

Exercice 1

1. Étudiez la structure des tables SQL fournies (Authors, Books, Borrowers).

Cette base contient une table **Authors** qui enregistre les noms et dates de naissance des auteurs

Il y a une table **Books** qui enregistre les titres, année de publication, et auteurs (via id) des livres.

Il y a une table **Borrowers** qui enregistre les noms, des emprunteurs ainsi que le livre qu'ils ont emprunté et à quelle date.

2. Modéliser les collections correspondantes pour une base de données MongoDB.

Collection **Authors**:

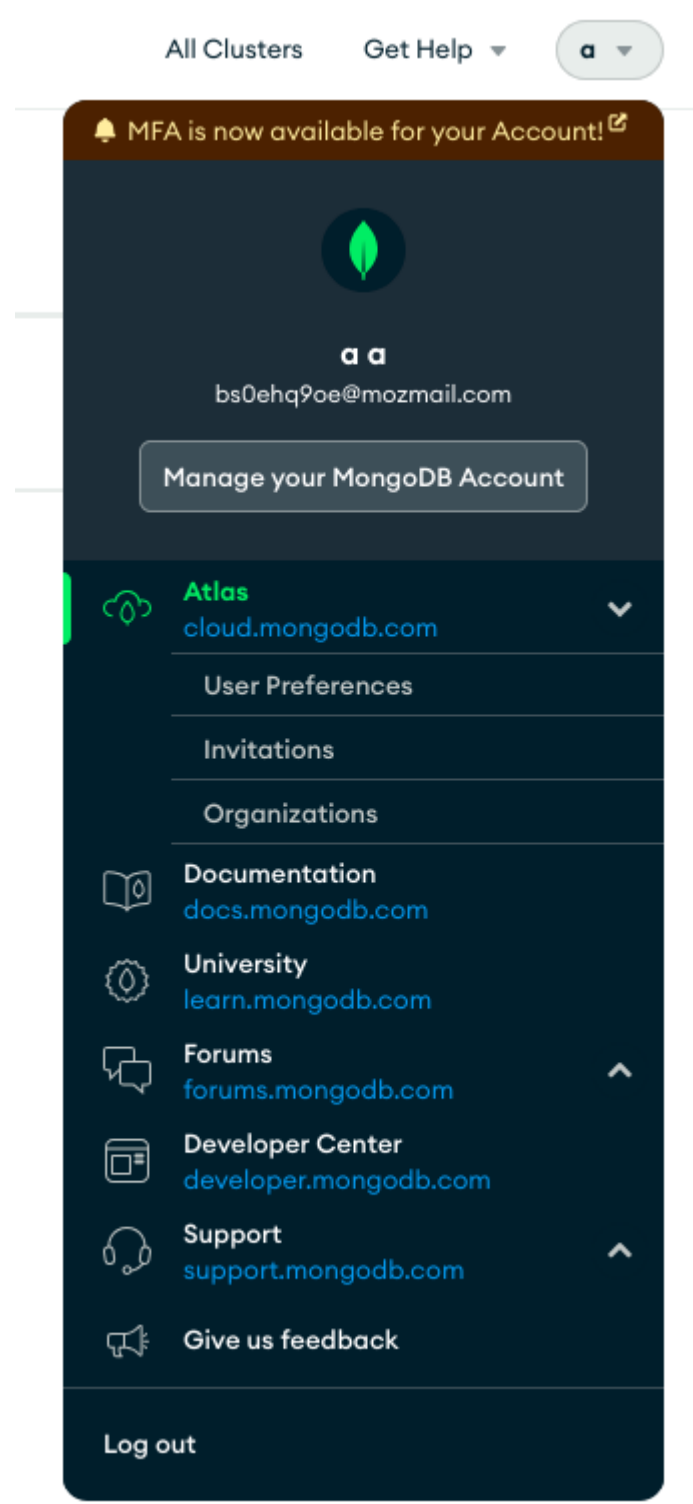
```
{
  "name": "",
  "birth_date": "YYYY-MM-DD",
  "books": [
    {
      "id": "",
      "title": "",
      "publication_year": 1900
    }
  ]
}
```

Collection **Borrowers**:

```
{
  "name": "",
  "borrow_date": "YYYY-MM-DD",
  "book_id": ""
}
```

