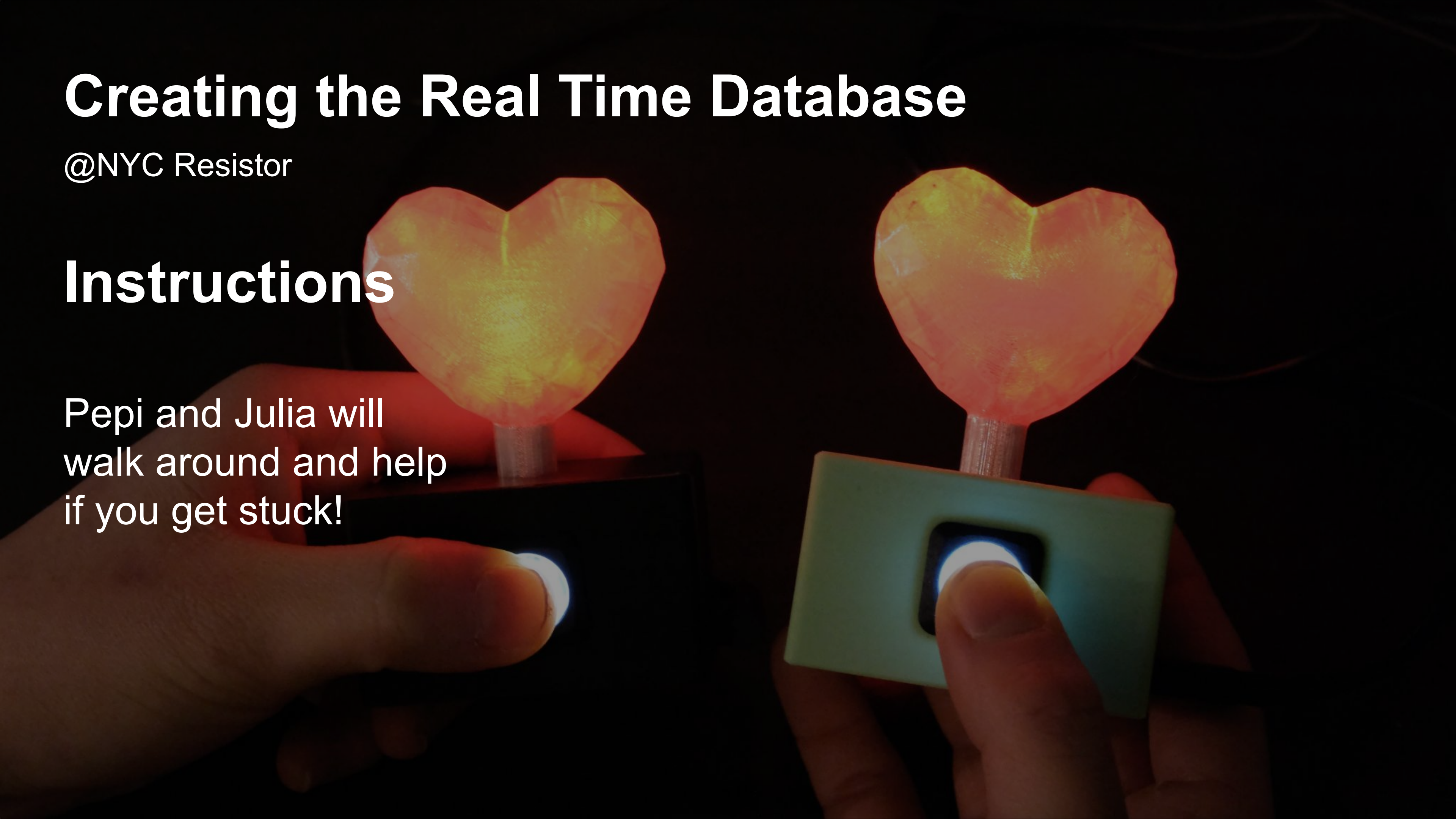
Creating the Real Time Database

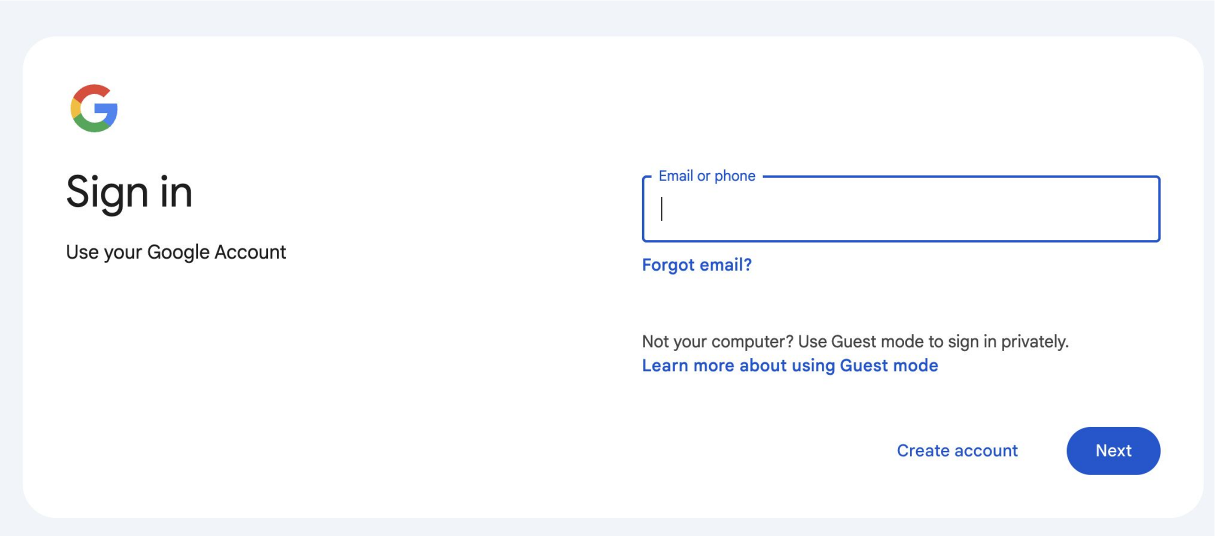
@NYC Resistor



Instructions

Pepi and Julia will
walk around and help
if you get stuck!

Step 1: Open **console.firebase.google.com** in Google Chrome, and log into your **personal** Google account.



Sign in

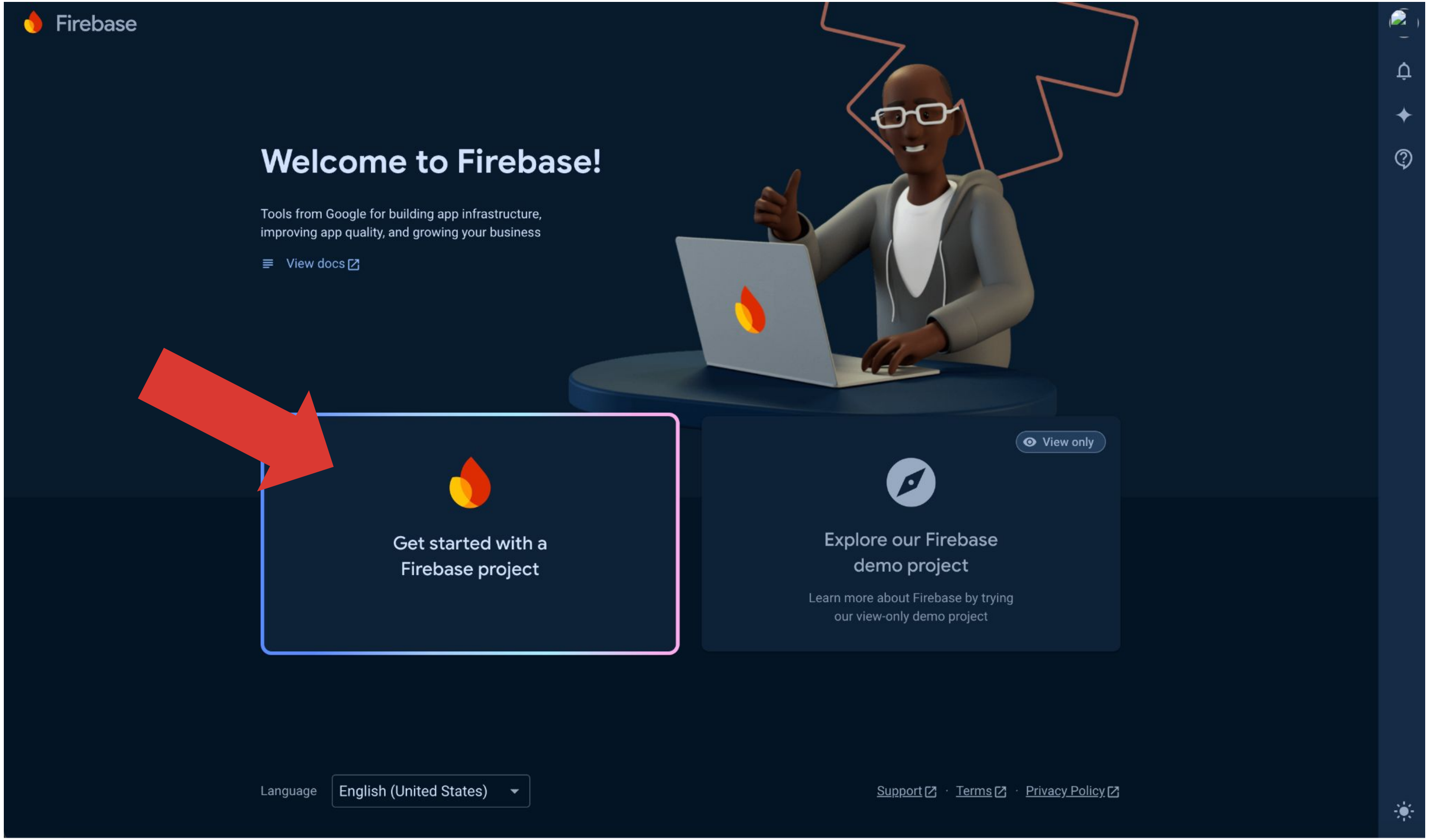
Use your Google Account

Email or phone

Forgot email?

