

PART 3 – MongoDB

0. Install mongoDB

<https://www.8host.com/blog/ustanovka-mongodb-v-centos-7/>

```
nano /etc/yum.repos.d/mongodb-org.repo
```

add to file:

```
[mongodb-org-3.2]
```

```
name=MongoDB Repository
```

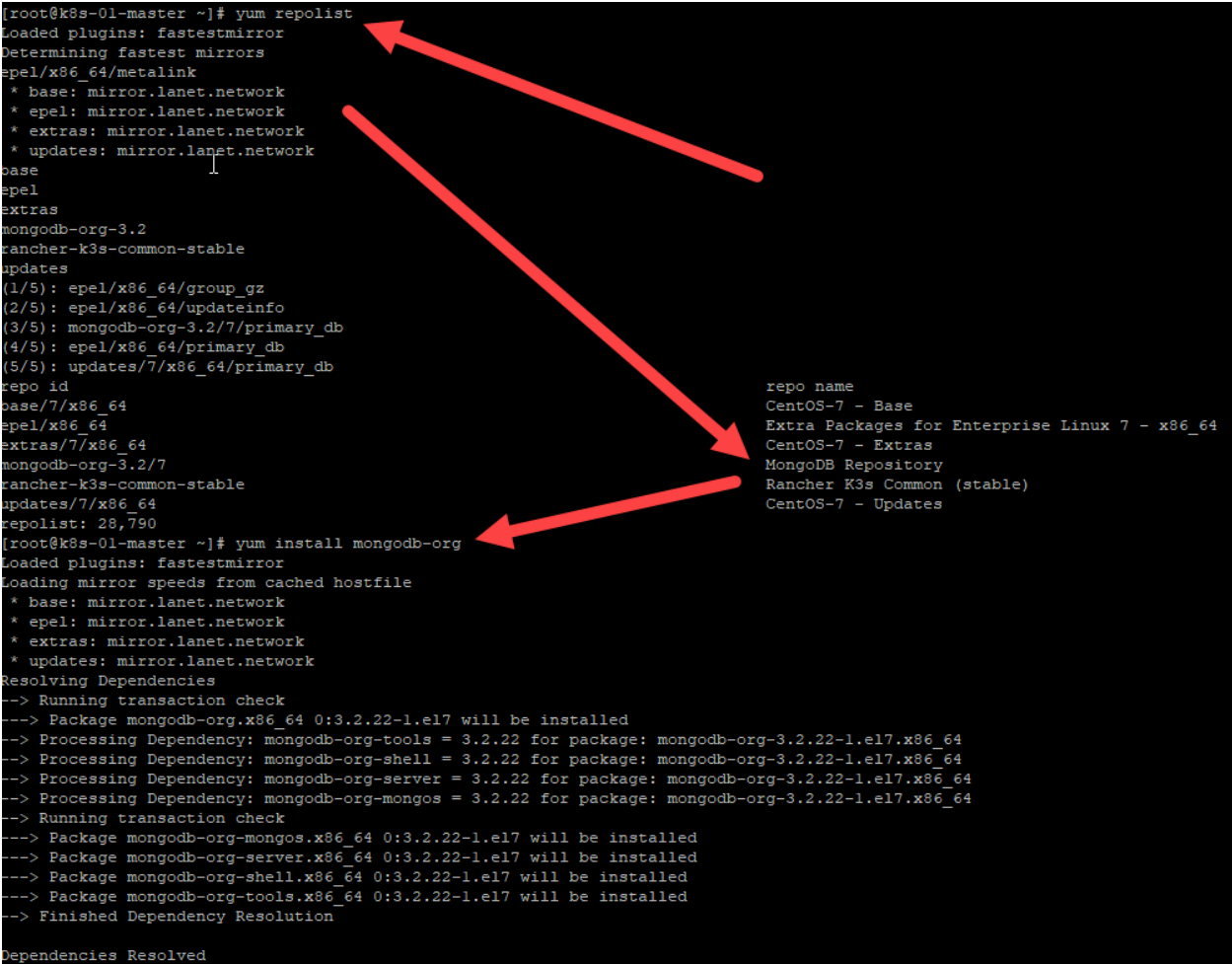
```
baseurl=https://repo.mongodb.org/yum/redhat/$releasever/mongodb-org/3.2/x86_64/
```

```
gpgcheck=1
```

```
enabled=1
```

```
gpgkey=https://www.mongodb.org/static/pgp/server-3.2.asc
```

```
yum repolist
```



```
[root@k8s-01-master ~]# yum repolist
Loaded plugins: fastestmirror
Determining fastest mirrors
epel/x86_64/metalink
 * base: mirror.lanet.network
 * epel: mirror.lanet.network
 * extras: mirror.lanet.network
 * updates: mirror.lanet.network
base
epel
extras
mongodb-org-3.2
rancher-k3s-common-stable
updates
(1/5): epel/x86_64/group_gz
(2/5): epel/x86_64/updateinfo
(3/5): mongodb-org-3.2/7/primary_db
(4/5): epel/x86_64/primary_db
(5/5): updates/7/x86_64/primary_db
repo id
base/7/x86_64
epel/x86_64
extras/7/x86_64
mongodb-org-3.2/7
rancher-k3s-common-stable
updates/7/x86_64
repolist: 28,790
[root@k8s-01-master ~]# yum install mongodb-org
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
 * base: mirror.lanet.network
 * epel: mirror.lanet.network
 * extras: mirror.lanet.network
 * updates: mirror.lanet.network
Resolving Dependencies
--> Running transaction check
--> Package mongodb-org.x86_64 0:3.2.22-1.el7 will be installed
--> Processing Dependency: mongodb-org-tools = 3.2.22 for package: mongodb-org-3.2.22-1.el7.x86_64
--> Processing Dependency: mongodb-org-shell = 3.2.22 for package: mongodb-org-3.2.22-1.el7.x86_64
--> Processing Dependency: mongodb-org-server = 3.2.22 for package: mongodb-org-3.2.22-1.el7.x86_64
--> Processing Dependency: mongodb-org-mongos = 3.2.22 for package: mongodb-org-3.2.22-1.el7.x86_64
--> Running transaction check
--> Package mongodb-org-mongos.x86_64 0:3.2.22-1.el7 will be installed
--> Package mongodb-org-server.x86_64 0:3.2.22-1.el7 will be installed
--> Package mongodb-org-shell.x86_64 0:3.2.22-1.el7 will be installed
--> Package mongodb-org-tools.x86_64 0:3.2.22-1.el7 will be installed
--> Finished Dependency Resolution

Dependencies Resolved
```

