

Import the public key used by the package management system.

```
wget -qO - https://www.mongodb.org/static/pgp/server-4.4.asc | sudo apt-key add -
```

The operation should respond with an OK

Create a list file for MongoDB.

```
echo "deb [ arch=amd64,arm64 ] https://repo.mongodb.org/apt/ubuntu bionic/mongodb-org/4.4 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-4.4.list
```

Reload local package database.

```
sudo apt-get update
```

Install the MongoDB packages.

```
sudo apt-get install -y mongodb-org
```

Start MongoDB.

```
sudo systemctl start mongod
```

Verify that MongoDB has started successfully.

```
sudo systemctl status mongod
```

How to connect to your remote MongoDB server

1. Set up your user

```
mongo

>use OrderDB

db.createUser({
  user: 'mongouser',
  pwd: 'mongouser',
  roles: [{ role: 'readWrite', db:'OrderDB'}]
})
```

2. Enable auth and open MongoDB access up to all IPs

```
sudo vi /etc/mongod.conf
```

- Look for the `net` line and comment out the `bindIp` line under it, which is currently limiting MongoDB connections to *localhost*:

```
• # network interfaces
• net:
•   port: 27017
•   bindIp: 0.0.0.1
```

- Scroll down to the `#security:` section and add the following line. Make sure to un-comment the `security:` line.

```
security

authorization: 'enabled'
```

3. Open port 27017 on your EC2 instance

Go to your EC2 dashboard: <https://console.aws.amazon.com/ec2/>

Go to Instances and scroll down to see your instance's Security Groups. Eg, it will be something like launch-wizard-4

Go to Network & Security -> Security Groups -> Inbound tab -> Edit button.

Make a new Custom TCP on port 27017, Source: Anywhere, 0.0.0.0/0

3. Last step: restart mongo daemon (mongod)

```
sudo service mongod restart
```

Logging in using the mongo shell on your laptop

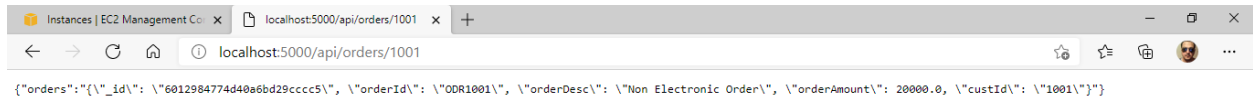
```
mongo -u mongouser -p mongouser 18.219.63.21/OrderDB
```

```
C:\Program Files\MongoDB\Server\4.4\bin>mongo -u mongouser -p mongouser 18.219.63.21/OrderDB
```

```
C:\Program Files\MongoDB\Server\4.4\bin>mongo -u mongouser -p mongouser 18.219.63.21/OrderDB
MongoDB shell version v4.4.3
connecting to: mongodb://18.219.63.21:27017/OrderDB?compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("b9b9d11a-50d6-4605-900b-5155c97303a9") }
MongoDB server version: 4.4.3
>
```

Using pymongo with your remote MongoDB server

```
myclient = pymongo.MongoClient("mongodb://mongouser:mongouser@18.219.63.21:27017/OrderDB")
```



The screenshot shows a web browser window with two tabs. The active tab is titled 'localhost:5000/api/orders/1001'. The address bar shows the URL 'localhost:5000/api/orders/1001'. The page content displays a JSON object: `{"orders": {"_id": "\6012984774d40a6bd29cccc5\", \"orderId\": \"00R1001\", \"orderDesc\": \"Non Electronic Order\", \"orderAmount\": 20000.0, \"custId\": \"1001\"}}`