Not your computer? Use Guest mode to sign in privately.
Learn more about using Guest mode

Step 2: In the Firebase website, select **”Get started with a Firebase project”**



Firebase

Welcome to Firebase!

Tools from Google for building app infrastructure, improving app quality, and growing your business

View docs

Get started with a Firebase project

View only

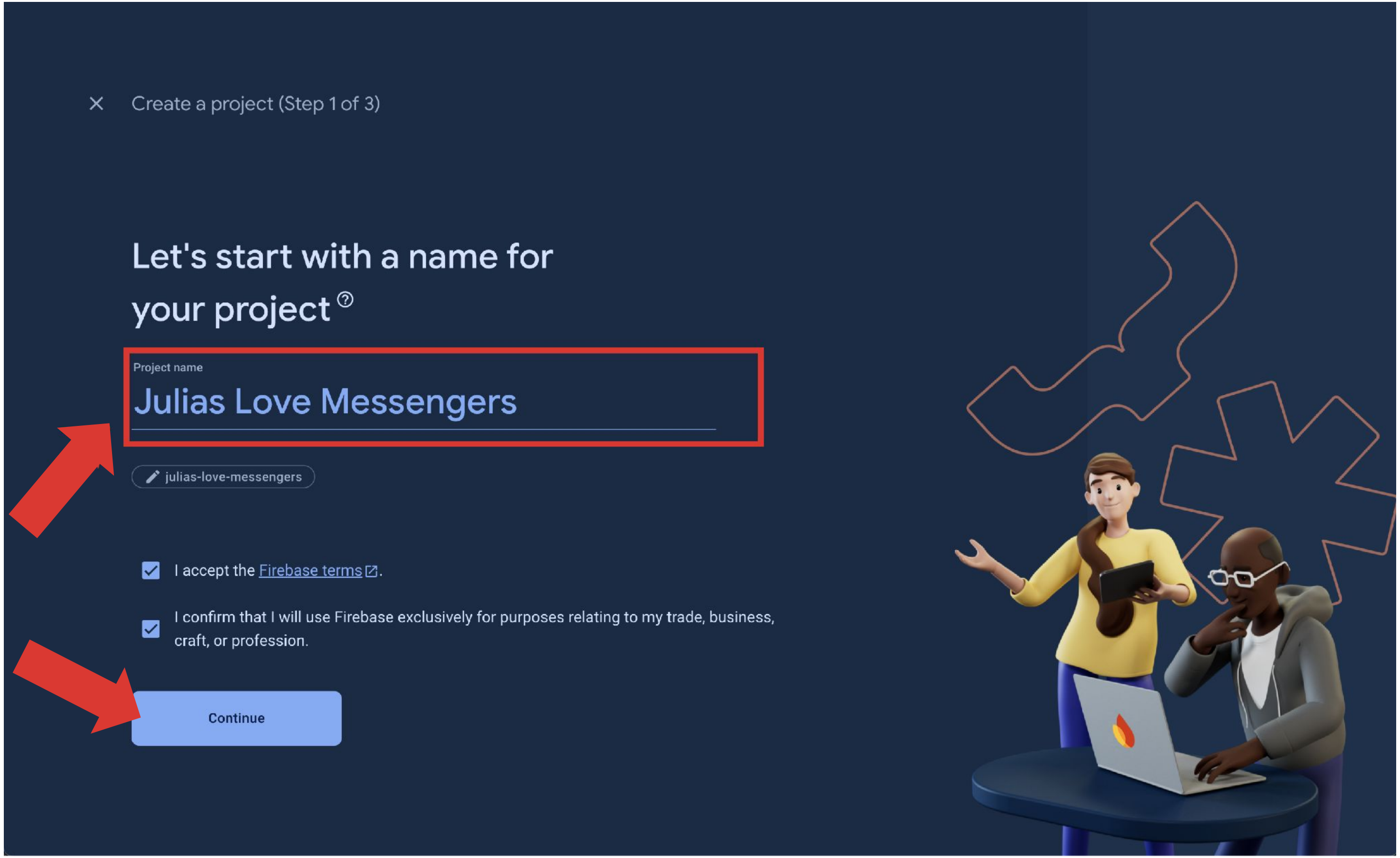
Explore our Firebase demo project

Learn more about Firebase by trying our view-only demo project

Language: English (United States)

Support · Terms · Privacy Policy

Step 3: Give your project a **name**, and hit the **“Continue”** button.



Create a project (Step 1 of 3)

Let's start with a name for your project

Project name

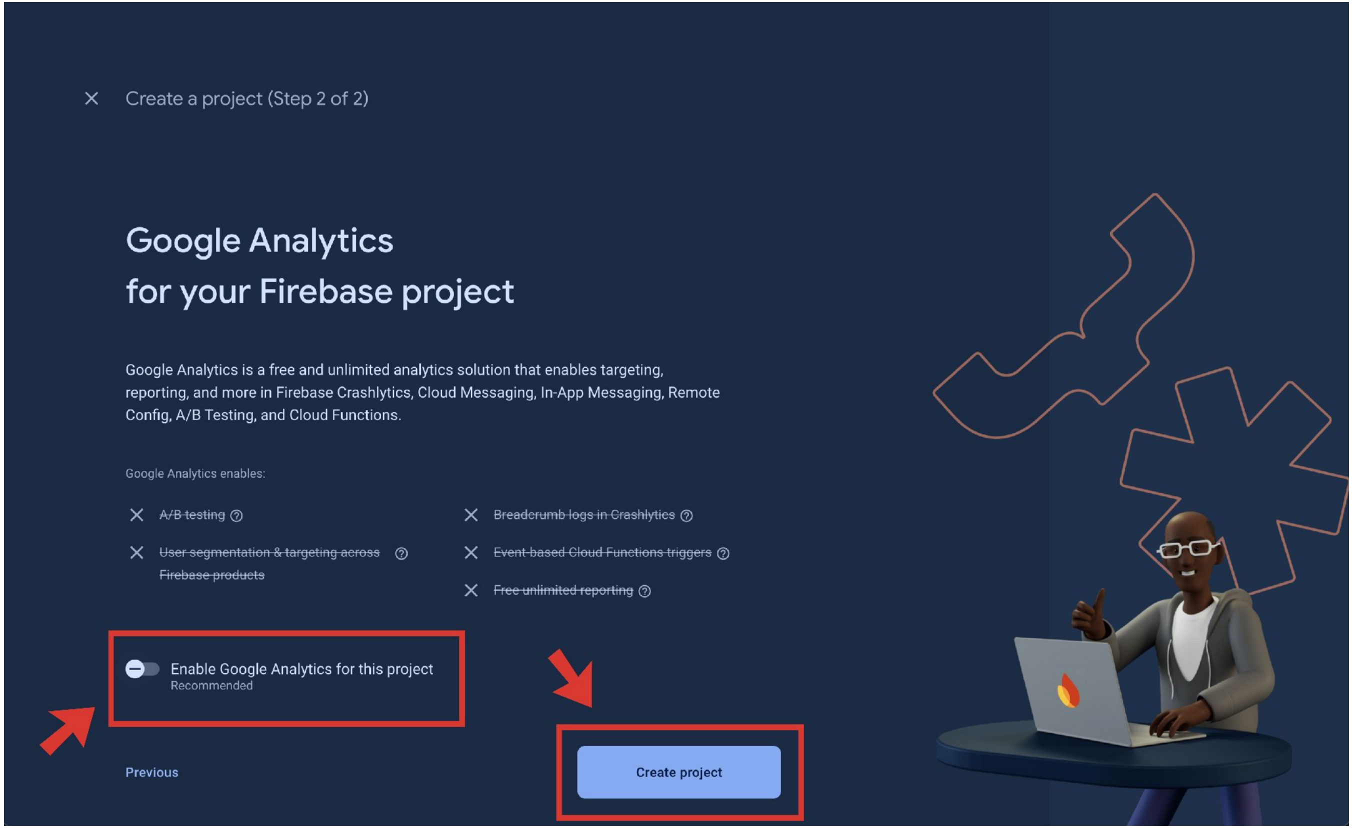
Julias Love Messengers

julias-love-messengers

☑ I accept the Firebase terms.

☑ I confirm that I will use Firebase exclusively for purposes relating to my trade, business, craft, or profession.

Step 4: Disable Google Analytics in the slider at the bottom of the page, then hit **“Create Project”**.