Exercice 2

2.2



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Network Access

IP Access List

Peering

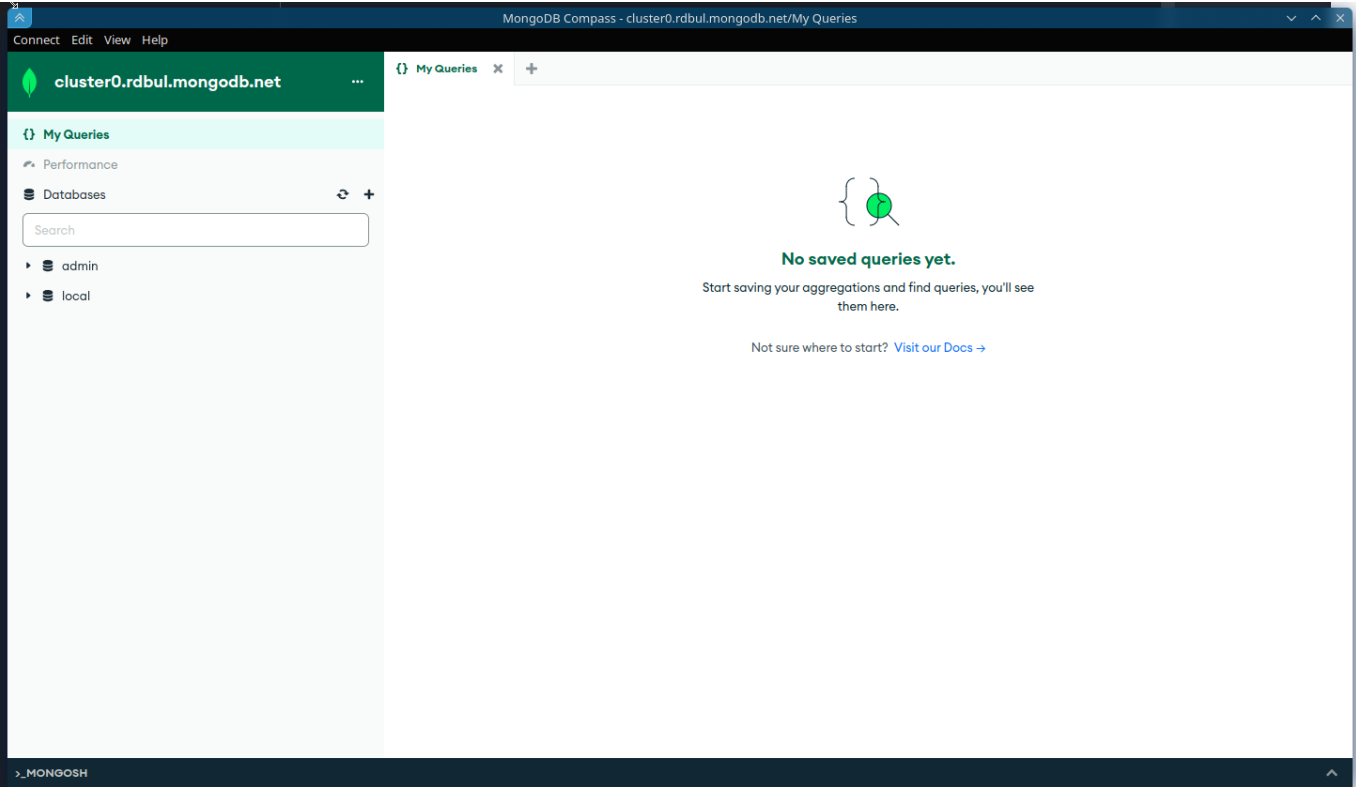
Private Endpoint

+ ADD IP ADDRESS

You will only be able to connect to your cluster from the following list of IP Addresses:

| IP Address | Comment | Status | Actions |
|---|---------------|----------------------|-----------------------------------|
| 217.109.234.114/32 (includes your current IP address) | My IP Address | <div></div> Inactive | <div>EDIT</div> <div>DELETE</div> |

2.10



2.12

```
ivans@PARPAING-II livrable$ python mongodb_connect.py
['admin', 'local']
```

2.15

cluster0.rdbul.m...

My Queries

Performance

Databases

Search

admin

local

td01

td01b

authors

borrowers

My Queries

authors

authors

td01b.authors

Documents

Aggregations

Schema

Indexes

Validation

Filter

Type a query: { field: 'value' } or [Generate query](#)

ADD DATA

EXPORT DATA

UPDATE

DELETE

_id: ObjectId('66d86294a7dfeecaaf0d6abb')

name: "Isaac Asimov"

birth_date: "1920-01-02"

books: Array (1)

My Queries

authors

borrowers

td01b.borrowers

Documents

Aggregations

Schema

Indexes

Validation

Filter

Type a query: { field: 'value' } or [Generate query](#)

ADD DATA

EXPORT DATA

UPDATE

DELETE

_id: ObjectId('66d862eea7dfeecaaf0d6abd')

name: "Nicolas Foussard"

borrow_date: "2024-09-04"

book_id: "095484658421114598456217"