

PowerSync DevRel Technical Guide

In the age of real-time applications, seamless data synchronization across different environments is crucial. This guide provides a comprehensive walkthrough for integrating PowerSync (a product of JourneyApps) with MongoDB Atlas to manage real-time synchronization efficiently. This process ensures that your application remains up-to-date with the latest data dynamically, regardless of what backend you are using and where it is hosted—be it a self-hosted custom backend or using JourneyApps Platform serverless cloud functions (a sibling product of PowerSync). In the event of a connection loss, once the connection is restored, all data will automatically sync to ensure consistency and keep everything updated.

PowerSync & MongoDB Atlas

PowerSync, combined with MongoDB Atlas, provides a robust solution for syncing data in real-time. Unlike Atlas Device Sync, PowerSync provides the developer the option of sending local mutations to their own backend where validations can be applied before writing the changes into MongoDB Atlas. This guide outlines two configuration paths for this backend:

1. Cloud Hosting Backend Service Using JourneyApps Platform

2. Self-Hosting of a Custom Backend Service

For both scenarios, this guide will take you through the required configurations, utilizing a demo to-do list application provided by PowerSync. We conclude with insights into the diagnostics tool offered by PowerSync.

Data Model Overview

The demo to-do list application utilizes a straightforward data model with two collections: "lists" and "todos.

Collections

- Lists Collection
 - Document ID
 - Creation Time of the List
 - Name of the List
 - Owner ID (who created the list)

_id: "36cc0e12-d869-456b-9dd3-805f5ae7c576"
created_at: 2024-12-17T09:59:27.000+00:00
name: "fruits basket"
owner_id: "73f3672d-f57a-4838-adbc-3f7e80cabbb5"

- Todos Collection
 - Document ID
 - Task Completion Status
 - Time the Task was Created
 - Owner ID (who created the task)
 - Task Name
 - List ID (identifies which list it belongs to)

```
_id: "9427ealc-6f04-407f-a310-0bbf805919a1"
completed: false
created_at: 2024-12-19T09:02:06.000+00:00
created_by: "05f76e09-1f15-4dd9-83a8-166bb09278a7"
description: "task1"
list_id: "36cc0e12-d869-456b-9dd3-805f5ae7c576"
```

This model offers a clear structure to manage tasks and lists, making it easy to track and organize your to-dos.



Architecture Overview

JourneyApps Platform Hosted Backend Architecture

PowerSync Integration with MongoDB Atlas with serverless cloud functions



MongoDB Atlas: A fully managed cloud database service that stores and handles your application's core data.

PowerSync Service: A dedicated synchronization layer that manages real-time data updates and replication, which can be configured and monitored through the PowerSync Dashboard. **Backend App:** Hosted on JourneyApps Platform using its serverless cloud functions, providing API functionalities. It handles both uploading client writes and generating JWTs for the client application.

Front End App: A client-side application that provides the user interface and handles Create, Read, Update, and Delete (CRUD) operations locally.



Architecture Overview

Self-Hosted Custom Backend Architecture

PowerSync Integration with MongoDB Atlas with local backend



Similar architecture, however with a custom backend service self-hosted instead of using JourneyApps Platform.

For the purposes of this guide, we will demonstrate running the backend service locally. This is what would be used during development and testing, whereas for production use, the backend service would be deployed in a suitable production environment. **NGROK:** Connects the PowerSync Service to the locally hosted backend.



Initial Configuration Steps

- 1. Database and Cluster:
 - a. Create or select a cluster.
 - b. Configure a database (note: the
 - name must be lowercase)
- 2. Collections:
 - a. Create the collections your application needs (e.g., "lists" and "todos" for the demo).
- 3. User Access:
 - a. Create a user with a custom role to ensure it can only access the necessary database.
 - b. The custom role should have the following permissions: find, insert, remove, update, createCollection, changeStream, collMod, dbStats, listCollections
- 4. Network Access:
 - a. Depending on the region where your cluster is deployed, you'll need to add the corresponding PowerSync Cloud IP addresses. You can do this in the Network Access section under the IP Access List. <u>Here</u> is a detailed list of IP addresses categorized by region for your reference.
- 5. Connection String:
 - a. Obtain and save the connection string from the MongoDB Atlas cluster "Connect" option.

Tip: The operations for find, insert, remove, and update are categorized under Collection Actions, specifically within Query and Write Actions.