× Create a project (Step 2 of 2)

Google Analytics
for your Firebase project

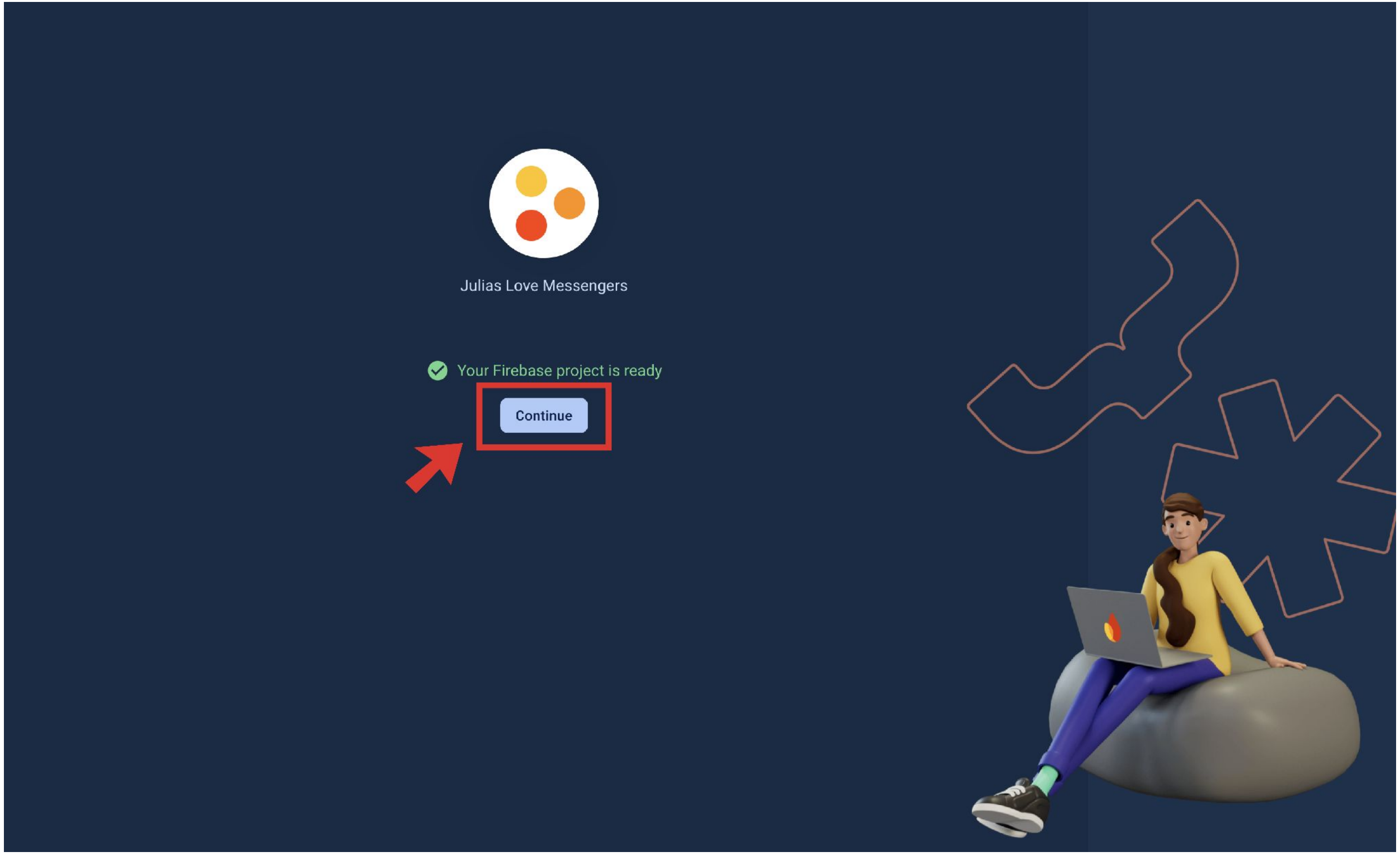
Google Analytics is a free and unlimited analytics solution that enables targeting, reporting, and more in Firebase Crashlytics, Cloud Messaging, In-App Messaging, Remote Config, A/B Testing, and Cloud Functions.

Google Analytics enables:

- × ~~A/B testing~~
- × ~~User segmentation & targeting across Firebase products~~
- × ~~Breadcrumb logs in Crashlytics~~
- × ~~Event-based Cloud Functions triggers~~
- × ~~Free unlimited reporting~~

○ Enable Google Analytics for this project
Recommended

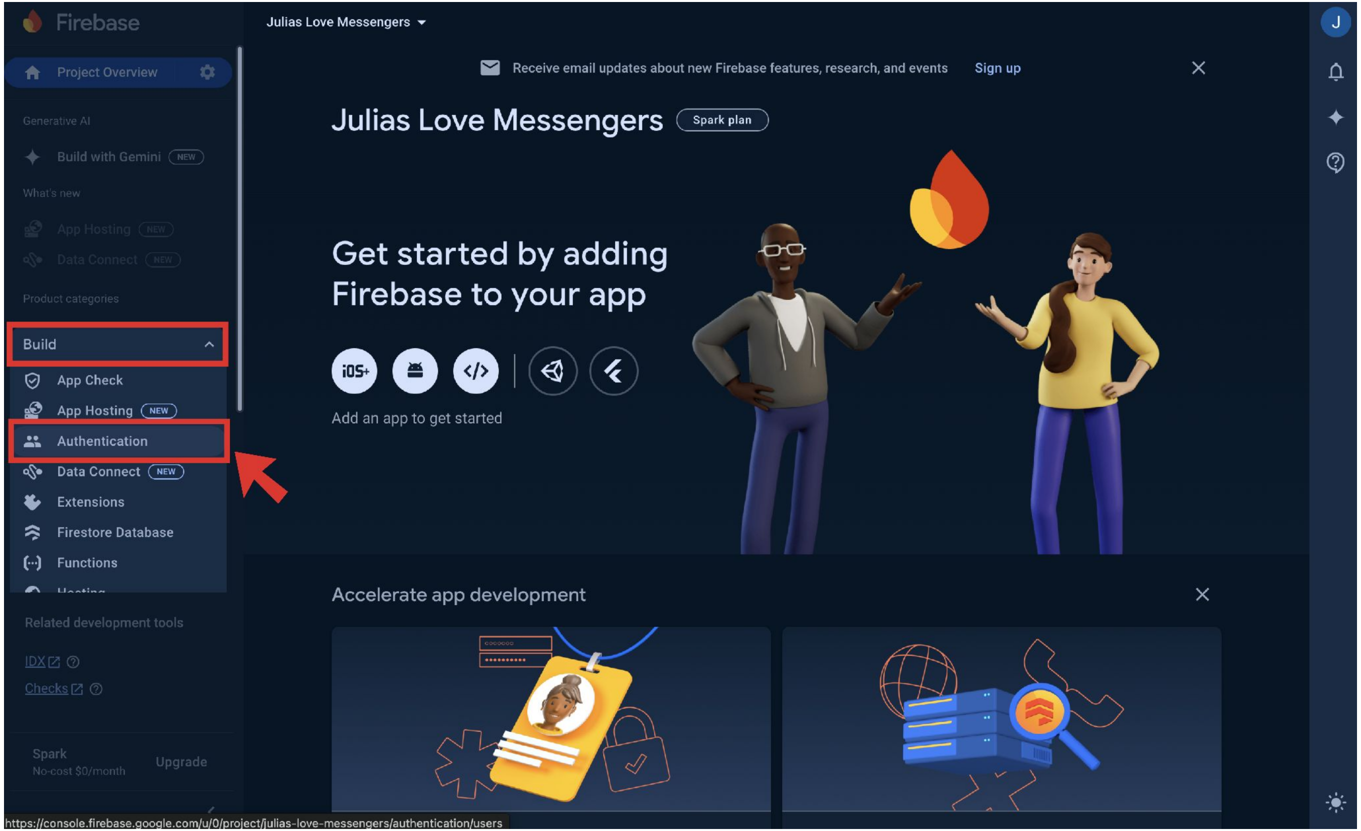
Step 5: Once the project has loaded, hit the **“Continue”** button.



Julias Love Messengers

✓ Your Firebase project is ready

Step 6: We are now in the project console page! On the left panel bar, enter the **“Build”** menu, and select **“Authentication”**.



