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Challenge Title: Sprint 1

Name Of The Track Enrolled In: In-México

Program

NAO Identification: 3345

## Development of Activities – Sprint 1

The following screenshots show the installation, configuration, and development of the database in MongoDB, as well as the setup of the repository in GitHub.

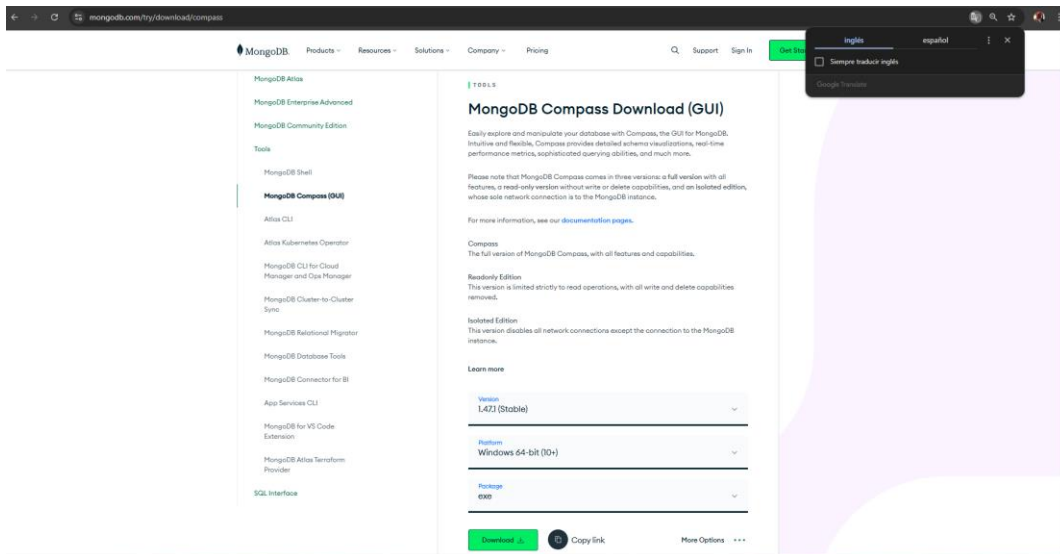


Ilustración 1: Download mongodb compass version 100.13.0

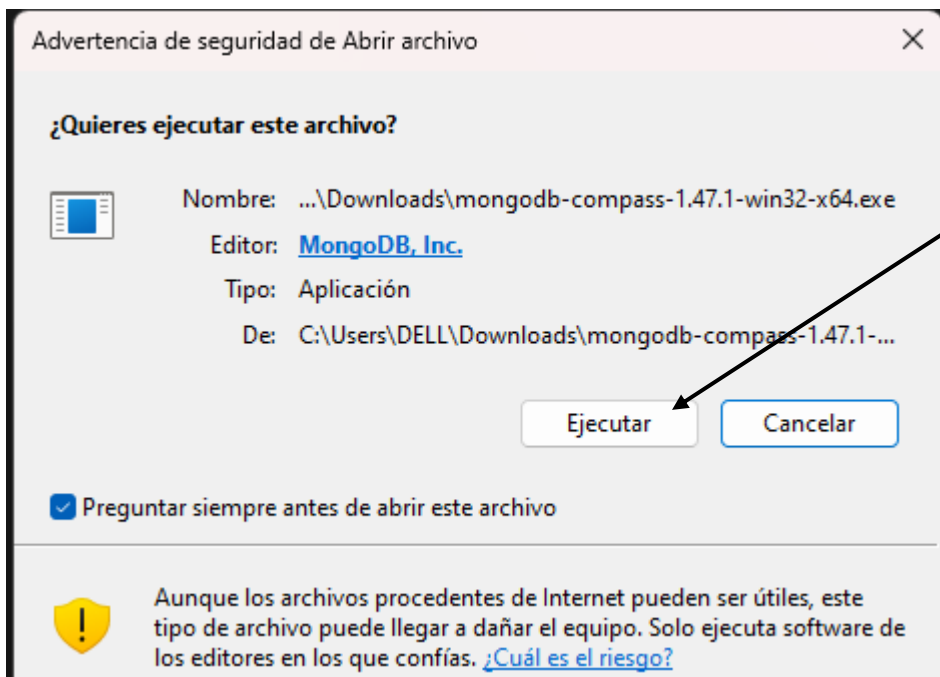
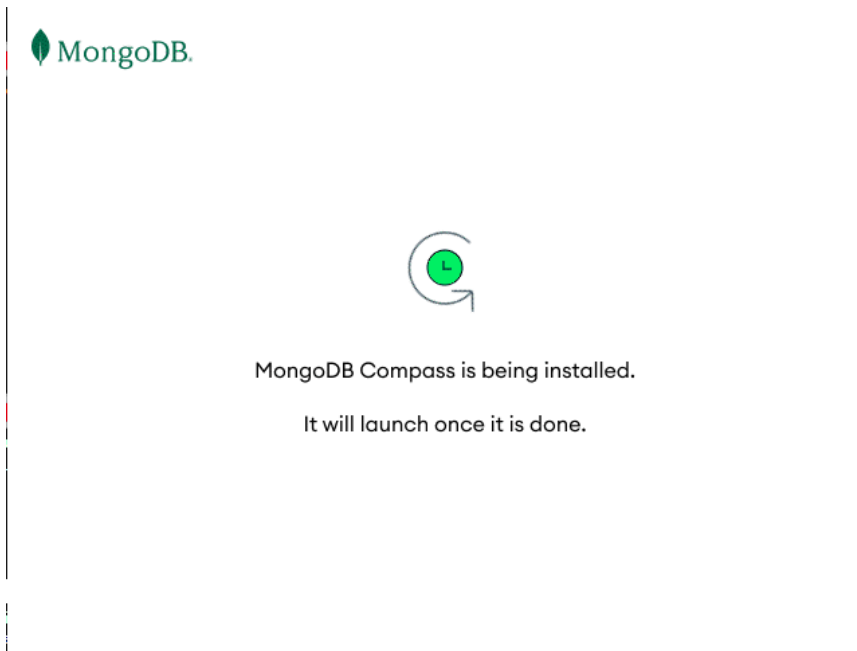
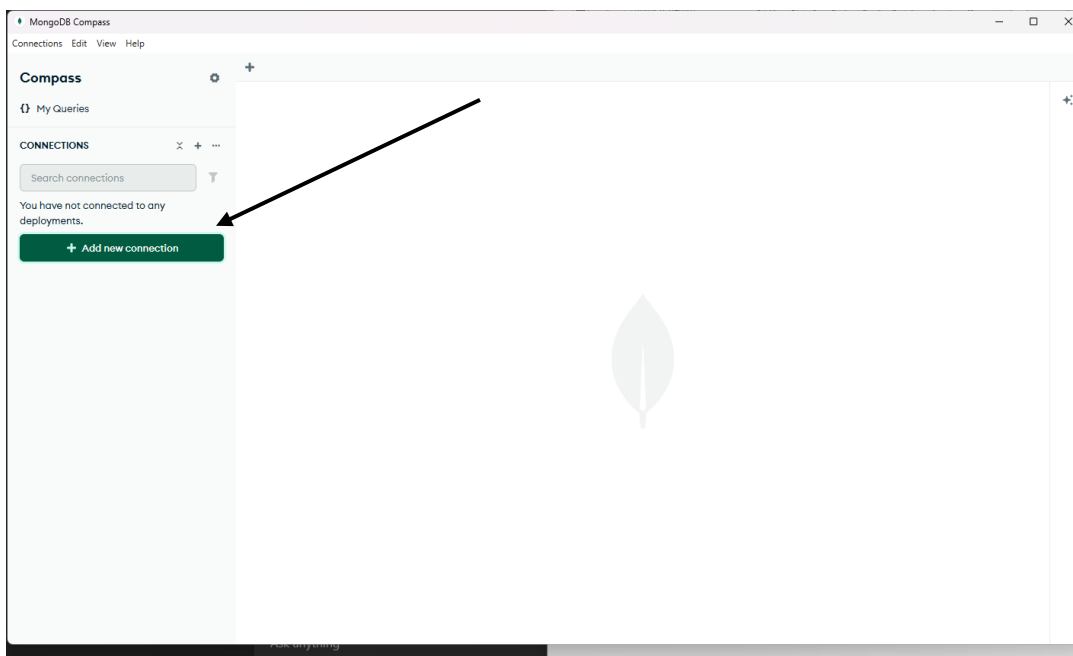


