MongoDB - Connection

Topics : MongoDB
Written on December 30, 2023

Connecting to MongoDB involves establishing a connection between your application and the MongoDB server. The connection is typically established using a MongoDB driver, which is a library or module specific to the programming language you are using. Below are general steps for connecting to MongoDB using various programming languages.

Connection in Node.js (Using `mongodb` Node.js Driver):

1. **Install the MongoDB Driver:**

```
npm install mongodb
```

2. **Create a Connection:**

```
const { MongoClient } = require('mongodb');

// Connection URI
const uri = 'mongodb+srv://<username>:<password>@<cluster-
address>/test?retryWrites=true&w=majority';

// Create a new MongoClient
const client = new MongoClient(uri, { useNewUrlParser: true,
useUnifiedTopology: true });

// Connect to the MongoDB server
client.connect().then(() => {
    console.log('Connected to MongoDB');
    // Perform operations here
}).catch(err => console.error(err));
```

Connection in Python (Using `pymongo` Python Driver):

1. **Install the MongoDB Driver:**

```
pip install pymongo
```

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2. **Create a Connection:**

```
 from pymongo import MongoClient

# Connection URI
uri = "mongodb+srv://<username>:<password>@<cluster-
address>/test?retryWrites=true&w=majority"

# Create a MongoClient
client = MongoClient(uri)

# Get a reference to the database
db = client.test
```

Connection in Java (Using Java Driver):

1. **Add Dependency (Maven):**

```
 <dependency>
    <groupId>org.mongodb</groupId>
    <artifactId>mongodb-driver-sync</artifactId>
    <version>4.4.3</version>
</dependency>
```

2. **Create a Connection:**

```
import com.mongodb.client.MongoClients;
import com.mongodb.client.MongoClient;
import com.mongodb.client.MongoDatabase;

// Connection URI
String uri = "mongodb+srv://<username>:<password>@<cluster-
address>/test?retryWrites=true&w=majority";

// Create a MongoClient
MongoClient mongoClient = MongoClients.create(uri);

// Get a reference to the database
MongoDatabase database = mongoClient.getDatabase("test");
```

Connection in C# (Using `MongoDB.Driver` .NET Driver):

1. **Add NuGet Package:**

```
 Install-Package MongoDB.Driver
```

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2. **Create a Connection:**

```
using MongoDB.Driver;

// Connection URI
string uri = "mongodb+srv://<username>:<password>@<cluster-
address>/test?retryWrites=true&w=majority";

// Create a MongoClient
var client = new MongoClient(uri);

// Get a reference to the database
var database = client.GetDatabase("test");
```

Replace `<username>`, `<password>`, and `<cluster-address>` with your MongoDB Atlas cluster's credentials.

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