Julias Love Messengers

Receive email updates about new Firebase features, research, and events Sign up

Julias Love Messengers Spark plan

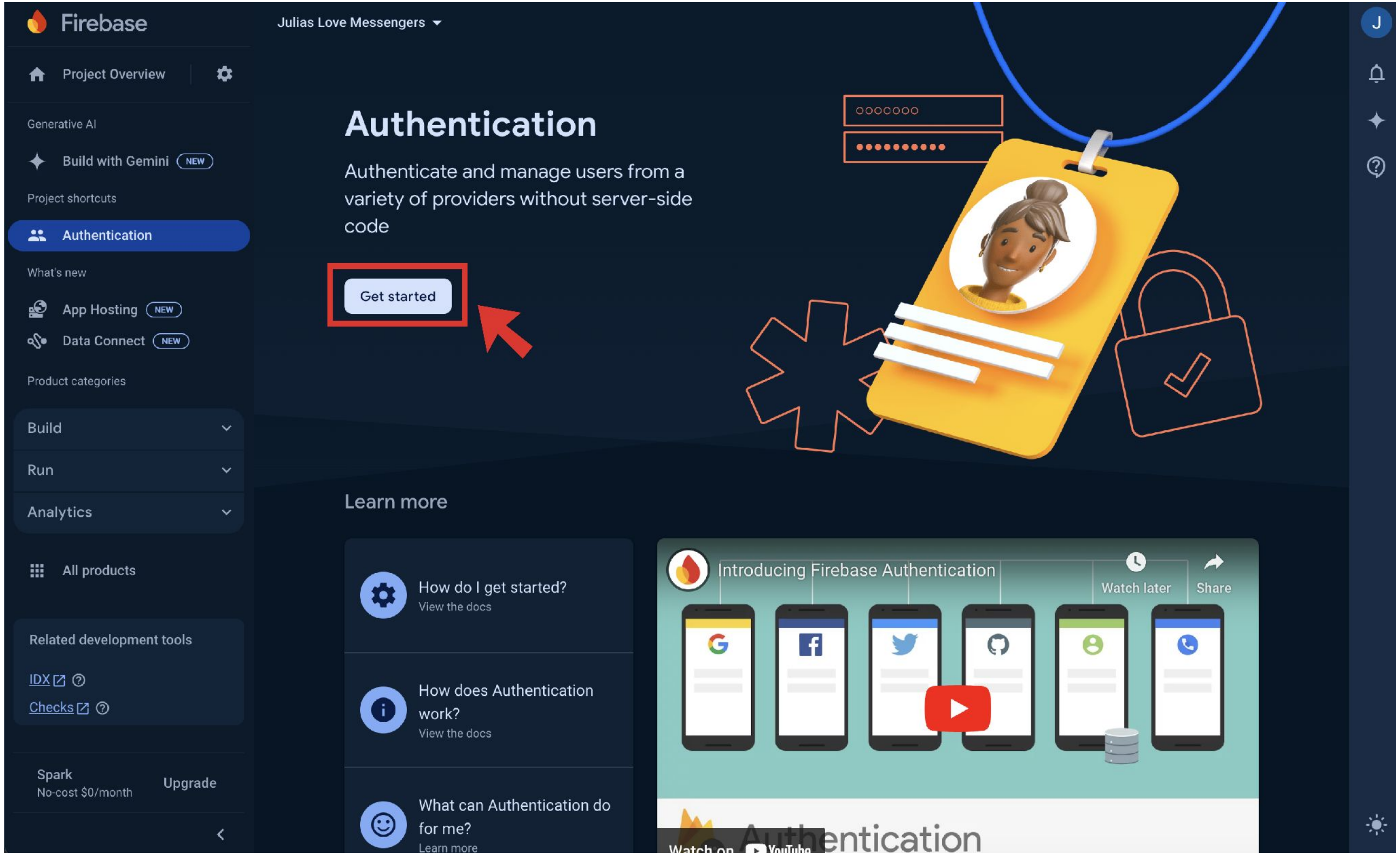
Get started by adding Firebase to your app

Add an app to get started

Accelerate app development

https://console.firebase.google.com/u/0/project/julias-love-messengers/authentication/users

Step 7: In the authentication page, select **"Get started"**.



Authentication

Authenticate and manage users from a variety of providers without server-side code

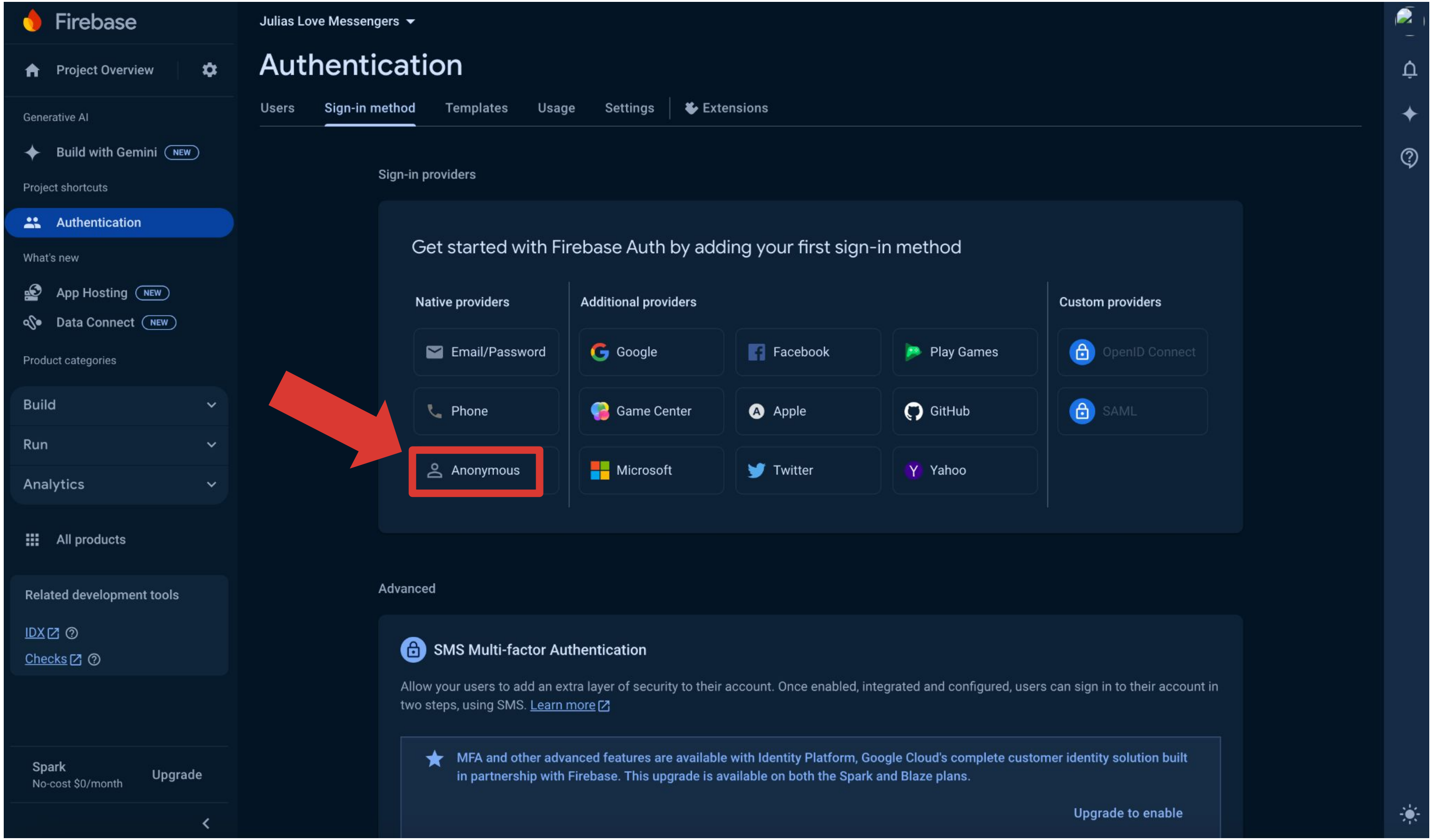
Learn more

How do I get started?
View the docs

How does Authentication work?
View the docs

What can Authentication do for me?
Learn more

Step 8: Select the **“Anonymous”** option.



Firebase

Project Overview

Generative AI

Build with Gemini NEW

Project shortcuts

Authentication

What's new

App Hosting NEW

Data Connect NEW

Product categories

Build

Run

Analytics

All products

Related development tools

IDX

Checks

Spark
No-cost $0/month

Upgrade

Julias Love Messengers

Authentication

Users | Sign-in method | Templates | Usage | Settings | Extensions

Sign-in providers

Get started with Firebase Auth by adding your first sign-in method

Native providers	Additional providers			Custom providers
Email/Password	Google	Facebook	Play Games	OpenID Connect
Phone	Game Center	Apple	GitHub	SAML
Anonymous	Microsoft	Twitter	Yahoo	