Collection Actions •
😑 Query and Write Actions 🔻
🗹 find
insert
remove
🗹 update
bypassDocumentValidation

The createCollectionoption can be found under Collection Actions/ Database Management Actions

Collection Actions -	
🛃 Query and Write Actions 🕨	
😑 Database Management Actions 🕶	
createCollection	
CreateIndex	
dropCollection	

The changeStream option falls under Collection Actions/Change Stream Actions.

Change Stream Actions •
 changeStream

The collMod option is part of Collection Actions/Server Administration Actions.

Server Administration Actions
 collMod

Additionally, the dbStats and listCollections options are classified under Database Actions and Roles/Actions/Diagnostic Actions.

Database Actions and Roles	
Actions •	
Database Management Actions •	
Server Administration Actions •	
🗹 Diagnostic Actions 🕶	
🗹 dbStats	
listCollections	



- 1. PowerSync Project Setup:
 - a. Login and create a new PowerSync project in the JourneyApps Admin Portal.
 - b. Select the PowerSync Project option:



c. Name the project, click "Next," and then choose JourneyApps as the Git provider:

Create new project	Create new project
create new project	Project details > Version Control
Project details > Version Control	How would you like to manage changes to PowerSync Service ?
Project name	Basic (Revisions) A simple workflow with basic restore points Advanced (Git)
PowerSync Service	A git-based workflow with commits, branching and merging Which Git provider would you like to use for PowerSync Service?
	JourneyApps ~
Cancel Next	Cancel Back Next



d. Proceed with the setup by configuring a new Instance:

Welcom	ne to PowerSync
1. Create instance 2. Connections 3. Sync	
The first thing we need to do is create your PowerSync Instance . This instance is a running copy of the PowerSync Service, which is a core component of the PowerSync system, responsible for streaming changes from your backend database to clients. Since a project can have multiple instances, give the instance a label such as <i>Testing</i> or <i>Production</i> .	Instance label Testing Region US Version Stable
Select the region in which your instance should be hosted. For best performance, choose the region that's closest to your application's users.	
of the Service, which may contain early access or experimental features. Use the Stable version for production.	Next >

e. In the following step, choose the MongoDB option to connect to the database that was configured earlier:

ক্য	Welcome to PowerSync Let's get started!	
1. Create instance	2. Connections 3. Sync rules	
	Select the database technology of your backend database to start setting up a connection to your instance: PostgreSQL MongoDB.	



f. Complete the required fields by entering the database name, username, password, and the connection string you obtained earlier:

Welcon Let's get started!	ne to PowerSy	ync		
1. Create instance 2. Connections 3. Syne				
Next, provide your MongoDB database	Name	URI		
connection details and test your connection	Default			
3etting3.	Database name			
The Name field allows you to identify this connection when there are multiple connections configured on an instance (coming soon).	Required Username			
	Password			
	Post Images			
	Automatic (Recommended) 🌲			
		Cancel connection	Test connection	

g. In the Post Images setting, users can choose from three options:

- i. Automatic (Recommended): Automatically configures the changeStreamPreAndPostImages option on collections as needed.
- ii. Read-only: Utilizes fullDocument: 'required' and mandates that changeStreamPreAndPostImages: { enabled: true } be set for each collection referenced in sync rules. Replication will fail if this configuration is missing, making it ideal when permissions are limited.
- iii. Off (not recommended): Uses fullDocument: 'updateLookup' for backward compatibility.

For more detailed information about the Post Images options, please refer to the PowerSync documentation <u>here</u>.



- h. Before proceeding, test the connection
- i. If the connection is established successfully, proceed by clicking the Next button.

Tip: Should you need to modify the database connection in the future, you can do so by editing the Instance.

j. The changes will then be deployed to the instance:



Changes are being deployed to your instance 'Testing'.

This can take a minute or two.

While you wait, check out some of the workspaces above.

Pro tips:

- The dashboard is built to be super interactive. You can right-click on almost anything.
- There is a command palette you can access by double-pressing the Shift key!
- Running into issues? Join our community Discord where we are ready to assist.



