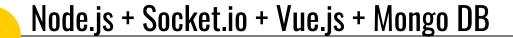
CS4220 Node.js & Vue.js

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SQL (Relational) Databases

Individual records in tables as rows and each column stores a specific piece of data about that record. Related data is stored in separate tables, and then joined together with complex queries.

The data stored in SQL databases have a defined structure. This structure is referred to as a schema, the formal definition of how data inserted into the database will be stored.

Examples:

- MySQL
- Postgres
- MS SQL Server
- Oracle Database



NoSQL (Non-Relational) Databases

Document Databases

Data is inserted in the form of JSON structures or "documents". Documents can contain many different key-value pairs or even nested documents.

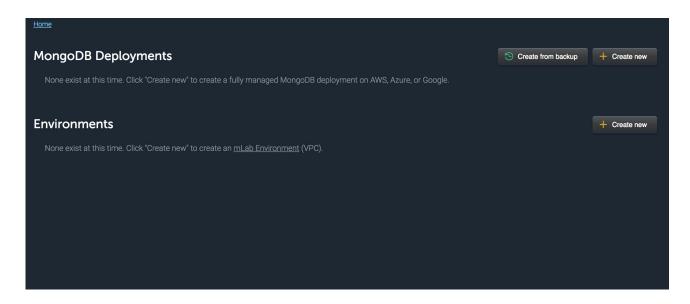
The data stored in NoSQL databases is dynamic, with some enforcing data validation rules. Applications can add new fields on the fly, and unlike SQL table rows, dissimilar data can be stored together as necessary.

Examples:

- MongoDB
- Cassandra
- Redis
- ArangoDB

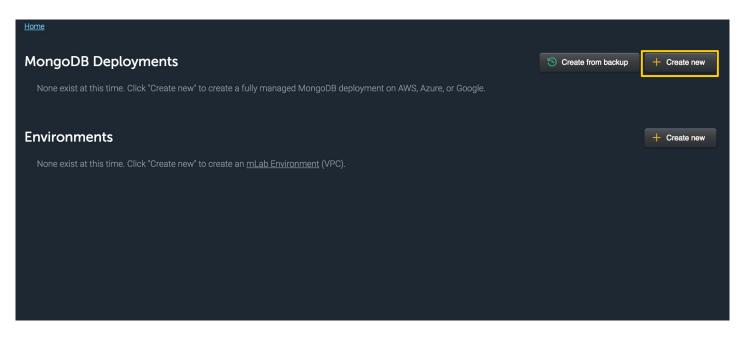


- Go to https://mlab.com
- Sign up for a Free Account

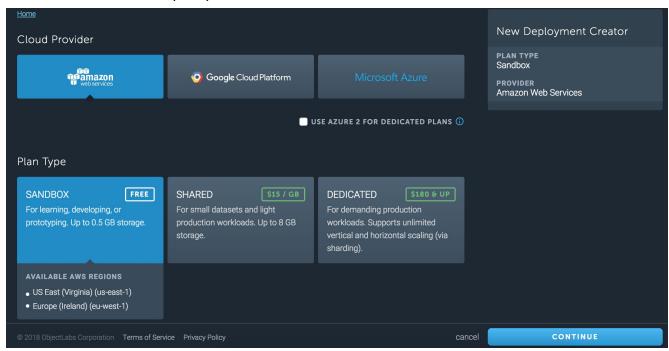




Click Create New



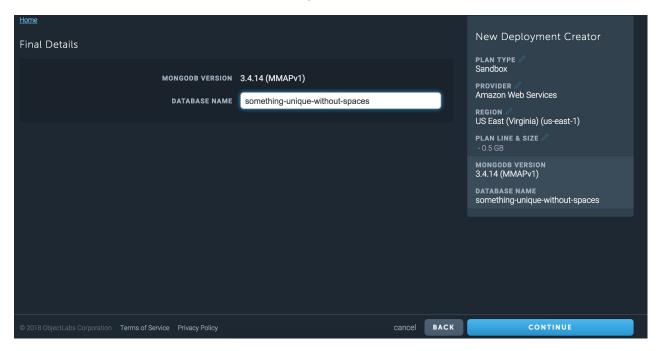
Click SANDBOX (free) and the Continue



Click US East and the Continue



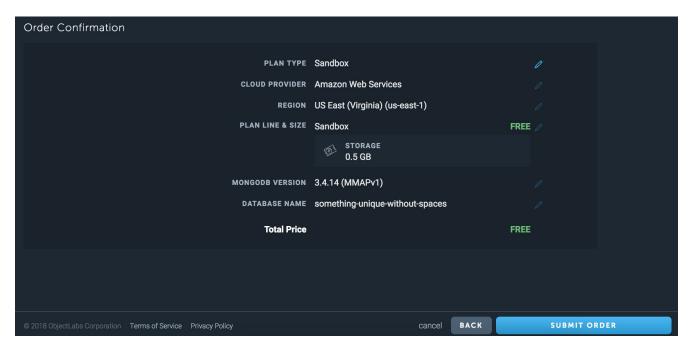
Enter a DB Name (needs to be unique)



- 5

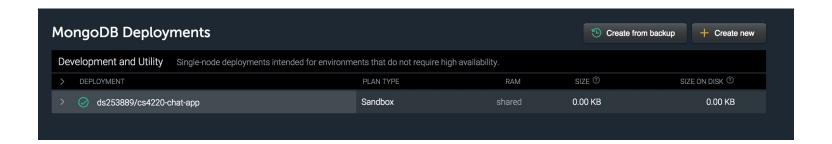
Setting Up Cloud Instance of Mongo DB

Submit FREE Order



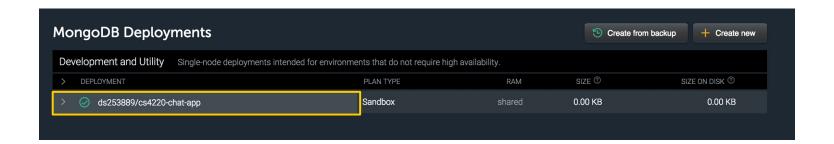


Now your account has a DB Deployment

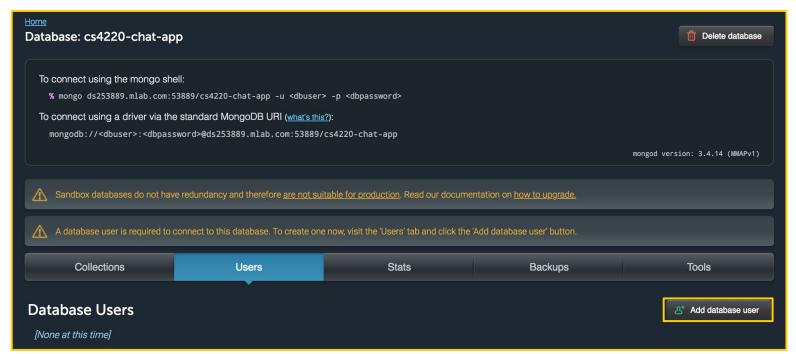




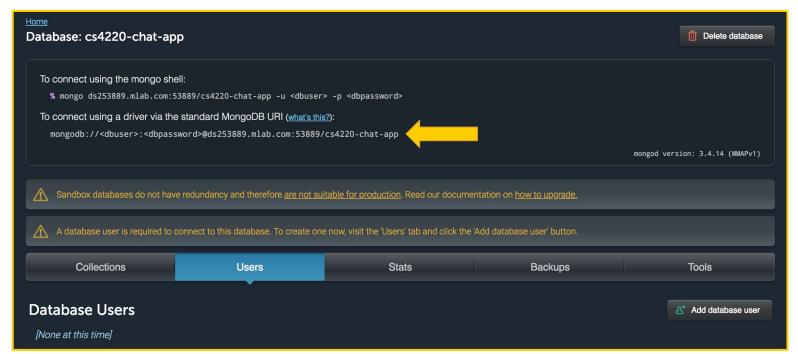
• Click on Your Deployment Name



Add a database user



Add a database user and note the connection URI



References and Reading

NoSQL Explained

-- https://www.mongodb.com/nosql-explained

mLab

-- https://mlab.com