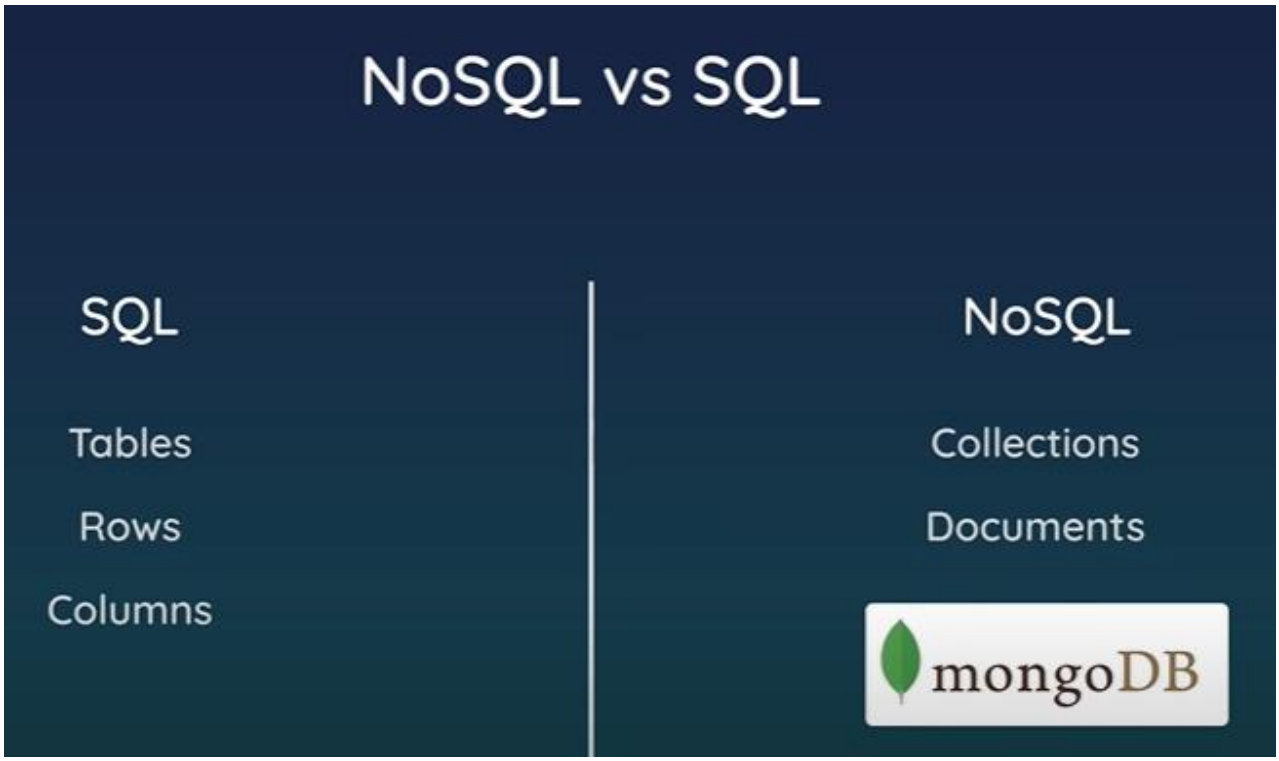
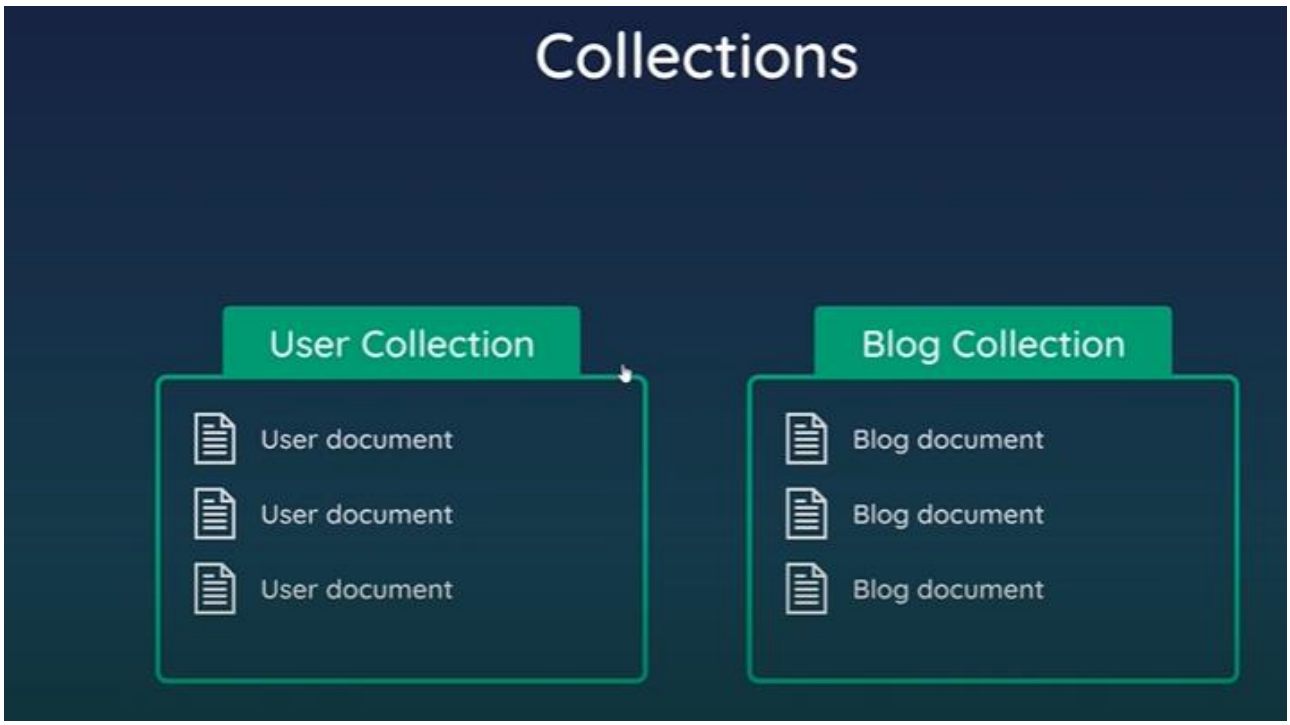
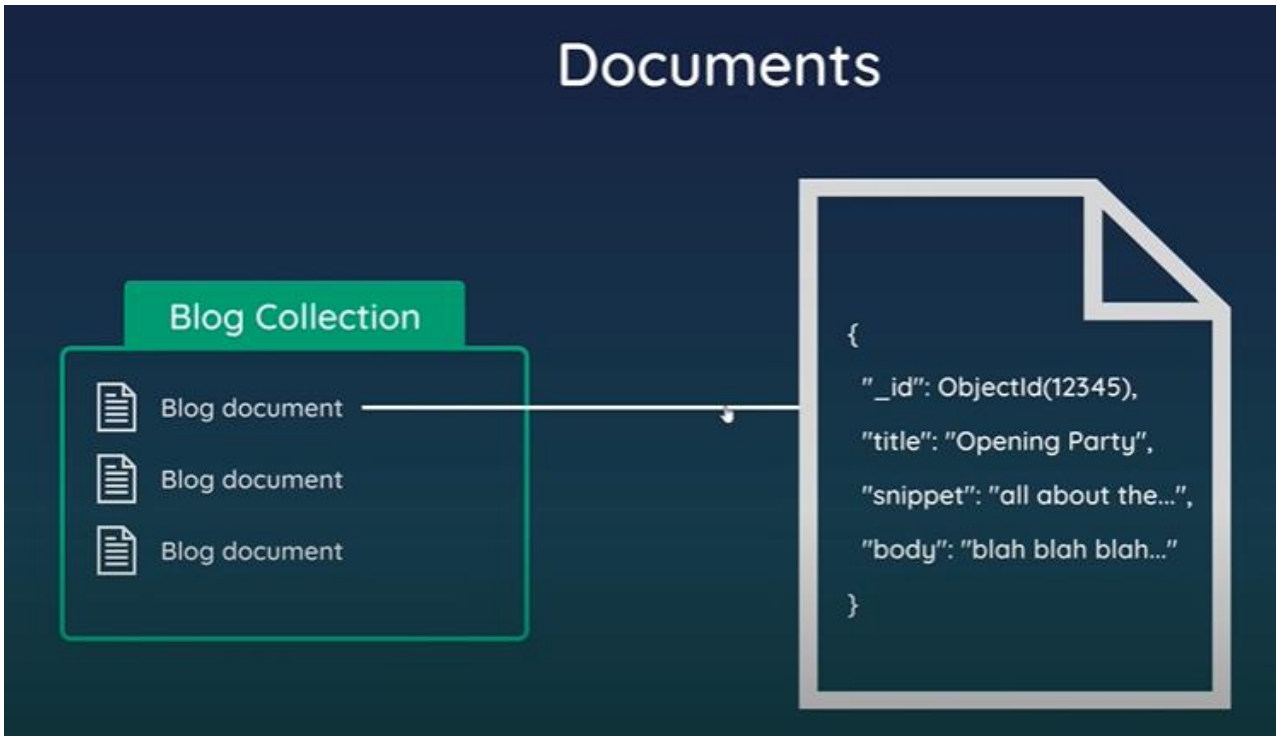
MongoDB