- 1. Sync Rules Configuration:
 - a. Set up the sync rules to determine how the data will be synchronized and identify the clusters that need to be updated:



i. For the demo backend application, the "todos" and "lists" collections are the ones that need to be updated:

Unset					
bucket.	_definitions:				
globa	1:				
data	a:				
#	Sync all rows				
#	Sync all lists				
-	SELECT _id as id,	*	FROM	"lists"	
#	Sync all todos				
-	SELECT _id as id,	*	FROM	"todos"	



b. After configuring the sync rules, they must be deployed to take effect:

Welcome t	o PowerSync
1. Create instance 2. Connections 3. Sync rules PowerSync Sync Rules allow you to control which data gets synchronized to which devices (i.e. they enable	1 # Define sync rules to control which data is synced to each user # Semithe docs, https://docs.nowersupr.com/usage/sync.rules
dynamic partial replication). You can get a brief overview of Sync Rules in this blog post and learn more in our docs.	<pre>3 bucket_definitions: 4 global: 5 data: 6 # Sync all rows</pre>
Sync Rules are written in a SQL-like syntax. We recommend starting with a simple global query, e.g. SELECT * FROM lists, where lists is the first table you'll query in your app.	<pre>7 - SELECT _id as id, * FROM "lists" 8 # Sync all todos 9 - SELECT _id as id, * FROM "todos" 10</pre>
You can always revisit these at a later stage – in fact, it is common that you update your Sync Rules as you extend your app!	
You can validate your Sync Rules against your backend database schema before deploying them to your instance to avoid deploy errors.	
	Validate sync rules 🐣 Save and deploy 🦪

c. Modifying the sync rules will initiate a redeployment of the instance d. If the rules are deployed successfully, the following screen will appear:

3	PowerSync Service Overview	Manage instances Usage metrics Instance logs +	
•	PowerSync Overview		
			Welcome to PowerSync Below is an overview of your instances:
			Testing
			Engine Mongo08 Channel nest Last deploy Dec 18, 2024, 3:13 PM

e. By clicking the icon in the top right corner of the screen above to return to the Projects view, you will be able to see the newly created instance:

Projects	Projects			
Developers				
Integrations				an a an
Settings	Project name		Туре	Features
Billing	PowerSync Backend Connector		Standard	JourneyApps Platform
Subscriptions	PowerSync Service		Standard	PowerSync



f. To view more details, click on the project and select "Manage Instances" from the top navigation menu:



g. In the left-hand menu can be found the instance called "Testing" together with the sync-rules.yaml file which allows to define the rules for data synchronization on the instance. The above document represents a basic configuration of the sync rules, while PowerSync supports more advanced ones.

For instructions on more complex configurations, please consult the <u>PowerSync</u> <u>documentation</u>.

h. In the subsequent setup steps, you will need the PowerSync Service URL and ID, which can be located in the <u>PowerSync Dashboard</u>:

а <u>х</u>	Instance Status PowerSync docs	
Deploy sync rules 🥥 Validate 🐴		neyapps.com
	Completed Completed	Operation type Depl



JourneyApps Platform Cloud Deployment

- 1. New JourneyApps Platform Project:
 - a. Go to <u>JourneyApps Admin Portal</u> and set up a new JourneyApps Platform Project.

Create ne	w project
JourneyApps Platform Project	PowerSync Project
	Cancel Next

b. Choose a name for the Backend App and select the deployment region.

Create new project								
Project details > Versi	ion Control ゝ Template							
Project name	Region							
Backend App	United States V							
	Cancel							



c. Next, you can configure the version control system that best suits your requirements. For demonstration purposes, I have chosen the basic option, as shown below:

Create new project									
Project details > Versior	n Control	>	Template						
How would you like to manage	changes to	Bac	kend App?						
Basic (Revisions) A simple workflow with basic restore points									
O Advanced (Git) A git-based workflow with commits, b	ranching and r	nergir	ng						
Which Git provider would you li	ke to use fo	or Ba	ackend App?						
JourneyApps			~						
	Cancel	Ba	ck Next						

 d. Finally, choose the "Template" option. Within this section, set the "Language" to TypeScript and select the template titled "MongoDB CRUD & Auth Backend":

Create new project
Project details > Version Control > Template
Base your project on a template, clone an existing project or start with a blank canvas. O Blank
⊙ Template
TypeScript ~
Template
MongoDB CRUD & Auth Backend 🗸 🗸
○ Clone existing app
Cancel Back Create App



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e. After completing the setup, you'll be redirected to the Project Overview page. Under the "Cloud Code" section in the left-hand menu, you can find the app's implementation:



d. Below is a breakdown of each of the components:

- i. generate_keys: This is a task that can be used to generate a private/public key pair which the jwks and token tasks require. This task does not expose an HTTP endpoint and should only be used for development and getting started.
- ii. token: This task exposes an HTTP endpoint which has a GET function. This task is used by the Frontend App to generate a token to validate against the PowerSync Service. For more information about custom authentication setups for PowerSync, please see <u>this</u> <u>page</u> from the PowerSync docs.
- iii. j_{Wks} : This exposes an HTTP endpoint which has a GET function which returns the public JWKS details.
- iv. upload: This task exposes an HTTP endpoint which has a POST function which is used to process the write events from the Frontend App and writes it back to the source MongoDB database.



