

## Самостоятельная работа №1

### Вариативная часть. Задание 2.1

#### Развертывание БД Mongo с помощью Docker.

Загрузка образа MongoDB из репозитория Docker Hub:

```
C:\Users\Анастасия>docker pull mongo
Using default tag: latest
latest: Pulling from library/mongo
bccd10f490ab: Pull complete
af9fc3f4b6e2: Pull complete
8d7f3ab58bb1: Pull complete
c9d33d2943ba: Pull complete
72665428d050: Pull complete
37d2ccdf8e0a: Pull complete
3caa80570a18: Downloading  51.22MB/230.1MB
e24ae4ef8206: Download complete
```

```
C:\Users\Анастасия>docker pull mongo
Using default tag: latest
latest: Pulling from library/mongo
bccd10f490ab: Pull complete
af9fc3f4b6e2: Pull complete
8d7f3ab58bb1: Pull complete
c9d33d2943ba: Pull complete
72665428d050: Pull complete
37d2ccdf8e0a: Pull complete
3caa80570a18: Pull complete
e24ae4ef8206: Pull complete
Digest: sha256:5505a38a8c6044ace154376dfe4c94ac85f01c22585547efdd9483c4922dfa37
Status: Downloaded newer image for mongo:latest
docker.io/library/mongo:latest

What's Next?
  View a summary of image vulnerabilities and recommendations → docker scout quickview mongo
```

Создание контейнера:

```
C:\Users\Анастасия>docker run -d --name my-mongo-container mongo
9722d4067ef5cbec61196fdcb22c186446fb3319e7e15bb0de14da8b252654c1
```

**Containers** [Give feedback](#)

Container CPU usage ⓘ Container memory usage ⓘ Show charts

0.00% / 800% (8 CPUs available) 0B / 1.88GB

🔍 Search ☰ 🔴 Only running

<input type="checkbox"/>	Name	Image	Status	CPU (%)	Port(s)	Last sta	Actions
<input type="checkbox"/>	 <a href="#">my-mon</a> 9722d406	<a href="#">mongo</a>	Running	0%		21 seco	■ ⋮ 🗑️

### Установка сервера MongoDB:

```
C:\Users\Анастасия>с:\mongodb\bin\mongod
{"t":{"$date":"2024-04-05T14:36:09.034+03:00"},"s":"I", "c":"NETWORK", "id":4915701, "ctx":"threa
d1","msg":"Initialized wire specification","attr":{"spec":{"incomingExternalClient":{"minWireVersio
n":0,"maxWireVersion":21},"incomingInternalClient":{"minWireVersion":0,"maxWireVersion":21},"outgoin
g":{"minWireVersion":6,"maxWireVersion":21},"isInternalClient":true}}}
{"t":{"$date":"2024-04-05T14:36:10.758+03:00"},"s":"I", "c":"CONTROL", "id":23285, "ctx":"threa
d1","msg":"Automatically disabling TLS 1.0, to force-enable TLS 1.0 specify --sslDisabledProtocols
'none'"}}
{"t":{"$date":"2024-04-05T14:36:10.762+03:00"},"s":"I", "c":"NETWORK", "id":4648602, "ctx":"threa
d1","msg":"Implicit TCP FastOpen in use."}
{"t":{"$date":"2024-04-05T14:36:10.765+03:00"},"s":"I", "c":"REPL", "id":5123008, "ctx":"threa
d1","msg":"Successfully registered PrimaryOnlyService","attr":{"service":"TenantMigrationDonorServi
ce","namespace":"config.tenantMigrationDonors"}}
{"t":{"$date":"2024-04-05T14:36:10.765+03:00"},"s":"I", "c":"REPL", "id":5123008, "ctx":"threa
d1","msg":"Successfully registered PrimaryOnlyService","attr":{"service":"TenantMigrationRecipientS
ervice","namespace":"config.tenantMigrationRecipients"}}
{"t":{"$date":"2024-04-05T14:36:10.766+03:00"},"s":"I", "c":"CONTROL", "id":5945603, "ctx":"threa
d1","msg":"Multi threading initialized"}
{"t":{"$date":"2024-04-05T14:36:10.766+03:00"},"s":"I", "c":"TENANT_M", "id":7091600, "ctx":"threa
d1","msg":"Starting TenantMigrationAccessBlockerRegistry"}
{"t":{"$date":"2024-04-05T14:36:10.768+03:00"},"s":"I", "c":"CONTROL", "id":4615611, "ctx":"inita
ndlisten","msg":"MongoDB starting","attr":{"pid":17384,"port":27017,"dbPath":"C:/data/db/","archite
cture":"64-bit","host":"DESKTOP-M1U56T0"}}
{"t":{"$date":"2024-04-05T14:36:10.768+03:00"},"s":"I", "c":"CONTROL", "id":23398, "ctx":"inita
ndlisten","msg":"Target operating system minimum version","attr":{"targetMinOS":"Windows 7/Windows
```

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
Please enter a MongoDB connection string (Default: mongodb://localhost/):

Current Mongosh Log ID: 660fee6e8bd5d9991416c9b4
Connecting to:      mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.2.3
Using MongoDB:     7.0.8
Using Mongosh:     2.2.3

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.

-----
The server generated these startup warnings when booting
2024-04-05T15:27:51.817+03:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
2024-04-05T15:27:51.818+03:00: This server is bound to localhost. Remote systems will be unable to connect to this server. Start the server with --bind_ip <address> to specify which IP addresses it should serve responses from, or with --bind_ip_all to bind to all interfaces. If this behavior is desired, start the server with --bind_ip 127.0.0.1 to disable this warning
-----
test>
```

В коллекцию users базы данных test добавляем объект { name: "Tom" }, а также выводит на экран все объекты из бд test:

```
test> db.users.insertOne( { name: "Tom" } )
{
  acknowledged: true,
  insertedId: ObjectId('660fef588bd5d9991416c9b5')
}
test>
[ { _id: ObjectId('660fef588bd5d9991416c9b5'), name: 'Tom' } ]
```