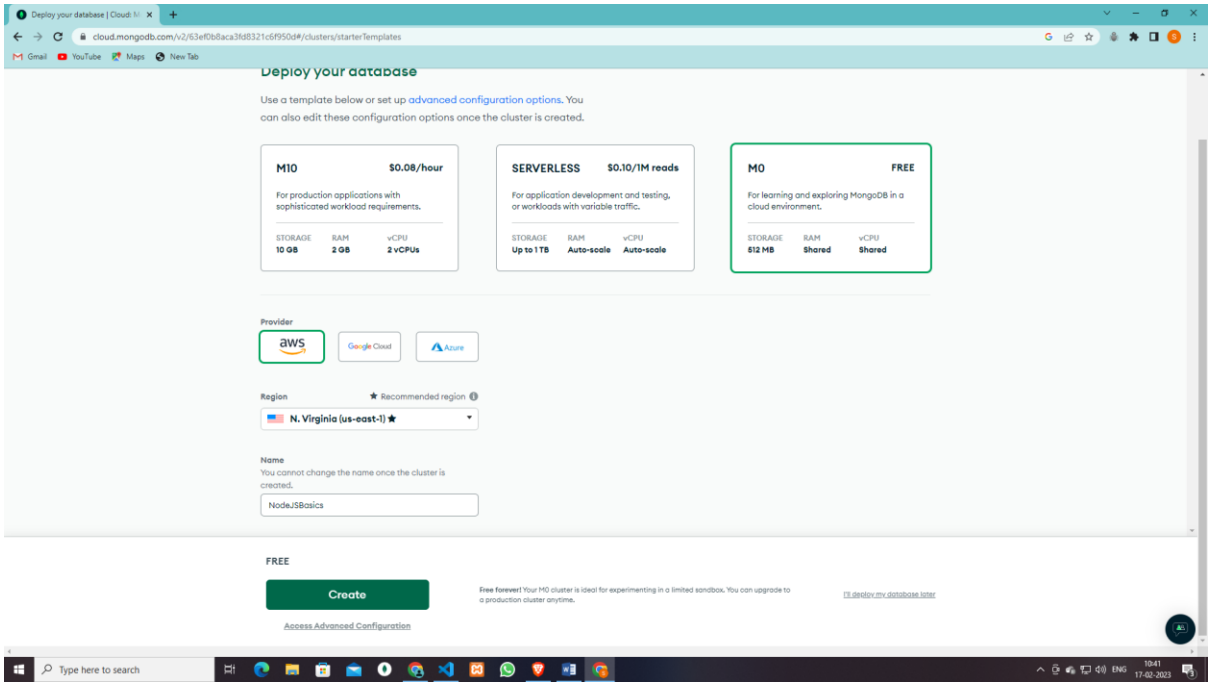


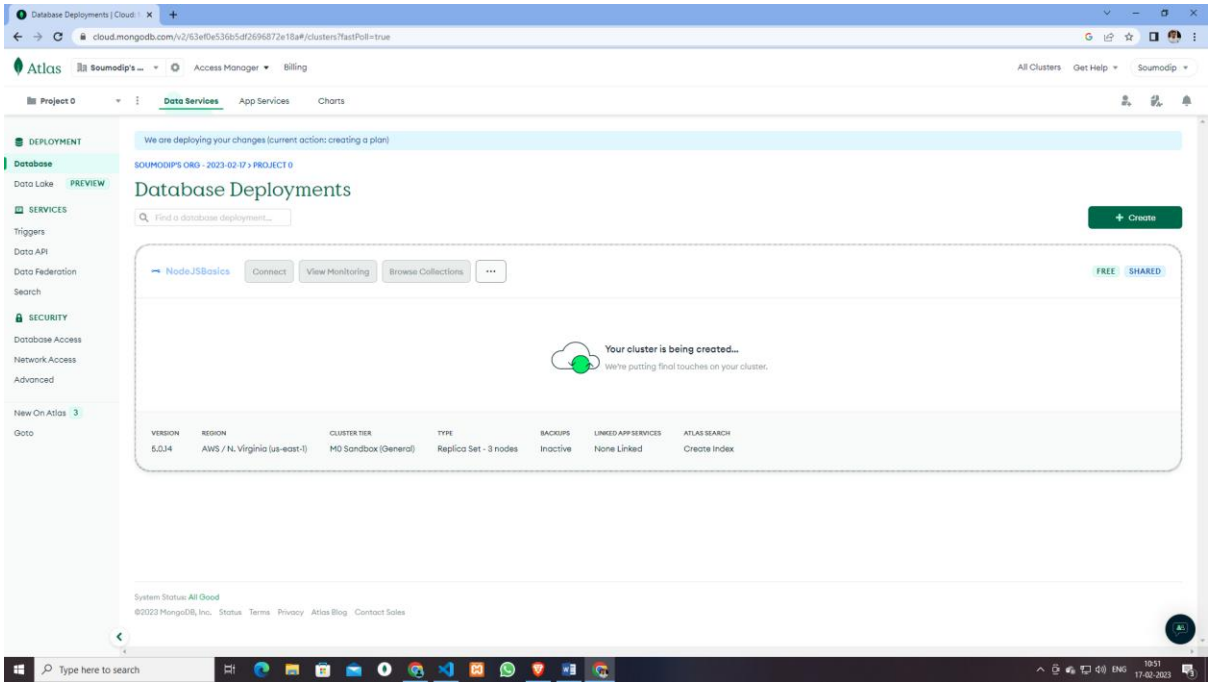
How it works

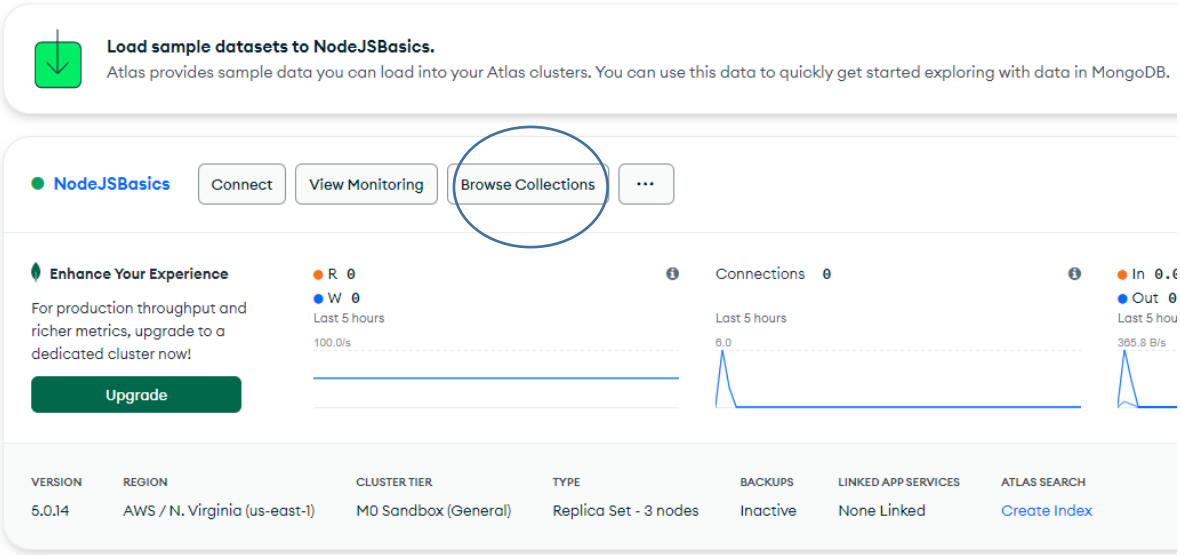




MongoDB setup & atlas




Atlas
Project 0
Data Services
App Services
Charts
DEPLOYMENT
Database
Data Lake
PREVIEW
SERVICES
Triggers
Data API
Data Federation
Search
SECURITY
Database Access
Network Access
Advanced
New On Atlas
Goto
We are deploying your changes (current action: creating a plan)
Database Deployments
Create
NodeJSBasics
Connect
View Monitoring
Browse Collections
FREE
SHARED
Your cluster is being created...
We're putting final touches on your cluster.
VERSION
REGION
CLUSTER TIER
TYPE
BACKUPS
LINKED APP SERVICES
ATLAS SEARCH
5.0.14
AWS / N. Virginia (us-east-1)
M0 Sandbox (General)
Replica Set - 3 nodes
Inactive
None Linked
Create Index


Load sample datasets to NodeJSBasics.
Atlas provides sample data you can load into your Atlas clusters. You can use this data to quickly get started exploring with data in MongoDB.
NodeJSBasics
Connect
View Monitoring
Browse Collections
Enhance Your Experience
For production throughput and richer metrics, upgrade to a dedicated cluster now!
Upgrade
R 0
W 0
Last 5 hours
100.0/s
Connections 0
Last 5 hours
6.0
In 0.6
Out 0
Last 5 hou
365.8 B/s
VERSION
REGION
CLUSTER TIER
TYPE
BACKUPS
LINKED APP SERVICES
ATLAS SEARCH
5.0.14
AWS / N. Virginia (us-east-1)
M0 Sandbox (General)
Replica Set - 3 nodes
Inactive
None Linked
Create Index

Overview | Real Time | Metrics | **Collections** | Search | Profiler | Performance Advisor | Online Archive | Cmd Line Tools