2. Generate Key Pair

Before using the serverless functions you need to generate a public/private key pair. Follow the below steps to generate the key pair:

a. Initially, click on the Deploy to Testing button. For the time being, there's no requirement to set up any environment variables for the deployment.

 Other README.md config.json package.json 	Layout: Top down	ips Push Notification Message Text Received At DateTime Created At DateTime + @	
Status Idle Viewing Draft ()	Active branch master Tes	ting deployment Testing	Save changes Deploy to testing

b. Once the Deploy has succeeded, open the generate_keys CloudCode task.c. Click on the Test CloudCode Task button at the top right.



d. This will print the public and private key in the task logs window.



e. Copy and paste the POWERSYNC_PUBLIC_KEY and POWERSYNC_PRIVATE_KEY to a file — we'll need this in the next step.



- 3. Set Environment Variables and Deploy:
 - a. At this stage, the application has been created but not yet deployed to the cloud. In order to deploy the app, the environment variables need to be configured, which can be done by clicking on the "Deployments" tab in the top navigation menu and selecting "Deployment settings":

22	Backend S MDmasha	ervice					Assets	Deployments	Containers			Q			۵	
8	Deployme	nts														
Q,																
Tes	ting							Deployment se	ettings 🔅	Open d	eployment in data b	rowser 🛢	Dep	oloy ap	P ≚	
R			yes 🗎 🛛 Env	ironment testing 🗎	i yes 🗎 🛛 Previo		62e82d3888bt	b62a0362b57 📋								
•	Deploy logs															

b. In the "General" tab enter a Domain Name (e.g: "newcloudbackend").

Deployment settings Testing										
General	Environment Va	riables	CloudCode Schedules	Cloud	ode Queues					
Name Testing										
Domain newcloudbackend		.powere	dbyjourney.com							
				Car	icel Save					

Important: The domain configured here will be used later in the PowerSync Service to set up client authentication.



- c. On the "Environment Variables" tab, you should configure the following variables to ensure all necessary parameters are in place:
 - i. POWERSYNC_PRIVATE_KEY and POWERSYNC_PUBLIC_KEY: These were produced in the prior step utilizing the key generator built into the JourneyApps Platform.
 - ii. POWERSYNC_URL: This is the PowerSync Service URL, identical to the one configured in the Front End App.
 - iii. MONGO_URI: This is the MongoDB connection string, it needs to contain the username, password and the database name in the following format:

mongodb+srv://<username>:<password>@<deployment>.mongodb.
net/<database_name>

d. After entering all the necessary information, save the changes. At the bottom of the page, you will find the "Deploy to testing" button. Click it to get the Backend App up and running.



- 3. Link with PowerSync
 - a. To link the backend app with PowerSync, you'll need the domain from the "Deployments" page

				1.						
Pack	ages	Assets	Deployments	Conta	ainers	+	Data bro			Q
			Deployment s	ettings	\$	Open de	ployment i	n data b	orowser	
yes 🗎	Domain	mydomain	.poweredbyjourney.co	m 🗎	ID 6762	e82d3888	bb62a0362b5	7 🗎		

- b. To set up the PowerSync, click the icon in the top left corner to return to the Projects, then choose the PowerSync project.
- c. On the PowerSync page, click the three dots next to the Instance name and select "Edit Instance":

থ্য	PowerSync Service V Ove	rview	Manage instances	Usage metrics II
4	PowerSync Project		SQL Query	🖹 sync-rules.yaml
	Create new ins	tance +	1 # Define 2 # See the	sync rules to con± docs: https://dc
Q	Search	=	3 bucket_de	finitions:
	 PowerSync Project Instances Testing Connections default MongoDB 	d	4 global: 5 data: 6 # S 7 - S Testing	Sync all rows SELECT id as id. *
	ecommerce.lists		General Actions	
		s	🕑 Edit instance	
	Issue Alerts		Destroy instance	
	Metric Alerts			

d. In the Edit Instance window, navigate to the "Client Auth" tab and enable the "Enable development tokens" option. Paste the previously saved Backend App domain URL into the JWKS URI field.



