Migrate a MongoDB database from Compass to Atlas

## ****🔹 Step 1: Export Database from Compass using**** mongodump

Since MongoDB Compass does not support full database export, we use mongodump.

### **1️⃣ Open a Terminal or Command Prompt**

* On **Windows**: Open **Command Prompt** or **PowerShell**.
* On **Mac/Linux**: Open **Terminal**.

### **2️⃣ Run the** mongodump **Command**

mongodump --uri="mongodb://localhost:27017/yourDatabaseName" --out="dump/"

* Replace **yourDatabaseName** with your actual database name.
* This will create a dump/ folder in the current directory containing:
  + BSON files for **all collections**.
  + Metadata files for **indexes**.

📌 **Example Output** (File Structure):

dump/

└── yourDatabaseName/

├── collection1.bson

├── collection1.metadata.json

├── collection2.bson

├── collection2.metadata.json

├── system.indexes.bson <--- Indexes are stored here!

✅ **This ensures that indexes are included!**

## ****🔹 Step 2: Import Database into MongoDB Atlas using**** mongorestore

Now, we will upload this dump into **MongoDB Atlas**.

### **1️⃣ Get the MongoDB Atlas Connection String**

* **Log in to MongoDB Atlas** → Open your **Cluster**.
* Click **"Connect"** → Choose **"Drivers"**.
* Copy the **MongoDB connection string**:
* mongodb+srv://yourUsername:<password>@cluster.mongodb.net/yourDatabaseName
  + Replace **yourUsername** and **<password>**.
  + Replace **yourDatabaseName** with the target database.

### **2️⃣ Run the** mongorestore **Command**

mongorestore --uri="mongodb+srv://yourUsername:<password>@cluster.mongodb.net/yourDatabaseName" dump/yourDatabaseName

* This will **restore all collections, documents, and indexes** into MongoDB Atlas.

✅ **After the upload is complete:**

* Open **MongoDB Atlas** → Check your database.
* Run:
* db.collection.getIndexes()

to confirm that indexes are imported.

## ****🛠 Alternative: Import Using Compass (For Individual Collections)****

If you want to import only **specific collections**, you can do this manually.

### **1️⃣ Export a Collection from Compass**

* Open **MongoDB Compass** → Select a **Database** → Choose a **Collection**.
* Click **"Export Collection"** (Top-Right).
* Choose **JSON** format.
* Save the file.

### **2️⃣ Import the Collection into Atlas**

* **Connect MongoDB Compass to Atlas**:
  + Click **"New Connection"**.
  + Paste the **MongoDB Atlas connection string**.
  + Click **"Connect"**.
* **Go to Target Database → Click "Add Data" → "Import Data"**.
* Select the **JSON file** and import.

## ****🎯 Conclusion****

### **Best Method for Full Database Migration (with Indexes)**

✅ **Use mongodump & mongorestore** (Indexes are included).

### **For Individual Collections**

✅ **Use Compass’s Import/Export feature**.