DATABASES: 0 COLLECTIONS: 0

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

System Status: All Good

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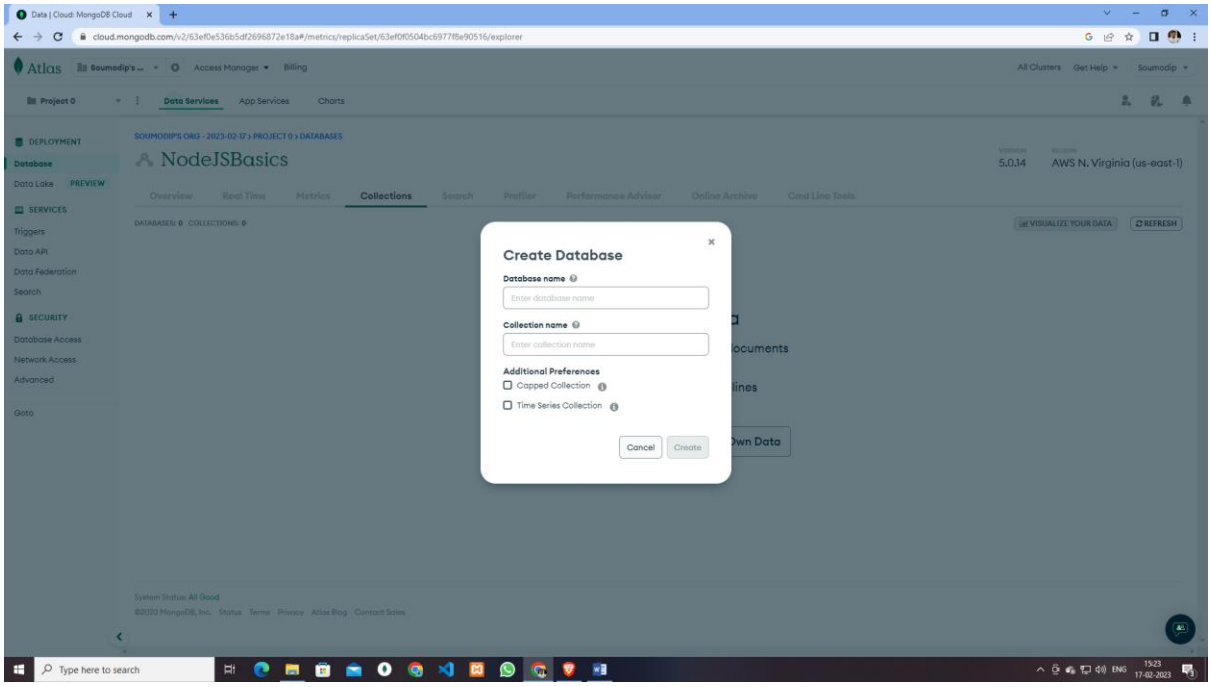
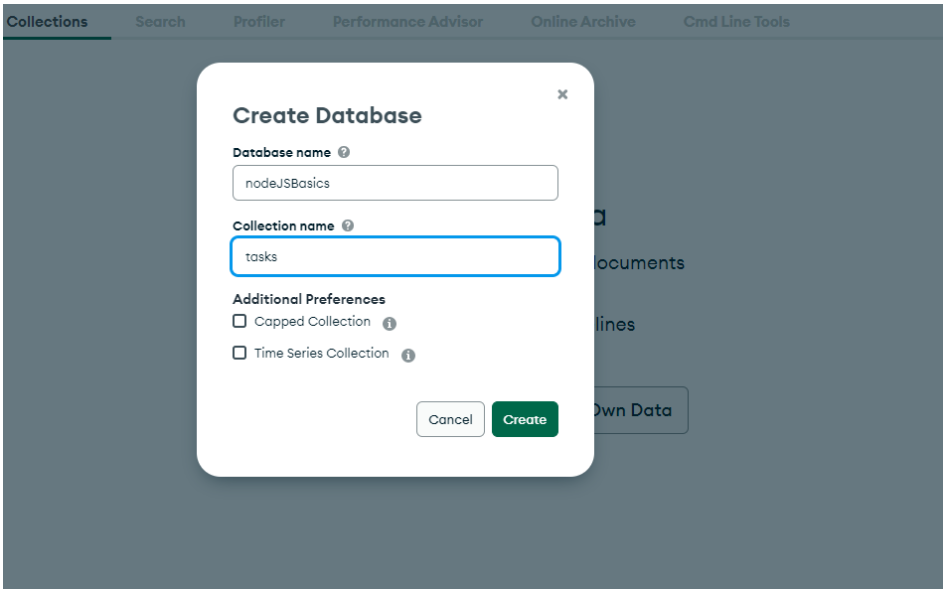
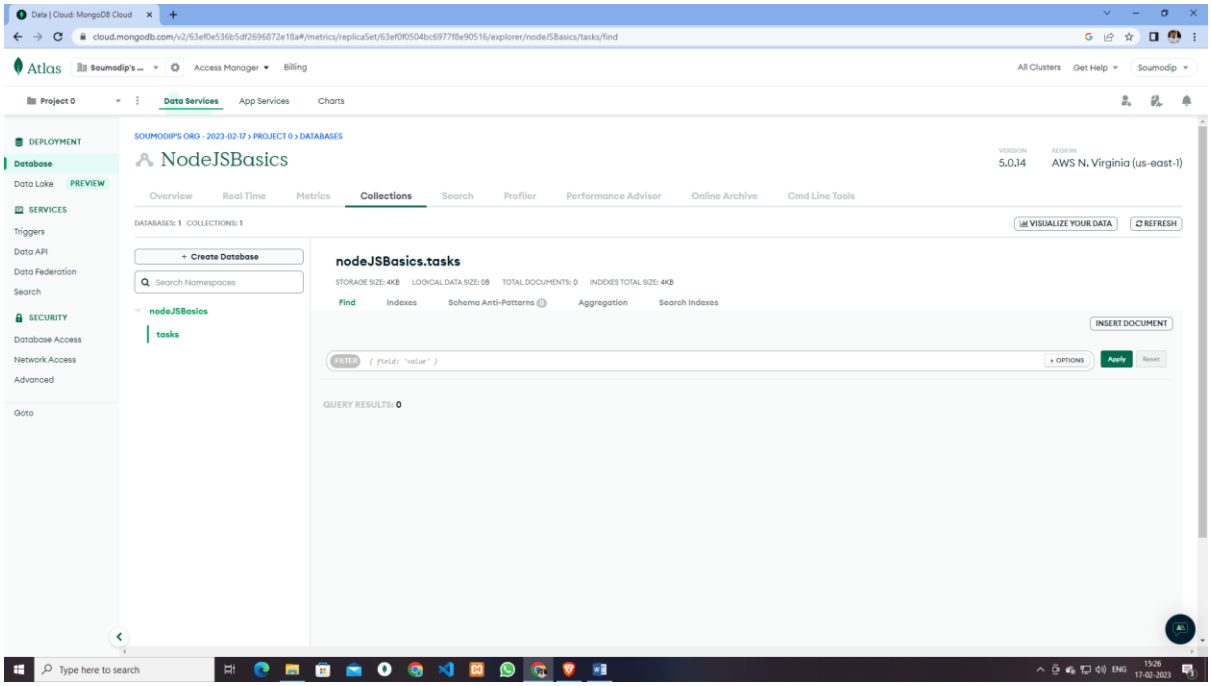



Collections
Search
Profiler
Performance Advisor
Online Archive
Cmd Line Tools
Create Database
Database name
nodeJSBasics
Collection name
tasks
Additional Preferences
Capped Collection
Time Series Collection
Cancel
Create


