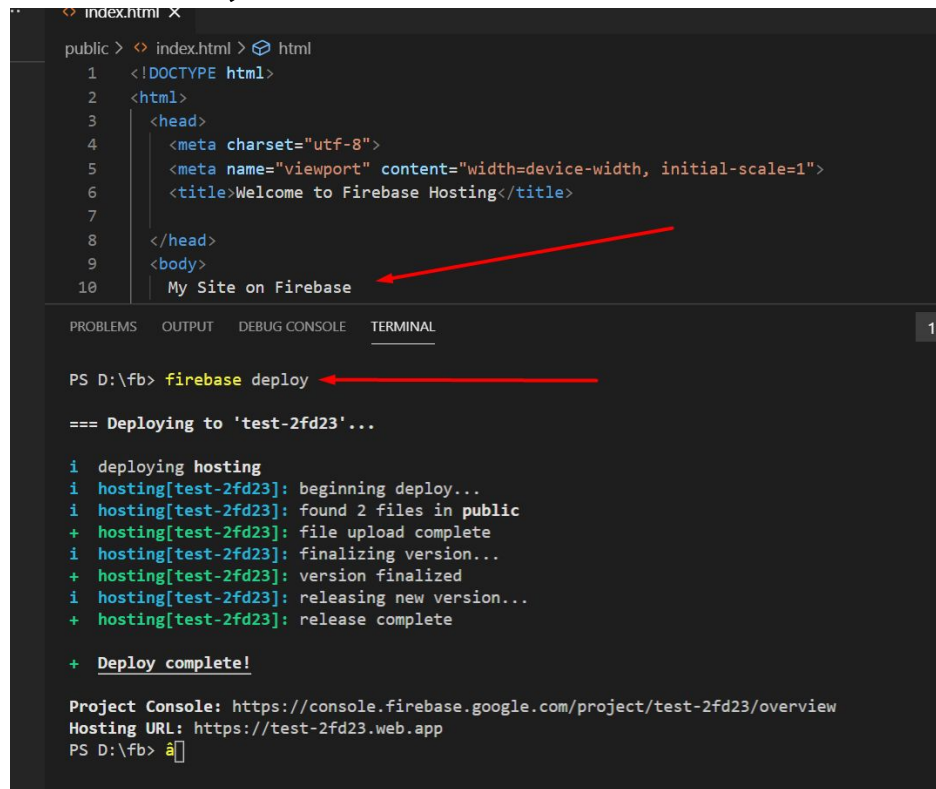
index.html
public > index.html > html > body
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1">
6     <title>Welcome to Firebase Hosting</title>
7   </head>
8   <body>
9     My Site on Firebase
10  </body>
11 </html>
12
13

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
+ hosting[test-2fd23]: file upload complete
i hosting[test-2fd23]: finalizing version...
+ hosting[test-2fd23]: version finalized
i hosting[test-2fd23]: releasing new version...
+ hosting[test-2fd23]: release complete

+ Deploy complete!

Project Console: https://console.firebase.google.com/project/test-2fd23/overview
Hosting URL: https://test-2fd23.web.app
PS D:\fb>
```

# Modificarea sitului și publicarea modificărilor



The image shows a Visual Studio Code editor with a file named `index.html` open. The code is as follows:

```
public > <> index.html > html
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <meta charset="utf-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1">
6      <title>Welcome to Firebase Hosting</title>
7    </head>
8    <body>
9      My Site on Firebase
```

A red arrow points from the text `My Site on Firebase` in the `body` tag to the terminal window below.

The terminal window shows the output of the `firebase deploy` command:

```
PS D:\fb> firebase deploy

=== Deploying to 'test-2fd23'...

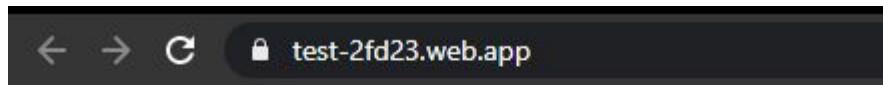
i  deploying hosting
i  hosting[test-2fd23]: beginning deploy...
i  hosting[test-2fd23]: found 2 files in public
+  hosting[test-2fd23]: file upload complete
i  hosting[test-2fd23]: finalizing version...
+  hosting[test-2fd23]: version finalized
i  hosting[test-2fd23]: releasing new version...
+  hosting[test-2fd23]: release complete

+  Deploy complete!

