

Docker compose up

PS D:\Навчання\Лабки\HLS\lab3> docker-compose up

[+] Running 26/26

- shard02-a Pulled

85.1s

- shard03-a Pulled

85.1s

- shard01-a Pulled

85.1s

- shard03-c Pulled

85.1s

- shard01-b Pulled

85.1s

- router01 Pulled

85.1s

- configsvr03 Pulled

85.1s

- 58690f9b18fc Pull complete

45.1s

- b51569e7c507 Pull complete

45.2s

- da8ef40b9eca Pull complete

45.2s

- fb15d46c38dc Pull complete

45.2s

- a0dc15b16822 Pull complete

45.3s

- b7a3e92f19af Pull complete

45.4s

- ed4a7b863fa1 Pull complete

45.4s

- a58b030ea8e4 Pull complete

45.5s

- 6aa1ba699846 Pull complete

45.5s

- ebc52c729dca Pull complete
45.5s

- 52e8c440d4d6 Pull complete
75.1s

- 22b97876323d Pull complete
75.2s

- shard03-b Pulled
85.1s

- shard02-c Pulled
85.1s

- shard01-c Pulled
85.1s

- shard02-b Pulled
85.1s

- router02 Pulled
85.1s

- configsvr02 Pulled
85.1s

- configsvr01 Pulled
85.1s

[+] Running 15/15

- Network lab3_default Created
0.0s

- Container router-02 Created
0.3s

- Container shard-03-node-a Created
0.3s

- Container shard-01-node-a Created
0.3s

- Container shard-01-node-b Created
0.3s

- Container shard-02-node-c Created
0.3s

- Container shard-01-node-c Created
0.3s

- Container router-01 Created

0.3s

- Container shard-03-node-c Created

0.3s

- Container shard-02-node-b Created

0.3s

- Container shard-02-node-a Created

0.3s

- Container mongo-config-02 Created

0.3s

- Container mongo-config-03 Created

0.3s

- Container shard-03-node-b Created

0.3s

- Container mongo-config-01 Created

0.3s

Attaching to mongo-config-01, mongo-config-02, mongo-config-03, router-01, router-02, shard-01-node-a, shard-01-node-b, shard-01-node-c, shard-02-node-a, shard-02-node-b, shard-02-node-c, shard-03-node-a, shard-03-node-b, shard-03-node-c

init_rs.sh

```
PS D:\Навчання\Лабки\HLS\lab3> docker-compose exec configsvr01 sh -c "mongo < /scripts/init-configserver.js"
```

MongoDB shell version v4.0.28

connecting to: mongodb://127.0.0.1:27017/?gssapiServiceName=mongodb

Implicit session: session { "id" : UUID("d6608b9e-15fa-4412-a87c-56e009e54be3") }

MongoDB server version: 4.0.28

```
{
  "operationTime" : Timestamp(1671368875, 2),
  "ok" : 0,
  "errmsg" : "already initialized",
  "code" : 23,
  "codeName" : "AlreadyInitialized",
  "$gleStats" : {
    "lastOpTime" : Timestamp(0, 0),
    "electionId" : ObjectId("7fffffff0000000000000001")
  },
  "$clusterTime" : {
    "clusterTime" : Timestamp(1671368875, 2),
    "signature" : {
      "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAA="),
      "keyId" : NumberLong(0)
    }
  }
}
```

bye

```
PS D:\Навчання\Лабки\HLS\lab3> docker-compose exec shard01-a sh -c "mongo < /scripts/init-shard01.js"
```

MongoDB shell version v4.0.28

connecting to: mongodb://127.0.0.1:27017/?gssapiServiceName=mongodb

Implicit session: session { "id" : UUID("17b2b4c2-0fc4-40da-9b0f-6f3c8d03d953") }

MongoDB server version: 4.0.28

```
{
  "operationTime" : Timestamp(1671368875, 1),
  "ok" : 0,
  "errmsg" : "already initialized",
  "codeName" : "AlreadyInitialized",
  "$clusterTime" : {
    "clusterTime" : Timestamp(1671368875, 1),
    "signature" : {
      "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAA="),
      "keyId" : NumberLong(0)
    }
  }
}
```

bye

PS D:\Навчання\Лабки\HLS\lab3> docker-compose exec shard02-a sh -c "mongo < /scripts/init-shard02.js"

MongoDB shell version v4.0.28

connecting to: mongodb://127.0.0.1:27017/?gssapiServiceName=mongodb

Implicit session: session { "id" : UUID("6172740b-0733-411e-a8cc-dce274ddb6f6") }

MongoDB server version: 4.0.28

```
{
  "operationTime" : Timestamp(1671368875, 1),
  "ok" : 0,
  "errmsg" : "already initialized",
  "code" : 23,
  "codeName" : "AlreadyInitialized",
  "$clusterTime" : {
    "clusterTime" : Timestamp(1671368875, 1),
    "signature" : {
```

```
        "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAA="),
        "keyId" : NumberLong(0)
    }
}
```

```
}
```

bye

```
PS D:\Навчання\Лабки\HLS\lab3> docker-compose exec shard03-a sh -c "mongo < /scripts/init-shard03.js"
```

MongoDB shell version v4.0.28

connecting to: mongodb://127.0.0.1:27017/?gssapiServiceName=mongodb

Implicit session: session { "id" : UUID("a863141e-6bda-4d08-8b0a-fcd305b34710") }