Atlas
Project 0
Data Services
App Services
Charts
DEPLOYMENT
Database
Data Lake
SERVICES
Triggers
Data API
Data Federation
Search
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Profiler
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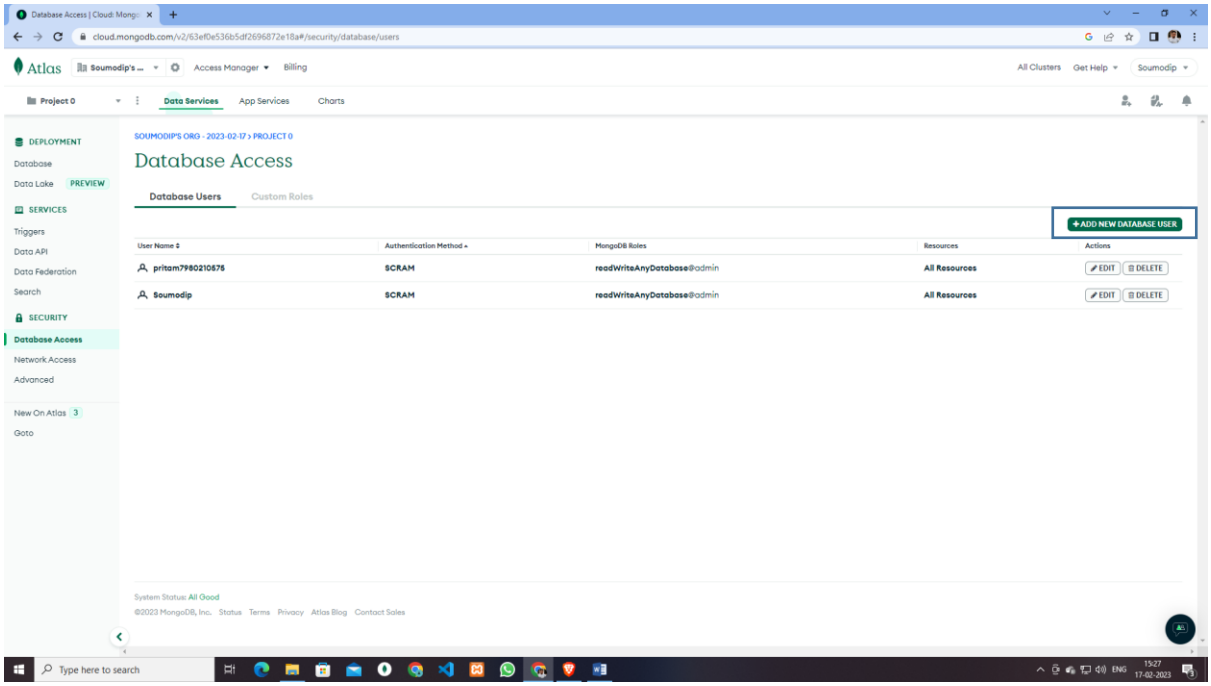
Cmd Line Tools
+ Create Database
Search Namespaces
nodeJSBasics
tasks
nodeJSBasics.tasks
Find
Indexes
Schema Anti-Patterns
Aggregation
Search Indexes
INSERT DOCUMENT
Apply
QUERY RESULTS: 0


Database Access | Cloud: Mongo
cloud.mongodb.com/v2/63ef0e536b5df2696872e18a#/security/database/users
Atlas
Soumodip's ...
Access Manager
Billing
All Clusters