Project Console: https://console.firebase.google.com/project/test-2fd23/overview
Hosting URL: https://test-2fd23.web.app
PS D:\fb> a
```

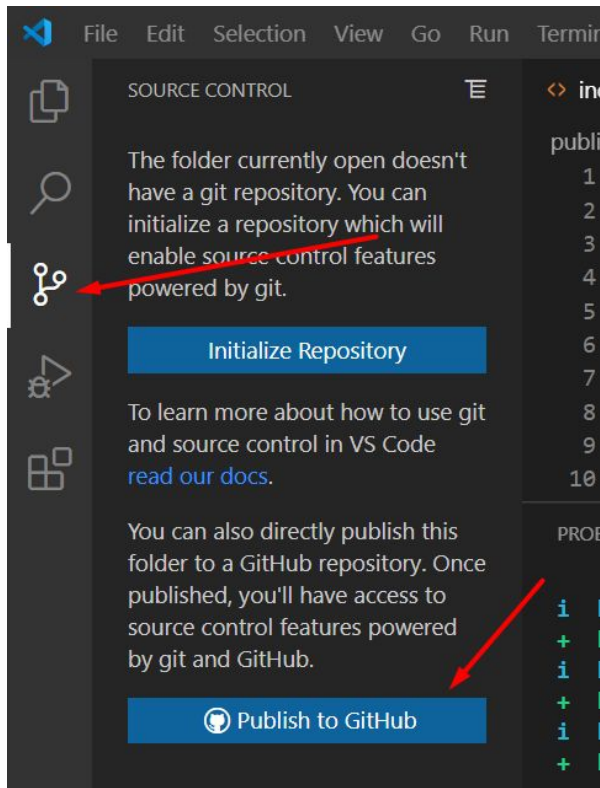
Another red arrow points from the `firebase deploy` command in the terminal to the text `My Site on Firebase` in the `index.html` file.

# Modificarea sitului și publicarea modificărilor

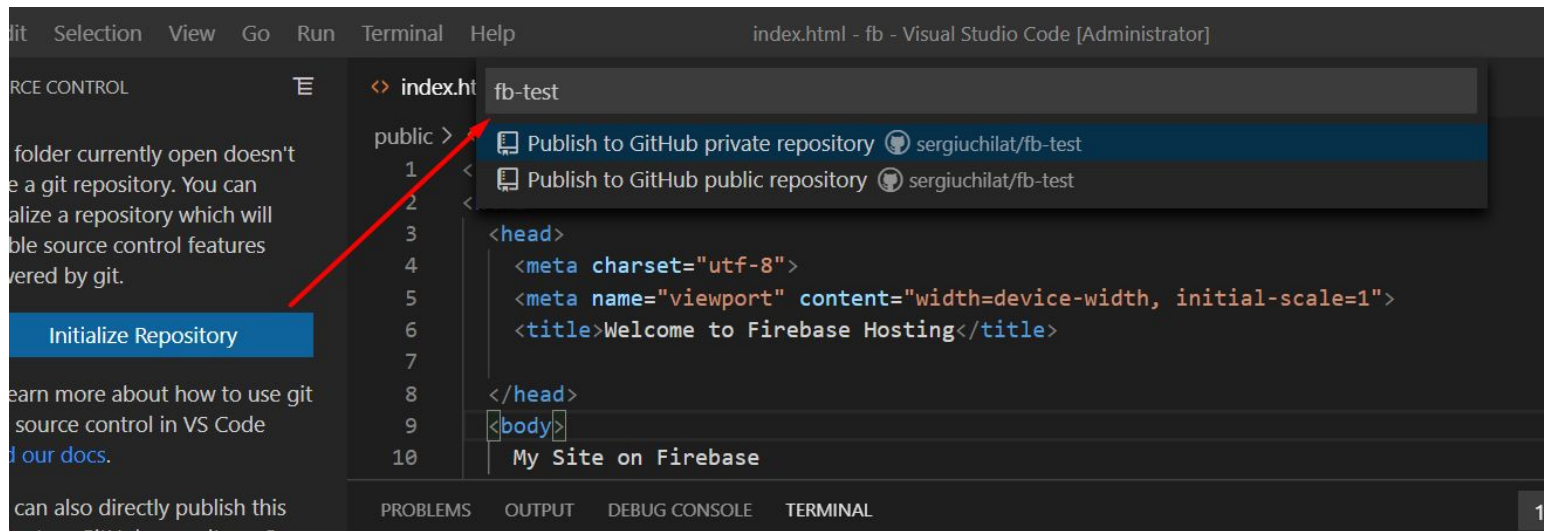


My Site on Firebase

# Publicarea codului pe Github



# Modificarea sitului și publicarea modificărilor





# Publicarea codului pe Github

The screenshot shows the GitHub interface for a repository named 'sergiuchilat / fb-test'. The repository is marked as 'Private'. The navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Security, Insights, and Settings. Below the navigation bar, there are buttons for 'master' branch, '1 branch', and '0 tags', along with 'Go to file' and 'Add file' buttons. A 'Code' button with a download icon is also present. The main content area displays a commit history table with the following data:

sergiuchilat first commit			1d0b7a4 15 seconds ago	🕒 1 commits
📁 public	first commit			15 seconds ago
📄 .firebaserc	first commit			15 seconds ago
📄 .gitignore	first commit			15 seconds ago
📄 firebase.json	first commit			15 seconds ago

At the bottom, there is a blue box with the text 'Add a README with an overview of your project.' and a green 'Add a README' button.