

Самостоятельная работа

Вариативная часть

Задание 2.1: Развертывание БД Mongo с помощью Docker

1. Извлечение контейнера mongoDB в качестве контейнера Docker

`docker pull mongo:latest`

2. Запуск контейнера:

`docker run -d -p 27017:27017 --name=mongo-example mongo:latest`

```
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\Ольга\Desktop> docker pull mongo:latest
latest: Pulling from library/mongo
Digest: sha256:eb47cdea510f092cad3e76d5a4e7135a6b7b7b0fcc27be15859e1a312c4e2c68
Status: Image is up to date for mongo:latest
docker.io/library/mongo:latest

What's Next?
View a summary of image vulnerabilities and recommendations → docker scout quickview mongo:latest
PS C:\Users\Ольга\Desktop> docker run -d -p 27017:27017 --name=mongo-example mongo:latest
5e4277dc36aa04473e24ff306d09be50547f8a33f43852322de693032dc4d562
PS C:\Users\Ольга\Desktop> docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                    NAMES
mongo:latest   "docker-entryp...  20 seconds ago       Up 18 seconds  0.0.0.0:27017->27017/tcp  mongo-example
```

`docker exec -it mongo-example mongosh` - подключение к оболочке MongoDB

```
PS C:\Users\Ольга\Desktop> docker exec -it mongo-example mongosh
Current Mongosh Log ID: 65f0551fa26d82ecb26fe9d8
Connecting to:  mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.1.5
Using MongoDB:  7.0.6
Using Mongosh:  2.1.5

For mongosh info see: https://docs.mongodb.com/mongosh-shell/

To help improve our products, anonymous usage data is collected and sent to MongoDB periodically (https://www.mongodb.com/legal/privacy-policy).
You can opt-out by running the disableTelemetry() command.
```

3. Создаем БД с именем dbTest

```
To help improve our products, anonymous usage data is collected and sent to MongoDB periodically (https://www.mongodb.com/legal/privacy-policy).
You can opt-out by running the disableTelemetry() command.

-----
The server generated these startup warnings when booting
2024-03-12T13:11:25.115+00:00: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine. See http://doc
hub.mongodb.org/core/prodnotes-filesystem
2024-03-12T13:11:25.655+00:00: Access control is not enabled for the database. Read and write access to data and configuration is
unrestricted
2024-03-12T13:11:25.655+00:00: /sys/kernel/mm/transparent_hugepage/enabled is 'always'. We suggest setting it to 'never'
2024-03-12T13:11:25.656+00:00: vm.max_map_count is too low
-----

test> use dbTest
switched to db dbTest
dbTest> |
```

4. Создание коллекции

```
test> use dbTest
switched to db dbTest
dbTest> db.createCollection('myFirstCollection')
{ ok: 1 }
dbTest> db.createCollection('myFirstCollection')
{ ok: 1 }
dbTest> |
```

5. Добавляем документ в коллекцию

```
{ ok: 1 }
dbTest> db.myFirstCollection.insert({item: "card1", qty: 10})
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('65f057a7a26d82ecb26fe9d9') }
}
```