Advanced

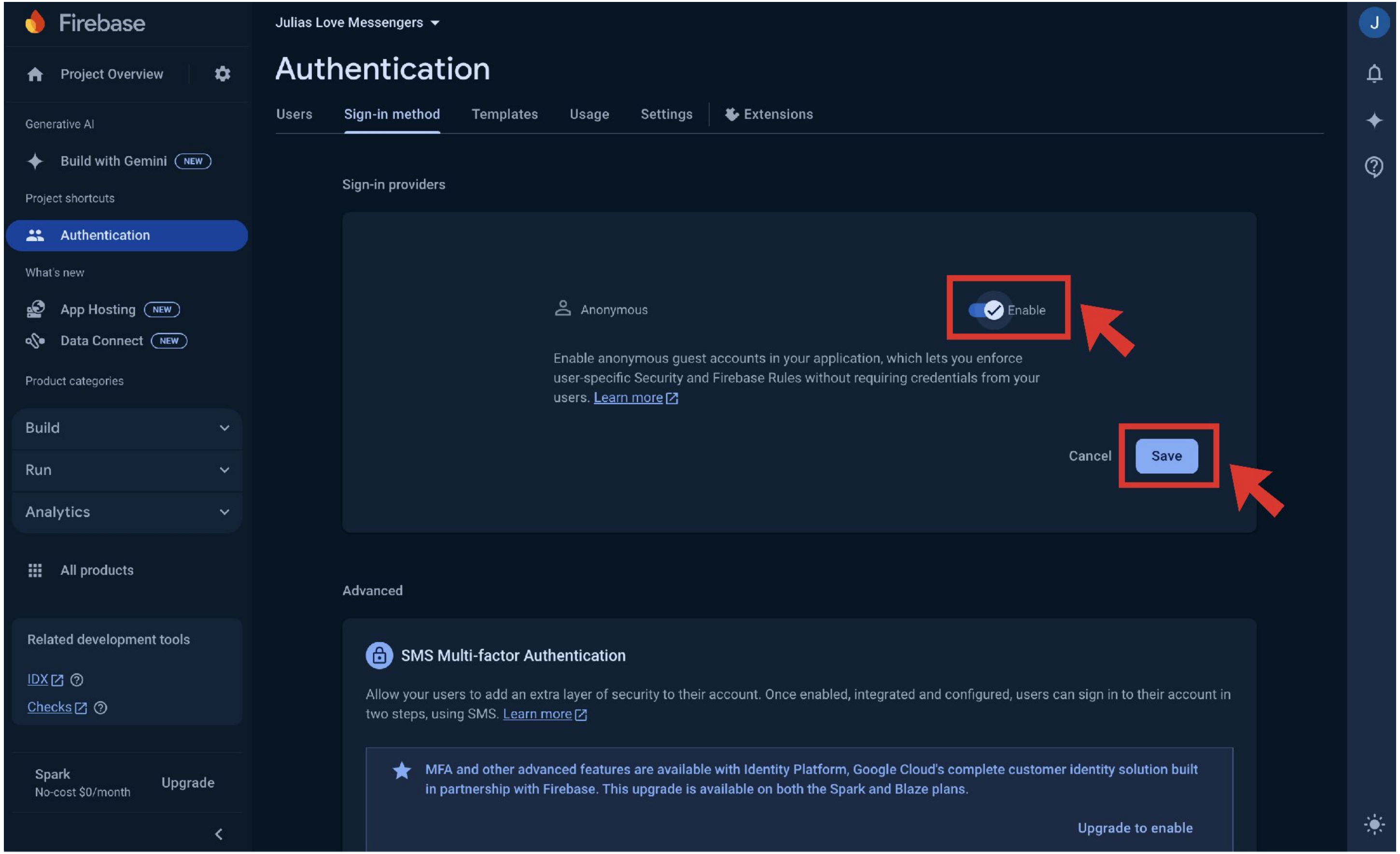
SMS Multi-factor Authentication

Allow your users to add an extra layer of security to their account. Once enabled, integrated and configured, users can sign in to their account in two steps, using SMS. Learn more

MFA and other advanced features are available with Identity Platform, Google Cloud's complete customer identity solution built in partnership with Firebase. This upgrade is available on both the Spark and Blaze plans.

Upgrade to enable

Step 9: Toggle the **“Enable”** slider, and hit the **“Save”** button.



Authentication

Enable anonymous guest accounts in your application, which lets you enforce user-specific Security and Firebase Rules without requiring credentials from your users. Learn more

SMS Multi-factor Authentication

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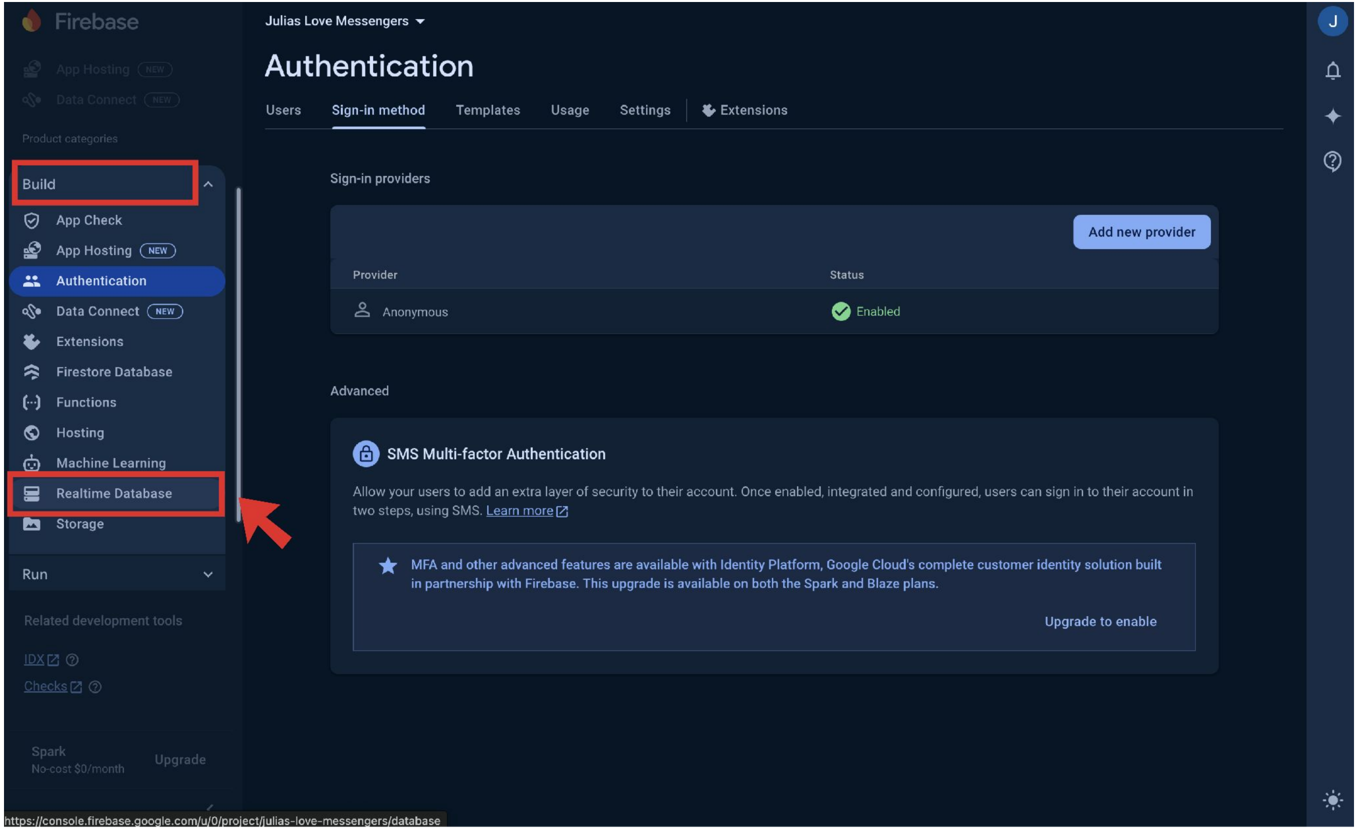
MFA and other advanced features are available with Identity Platform, Google Cloud's complete customer identity solution built in partnership with Firebase. This upgrade is available on both the Spark and Blaze plans.

Step 10: Now we will build the database! Go to the left panel bar. In the **“Build”** menu, select **“Realtime Database”**



Allow your users to add an extra layer of security to their account. Once enabled, integrated and configured, users can sign in to their account in two steps, using SMS. Learn more

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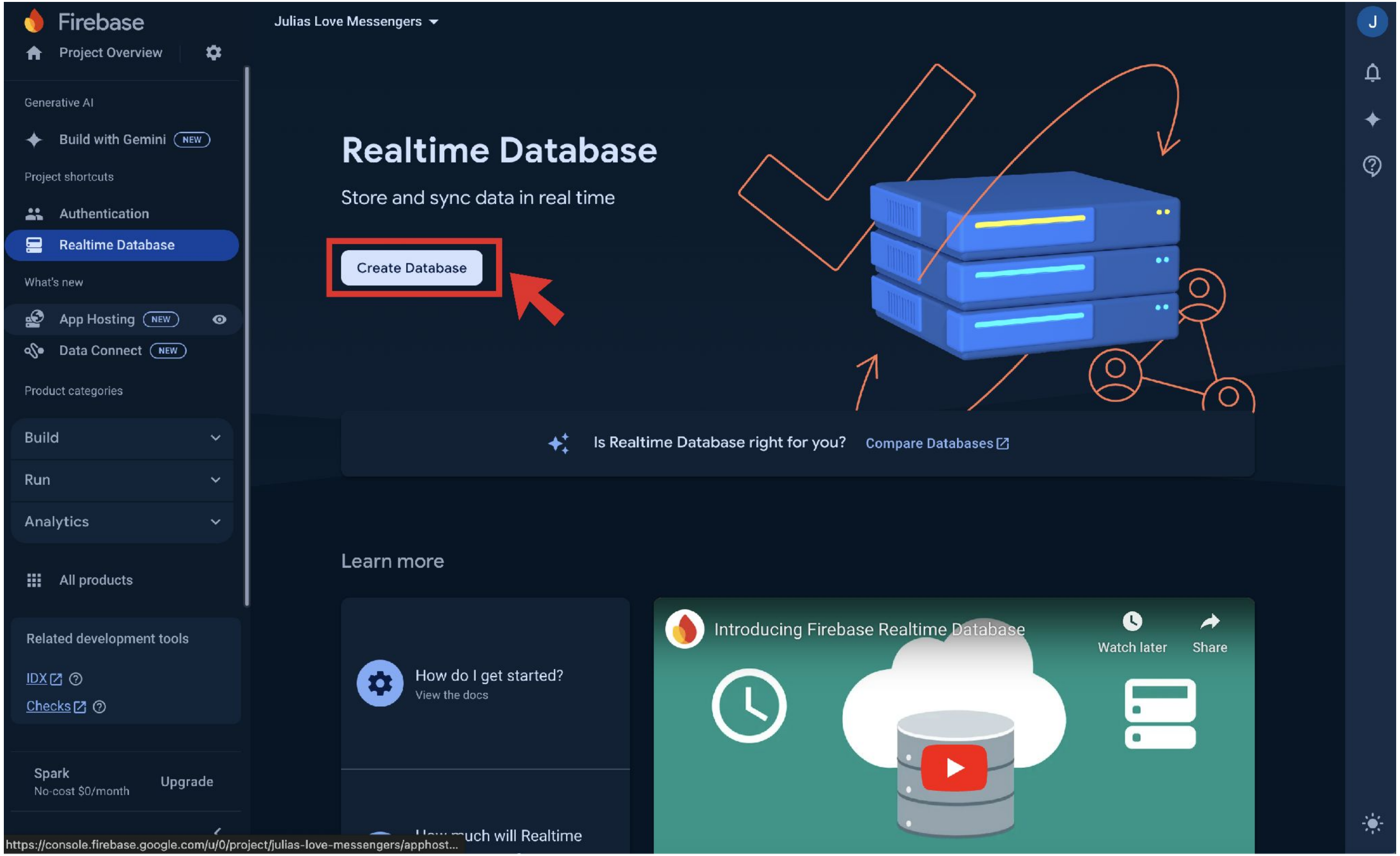
Step 11: Select "Create Database"