repo name
CentOS-7 - Base
Extra Packages for Enterprise Linux 7 - x86_64
CentOS-7 - Extras
MongoDB Repository
Rancher K3s Common (stable)
CentOS-7 - Updates

```
yum install mongodb-org
sudo systemctl start mongod
sudo systemctl status mongod
sudo systemctl restart mongod
```

```
[root@k8s-01-master ~]# sudo systemctl start mongod
[root@k8s-01-master ~]# sudo systemctl status mongod
● mongod.service - SYSV: Mongo is a scalable, document-oriented database.
   Loaded: loaded (/etc/rc.d/init.d/mongod; bad; vendor preset: disabled)
   Active: active (running) since Thu 2022-10-27 20:29:33 EEST; 6s ago
     Docs: man:systemd-sysv-generator(8)
  Process: 30302 ExecStart=/etc/rc.d/init.d/mongod start (code=exited, status=0/SUCCESS)
    Tasks: 19
   Memory: 35.4M
    CGroup: /system.slice/mongod.service
            └─30317 /usr/bin/mongod -f /etc/mongod.conf

Oct 27 20:29:33 k8s-01-master systemd[1]: Starting SYSV: Mongo is a scalable, document-oriented database....
Oct 27 20:29:33 k8s-01-master runuser[30313]: pam_unix(runuser:session): session opened for user mongod by (uid=0)
Oct 27 20:29:33 k8s-01-master runuser[30313]: pam_unix(runuser:session): session closed for user mongod
Oct 27 20:29:33 k8s-01-master mongod[30302]: Starting mongod: [ OK ]
Oct 27 20:29:33 k8s-01-master systemd[1]: Started SYSV: Mongo is a scalable, document-oriented database..
[root@k8s-01-master ~]#
```

```
# mongo
```

```
[root@k8s-01-master ~]# mongo
MongoDB shell version: 3.2.22
connecting to: test
Welcome to the MongoDB shell.
For interactive help, type "help".
For more comprehensive documentation, see
  http://docs.mongodb.org/
Questions? Try the support group
  http://groups.google.com/group/mongodb-user
Server has startup warnings:
2022-10-27T20:29:33.614+0300 I CONTROL [initandlisten]
2022-10-27T20:29:33.614+0300 I CONTROL [initandlisten] ** WARNING: /sys/kernel/mm/transparent_hugepage/enabled is 'always'.
2022-10-27T20:29:33.614+0300 I CONTROL [initandlisten] **          We suggest setting it to 'never'
2022-10-27T20:29:33.614+0300 I CONTROL [initandlisten]
2022-10-27T20:29:33.614+0300 I CONTROL [initandlisten] ** WARNING: /sys/kernel/mm/transparent_hugepage/defrag is 'always'.
2022-10-27T20:29:33.614+0300 I CONTROL [initandlisten] **          We suggest setting it to 'never'
2022-10-27T20:29:33.614+0300 I CONTROL [initandlisten]
2022-10-27T20:29:33.614+0300 I CONTROL [initandlisten] ** WARNING: soft rlimits too low. rlimits set to 4096 processes, 64000 files. Number of
2022-10-27T20:29:33.614+0300 I CONTROL [initandlisten]
>
```

```
> show dbs;
```

17. Create a database. Use the use command to connect to a new database (If it doesn't exist, Mongo will create it when you write to it).

```
> show dbs;
local  0.000GB
> use pats;
switched to db pats
> show dbs;
local  0.000GB
> show collections;
```

18. Create a collection. Use db.createCollection to create a collection. I'll leave the subject up to you. Run show dbs and show collections to view your database and collections.

```
> show collections;
```

19. Create some documents. Insert a couple of documents into your collection. I'll leave the subject matter up to you, perhaps cars or hats.

```
> db.pats.insertOne({name:'Murzic', age: 5});
```

```
{
  "acknowledged" : true,
  "insertedId" : ObjectId("635ac50a164faef5224fa486")
}
```

```
> db.pats.find();
```

```
{ "_id" : ObjectId("635ac50a164faef5224fa486"), "name" : "Murzic", "age" : 5 }
```

```
> db.pats.insertOne({name:'Barsic', age: 3});
```

```
{
  "acknowledged" : true,
  "insertedId" : ObjectId("635ac5fa164faef5224fa487")
}
```

20. Use find() to list documents out.

```
> db.pats.find();
```

```
{ "_id" : ObjectId("635ac50a164faef5224fa486"), "name" : "Murzic", "age" : 5 }
```

```
{ "_id" : ObjectId("635ac5fa164faef5224fa487"), "name" : "Barsic", "age" : 3 }
```

```
>
```