

# CONNECTING TO ATLAS

In this GraphQL tutorial I'll show you  
how we can connect our app to Atlas.



# Connect our app to Atlas

Go to <https://www.mongodb.com/>

- Sign In (with google account)

Create new project "GraphQL"

Create Database "gql"

# Build a Database

**demo** Access Manager Billing All Clusters Get Help Marizza

**GraphQL** Atlas Realm Charts

**DEPLOYMENT**

- Databases**
- Triggers
- Data Lake


**SECURITY**

- Database Access
- Network Access
- Advanced

DEMO > GRAPHQL

## Database Deployments

Find a database deployment...



### Create a database

Choose your cloud provider, region, and specs.

**Build a Database**

Once your database is up and running, live migrate an existing MongoDB database into Atlas with our [Live Migration Service](#).

# Build a Database

## Deploy a cloud database

Experience the best of MongoDB on AWS, Azure, and Google Cloud. Choose a deployment option to get started.

PREVIEW

### Serverless

For serverless applications that aren't critical with variable traffic. Minimal configuration required.

- ✓ Pay only for the operations you run
- ✓ Resources scale seamlessly to meet your workload
- ✓ Always-on security and backups

Create

Starting at  
**\$0.30/1M reads**

### Dedicated

For production applications with sophisticated workload requirements. Advanced configuration controls.

- ✓ Network isolation and fine-grained access controls
- ✓ On-demand performance advice
- ✓ Multi-region and multi-cloud options available

Create

Starting at  
**\$0.08/hr\***  
\*estimated cost \$56.94/month

FREE

### Shared

For learning and exploring MongoDB in a cloud environment. Basic configuration options.

- ✓ No credit card required to start
- ✓ Explore with sample datasets
- ✓ Upgrade to dedicated clusters for full functionality

Create

Starting at  
**FREE**



# Build a Database

DEPLOYMENT

Databases

Triggers

Data Lake

SECURITY

Database Access

Network Access

Advanced

DEMO > GRAPHQL > DATABASES

Cluster0

VERSION  
4.4.9


REGION  
AWS N. Virginia (us-east-1)

OverviewReal TimeMetricsCollectionsSearchProfilerPerformance Advisor

DATABASES: 0 COLLECTIONS: 0

VISUALIZE YOUR DATA

REFRESH




## Explore Your Data

- **Find:** run queries and interact with documents
- **Indexes:** build and manage indexes
- **Aggregation:** test aggregation pipelines
- **Search:** build search indexes

