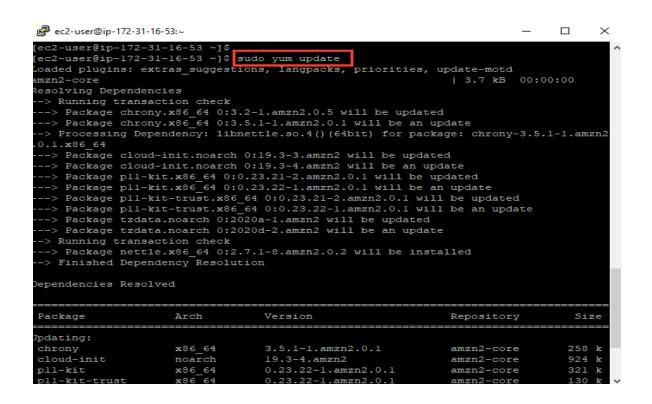
Installing MongoDB Community Version in Amazon EC2 Instance

Prerequisite:

- Make sure you have set up MyIP in your instance's inbound security group.
- Connect to your EC2 instance.
- Run the following command to apply any available updates.

sudo yum update



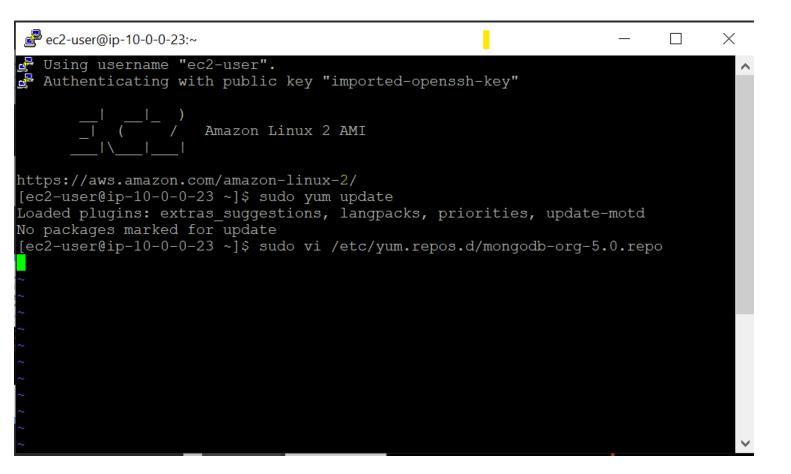
Once you hit enter; after some time, the terminal will ask - "Is this ok [y/d/N]" You need to type y



• In the next step, create a /etc/yum.repos.d/mongodb-org-5.0.repo file .

This will ensure that you can install MongoDB directly using yum:

Command :- sudo vi /etc/yum.repos.d/mongodb-org-5.0.repo



- Hit "Enter" and to enter the editing mode, press i on the keyboard.
- As soon as you do that, you will be able to see '~~INSERT' at the bottom of the terminal.



• Copy-paste the below command in the terminal.

```
[mongodb-org-5.0]
name=MongoDB Repository
baseurl=https://repo.mongodb.org/yum/amazon/2/mongodb-org/5.0/x86_64/
gpgcheck=1
enabled=1
gpgkey=https://www.mongodb.org/static/pgp/server-5.0.asc
```

- To exit the vi editor
 - a. Press **Escape** on your keyboard.
 - **b.** Type the **write-quit** command :wq!
 - c. If you don't wish to save the changes, type quit command :q!
 - d. Hit Enter



• To install the latest stable version of MongoDB, issue the following command:

sudo yum install -y mongodb-org

```
[ec2-user@ip-172-31-16-53 ~] sudo yum install -y mongodb-org
```