Ilustración 2: Start the .exe file

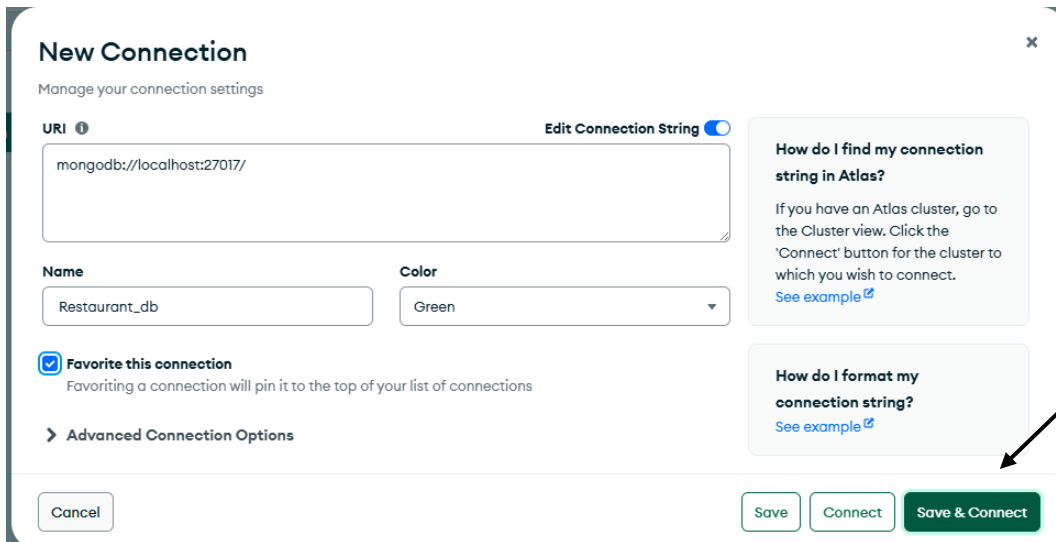


*Ilustración 3: Follow the instruccions until finish*

The database and the necessary collections were created in MongoDB. Each collection was configured to store data in JSON or CSV format. The following image shows the configured database in MongoDB along with the created collections.




*Ilustración 4: Installation completed*



**New Connection** ×

Manage your connection settings

**URI** ⓘ Edit Connection String 

**Name**  **Color**

☒ **Favorite this connection**  
Favoriting a connection will pin it to the top of your list of connections

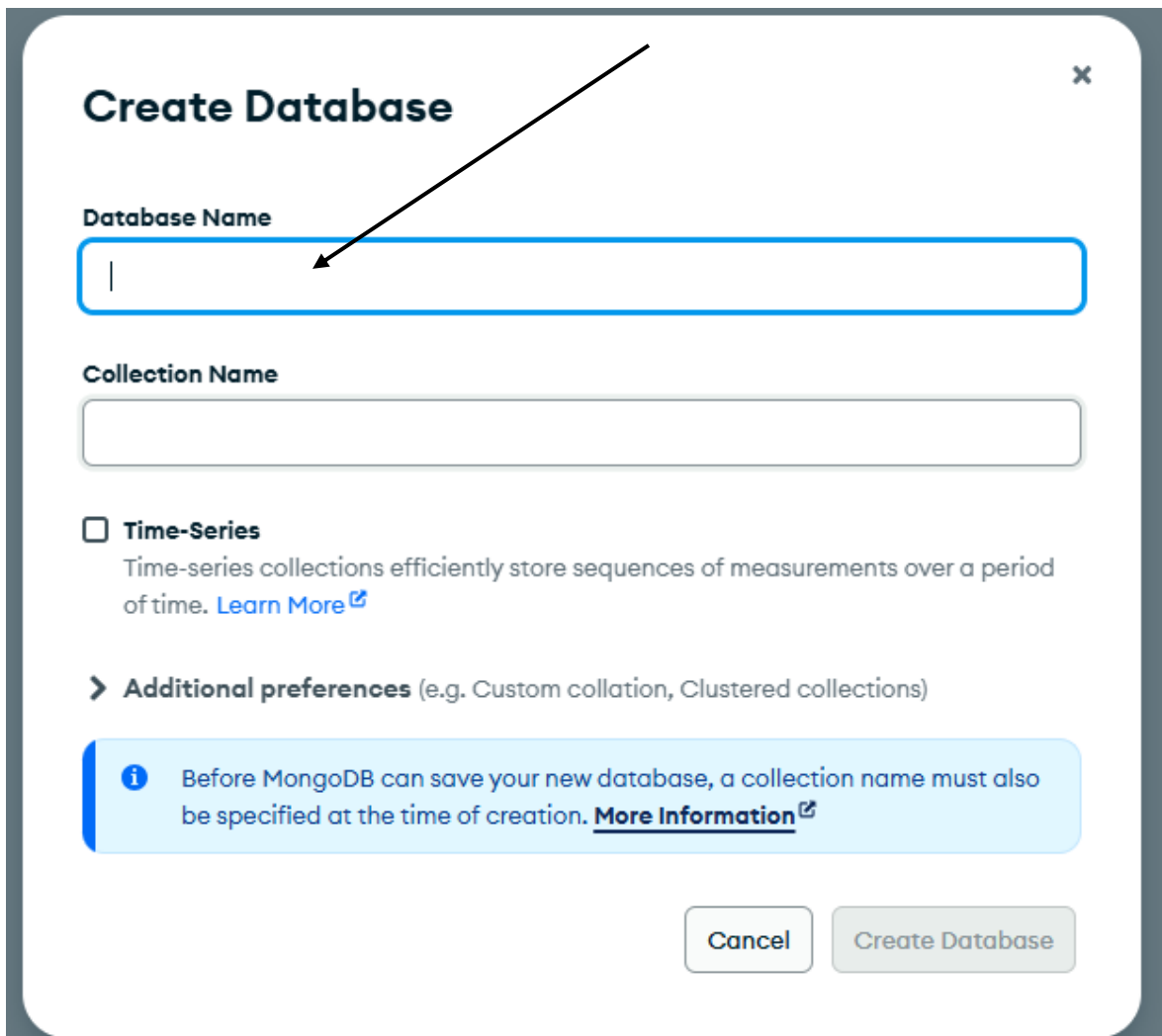
[➤ Advanced Connection Options](#)