Get Help
Soumodip
Project 0
Data Services
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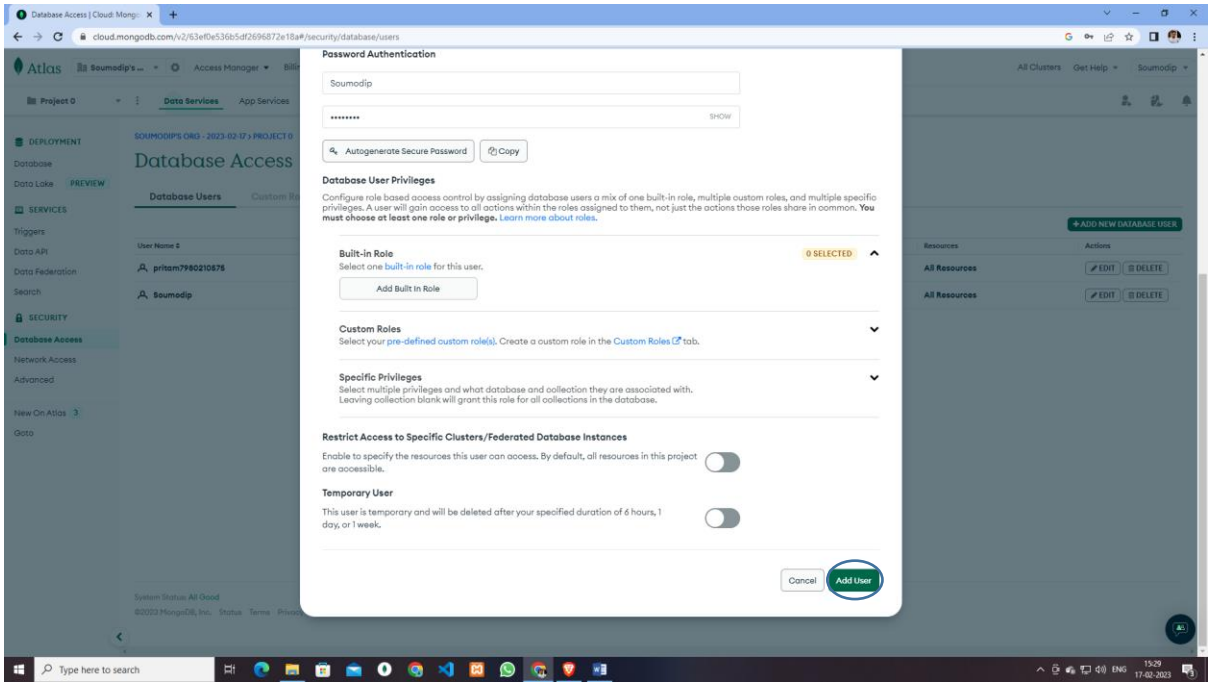
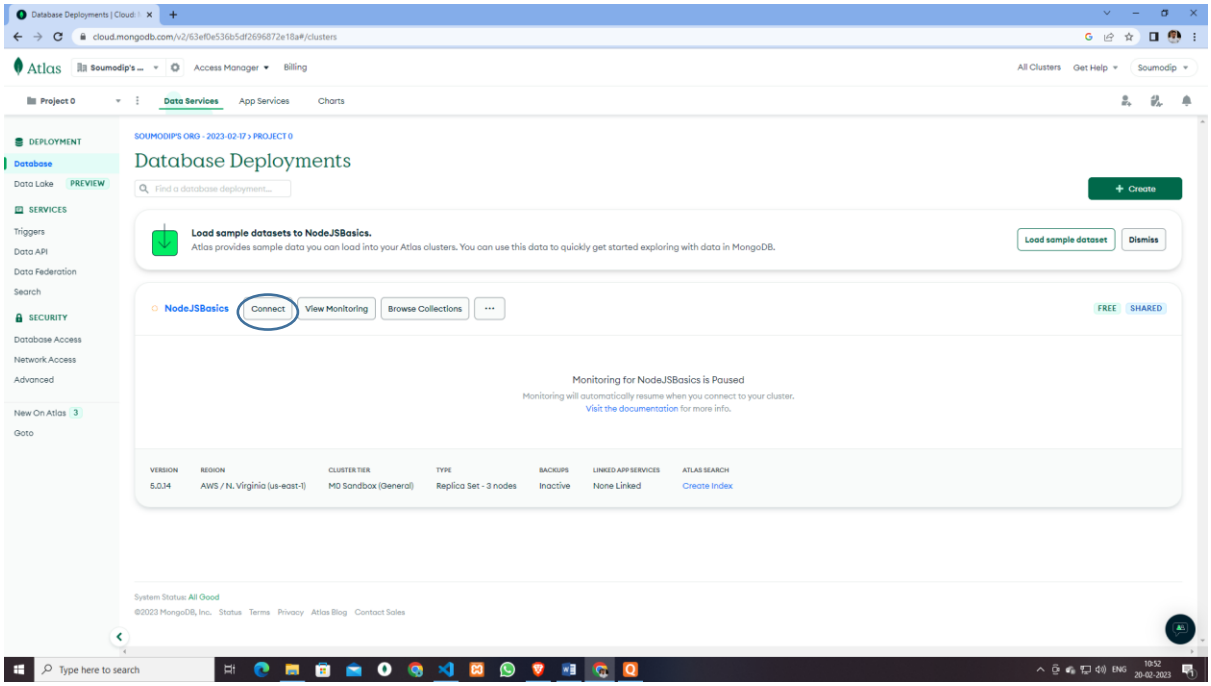
SOUMODIP'S ORG - 2023-02-17 > PROJECT 0
Database Access
Database Users
Custom Roles
+ ADD NEW DATABASE USER
User Name
Authentication Method
MongoDB Roles
Resources
Actions
pritam7980210575
SCRAM
readWriteAnyDatabase@admin
All Resources
EDIT
DELETE
Soumodip
SCRAM
readWriteAnyDatabase@admin
All Resources
EDIT
DELETE
System Status: All Good
©2023 MongoDB, Inc. Status Terms Privacy Atlas Blog Contact Sales
Type here to search
ENG
15:27
17-02-2023