Once finished, the "completed" message should be displayed.

```
ec2-user@ip-172-31-16-53:~
 Installing : mongodb-database-tools-100.2.1-1.x86_64
 Installing : mongodb-org-database-tools-extra-4.4.3-1.amzn2.x86_64
 Installing : mongodb-org-tools-4.4.3-1.amzn2.x86_64
Installing: mongodb-org-server-4.4.3-1.amzn2.x86_64 8/9
Created symlink from /etc/systemd/system/multi-user.target.wants/mongod.service
to /usr/lib/systemd/system/mongod.service.
 Installing: mongodb-org-4.4.3-1.amzn2.x86 64
 Verifying : mongodb-org-4.4.3-1.amzn2.x86 64
 Verifying : mongodb-org-server-4.4.3-1.amzn2.x86 64
 Verifying : mongodb-org-database-tools-extra-4.4.3-1.amzn2.x86_64
 Verifying : cyrus-sas1-2.1.26-23.amzn2.x86_64
 Verifying : mongodb-org-shell-4.4.3-1.amzn2.x86_64
 Verifying : mongodb-org-tools-4.4.3-1.amzn2.x86_64
 Verifying : cyrus-sas1-gssap1-2.1.26-23.amzn2.x86_64
Verifying : mongodb-database-tools-100.2.1-1.x86_64
                                                                                             8/9
9/9
 Verifying : mongodb-org-mongos-4.4.3-1.amzn2.x86_64
nstalled:
 mongodb-org.x86_64 0:4.4.3-1.amzn2
ependency Installed:
 cyrus-sasl.x86_64 0:2.1.26-23.amzn2
 cyrus-sasl-gssapi.x86_64 0:2.1.26-23.amzn2
 mongodb-database-tools.x86_64 0:100.2.1-1
mongodb-org-database-tools-extra.x86_64 0:4.4.3-1.amzn2 mongodb-org-mongos.x86_64 0:4.4.3-1.amzn2
mongodb-org-server.x86_64 0:4.4.3-1.amzn2
mongodb-org-shell.x86_64 0:4.4.3-1.amzn2
mongodb-org-tools.x86_64 0:4.4.3-1.amzn2
  mplete!
  c2-user@ip-172-31-16-53 ~]$
```

To connect to this MongoDB instance from anywhere, you need to modify the config file.
 This will open MongoDB port [27017] for all IPs

Command for modifying config files- sudo vi /etc/mongod.conf

```
ec2-user@ip-172-31-16-53:~
                                                                         Х
[ec2-user@ip-172-31-16-53 ~]$ sudo vi /etc/mongod.conf
 mongod.conf
# for documentation of all options, see:
   http://docs.mongodb.org/manual/reference/configuration-options/
# where to write logging data.
systemLog:
 destination: file
 logAppend: true
 path: /var/log/mongodb/mongod.log
# Where and how to store data.
storage:
 dbPath: /var/lib/mongo
 journal:
   enabled: true
  engine:
  wiredTiger:
# how the process runs
processManagement:
  fork: true # fork and run in background
 pidFilePath: /var/run/mongodb/mongod.pid # location of pidfile
```

• Hit "Enter" and to enter the editing mode, press i on the keyboard. As soon as you do that, you will be able to see '~~INSERT' at the bottom of the terminal.



• Scroll down and come to bindlp in network interfaces

```
ec2-user@ip-172-31-16-53:~
                                                                         X
# how the process runs
processManagement:
 fork: true # fork and run in background
 pidFilePath: /var/run/mongodb/mongod.pid # location of pidfile
 timeZoneInfo: /usr/share/zoneinfo
 network interfaces
net:
 port: 27017
 bindIp: 127.0.0.1 # Enter 0.0.0.0,:: to bind to all IPv4 and IPv6 addresses o
 , alternatively, use the net.bindIpAll setting.
#security:
#operationProfiling:
#replication:
#sharding:
## Enterprise-Only Options
```