[How do I find my connection string in Atlas?](#)  
If you have an Atlas cluster, go to the Cluster view. Click the 'Connect' button for the cluster to which you wish to connect. [See example](#) ⓘ

[How do I format my connection string?](#)  
[See example](#) ⓘ

An arrow points from the 'Save & Connect' button to the 'How do I format my connection string?' help box.

Ilustración 5: Start new connection local



**Create Database** ×

**Database Name**

**Collection Name**

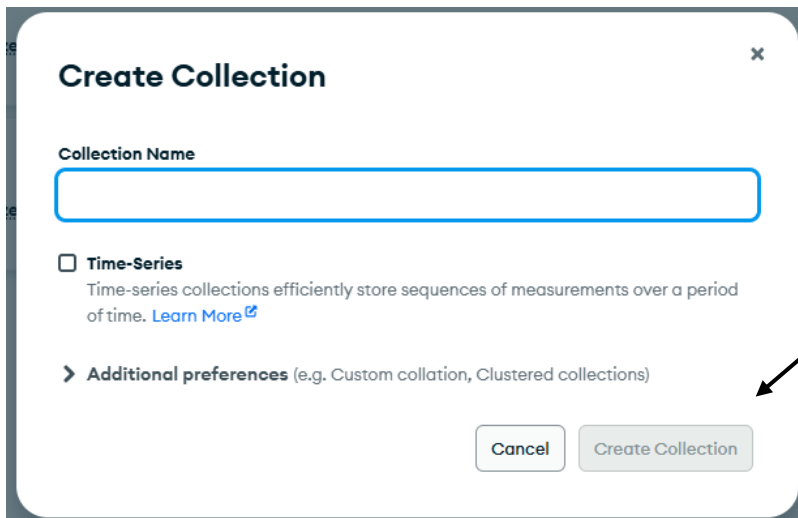
☐ **Time-Series**  
Time-series collections efficiently store sequences of measurements over a period of time. [Learn More](#) ⓘ

[➤ Additional preferences](#) (e.g. Custom collation, Clustered collections)

**i** Before MongoDB can save your new database, a collection name must also be specified at the time of creation. [More Information](#) ⓘ

An arrow points from the 'Database Name' input field to the 'Create Database' button.

Ilustración 6: Create database



**Create Collection**

Collection Name

☐ **Time-Series**  
Time-series collections efficiently store sequences of measurements over a period of time. [Learn More](#)

**> Additional preferences** (e.g. Custom collation, Clustered collections)

Ilustración 7: create collection

<b>products</b>				
<b>Storage size:</b> 20.48 kB	<b>Documents:</b> 1	<b>Avg. document size:</b> 237.00 B	<b>Indexes:</b> 2	<b>Total index size:</b> 40.96 kB

<b>users</b>				
<b>Storage size:</b> 20.48 kB	<b>Documents:</b> 1	<b>Avg. document size:</b> 238.00 B	<b>Indexes:</b> 2	<b>Total index size:</b> 40.96 kB

Ilustración 8: view collections

```

{
  "_id": ObjectId('68e6b4fc69ad035b66a6b158'),
  "indexes": Array (2)
    0: Object
      v: 2
      key: Object
        _id: 1
        name: "_id_"
    1: Object
      v: 2
      key: Object
        sku: 1
        name: "sku_1"
        unique: true
      uuid: "ff4b960ed95b47d1bfaf20a1d60f92cd"
      collectionName: "products"
      type: "collection"
}

```

Ilustración 9: view script

During Sprint 1, the complete configuration of the development environment, the design of the database, and the setup of the GitHub repository were successfully completed. This establishes a solid foundation for the upcoming sprints, where the RESTful API and the system's advanced functionalities will be developed.