Database Access | Cloud: Mongo
cloud.mongodb.com/v2/63ef0e536b5df2696872e18a#/security/database/users
Password Authentication
Soumodip
SHOW
Autogenerate Secure Password
Copy
Database User Privileges
Configure role based access control by assigning database users a mix of one built-in role, multiple custom roles, and multiple specific privileges. A user will gain access to all actions within the roles assigned to them, not just the actions those roles share in common. You must choose at least one role or privilege. Learn more about roles.
Built-in Role
0 SELECTED
Select one built-in role for this user.
Add Built In Role
Custom Roles
Select your pre-defined custom role(s). Create a custom role in the Custom Roles tab.
Specific Privileges
Select multiple privileges and what database and collection they are associated with. Leaving collection blank will grant this role for all collections in the database.
Restrict Access to Specific Clusters/Federated Database Instances
Enable to specify the resources this user can access. By default, all resources in this project are accessible.
Temporary User
This user is temporary and will be deleted after your specified duration of 6 hours, 1 day, or 1 week.
Cancel
Add User
Type here to search
ENG
15:29
17-02-2023


Database Deployments | Cloud
cloud.mongodb.com/v2/63ef0e536b5df2696872e18a#/clusters
Atlas
Soumodip's ...
Access Manager
Billing
All Clusters
Get Help
Soumodip
Project 0
Data Services
App Services
Charts
DEPLOYMENT
Database
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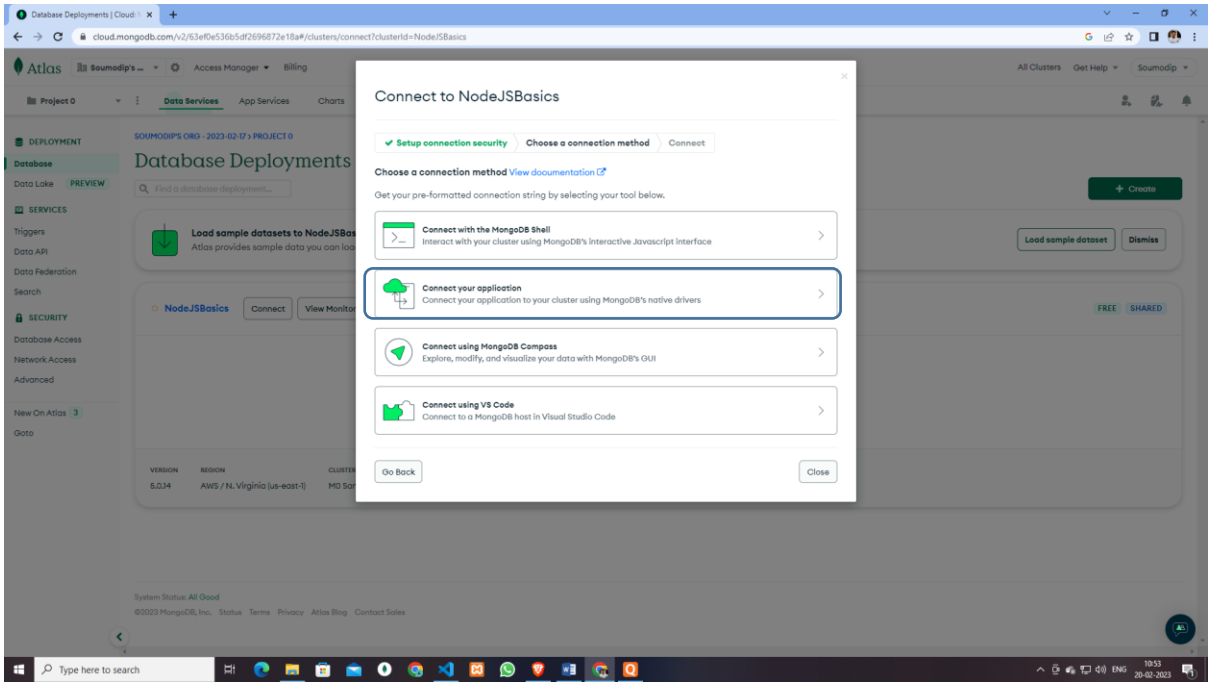
Triggers
Data API
Data Federation
Search
SECURITY
Database Access
Network Access
Advanced
New On Atlas
Goto
SOUMODIP'S ORG - 2023-02-17 > PROJECT 0
Database Deployments
Find a database deployment...
Create
Load sample datasets to NodeJSBasics.
Atlas provides sample data you can load into your Atlas clusters. You can use this data to quickly get started exploring with data in MongoDB.
Load sample dataset
Dismiss
NodeJSBasics
Connect
View Monitoring
Browse Collections
FREE
SHARED
Monitoring for NodeJSBasics is Paused
Monitoring will automatically resume when you connect to your cluster.
Visit the documentation for more info.
VERSION
REGION
CLUSTER TIER
TYPE
BACKUPS
LINKED APP SERVICES
ATLAS SEARCH
5.0.14
AWS / N. Virginia (us-east-1)
M0 Sandbox (General)
Replica Set - 3 nodes
Inactive
None Linked
Create Index
System Status: All Good
©2023 MongoDB, Inc. Status Terms Privacy Atlas Blog Contact Sales
Type here to search
ENG
10:52
20-02-2023


