

Backup MongoDB Databases and Collections using mongodump

Backup MongoDB – mongodump

Backup MongoDB – To backup data in MongoDB, MongoDB provides **mongodump** utility to backup data at different levels. Using mongodump, you may backup only a particular collection of a database, or single database, or all databases of a specified MongoDB instance.

Using mongodump utility

mongodump is an utility that could be run from a Terminal.

Following are the usages of mongodump utility :

- To create backup for a collection in database, use mongodump with options : Collection Name and Database Name as shown below :

```
mongodump --  
collection
```

```
mongodump --collection COLLECTION_NAME --db DB_NAME
```

- To create backup for a database, use mongodump with options : Database Path and Output Directory for Backup, as shown below :

```
mongodump --  
--dbpath DB_PATH
```

```
mongodump --dbpath DB_PATH --out /OUTPUT/DIRECTORY/FOR/BACKUP
```

- To create backup all the databases linked to a specific MongoDB instance, use mongodump with options : Host Name and Port Number at which MongoDB instance is running, as shown below :

```
mongodump --host  
HOST_NAME --port
```

```
mongodump --host HOST_NAME --port PORT_NUMBER
```

- Running mongodump utility without any options creates backup for all databases linked to the MongoDB running at localhost (127.0.0.1) and port 27017 :

```
mongodump
```

```
mongodump
```

Note : When no **–out** option is specified, a directory named **dump** is created **at the location from which mongodump utility is run**.

Examples for MongoDB Backup

Make sure MongoDB Instance is running. If not, start one as shown below :

```
~$ sudo mongod -  
-dbpath
```

```
~$ sudo mongod -dbpath /var/lib/mongodb/
```

Backup MongoDB

Open a Terminal and run mongodump utility with no arguments

```
~$ mongodump  
2018-01-
```

```
~$ mongodump
2018-01-07T18:06:41.181+0530 writing admin.system.version to
2018-01-07T18:06:41.182+0530 done dumping admin.system.version (1 document)
2018-01-07T18:06:41.182+0530 writing school.students to
2018-01-07T18:06:41.182+0530 writing tutorialkart.people to
2018-01-07T18:06:41.182+0530 writing tutorialkart.stores to
2018-01-07T18:06:41.183+0530 writing tutorialkart.customers to
2018-01-07T18:06:41.183+0530 done dumping school.students (9 documents)
2018-01-07T18:06:41.183+0530 writing tutorialkart.webpages to
2018-01-07T18:06:41.184+0530 done dumping tutorialkart.people (8 documents)
2018-01-07T18:06:41.184+0530 writing newdb.users to
2018-01-07T18:06:41.184+0530 done dumping tutorialkart.customers (5 documents)
2018-01-07T18:06:41.184+0530 writing school.totals to
2018-01-07T18:06:41.184+0530 done dumping newdb.users (4 documents)
2018-01-07T18:06:41.184+0530 writing fruits.seasonal to
2018-01-07T18:06:41.185+0530 done dumping tutorialkart.stores (5 documents)
2018-01-07T18:06:41.185+0530 writing tutorialkart.myNewCollection to
2018-01-07T18:06:41.185+0530 done dumping school.totals (3 documents)
2018-01-07T18:06:41.185+0530 done dumping tutorialkart.webpages (5 documents)
2018-01-07T18:06:41.185+0530 done dumping fruits.seasonal (1 document)
2018-01-07T18:06:41.186+0530 done dumping tutorialkart.myNewCollection (0 documents)
~$ cd dump/
~/dump$ ls
admin  fruits  newdb  school  tutorialkart
~/dump$
```

Backup MongoDB Collection

In this example, we shall backup “webpages” collection of “tutorialkart” db.

```
~$ mongodump --
collection webpages
```

```
~$ mongodump --collection webpages --db tutorialkart
2018-01-07T18:24:16.928+0530 writing tutorialkart.webpages to
2018-01-07T18:24:16.953+0530 done dumping tutorialkart.webpages (5 documents)
~$ cd dump
~/dump$ ls
tutorialkart
```

Backup MongoDB Database

In this example, we shall backup “tutorialkart” db.

```
~$ mongodump --db tutorialkart
```

```
~$ mongodump --db tutorialkart
2018-01-07T18:25:43.148+0530 writing tutorialkart.people to
2018-01-07T18:25:43.149+0530 writing tutorialkart.customers to
2018-01-07T18:25:43.149+0530 writing tutorialkart.stores to
2018-01-07T18:25:43.149+0530 writing tutorialkart.webpages to
2018-01-07T18:25:43.149+0530 done dumping tutorialkart.people (8 documents)
2018-01-07T18:25:43.150+0530 writing tutorialkart.myNewCollection to
2018-01-07T18:25:43.150+0530 done dumping tutorialkart.customers (5 documents)
2018-01-07T18:25:43.150+0530 done dumping tutorialkart.stores (5 documents)
2018-01-07T18:25:43.150+0530 done dumping tutorialkart.myNewCollection (0 documents)
2018-01-07T18:25:43.150+0530 done dumping tutorialkart.webpages (5 documents)
~$ cd dump/
~/dump$ ls
tutorialkart
~/dump$ cd tutorialkart/
~/dump/tutorialkart$ ls
customers.bson      myNewCollection.bson      people.bson      stores.bson      webpages.bson
customers.metadata.json  myNewCollection.metadata.json  people.metadata.json  stores.metadata.json  webpages.metadata.j
```