Realtime Database

Store and sync data in real time

Create Database

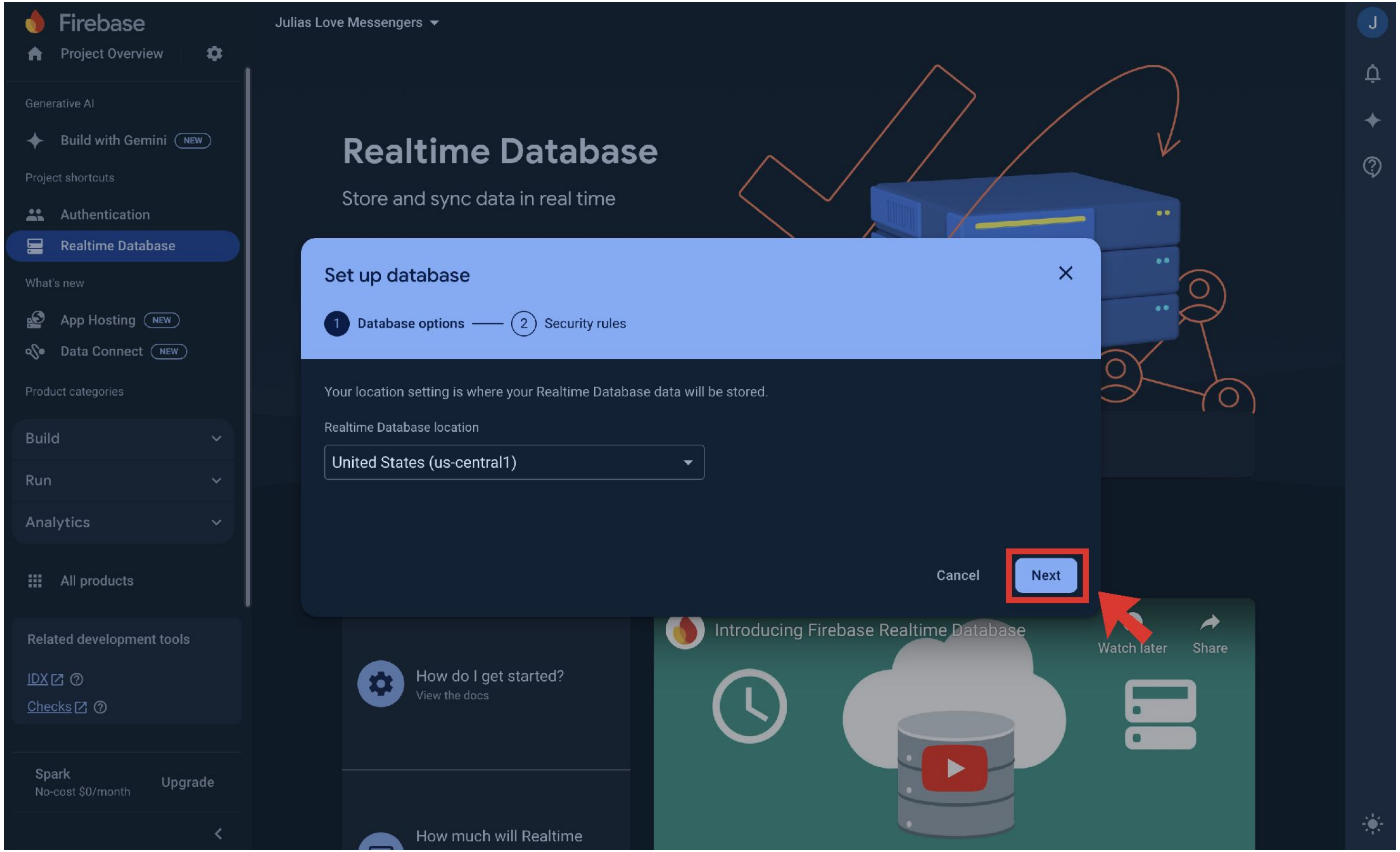
Is Realtime Database right for you? Compare Databases

How do I get started?
View the docs

How much will Realtime

https://console.firebase.google.com/u/0/project/julias-love-messengers/apphost...

Step 12: Keep the Realtime Database location as "**United States**", and hit **"Next"**



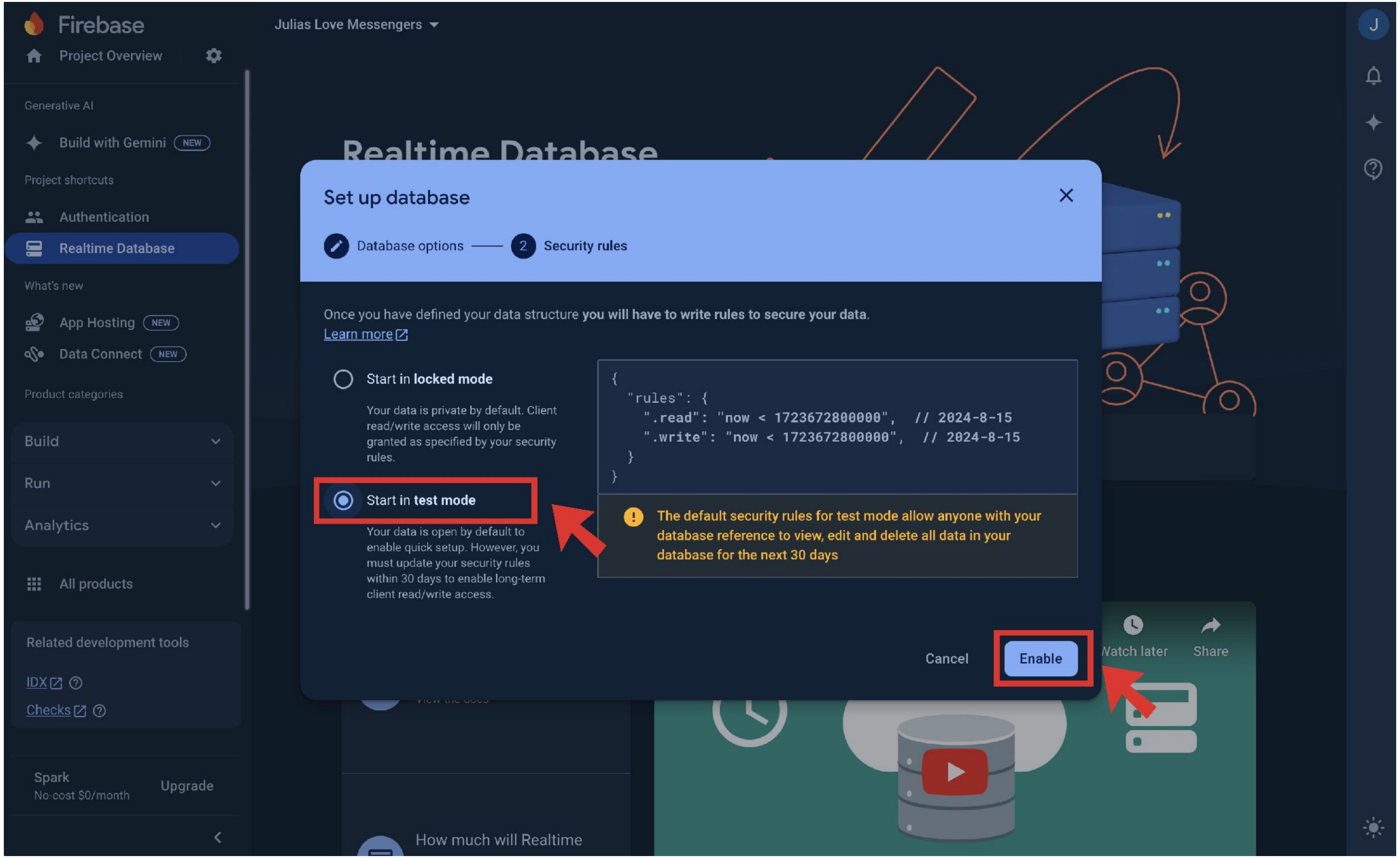
Set up database

1 Database options —— 2 Security rules

Your location setting is where your Realtime Database data will be stored.

