

Preparation of MongoDB in EMR Cluster

Create file repo for installing Mongo

```
sudo vim /etc/yum.repos.d/mongodb-org-7.0.repo
```

```
[mongodb-org-7.0]
```

```
name=MongoDB Repository
```

```
baseurl=https://repo.mongodb.org/yum/redhat/9/mongodb-org/7.0/x86_64/RPMS
```

```
gpgcheck=1
```

```
enabled=1
```

```
gpgkey=https://www.mongodb.org/static/pgp/server-7.0.asc
```

Install MongoDB

```
sudo yum install -y mongodb-org
```

```
[hadoop@ip-172-31-74-8 ~]$ sudo vim /etc/yum.repos.d/mongodb-org-7.0.repo
[hadoop@ip-172-31-74-8 ~]$ sudo yum install -y mongodb-org
MongoDB Repository
Dependencies resolved.
170 kB/s | 24 kB  00:00
```

Package	Architecture	Version	Repository	Size
Installing:				
mongodb-org	x86_64	7.0.5-1.el9	mongodb-org-7.0	9.3 k
Installing dependencies:				
cyrus-sasl	x86_64	2.1.27-18.amzn2023.0.3	amazonlinux	73 k
mongodb-database-tools	x86_64	100.9.4-1	mongodb-org-7.0	28 M
mongodb-mongosh	x86_64	2.1.3-1.el8	mongodb-org-7.0	51 M
mongodb-org-database	x86_64	7.0.5-1.el9	mongodb-org-7.0	9.4 k
mongodb-org-database-tools-extra	x86_64	7.0.5-1.el9	mongodb-org-7.0	14 k
mongodb-org-mongos	x86_64	7.0.5-1.el9	mongodb-org-7.0	24 M
mongodb-org-server	x86_64	7.0.5-1.el9	mongodb-org-7.0	35 M
mongodb-org-tools	x86_64	7.0.5-1.el9	mongodb-org-7.0	9.3 k

```
Transaction Summary
Install 9 Packages

Total download size: 137 M
Installed size: 604 M
Downloading Packages:
(1/9): cyrus-sasl-2.1.27-18.amzn2023.0.3.x86_64.rpm 779 kB/s | 73 kB 00:00
(2/9): mongodb-org-7.0.5-1.el9.x86_64.rpm 183 kB/s | 9.3 kB 00:00
(3/9): mongodb-org-database-7.0.5-1.el9.x86_64.rpm 198 kB/s | 9.4 kB 00:00
(4/9): mongodb-org-database-tools-extra-7.0.5-1.el9.x86_64.rpm 286 kB/s | 14 kB 00:00
(5/9): mongodb-mongosh-2.1.3.x86_64.rpm 40 MB/s | 51 MB 00:01
(6/9): mongodb-database-tools-100.9.4.x86_64.rpm 19 MB/s | 28 MB 00:01
(7/9): mongodb-org-mongos-7.0.5-1.el9.x86_64.rpm 18 MB/s | 24 MB 00:01
(8/9): mongodb-org-tools-7.0.5-1.el9.x86_64.rpm 55 kB/s | 9.3 kB 00:00
(9/9): mongodb-org-server-7.0.5-1.el9.x86_64.rpm 43 MB/s | 35 MB 00:00

Total 64 MB/s | 137 MB 00:02
MongoDB Repository
Importing GPG key 0x1785BA38:
  Userid : "MongoDB 7.0 Release Signing Key <packaging@mongodb.com>"
  Fingerprint: E588 3020 1F7D D82C D808 AA84 160D 26BB 1785 BA38
  From : https://pgp.mongodb.com/server-7.0.asc
Key imported successfully
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing :
  Installing : mongodb-org-database-tools-extra-7.0.5-1.el9.x86_64 1/1
  Running scriptlet: mongodb-org-server-7.0.5-1.el9.x86_64 2/9
  Installing : mongodb-org-server-7.0.5-1.el9.x86_64 2/9
```

Start MongoDB and check status

`sudo systemctl start mongod`

`sudo systemctl status mongod`

```
[hadoop@ip-172-31-74-8 ~]$ sudo systemctl start mongod
[hadoop@ip-172-31-74-8 ~]$ sudo systemctl status mongod
● mongod.service - MongoDB Database Server
   Loaded: loaded (/usr/lib/systemd/system/mongod.service; enabled; preset: disabled)
   Active: active (running) since Thu 2024-02-08 06:58:29 UTC; 12s ago
     Docs: https://docs.mongodb.org/manual
    Main PID: 43092 (mongod)
      Memory: 81.9M
         CPU: 851ms
    CGroup: /system.slice/mongod.service
            └─43092 /usr/bin/mongod -f /etc/mongod.conf

Feb 08 06:58:29 ip-172-31-74-8.ec2.internal systemd[1]: Started mongod.service - MongoDB Database Server.
Feb 08 06:58:29 ip-172-31-74-8.ec2.internal mongod[43092]: {"t":{"$date":"2024-02-08T06:58:29.412Z"},"s":"I",  "c":"CONTROL",  "id":7484500, "ctx":"main","msg":"Environment variable MONGODB"}
lines 1-12/12 (END)
```