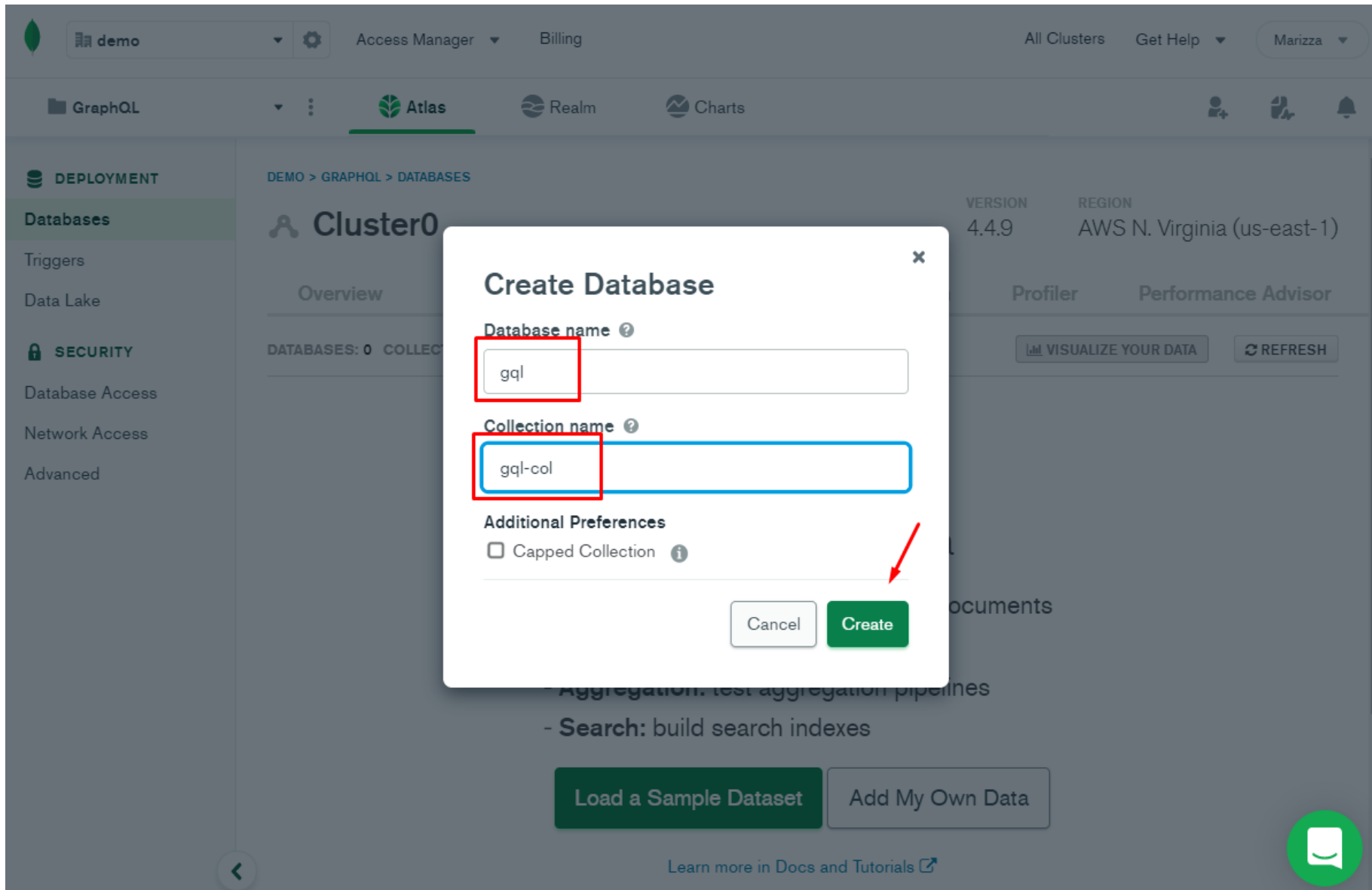
Load a Sample Dataset

Add My Own Data


Learn more in Docs and Tutorials



# Build a Database



# Build a Database



demo

Access Manager

Billing

All ClustersGet HelpMarizza

GraphQLAtlasRealmCharts

DEPLOYMENT

Databases

Triggers

Data Lake

SECURITY

Database Access

Network Access

Advanced

DEMO > GRAPHQL

Database Deployments

Find a database deployment...

+ Create

Cluster0

Connect

View Monitoring

Browse Collections

...

R 0

W 0

Last 2 minutes

100.0/s

Connections 0

Last 2 minutes

100.0

In 0.0 B/s

Out 0.0 B/s

Last 2 minutes

100.0 B/s

Data Size 0.0 B

Last 2 minutes

512.0 MB

VERSION	REGION	CLUSTER TIER	TYPE	BACKUPS	LINKED REALM APP
4.4.9	AWS / N. Virginia (us-east-1)	M0 Sandbox (General)	Replica Set - 3 nodes	Inactive	None Linked

# Build a Database

**demo**

GraphQL

DEPLOYMENT

Databases

Triggers

Data Lake

SECURITY

Database Access

Network Access

Advanced

Marizza

+ Create

0.0 B

LINKED REALM APP

None Linked

Connect to Cluster0

Setup connection security > Choose a connection method > Connect

You need to secure your MongoDB Atlas cluster before you can use it. Set which users and IP addresses can access your cluster now. [Read more](#)

**You can't connect yet.** Set up your firewall access and user security permission below.

**1 Add a connection IP address**

Add Your Current IP Address Add a Different IP Address Allow Access from Anywhere

**2 Create a Database User**

This first user will have [atlasAdmin](#) permissions for this project.

Keep your credentials handy, you'll need them for the next step.