Realtime Database location: United States (us-central1)

Step 13: Select **"Start in test mode"**, and hit **"Enable"**



Set up database

Database options —— 2 Security rules

Once you have defined your data structure **you will have to write rules to secure your data.**
Learn more

○ Start in **locked mode**

Your data is private by default. Client read/write access will only be granted as specified by your security rules.

● Start in **test mode**

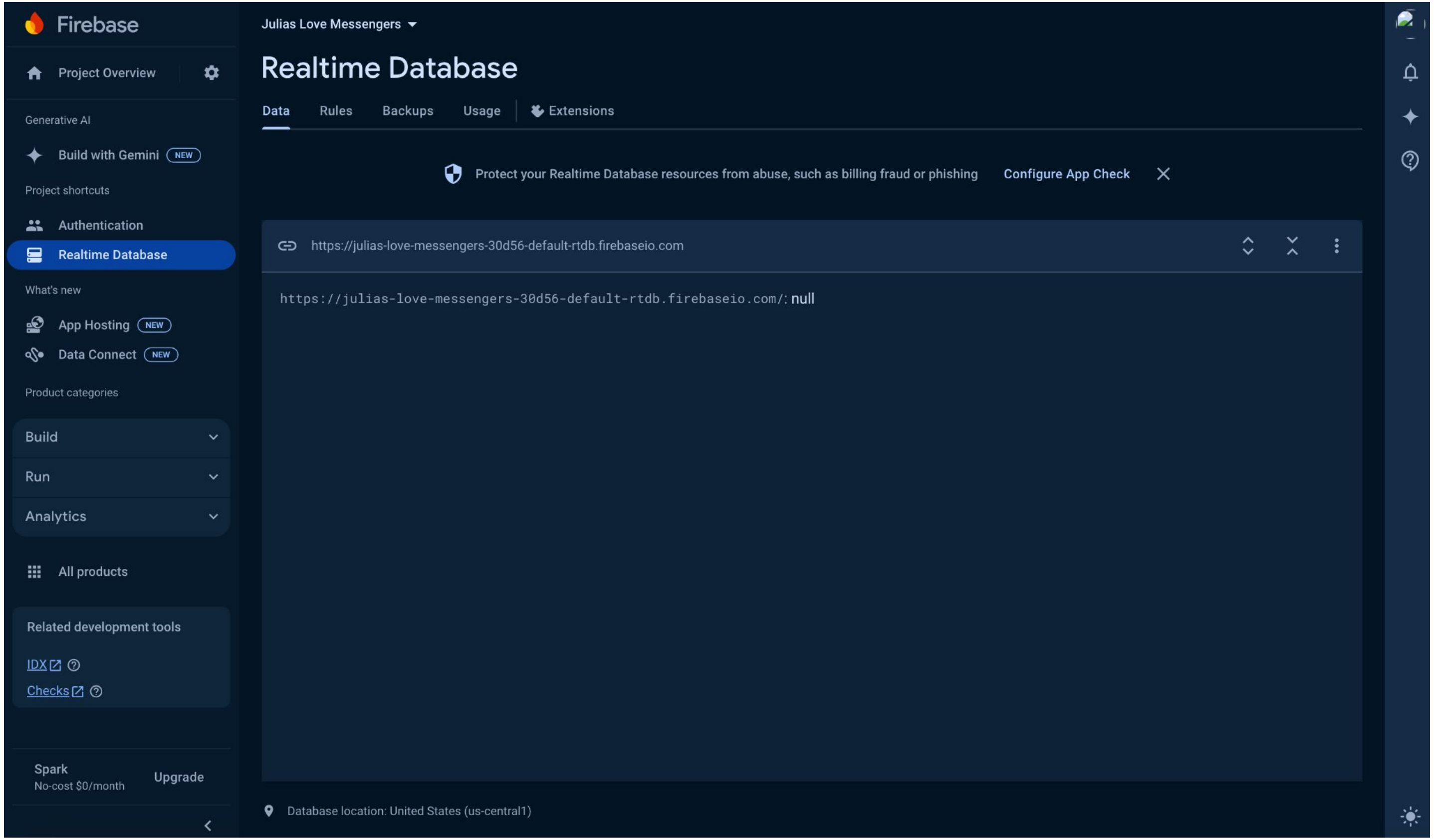
Your data is open by default to enable quick setup. However, you must update your security rules within 30 days to enable long-term client read/write access.

```
{
  "rules": {
    ".read": "now < 1723672800000",   // 2024-8-15
    ".write": "now < 1723672800000",  // 2024-8-15
  }
}
```

The default security rules for test mode allow anyone with your database reference to view, edit and delete all data in your database for the next 30 days

Cancel   Enable

Step 14: YEYY! This is our Real Time Database ❤️. It currently has no data stored, but as soon as we connect the Love Messengers, it will populate with information.



Realtime Database

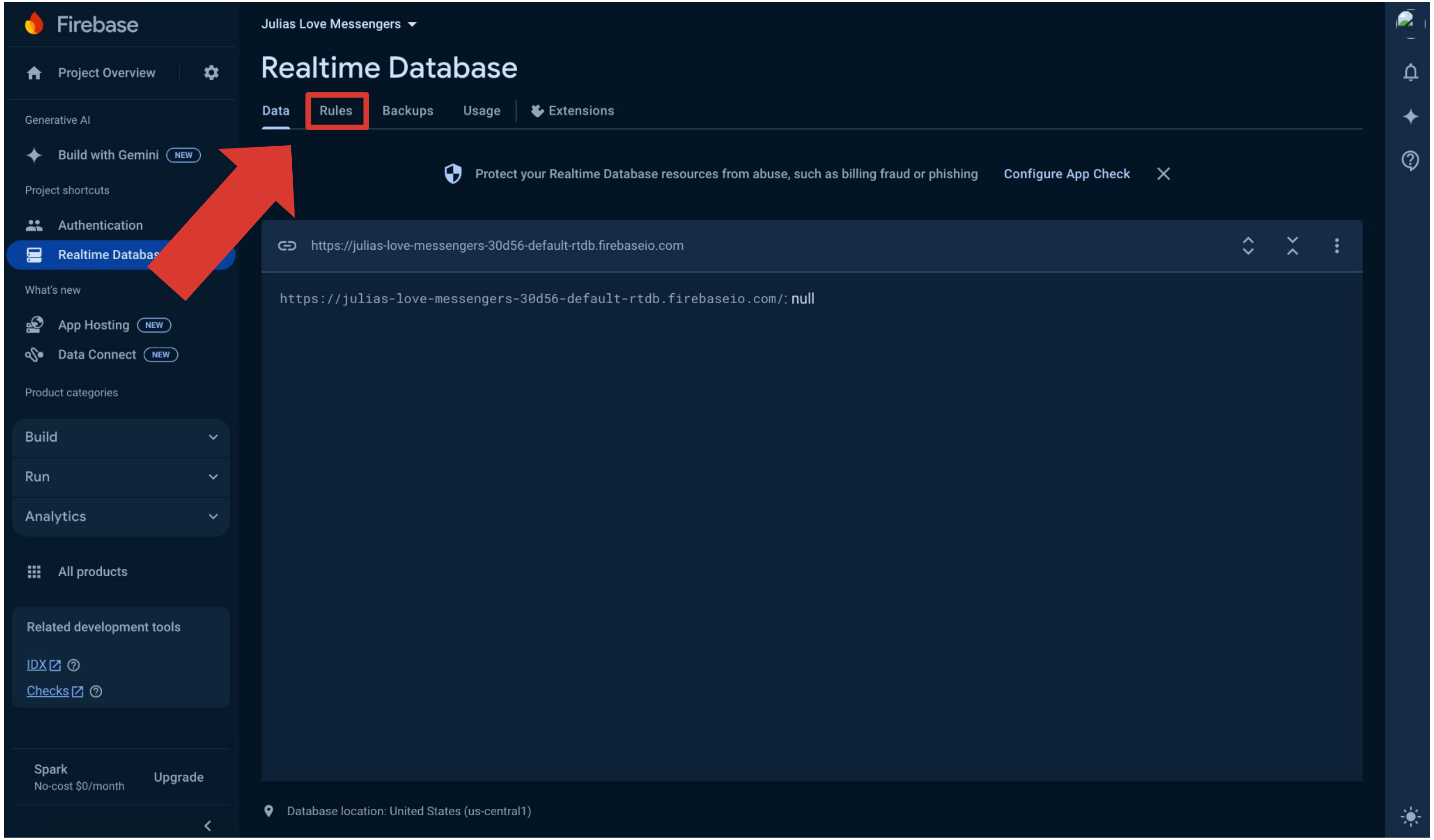
Protect your Realtime Database resources from abuse, such as billing fraud or phishing

https://julias-love-messengers-30d56-default-rtdb.firebaseio.com

```
https://julias-love-messengers-30d56-default-rtdb.firebaseio.com/: null
```

Database location: United States (us-central1)

Step 15: Select the **“Rules”** navigation point.