- Change the bindlp address from 127.0.0.1 to 0.0.0.0 . To exit the vi editor-
 - Press **Escape** on your keyboard.
 - Type the write-quit command -:wq!
 - If you don't wish to save the changes, type quit command -:q!
 - Hit Enter

```
# ec2-user@ip-172-31-16-53:~

# how the process runs
processManagement:
fork: true # fork and run in background
pidFilePath: /var/run/mongodb/mongod.pid # location of pidfile
timeZoneInfo: /usr/share/zoneinfo

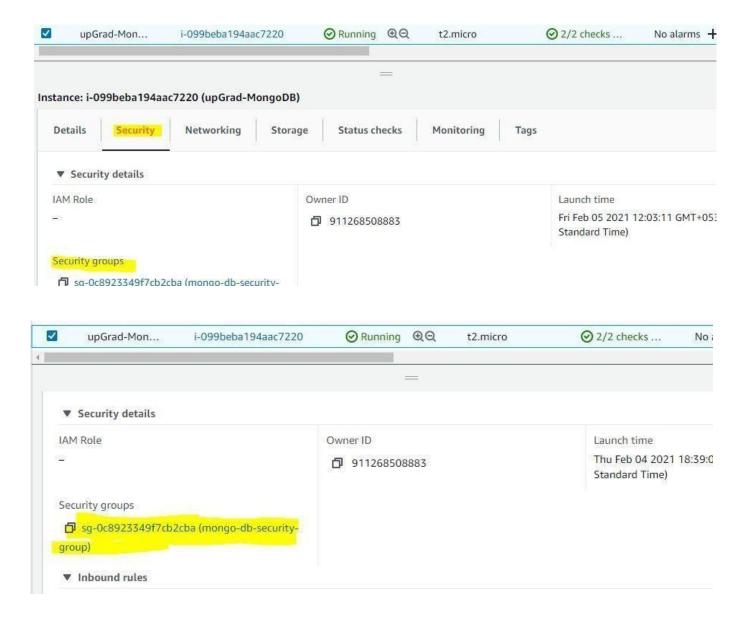
# netWork Interfaces
net:
port: 27017
bindIp: 0.0.0.0 # Enter 0.0.0.0,:: to bind to all IPv4 and IPv6 addresses
or, alternatively, use the net.bindIpAll setting.

#security:
#sperationProfiling:
#replication:
#sharding:
## Enterprise-Only Options
```

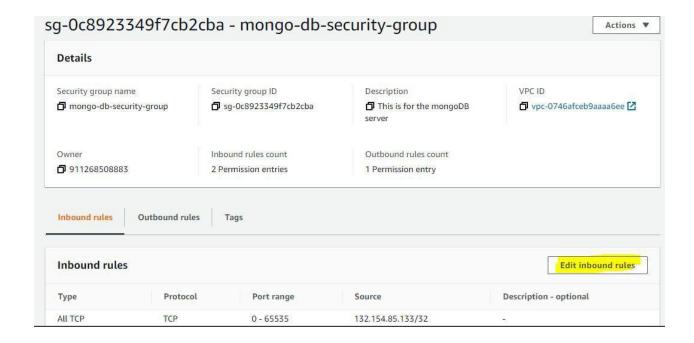




 Now go to your AWS instance and select your instance. Go to Security Groups and click on the Security Group name.

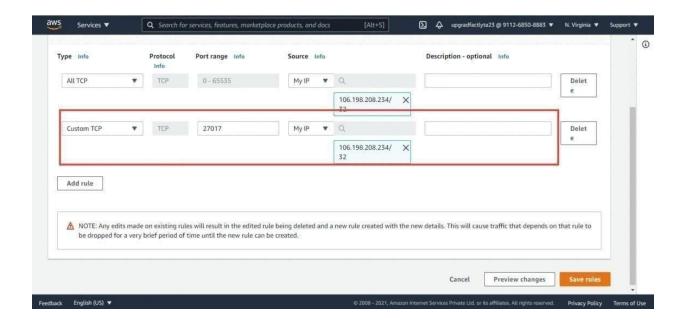


• Select Inbound Rules and click on Edit inbound rules.

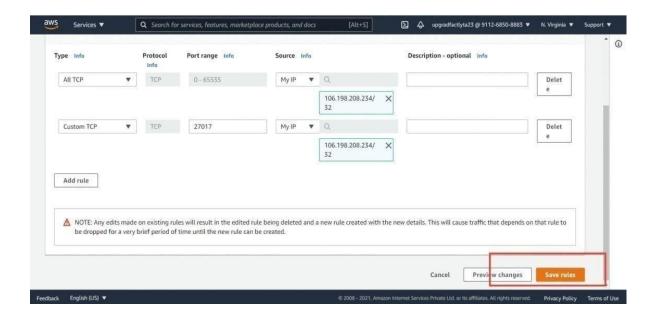


· Click on Add Rules and input the below details-

Type- Custom TCP
Port Range- 27017
Source - My IP (Select it from the drop-down)



Click on Save rules



 MongoDB is installed in your EC2 instance, Mongo ports have also been opened, now you can start your mongo server using the below command.

sudo service mongod start

To access the mongo shell, enter the below command.