**Username**

ex. dbUser

**Password**

ex. dbUserPassword

Autogenerate Secure Password

SHOW

Create Database User



# Build a Database

demo

GraphQL

DEPLOYMENT

Databases

Triggers

Data Lake

SECURITY

Database Access

Network Access

Advanced

Marizza

+ Create

0.0 B

## Connect to Cluster0

Setup connection security > Choose a connection method > Connect

You need to secure your MongoDB Atlas cluster before you can use it. Set which users and IP addresses can access your cluster now. [Read more](#)

**You can't connect yet.** Set up your firewall access and user security permission below.

**1 Add a connection IP address**

IP Address	Description (Optional)
<input type="text" value="██████████"/>	<input type="text" value="An optional comment describing this entry"/>

Cancel Add IP Address

# Build a Database

demo

GraphQL

DEPLOYMENT

Databases

Triggers

Data Lake

SECURITY

Database Access

Network Access

Advanced

Marizza

+ Create

0.0 B

LINKED REALM APP

None Linked

## Connect to Cluster0

Setup connection security > Choose a connection method > Connect

You need to secure your MongoDB Atlas cluster before you can use it. Set which users and IP addresses can access your cluster now. [Read more](#)

You can't connect yet. Set up your user security permission below.

- Add a connection IP address**  
✓ An IP address has been added to the IP Access List. [Add another address in the IP Access List tab.](#)
- Create a Database User**  
This first user will have [atlasAdmin](#) permissions for this project.  
Keep your credentials handy, you'll need them for the next step.  

Username

marizza

Password

demo8888

[Autogenerate Secure Password](#)

HIDE

Create Database User

# Build a Database

**demo**

GraphQL

DEPLOYMENT

Databases

Triggers

Data Lake

SECURITY

Database Access

Network Access

Advanced

Marizza

+ Create

## Connect to Cluster0

Setup connection security > Choose a connection method > Connect

You need to secure your MongoDB Atlas cluster before you can use it. Set which users and IP addresses can access your cluster now. [Read more](#)

**You're ready to connect.** Choose how you want to connect in the next step.

- 1 Add a connection IP address**  
✓ An IP address has been added to the IP Access List. *Add another address in the [IP Access List](#) tab.*
- 2 Create a Database User**  
✓ A MongoDB user has been added to this project. *Not yours? Create one in the [MongoDB Users](#) tab.*  
**You'll need your MongoDB user's credentials in the next step.**