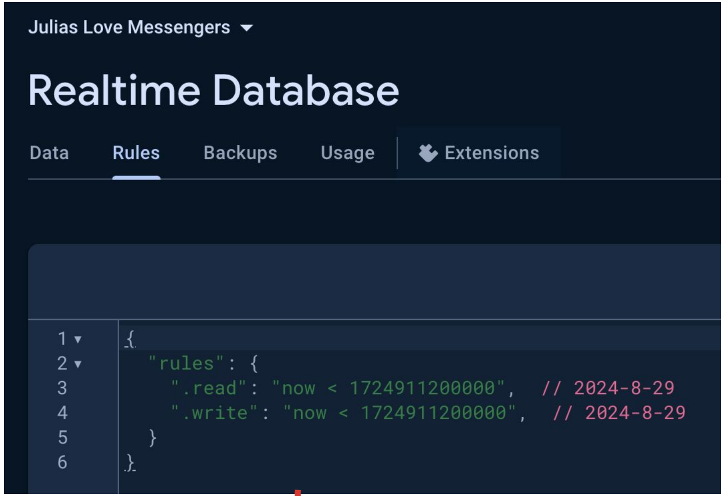
Protect your Realtime Database resources from abuse, such as billing fraud or phishing

https://julias-love-messengers-30d56-default-rtdb.firebaseio.com

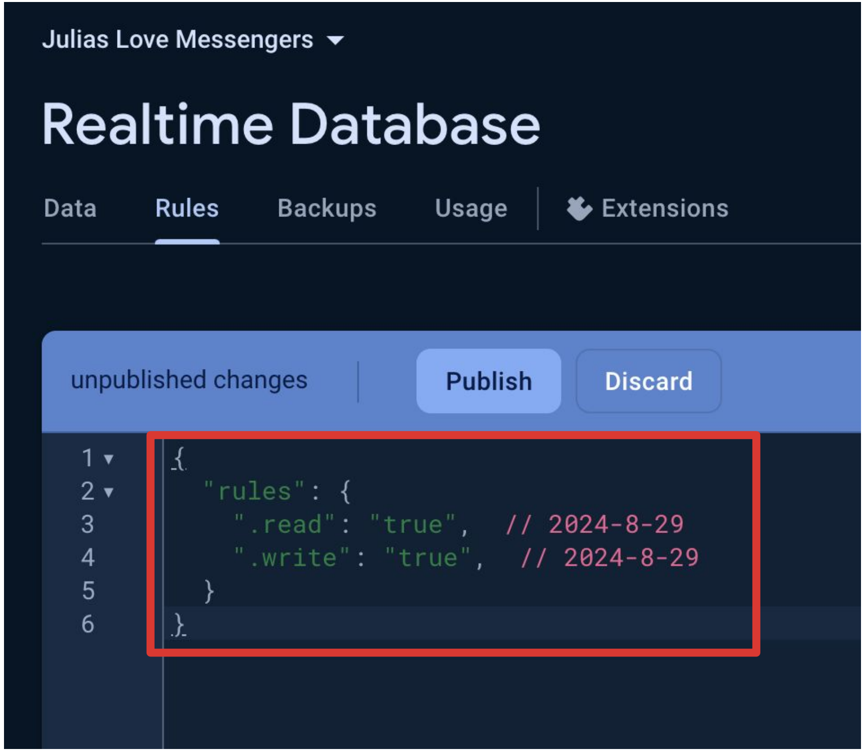
```
https://julias-love-messengers-30d56-default-rtdb.firebaseio.com/: null
```

Database location: United States (us-central1)

Step 16: Remove both “**now < 172491120000**” texts, and replace them with “**true**” like in the screenshots below.



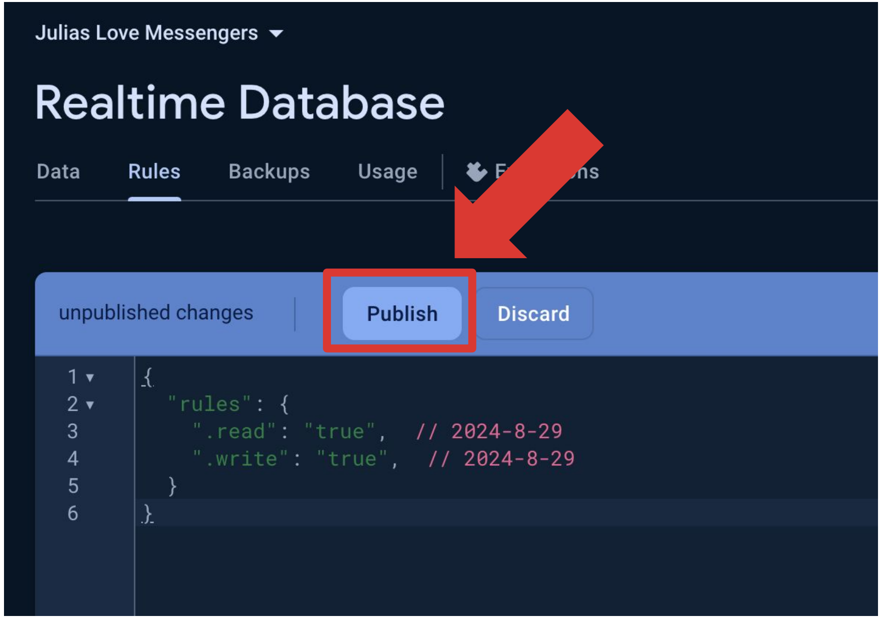
```
{
  "rules": {
    ".read": "now < 1724911200000",  // 2024-8-29
    ".write": "now < 1724911200000",  // 2024-8-29
  }
}
```



```
{
  "rules": {
    ".read": "true",  // 2024-8-29
    ".write": "true",  // 2024-8-29
  }
}
```

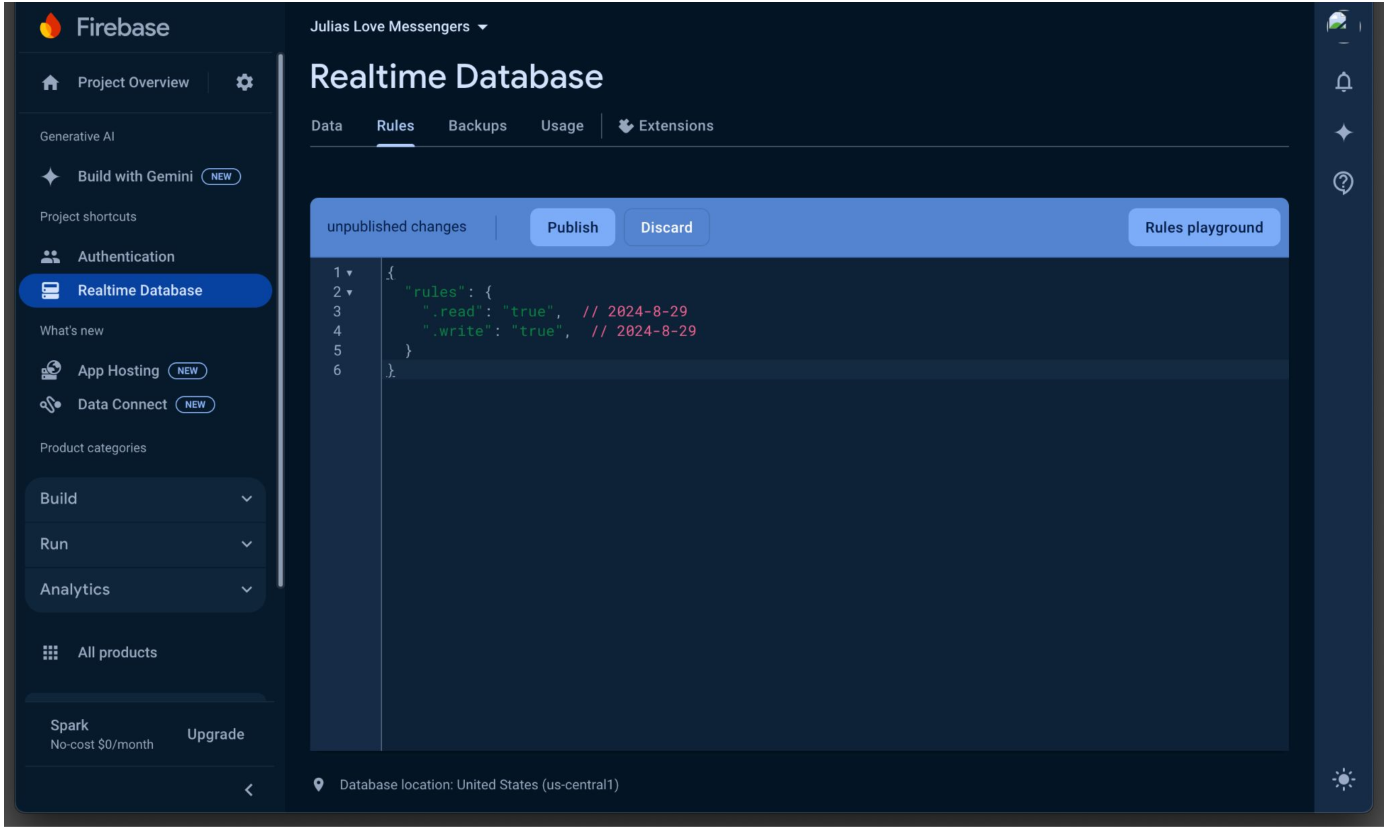
This is how your page should look in the end

Step 17: “Publish” the changes.



```
{
  "rules": {
    ".read": "true",  // 2024-8-29
    ".write": "true",  // 2024-8-29
  }
}
```

All done! Keep the Firebase window open for now, because we will need it later in the code. **We will regroup when everyone is done.**



unpublished changes

```
{
  "rules": {
    ".read": "true",  // 2024-8-29
    ".write": "true",  // 2024-8-29
  }
}
```

Database location: United States (us-central1)