MongoDB - Mongosh

Topics : MongoDB
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`Mongosh` is the official command-line shell for MongoDB. It provides a user-friendly and interactive environment for interacting with MongoDB databases and clusters. `mongosh` is designed to offer a modern and powerful interface, making it easy for developers and administrators to work with MongoDB.

Installation:

- **Installation via npm:**

```
npm install -g mongodb
```

- **Installation via Homebrew (on macOS):**

```
brew tap mongodb/brew
brew install mongosh
```

- **Installation via Chocolatey (on Windows):**

```
choco install mongosh
```

Connecting to MongoDB:

- **Connect to a MongoDB Server:**

```
mongosh mongodb://hostname:port/database
```

- **Connect to a MongoDB Atlas Cluster:**

```
mongosh "mongodb+srv://<username>:<password>@<cluster-
```

```
address>/test?retryWrites=true&w=majority"
```

Basic Usage:

- **Query Documents:**

```
db.collection_name.find();
```

- **Insert Documents:**

```
db.collection_name.insertOne({ field1: value1, field2: value2 });
```

- **Update Documents:**

```
db.collection_name.updateOne({ field: value }, { $set: { updated_field:
new_value } });
```

- **Delete Documents:**

```
db.collection_name.deleteOne({ field: value });
```

Interactive Features:

- **Autocompletion:** `mongosh` supports autocompletion for MongoDB commands and JavaScript functions.

- **Syntax Highlighting:** Code snippets are syntax-highlighted for better readability.

- **Integrated Help:** Access documentation and help directly from the shell.

Built-in Commands:

- `show dbs`: List available databases.
- `use <database>`: Switch to a specific database.
- `show collections`: List collections in the current database.
- `db.version()`: Display the MongoDB server version.

Scripting and Automation:

- **Run Scripts:** Execute JavaScript files using the `load()` function.

```
load('path/to/script.js');
```

- **Save Output:** Save query results to a file.

```
db.collection_name.find().toArray().forEach(printjson);
```

Exiting mongosh:

- **Exit the Shell:**

```
exit
```

- **Keyboard Shortcut:** Press `Ctrl + D` to exit.

`mongosh` provides a powerful and user-friendly interface for interacting with MongoDB, and it's continually evolving with updates and improvements.