Important: Append "/jwks" to the end of the URL, as shown in the example below:

Edit Instance: Testing			
General DB Connections Client Auth			
Use Supabase Auth PowerSync will use the same JWT secret as Supabase.			
Supabase JWT Secret Used to verify Supabase JWTs. Get it from your project's API settings in the Supabase Dashboard.			
Enable development tokens Allow PowerSync to generate temporary development tokens.			
JWKS URI (optional) Keys returned by this URI will be trusted for JWT authentication.			
https://mydomain.poweredbyjourney.cor Vjwks			
JW I Audience (optional) Additional values accepted for the "aud" field of JWTs.			
HS256 authentication tokens (ADVANCED) Additional HS256 tokens used to authenticate JWTs.			
+			
	Cancel	Save and deploy	a

c. After completing the setup, click "Save and deploy." The deployment information is available on the right side of the window:





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1. Clone the <u>Backend Demo</u>:

This will clone a Node.js custom backend demo/example provided by PowerSync:

```
Unset
git clone
https://github.com/powersync-ja/powersync-nodejs-backend-todolist
-demo.git
```

- 2. Environment Configuration:
 - a. Copy the .env.template file in the root directory and rename the copied file to .env.

Unset

```
cp .env.template .env
```

- b. Fill out the .env file with the necessary database and synchronization parameters.
 - i. powersync_private_key and powersync_public_key: These fields
 can be left empty as they will be autogenerated
 - ii. POWERSYNC_URL: This information is available in the <u>PowerSync</u> <u>Dashboard</u>



- iii. PORT: The backend application will be deployed on this port
- iv. JWT_ISSUER: This will be used later when setting up client authentication in the Instance on the PowerSync Dashboard
- v. DATABASE_TYPE: Specifies the database the application will sync with, which in this case is MongoDB
- vi. DATABASE_URI: The connection string including the username and password



Important: Ensure the database URI includes the database name configured earlier in the MongoDB connection on the PowerSync Dashboard. If not specified, it will default to looking for a database named "test."

```
Unset

POWERSYNC_PRIVATE_KEY=

POWERSYNC_PUBLIC_KEY=

POWERSYNC_URL=<PowerSync URL>

PORT=6060

JWT_ISSUER=powersync

# Either 'mongodb', 'mysql' or 'postgres'. This defaults to

Postgres

DATABASE_TYPE=mongodb

DATABASE_URI=mongodb+srv://<username>:<password>@<clusterName>.mo

ngodb.net/<databaseName>?retryWrites=true&w=majority&appName=<Mon

goDB Cluster Name>
```

Tip: Replace username and password with your MongoDB Atlas username and password, clusterName with the name of your MongoDB Atlas cluster, and databaseName with the name of your database.

- 3. Run Backend App Locally
 - a. Install and start via npm:

Unset npm install npm start



- 4. NGROK Configuration:
 - a. Use NGROK to expose your local server.
 - b. Download and install <u>ngrok</u>. If you don't have an account, you'll need to create a new one.
 - c. Run the command below to add your authtoken to the default ngrok.yml configuration file.

Unset					
ngrok	config	add-authtoken	<auth< td=""><td>token></td><td></td></auth<>	token>	

5. NGROK Execution:

a. Executing the command below will bring the previously configured backend app online at a temporary domain. For instance, if the provided example is used, it will be accessible at <u>http://localhost:6060</u>:

Unset

ngrok http 6060

b. The Terminal will display the following message:





- 6. Link with PowerSync:
 - a. Open the <u>PowerSync Dashboard</u>, edit the Instance, and paste the Forwarding URL that begins with HTTPS into the Client Auth tab.

Important: Ensure you append the authentication endpoint /api/auth/keys to the end of the URL.

PowerSync Service MDmasha	Manage	instances	Usage metrics I		
SowerSync Project		. SQL	Query	🗎 syr	nc-rules.yaml
Crea	te new instance +	1	# Define	sync i	rules to con±
Q Search	Ξ		# See the bucket de	e docs. efiniti	: https://dd ions:
			global		
PowerSync Project			data		
		6 7	# 4	Sync al	id or id *
Testing	°			DELECT	10 as 10
▼ Connections		lesting			
	ngoDB	General Acti	ons		
	erce.lists	🕑 Editin	stance		
	erce.todos				
Metric Alerts		Destro	y instance		
General DB Connections Client Authors Use Supabase Auth PowerSync will use the same JWT secret as Supabase. Supabase JWT Secret Used to verify Supabase JWTs. Get it from your project Used to verify Supabase JWTs. Get it from your project Image: Control of the same structure Image: Control of t	h 's API settings in the Supabase D tokens. ntication. prok-free.app/api/auth/keys				
				Cancel	Save and deploy

b. After entering the value, be sure to click Save and deploy.



