

Creado por:

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MongoDB: Consola

Para poder acceder a la consola debemos entrar dentro del contenedor creado para mongoDB, vemos el nombre asignado al proceso:

- docker ps

```
isabel@isabel-SVE1S12E1EW:~$ sudo docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAMES
1cc592f8f6d0   mongo    "docker-entrypoint.s..." 28 seconds ago Up 27 seconds 0.0.0.0:27017->27017/tcp, :::27017->27017/tcp   mongodb
isabel@isabel-SVE1S12E1EW:~$
```

- docker exec -it mongodb bash

Una vez dentro pondremos:

- versiones anteriores de mongoddb: **mongo**
- versiones +5 de mongoddb: **mongosh**

```
isabel@isabel-SVE1S12E1EW:~$ sudo docker exec -it mongodb bash
root@1cc592f8f6d0:/# mongo
MongoDB shell version v4.4.6
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongoddb
Implicit session: session { "id" : UUID("4f956c25-b0de-4218-a716-1afa5148f266") }
MongoDB server version: 4.4.6
---
The server generated these startup warnings when booting:
  2021-07-08T16:28:46.556+00:00: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine. See http://dochub.mongodb.org/core/prodnotes-filesystem
  2021-07-08T16:28:47.396+00:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
---
---
  Enable MongoDB's free cloud-based monitoring service, which will then receive and display
  metrics about your deployment (disk utilization, CPU, operation statistics, etc).

  The monitoring data will be available on a MongoDB website with a unique URL accessible to you
  and anyone you share the URL with. MongoDB may use this information to make product
  improvements and to suggest MongoDB products and deployment options to you.

  To enable free monitoring, run the following command: db.enableFreeMonitoring()
  To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
---
>
```

Una vez activada la consola podremos ver las base de datos que tenemos:

- show dbs

```

root@1cc592f8f6d0:/# mongo
MongoDB shell version v4.4.6
connecting to: mongod://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongod
Implicit session: session { "id" : UUID("4f956c25-b0de-4218-a716-1afa5148f266") }
MongoDB server version: 4.4.6
...
The server generated these startup warnings when booting:
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  improvements and to suggest MongoDB products and deployment options to you.

  To enable free monitoring, run the following command: db.enableFreeMonitoring()
  To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
...
> show dbs
admin    0.000GB
config  0.000GB
local    0.000GB
>

```

Crear Base de datos

Para crear una base de datos nueva será necesario insertar un dato nuevo:

- use test ---> nombre de la BBDD
- db.user.insertOne({name: "Isabel Maniega", age: 205})

Donde:

- db: siempre se pone para referir a base de datos
- user: colección de datos que vamos a crear
- .insertOne({}): insertar un dato nuevo

```

test> show dbs
admin    40.00 KiB
config  12.00 KiB
local    72.00 KiB
test> use test
already on db test
test> db.user.insert({"name":"IsabelManiega", "age":205})
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("634d2fca6ca4f341fbe33650") }
}
test> db.user.insertOne({"name":"IsabelManiega", "age":205})
{
  acknowledged: true,
  insertedId: ObjectId("634d2fee6ca4f341fbe33651")
}

```

Mostrar colecciones

- show collections

```

test> show collections
user

```

Mostrar los documentos

- `db.user.find({})`

```
test> db.user.find({})
[
  {
    _id: ObjectId("634d2fca6ca4f341fbe33650"),
    name: 'IsabelManiega',
    age: 205
  },
  {
    _id: ObjectId("634d2fee6ca4f341fbe33651"),
    name: 'IsabelManiega',
    age: 205
  },
  {
    _id: ObjectId("634d30506ca4f341fbe33652"),
    name: 'Pedro Ramirez',
    age: 225
  }
]
```

Actualizar un documento

Recogeremos el `_id` del documento que queremos actualizar y con `set` actualizaremos el documento:

- `db.user.updateOne({_id: ObjectId("634d2fca6ca4f341fbe33650")}, [{"$set":{"name": "Pedro Alvarez", "age": 264}}])`

```
test> db.user.updateOne({_id: ObjectId("634d2fca6ca4f341fbe33650")}, [{"$set":{"name": "Pedro Alvarez", "age": 264}}])
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

Eliminar un documento

Para eliminar el dato podemos eliminar según el `id` del documento:

- `db.user.deleteOne({_id: ObjectId("634d2fee6ca4f341fbe33651")})`

```
test> db.user.deleteOne({_id: ObjectId("634d2fee6ca4f341fbe33651")})
{ acknowledged: true, deletedCount: 1 }
```

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