mongo

```
ec2-user@ip-172-31-16-53:~
                                                                             X
Redirecting to /bin/systemctl start mongod.service
ec2-user@ip-172-31-16-53 ~]$ mongo
ongoDB shell version v4.4.3
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName
mongodb=
Implicit session: session { "id": UUID("8869a8f0-059f-4873-902b-6e447db0cc55")
MongoDB server version: 4.4.3
The server generated these startup warnings when booting:
       2021-01-15T09:32:49.718+00:00: Access control is not enabled for the dat
abase. Read and write access to data and configuration is unrestricted
       Enable MongoDB's free cloud-based monitoring service, which will then re
ceive and display
       metrics about your deployment (disk utilization, CPU, operation statisti
cs, etc).
       The monitoring data will be available on a MongoDB website with a unique
URL accessible to you
       and anyone you share the URL with. MongoDB may use this information to m
ake product
       improvements and to suggest MongoDB products and deployment options to y
       To enable free monitoring, run the following command: db.enableFreeMonit
oring()
        To permanently disable this reminder, run the following command: db.disa
bleFreeMonitoring()
```

• Now you are ready to write your MongoDB commands.

```
ec2-user@ip-172-31-16-53:~
                                                                             ×
MongoDB server version: 4.4.3
The server generated these startup warnings when booting:
        2021-01-15T09:32:49.718+00:00: Access control is not enabled for the dat
abase. Read and write access to data and configuration is unrestricted
        Enable MongoDB's free cloud-based monitoring service, which will then re
ceive and display
       metrics about your deployment (disk utilization, CPU, operation statisti
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 URL accessible to you
        and anyone you share the URL with. MongoDB may use this information to m
ake product
        improvements and to suggest MongoDB products and deployment options to y
        To enable free monitoring, run the following command: db.enableFreeMonit
oring()
        To permanently disable this reminder, run the following command: db.disa
bleFreeMonitoring()
> use demoDB
switched to db demoDB
 db.createCollection("learners profiles")
 "ok" : 1 }
 show collections
learners profile
learners profiles
```

To come out of the mongo shell the command is- quit() or use the
 Ctrl-C> shortcut.

```
ec2-user@ip-172-31-16-53:~
                                                                              ×
The server generated these startup warnings when booting:
        2021-01-15T09:32:49.718+00:00: Access control is not enabled for the databas
e. Read and write access to data and configuration is unrestricted
        Enable MongoDB's free cloud-based monitoring service, which will then receiv
e and display
        metrics about your deployment (disk utilization, CPU, operation statistics,
etc).
        The monitoring data will be available on a MongoDB website with a unique URL
 accessible to you
        and anyone you share the URL with. MongoDB may use this information to make
product
        improvements and to suggest MongoDB products and deployment options to you.
        To enable free monitoring, run the following command: db.enableFreeMonitorin
        To permanently disable this reminder, run the following command: db.disableF
reeMonitoring()
> show dbs
admin
       0.000GB
config
       0.000GB
demoDB
       0.000GB
local
        0.000GB
> quit()
[ec2-user@ip-172-31-16-53 ~]$ sudo service mongod stop
Redirecting to /bin/systemctl stop mongod.service
[ec2-user@ip-172-31-16-53 ~]$
```

• To stop the mongodb server, the command is-

sudo service mongod stop

```
ec2-user@ip-172-31-16-53:~
                                                                              ×
The server generated these startup warnings when booting:
        2021-01-15T09:32:49.718+00:00: Access control is not enabled for the databas
e. Read and write access to data and configuration is unrestricted
        Enable MongoDB's free cloud-based monitoring service, which will then receiv
 and display
       metrics about your deployment (disk utilization, CPU, operation statistics,
etc).
        The monitoring data will be available on a MongoDB website with a unique URL
 accessible to you
        and anyone you share the URL with. MongoDB may use this information to make
product
        improvements and to suggest MongoDB products and deployment options to you.
        To enable free monitoring, run the following command: db.enableFreeMonitorin
g()
        To permanently disable this reminder, run the following command: db.disableF
reeMonitoring()
> show dbs
admin
       0.000GB
config 0.000GB
demoDB 0.000GB
        0.000GB
local
test
        0.000GB
[ec2-user@ip-172-31-16-53 ~]$ sudo service mongod stop
Redirecting to /bin/systemctl stop mongod.service
[ec2-user@ip-172-31-16-53 ~]$
```

Refer to standard documentation of MongoDB Community, in case you are stuck somewhere