Frontend App Setup (Demo To-Do Application)

1. Clone the <u>demo code</u>:

Unset

git clone https://github.com/powersync-ja/self-host-demo.git

- 2. Environment Variables:
 - a. Navigate to the self-host-demo folder, then proceed to demos -> nodejs -> demo-app, and copy the .env.template using the following command:

Unset

cp .env.template .env.local

- b. In the .env.local file, configure the following variables:
 - i. VITE_BACKEND_URL: Set this to the URL of the Backend App. Ensure it matches the JWKS URI, excluding the /jwks segment.
 - ii. VITE_POWERSYNC_URL: This information is available in the <u>PowerSync</u> <u>Dashboard</u>
 - iii. VITE_CHECKPOINT_MODE: This can remain as the default value, "managed."
- 3. Modify Connector Configuration for JourneyApps Platform:
 - a. If you are using the cloud deployment of the backend app with JourneyApps Platform, you need to update the specific endpoints in the DemoConnector.ts file.
 - b. In the self-host-demo/demos/nodejs/demo-app/src/library/powersync /DemoConnector.ts file, update the tokenEndpoint variable to the one shown below (changing from api/auth/token to token):

Unset	
<pre>async fetchCredentials()</pre>	{
const tokenEndpoint =	'token';

c. Additionally, within the same file, modify the uploadData function to the one below (switching from /api/data to /upload):

```
Unset
const response = await fetch(`${this.config.backendUrl}/upload`
....
```



Frontend App Setup (Demo To-Do Application)

- 4. Run Frontend App
 - a. Install and start the local server:

Unset pnpm install pnpm start

b. You can access the to-do list UI (typically at the following URL: http://localhost:4173/)



Diagnostics Tool Overview

The <u>diagnostics tool</u> helps verify and visualize data synchronization processes. It can be accessed and utilized by generating a development token from the PowerSync Dashboard. To create a development token, follow these steps:

1. Navigate to the PowerSync Dashboard, click the three dots next to your instance, and choose "Generate Development Token":





Diagnostics Tool Overview

2. If your sync rules involve any user-specific criteria, you can specify the user ID at this stage. You can find the user ID in the database, as shown in the example below:



- 3. Copy the generated token, keeping in mind that it will expire in 12 hours and will need to be refreshed.
- 4. Open the <u>Diagnostics app</u> and input both the generated token and the PowerSync Service URL to establish a connection with the app





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Diagnostics Tool Overview

Within the app, you'll be able to view the available tables and any configured buckets according to the sync rules. An example is provided below:

	s	Sync Diagnostics						¢↓∻
(CD)	PowerSync							
		Number of buckets	Total Rows	Total Operations	Total Data Size	Total Metadata Size	Total Downloaded Size	Last Synced At
=	Sync Overview		5	7	827 Bytes	806 Bytes	2.29 KiB	5:53:43 PM
III	Dynamic Schema	CLEAR & REDOWNLO	AD					
2	SQL Console	Tables						
٢	Client Parameters	Name			Row	v Count		Data Size
€	Sign Out	lists			4			605 Bytes
		todos			1			222 Bytes
							Rows per page: 10 👻 1-	-2 of 2 < >
		Buckets						
		Name	Table	(s) Row	Count 🔸 Total Oper.	Data Size	Metadata Size Downloaded Siz	e Status
		global()	lists, t	todos	5	7 827 Bytes	806 Bytes 2.29 Kit	B Ready

Real-time Data Made Easy

With the walkthrough provided, you are now equipped to set up a dynamic and reactive application that integrates PowerSync with MongoDB Atlas for real-time data synchronization. This setup enhances the flexibility and scalability of modern applications, ensuring data remains current and consistent across all fronts.

Continue Exploring:

- PowerSync Documentation
- MongoDB Atlas for Real-time Apps

By leveraging these technologies, your application can achieve a new level of dynamism and responsiveness, providing you a competitive edge in your field.

