```
Maximilians-MBP:~ mschwarzmueller$ mongo
MongoDB shell version v4.0.2
connecting to: mongodb://127.0.0.1:27017
MongoDB server version: 4.0.2
> use admin
switched to db admin
> db.createUser({user: "max", pwd: "max", roles: ["userAdminAnyDatabase"]})
Successfully added user: { "user" : "max", "roles" : [ "userAdminAnyDatabase" ] }
>
```

```
> db.auth('max', 'max')
1
> use admin
switched to db admin
> show dbs
admin   0.000GB
config  0.000GB
local   0.000GB
> show collections
>
```

```
Maximilians-MBP:~ mschwarzmueller$
Maximilians-MBP:~ mschwarzmueller$ mongo -u max -p max --authenticationDatabase admin
MongoDB shell version v4.0.2
```

```
connecting to: mongodb://127.0.0.1:27017
MongoDB server version: 4.0.2
> use shop
switched to db shop
> db.createUser({user: 'appdev', pwd: 'dev', roles: ["readWrite"]})
Successfully added user: { "user" : "appdev", "roles" : [ "readWrite" ] }
> db.auth('appdev', 'dev')
1
>
```

```
Maximilians-MBP:~ mschwarzmueller$ mongo -u appdev -p dev --authenticationDatabase shop
MongoDB shell version v4.0.2
connecting to: mongodb://127.0.0.1:27017
MongoDB server version: 4.0.2
>
```

```
> use shop
switched to db shop
> db.products.insertOne({name: 'A Book'})
{

        "acknowledged" : true,
        "insertedId" : ObjectId("5b9bb11a60638a96a9d351b5")
}
>
```

```
@(shell):1:1
> db.logout()
{ "ok" : 1 }
>
```

```
> db.auth('max', 'max')
Error: Authentication failed.
0
> use admin
switched to db admin
> db.auth('max', 'max')
1
```

```
> use shop
switched to db shop
> db.updateUser("appdev", {roles: ["readWrite", {role: "readWrite", db: "blog"}]})
> db.getUser("appdev")
{
        "_id" : "shop.appdev",
        "user" : "appdev",
        "db" : "shop",
        "roles" : [
                {
                        "role" : "readWrite",
                        "db" : "shop"
                },
                {
                        "role" : "readWrite",
                        "db" : "blog"
                }
        ],
        "mechanisms" : [
                "SCRAM-SHA-1",
                "SCRAM-SHA-256"
        ]
}
>
```

```
> use blog
switched to db blog
> db.posts.insertOne({title: "This works!"})
{
        "acknowledged" : true,
        "insertedId" : ObjectId("5b9bb2c4660af9acdb64ef14")
}
>
```

```
Maximilians-MBP:Desktop mschwarzmueller$ openssl req -newkey rsa:2048 -new -x509 -days 365 -nodes -out
 mongodb-cert.crt -keyout mongodb-cert.key
Generating a 2048 bit RSA private key
........................+++
.+++
writing new private key to 'mongodb-cert.key'
-----
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
-----
Country Name (2 letter code) [AU]:DE
State or Province Name (full name) [Some-State]:Bavaria
Locality Name (eg, city) []:Munich
Organization Name (eg, company) [Internet Widgits Pty Ltd]:Academind GmbH
Organizational Unit Name (eg, section) []:Dev
Common Name (e.g. server FQDN or YOUR name) []:localhost
Email Address []:max@test.com
Maximilians-MBP:Desktop mschwarzmueller$
```

```
Email Address []:max@test.com
Maximilians-MBP:Desktop mschwarzmueller$ type mongodb-cert.key mongodb-cert.crt > mongodb.pem
```

```
Maximilians-MBP:Desktop mschwarzmueller$ mongod --sslMode requireSSL --sslPEMKeyFile mongodb.pem
2018-09-14T15:38:01.451+0200 I CONTROL  [main] Automatically disabling TLS 1.0, to force-enable TLS 1.
0 specify --sslDisabledProtocols 'none'
2018-09-14T15:38:01.589+0200 I CONTROL  [initandlisten] MongoDB starting : pid=47662 port=27017 dbpath
=/data/db 64-bit host=Maximilians-MBP.fritz.box
2018-09-14T15:38:01.589+0200 I CONTROL  [initandlisten] db version v4.0.2
2018-09-14T15:38:01.589+0200 I CONTROL  [initandlisten] git version: fc1573ba18aee42f97a3bb13b67af7d83
7826b47
2018-09-14T15:38:01.589+0200 I CONTROL  [initandlisten] allocator: system
2018-09-14T15:38:01.589+0200 I CONTROL  [initandlisten] modules: none
2018-09-14T15:38:01.589+0200 I CONTROL  [initandlisten] build environment:
2018-09-14T15:38:01.589+0200 I CONTROL  [initandlisten]     distarch: x86_64
2018-09-14T15:38:01.589+0200 I CONTROL  [initandlisten]     target_arch: x86_64
2018-09-14T15:38:01.589+0200 I CONTROL  [initandlisten] options: { net: { ssl: { PEMKeyFile: "mongodb.
pem", mode: "requireSSL" } } }
```

```
exception: connect failed
Maximilians-MBP:Desktop mschwarzmueller$ mongo --ssl --sslCAFile mongodb.pem --host localhost
```