

# Database

Cloud Firestore

Data Rules Indexes Usage

Unit test and debug your Rules by downloading and running the Emulator. Run `$ firebase emulators:start --only firestore` in your terminal. [Quick start](#)

Yesterday • 4:38 AM

Yesterday • 4:31 AM

Yesterday • 4:13 AM

Yesterday • 4:07 AM

Yesterday • 4:01 AM

Yesterday • 3:52 AM

Yesterday • 3:47 AM

Simulator

```

1 rules_version = '2';
2 service cloud.firestore {
3   match /databases/{database}/documents {
4     match /Users/{UserID} {
5       allow read;
6       allow write: if request.auth.uid == UserID;
7     }
8   }
9 }

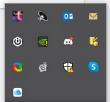
```

Rule Applies to ALL Databases (Name Used as Variable)

Users Collection

Document to Read (Name Used as Variable)

The UID from Firebase Auth of the user making the query request.



# Authentication

Users Sign-in method Templates Usage

## Sign-in providers

Provider	Status
Email/Password	Enabled
Phone	Disabled
Google	Disabled
Play Games	Disabled
Game Center <span>Beta</span>	Disabled
Facebook	Disabled
Twitter	Disabled
GitHub	Disabled
Yahoo	Disabled
Microsoft	Disabled
Anonymous	Disabled

Enable methods of Authentication

If a method is disabled  
firebase Auth JS will return  
error.

## Authorized domains

Authorized domain	Type
<a href="#">Add domain</a>	

# Authentication

Users

Sign-in method

Templates

Usage

Search by email address, phone number, or user UID

Add user

Identifier	Providers	Created	Signed In	User UID
rayce@lifesrough.com		Sep 25, 2019	Sep 26, 2019	8zf6ed308ffhxUIT1Cinb9XLONH3
example@email.com		Sep 25, 2019	Sep 26, 2019	hrdwXl1x5MYVTmg9RnAq85ufELD2
chssquad05@gmail.com		Sep 23, 2019	Sep 25, 2019	xW5L8asFXZWsew7PBX10ykzWV...
aaronshii@icloud.com		Sep 26, 2019	Sep 26, 2019	xWiBr6tN59VAw55sQl4nQ7lnQhx2

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In the future, Website can create users by calling JS function `firebase.auth().createUserWithEmailAndPassword(email, password)`

Users > 8zf6ed30SffhxU...

test-website-and-database

Users

8zf6ed30SffhxUiT1CINb9XLONH3

+ Start collection

+ Add document

+ Start collection

+ Add field

Users

8zf6ed30SffhxUiT1CINb9XLONH3

UserName: "Rayce"

Create Collection "Users" (Same as Rule)

Create Document Named with their UID

Add info to be grabbed.

Because users can write data to documents with their UID, they can, firebase JS can create Docs if they don't exist, and edit

```
rayce@RayceDesktop:~/firebase/public$ firebase serve
```

```
== Serving from '/home/rayce/firebase'...
```

```
functions: Using node@8 from host.
```

```
i hosting: Serving hosting files from: public
```

```
 hosting: Local server: http://localhost:5000
```

```
127.0.0.1 - - [26/Sep/2019:03:18:10 +0000] "GET / HTTP/1.1" 200 2208 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/76.0.3809.132 Safari/537.36"
```

```
127.0.0.1 - - [26/Sep/2019:03:18:10 +0000] "GET /__/firebase/init.js HTTP/1.1" 200 - "http://localhost:5000/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/76.0.3809.132 Safari/537.36"
```

```
127.0.0.1 - - [26/Sep/2019:03:18:10 +0000] "GET /favicon.ico HTTP/1.1" 200 2208 "http://localhost:5000/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/76.0.3809.132 Safari/537.36"
```

```
127.0.0.1 - - [26/Sep/2019:03:18:23 +0000] "GET / HTTP/1.1" 200 2199 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/76.0.3809.132 Safari/537.36"
```

```
127.0.0.1 - - [26/Sep/2019:03:18:23 +0000] "GET /__/firebase/init.js HTTP/1.1" 200 - "http://localhost:5000/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/76.0.3809.132 Safari/537.36"
```

```
127.0.0.1 - - [26/Sep/2019:03:18:23 +0000] "GET /favicon.ico HTTP/1.1" 200 2199 "http://localhost:5000/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/76.0.3809.132 Safari/537.36"
```

```
Error: TIMEOUT: Port 5001 was not active within 30000ms
```

```
rayce@RayceDesktop:~/firebase/public$ firebase serve
```

Hosts Copy of Web Code  
as if it was being hosted  
by Firebase, to allow  
for testing before publishing

When setting up Firebase CLI

it gives you a folder for the  
website root dir, and files

for: firestore (database) & storage (user file content)  
security rules.

is the directory path firebase  
uses for it's Web API's (You do not need a local copy for testing with the Firebase CLI)

rayce@RayceDesktop:~/firebase/public/pictures\$ firebase deploy

=== Deploying to 'test-website-and-database'...

i deploying database, storage, firestore, functions, hosting  
Running command: npm --prefix "\$RESOURCE\_DIR" run lint

> functions@ lint /home/rayce/firebase/functions  
> eslint .

```
functions: Finished running predeploy script.
i database: checking rules syntax...
database: rules syntax for database test-website-and-database is valid
i storage: checking storage.rules for compilation errors...
storage: rules file storage.rules compiled successfully
i firestore: checking firestore.rules for compilation errors...
firestore: reading indexes from firestore.indexes.json...
firestore: rules file firestore.rules compiled successfully
i functions: ensuring necessary APIs are enabled...
functions: all necessary APIs are enabled
i storage: uploading rules storage.rules...
firestore: uploading rules firestore.rules...
firestore: deployed indexes in firestore.indexes.json successfully
i functions: preparing functions directory for uploading...
i hosting[test-website-and-database]: beginning deploy...
i hosting[test-website-and-database]: found 11 files in public
i hosting[test-website-and-database]: file upload complete
i database: releasing rules...
database: rules for database test-website-and-database released successfully
storage: released rules storage.rules to firebase.storage/test-website-and-database.appspot.com
firestore: released rules firestore.rules to cloud.firestore
i hosting[test-website-and-database]: finalizing version...
i hosting[test-website-and-database]: version finalized
i hosting[test-website-and-database]: releasing new version...
i hosting[test-website-and-database]: release complete

Deploy complete!
```

Project Console: <https://console.firebase.google.com/project/test-website-and-database/overview>

Hosting URL: <https://test-website-and-database.firebaseio.com>

rayce@RayceDesktop:~/firebase/public/pictures\$

Uploads rules and web directory/files  
to Firebase, once complete, changes  
are live.

Will notify you  
if rules/settings  
are improper  
and cancel  
the push.

## Hosting

Dashboard

Usage

### test-website-and-database domains

Connect domain

Domain	Status
test-website-and-database.web.app Default	
test-website-and-database.firebaseio.com Default	

### test-website-and-database release history

Status	Time	Deploy	Files
★ Current	Sep 26, 2019 4:39 AM	chssquad05@gmail.com f1986e	13
⬆ Deployed	Sep 26, 2019 4:32 AM	chssquad05@gmail.com 9fe43a	13
⬆ Deployed	Sep 26, 2019 4:14 AM	chssquad05@gmail.com 421ddc	13
⬆ Deployed	Sep 26, 2019 4:08 AM	chssquad05@gmail.com e1e113	13
⬆ Deployed	Sep 26, 2019 4:02 AM	chssquad05@gmail.com a119c5	13

Here you can  
add other  
domains →

&

View  
Deployment  
History. →