Database Deployments | Cloud
cloud.mongodb.com/v2/63ef0e536b5df2696872e18a#/clusters/connect?clusterId=NodeJSBasics
Atlas
Soumodip's ...
Access Manager
Billing
All Clusters
Get Help
Soumodip
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Data Services
App Services
Charts
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Database Deployments
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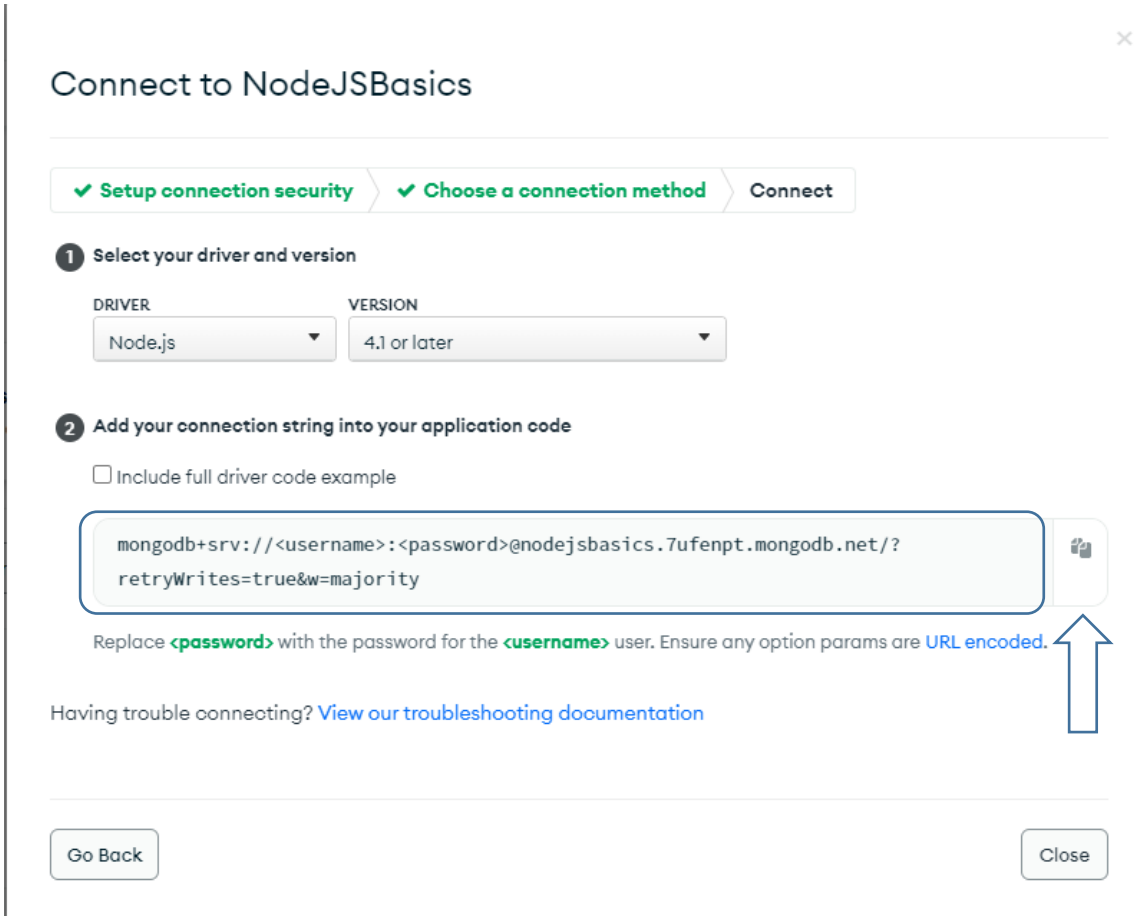
Load sample dataset
Dismiss
NodeJSBasics
FREE
SHARED
VERSION
REGION
5.0.14
AWS / N. Virginia (us-east-1)
Connect to NodeJSBasics
Setup connection security
Choose a connection method
Connect
Choose a connection method View documentation
Get your pre-formatted connection string by selecting your tool below.
Connect with the MongoDB Shell
Interact with your cluster using MongoDB's interactive Javascript interface
Connect your application
Connect your application to your cluster using MongoDB's native drivers
Connect using MongoDB Compass
Explore, modify, and visualize your data with MongoDB's GUI
Connect using VS Code
Connect to a MongoDB host in Visual Studio Code
Go Back
Close
System Status: All Good
©2023 MongoDB, Inc. Status Terms Privacy Atlas Blog Contact Sales
Type here to search
ENG
10:53
20-02-2023