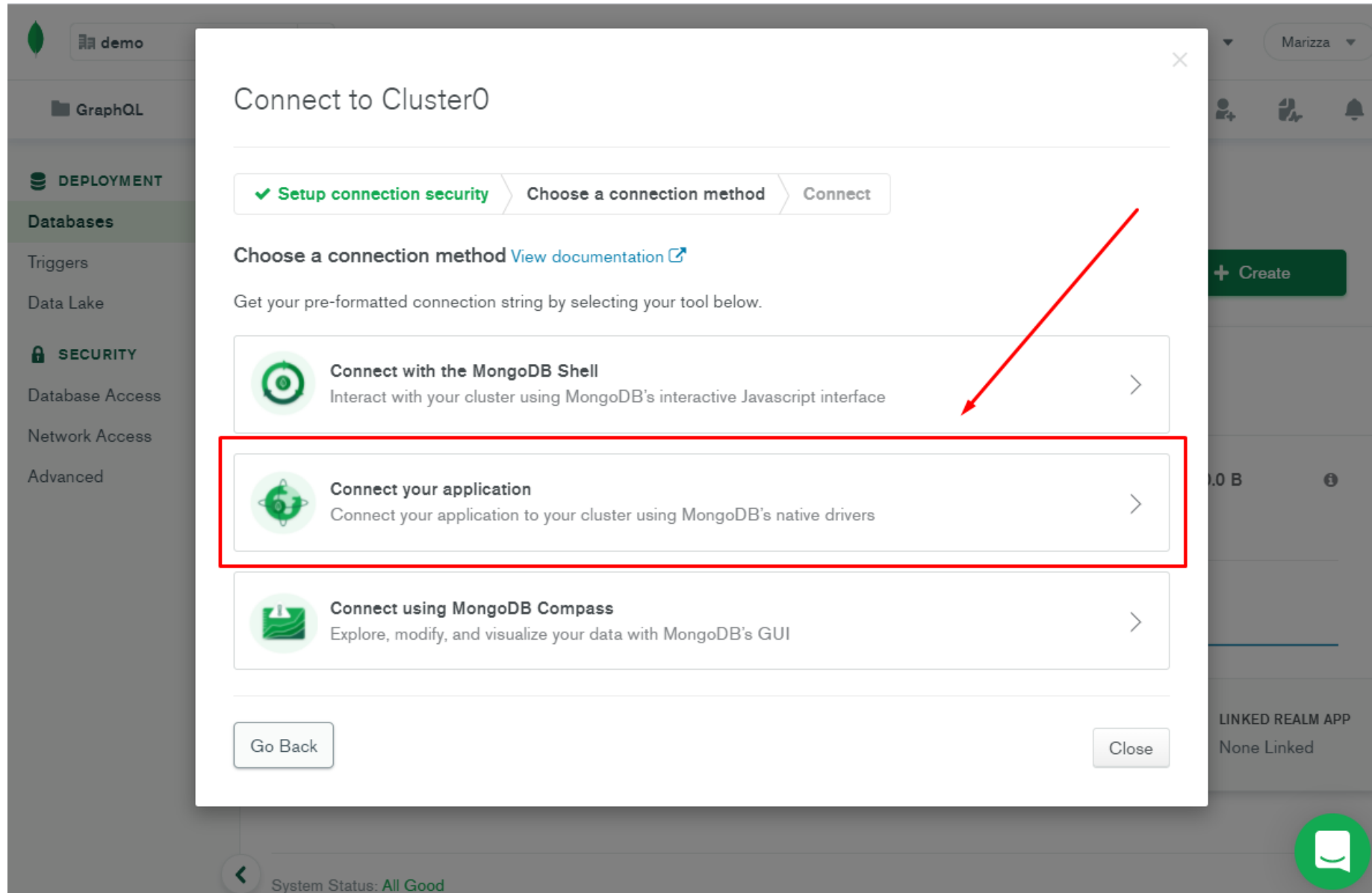
Close

Choose a connection method

4.4.0 AWS / N. Virginia (us-east-1) M0 Sandbox (General) Replica Set - 3 nodes Inactive None Linked

LINKED REALM APP

# Build a Database



# Build a Database

The screenshot shows the 'Connect to Cluster0' dialog in the MongoDB Atlas interface. The left sidebar contains navigation links: demo, GraphQL, DEPLOYMENT, Databases, Triggers, Data Lake, SECURITY, Database Access, Network Access, and Advanced. The dialog has a progress bar with three steps: 'Setup connection security' (checked), 'Choose a connection method' (checked), and 'Connect'. Step 1, 'Select your driver and version', shows 'Node.js' selected for the driver and '4.0 or later' for the version. Step 2, 'Add your connection string into your application code', includes an unchecked checkbox for 'Include full driver code example'. A text box contains the connection string: `mongodbsrv://marizza:<password>@cluster0.9h62k.mongodb.net/myFirstDatabase?retryWrites=true&w=majority`. A red box highlights this text, and a red arrow points to a 'Copy' icon. Below the text box, instructions state: 'Replace <password> with the password for the marizza user. Replace myFirstDatabase with the name of the database that connections will use by default. Ensure any option params are URL encoded.' A link for 'View our troubleshooting documentation' is provided. At the bottom are 'Go Back' and 'Close' buttons.

demo

GraphQL

DEPLOYMENT

Databases

Triggers

Data Lake

SECURITY

Database Access

Network Access

Advanced

Connect to Cluster0

✓ Setup connection security ✓ Choose a connection method Connect

1 Select your driver and version

DRIVER VERSION

Node.js 4.0 or later

2 Add your connection string into your application code

☐ Include full driver code example

mongodbsrv://marizza:<password>@cluster0.9h62k.mongodb.net/myFirstDatabase?retryWrites=true&w=majority

Replace <password> with the password for the marizza user. Replace myFirstDatabase with the name of the database that connections will use by default. Ensure any option params are URL encoded.

Having trouble connecting? [View our troubleshooting documentation](#)

Go Back Close

Copy

# Install mongoose

In the terminal write next command

- `npm i mongoose`

```
const express = require('express');
const { graphqlHTTP } = require('express-graphql');
const schema = require('./schema/schema');
const mongoose = require('mongoose');
```

Insert  
code

```
const app = express();
```

```
mongoose.connect("mongodb+srv://marizza:demo8888@cluster0.9h62k.mongodb.net/gql")
const con = mongoose.connection

con.on('open', () => {
  console.log('connected...')
})
```

```
// bind express with graphql
app.use('/graphql', graphqlHTTP({
  schema,
  graphiql: true
}));
```

```
app.listen(4000, () => {
  console.log('now listening for requests on port 4000');
});
```