MongoDB server version: 4.0.28

```
{
  "operationTime" : Timestamp(1671368881, 1),
  "ok" : 0,
  "errmsg" : "already initialized",
  "code" : 23,
  "codeName" : "AlreadyInitialized",
  "$clusterTime" : {
    "clusterTime" : Timestamp(1671368881, 1),
    "signature" : {
      "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAA="),
      "keyId" : NumberLong(0)
    }
  }
}
```

bye

docker-compose exec router01 sh -c "mongo < .scripts/init-router.js"

```
docker-compose exec router01 sh -c "mongo < /scripts/init-router.js"
```

MongoDB shell version v4.0.28

connecting to: mongodb://127.0.0.1:27017/?gssapiServiceName=mongodb

Implicit session: session { "id" : UUID("eaca4171-148c-49f1-a970-99a10ff57068") }

MongoDB server version: 4.0.28

```
{
  "shardAdded" : "rs-shard-01",
  "ok" : 1,
  "operationTime" : Timestamp(1671368976, 7),
  "$clusterTime" : {
    "clusterTime" : Timestamp(1671368976, 7),
    "signature" : {
      "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAA="),
      "keyId" : NumberLong(0)
    }
  }
}
{
  "shardAdded" : "rs-shard-01",
  "ok" : 1,
  "operationTime" : Timestamp(1671368976, 7),
  "$clusterTime" : {
    "clusterTime" : Timestamp(1671368976, 7),
    "signature" : {
      "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAA="),
      "keyId" : NumberLong(0)
    }
  }
}
```

```

{
  "shardAdded" : "rs-shard-01",
  "ok" : 1,
  "operationTime" : Timestamp(1671368976, 7),
  "$clusterTime" : {
    "clusterTime" : Timestamp(1671368976, 7),
    "signature" : {
      "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAA="),
      "keyId" : NumberLong(0)
    }
  }
}

{
  "shardAdded" : "rs-shard-02",
  "ok" : 1,
  "operationTime" : Timestamp(1671368976, 12),
  "$clusterTime" : {
    "clusterTime" : Timestamp(1671368976, 12),
    "signature" : {
      "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAA="),
      "keyId" : NumberLong(0)
    }
  }
}

{
  "shardAdded" : "rs-shard-02",
  "ok" : 1,
  "operationTime" : Timestamp(1671368976, 12),
  "$clusterTime" : {
    "clusterTime" : Timestamp(1671368976, 12),

```



```

        "signature" : {
            "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAA="),
            "keyId" : NumberLong(0)
        }
    }
}
{
    "shardAdded" : "rs-shard-02",
    "ok" : 1,
    "operationTime" : Timestamp(1671368976, 12),
    "$clusterTime" : {
        "clusterTime" : Timestamp(1671368976, 12),
        "signature" : {
            "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAA="),
            "keyId" : NumberLong(0)
        }
    }
}
{
    "shardAdded" : "rs-shard-03",
    "ok" : 1,
    "operationTime" : Timestamp(1671368976, 16),
    "$clusterTime" : {
        "clusterTime" : Timestamp(1671368976, 16),
        "signature" : {
            "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAA="),
            "keyId" : NumberLong(0)
        }
    }
}
}

```

```
{
  "shardAdded" : "rs-shard-03",
  "ok" : 1,
  "operationTime" : Timestamp(1671368976, 16),
  "$clusterTime" : {
    "clusterTime" : Timestamp(1671368976, 16),
    "signature" : {
      "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA="),
      "keyId" : NumberLong(0)
    }
  }
}
{
  "shardAdded" : "rs-shard-03",
  "ok" : 1,
  "operationTime" : Timestamp(1671368976, 16),
  "$clusterTime" : {
    "clusterTime" : Timestamp(1671368976, 16),
    "signature" : {
      "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA="),
      "keyId" : NumberLong(0)
    }
  }
}
bye
```

rides.csv

MongoDB shell version v4.0.28

connecting to: mongodb://127.0.0.1:27017/?gssapiServiceName=mongodb

Implicit session: session { "id" : UUID("2e4c25c2-81bd-43a5-b793-248dcb1fcca8") }

MongoDB server version: 4.0.28

```
{
  "operationTime" : Timestamp(1671374483, 3),
  "$clusterTime" : {
    "signature" : {
      "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAA="),
      "keyId" : NumberLong(0)
    }
  }
}
{
  "collectionsharded" : "taxi.rides",
  "collectionUUID" : UUID("07e742a5-e7d4-456c-9295-556b462e76be"),
  "ok" : 1,
  "operationTime" : Timestamp(1671374484, 24),
  "$clusterTime" : {
    "clusterTime" : Timestamp(1671374484, 24),
    "signature" : {
      "hash" : BinData(0,"AAAAAAAAAAAAAAAAAAAAAAAAAAAA="),
      "keyId" : NumberLong(0)
    }
  }
}
bye
```

PS D:\Навчання\Лабки\HLS\lab3> docker-compose exec router01 sh -c "mongoimport --port 27017 -d taxi -c rides --type csv --file /data/rides.csv --headerline"

2022-12-18T14:41:26.214+0000 connected to: localhost:27017

2022-12-18T14:41:26.319+0000 imported 1000 documents

PS D:\Навчання\Лабки\HLS\lab3> docker-compose exec router01 sh -c "mongo < /scripts/query.js"

MongoDB shell version v4.0.28

connecting to: mongodb://127.0.0.1:27017/?gssapiServiceName=mongodb

Implicit session: session { "id" : UUID("0f74e75c-259c-4316-b336-a22196f8fa67") }

MongoDB server version: 4.0.28

switched to db taxi

100

bye