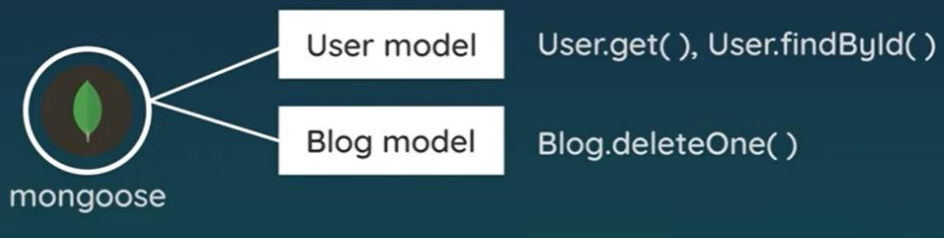



```
6
7   const app = express();
8
9   //connect to mongoDB
10  const dbURI = 'mongodb+srv://Pritam:Mongo@007@nodejsbasics.7ufenpt.mongodb.
    net/?retryWrites=true&w=majority';      You, 1 second ago • Uncommitted chang
11
```

Mongoose, Models & Schemes

Mongoose

- Mongoose is an ODM library - Object Document Mapping library

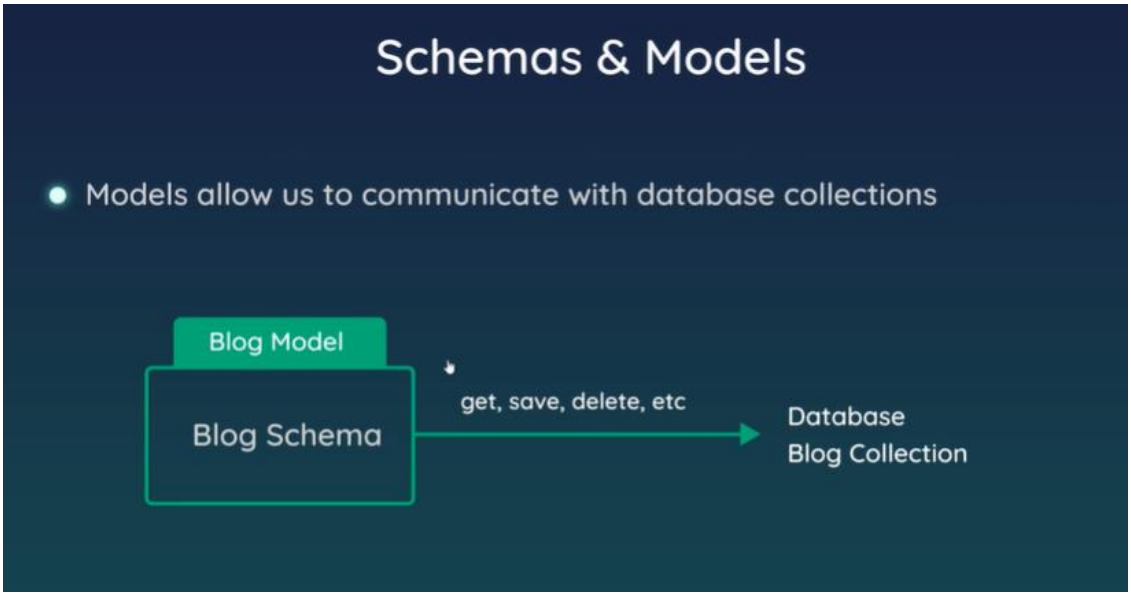


Schemas & Models

- Schemas defines the structure of a type of data / document
  - Properties & property types

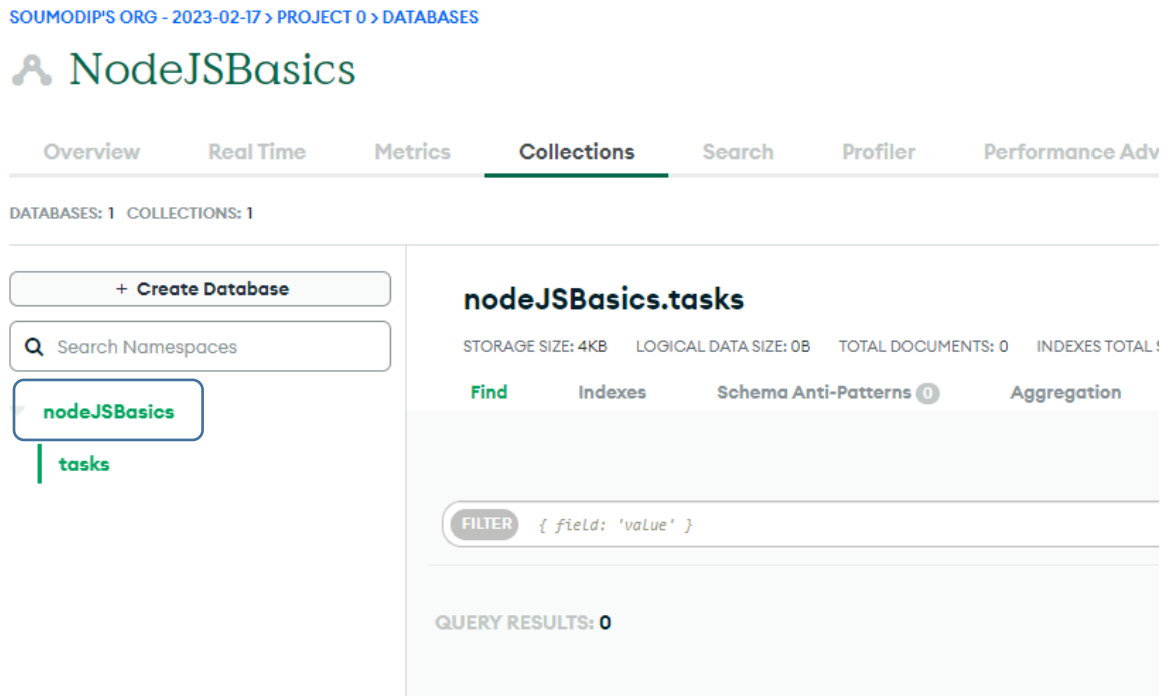
User Schema:
- name (string), required
- age (number)
- bio (string), required

Blog Schema:
- title (string), required
- snippet (string), required
- body (string), required



It’s a third party package so we need to install mongoose in our app.

npm install mongoose



]

Request Types

GET requests to get a resource

POST requests to create new data (e.g. a new blog)

DELETE requests to delete data (e.g. delete a blog)

PUT requests to update data (e.g. update a blog)

Request Types

localhost:3000/blogs	GET
localhost:3000/blogs/create	GET
localhost:3000/blogs	POST
localhost:3000/blogs/:id	GET
localhost:3000/blogs/:id	DELETE
localhost:3000/blogs/:id	PUT

Route Parameters

- The variable parts of the route that may change value

localhost:3000/blogs/:id

localhost:3000/blogs/12345

localhost:3000/blogs/50

localhost:3000/blogs/hello