

MongoDB Distribution

Distribution using mongodb servers for storage and retrieval of data

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Synopsis

```
use MongoDB::Client;
use MongoDB::Database;

use BSON::Document;

my MongoDB::Client $client .= new(:uri('mongodb://'));
my MongoDB::Database $database = $client.database('myPetProject');

# Inserting data
my BSON::Document $req .= new: (
  insert => 'famous-people',
  documents => [
    BSON::Document.new((
      name => 'Larry',
      surname => 'Wall',
    )),
  ],
);

my BSON::Document $doc = $database.run-command($req);
if $doc<ok> {
  say "Pffoei, inserted";
}
```

Description

This distribution provides a set of modules which can help you accessing mongod server or servers.

Modules

Below are the modules provided with the distribution. The top few are the most imported ones. These will help to connect to a server, define the database and collection and to enter or modify documents in the collections. The core operation is [run-command](#) from [MongoDB::Database](#).

MongoDB/Client.pm6

This module defines class [MongoDB::Client](#) and is used to connect to mongod and mongos servers. This module can create a [MongoDB::Database](#) object for you as well as a [MongoDB::Collection](#) object.

MongoDB/DataBase.pm6

Definition of class [MongoDB::DataBase](#). Its main task is to provide the method run-command to access data, modify a server or to get information. A [MongoDB::Collection](#) object can be created using Database.

MongoDB/Collection.pm6

Defines class [MongoDB::Collection](#). The main purpose of this module is to help to find data in a collection. Inserting or modifying documents in a collection is mainly done using run-command which uses the collection name in the command. In those cases a collection object is not needed

MongoDB/Cursor.pm6

Defines class [MongoDB::Cursor](#). The module is used to iterate through found data searched for by [find\(\)](#) from the [MongoDB::Collection](#) module. The object is almost never generated by the user but is returned by the find method.

MongoDB/Log.pm6

Logging module.

MongoDB/Uri.pm6

Class [MongoDB::Uri](#) used by [MongoDB::Client](#) to parse the uri string.

MongoDB/HL/Users.pm6

Defines class [MongoDB::HL::Users](#) to administer user accounts. It is placed in HL (higher level) because all operations could be done with just the run-command. This module adds facilities like checking password length etc.

MongoDB/HL/Collection.pm6

Defines class [MongoDB::HL::Collection](#) to do more than the lower level Collection provides.

MongoDB/Server.pm6

Class [MongoDB::Server](#) is a class to represent a mongod server. This class can return Socket objects. It also authenticates when necessary. This is not to be used directly.

MongoDB/Server/Socket.pm6

Class [MongoDB::Server::Socket](#) to represent a connection to a server. This is not to be used directly.

MongoDB/Server/Control.pm6

Class [MongoDB::Server::Control](#) is used to start and stop a mongod server using configuration files. Mostly needed for

tests and is not to be used directly.

MongoDB/Server/Monitor.pm6

Class `MongoDB::Server::Monitor` is used to monitor a mongodb server for changes in the server state. Not to be used directly.

MongoDB/Wire.pm6

Defines class `MongoDB::Wire`. Module is used to send and receive data. Not to be used directly.

MongoDB/Header.pm6

Module `MongoDB::Header` helps `MongoDB::Wire` to encode and decode documents for transport to and from the mongodb server. This is not to be used directly.

MongoDB/MDBConfig.pm6

Class `MongoDB::MDBConfig` is a config database singleton. This is not to be used directly.

MongoDB.pm6

Module to hold basic information reachable from other modules. Further it defines a role and an Exception class. See for more below.