Backup MongoDB Databases linked to a specific MongoDB instance

In this example, we shall backup all databases linked to the MongoDB instance running at 127.0.0.1:27017

```
~$ mongodump --host 127.0.0.1 --port 27017
```

```
~$ mongodump --host 127.0.0.1 --port 27017
2018-01-07T18:06:41.181+0530 writing admin.system.version to
2018-01-07T18:06:41.182+0530 done dumping admin.system.version (1 document)
2018-01-07T18:06:41.182+0530 writing school.students to
2018-01-07T18:06:41.182+0530 writing tutorialkart.people to
2018-01-07T18:06:41.182+0530 writing tutorialkart.stores to
2018-01-07T18:06:41.183+0530 writing tutorialkart.customers to
2018-01-07T18:06:41.183+0530 done dumping school.students (9 documents)
2018-01-07T18:06:41.183+0530 writing tutorialkart.webpages to
2018-01-07T18:06:41.184+0530 done dumping tutorialkart.people (8 documents)
2018-01-07T18:06:41.184+0530 writing newdb.users to
2018-01-07T18:06:41.184+0530 done dumping tutorialkart.customers (5 documents)
2018-01-07T18:06:41.184+0530 writing school.totals to
2018-01-07T18:06:41.184+0530 done dumping newdb.users (4 documents)
2018-01-07T18:06:41.184+0530 writing fruits.seasonal to
2018-01-07T18:06:41.185+0530 done dumping tutorialkart.stores (5 documents)
2018-01-07T18:06:41.185+0530 writing tutorialkart.myNewCollection to
2018-01-07T18:06:41.185+0530 done dumping school.totals (3 documents)
2018-01-07T18:06:41.185+0530 done dumping tutorialkart.webpages (5 documents)
2018-01-07T18:06:41.185+0530 done dumping fruits.seasonal (1 document)
2018-01-07T18:06:41.186+0530 done dumping tutorialkart.myNewCollection (0 documents)
~$ cd dump/
~/dump$ ls
admin fruits newdb school tutorialkart
~/dump$
```

Backup to a particular directory

–out option could be used to create backup at a particular directory

```
~$ mongodump --out
/home/tk/mongo_dump
```

```
~$ mongodump --out /home/tk/mongo_dump/
2018-01-07T18:37:19.793+0530 writing admin.system.version to
2018-01-07T18:37:19.795+0530 done dumping admin.system.version (1 document)
2018-01-07T18:37:19.795+0530 writing school.students to
2018-01-07T18:37:19.795+0530 writing tutorialkart.people to
2018-01-07T18:37:19.795+0530 writing tutorialkart.stores to
2018-01-07T18:37:19.795+0530 writing tutorialkart.customers to
2018-01-07T18:37:19.796+0530 done dumping school.students (9 documents)
2018-01-07T18:37:19.796+0530 writing tutorialkart.webpages to
2018-01-07T18:37:19.797+0530 done dumping tutorialkart.people (8 documents)
2018-01-07T18:37:19.797+0530 writing newdb.users to
2018-01-07T18:37:19.797+0530 done dumping tutorialkart.stores (5 documents)
2018-01-07T18:37:19.797+0530 writing school.totals to
2018-01-07T18:37:19.798+0530 done dumping tutorialkart.customers (5 documents)
2018-01-07T18:37:19.798+0530 writing fruits.seasonal to
2018-01-07T18:37:19.798+0530 done dumping fruits.seasonal (1 document)
2018-01-07T18:37:19.799+0530 writing tutorialkart.myNewCollection to
2018-01-07T18:37:19.799+0530 done dumping school.totals (3 documents)
2018-01-07T18:37:19.799+0530 done dumping newdb.users (4 documents)
2018-01-07T18:37:19.799+0530 done dumping tutorialkart.myNewCollection (0 documents)
2018-01-07T18:37:19.800+0530 done dumping tutorialkart.webpages (5 documents)
~$ cd /home/tk/mongo_dump/
~/mongo_dump$ ls
admin  fruits  newdb  school  tutorialkart
```

Conclusion :

In this [MongoDB Tutorial](#) we have learnt to **Backup MongoDB** Databases and the control provided by mongodump utility for various levels in backup : Collection , Single Database, All Databases linked to a MongoDB Instance.

MongoDB Tutorial

- [MongoDB Tutorial](#)
- [Install MongoDB on Ubuntu](#)
- [Start MongoDB Server](#)
- [MongoDB Shell](#)
- [Check MongoDB Version](#)
- [MongoDB Server Port Number - Default Value and How to Change it](#)
- [MongoDB Script](#)

Database

- [MongoDB Database](#)

↳ MongoDB Create Database

↳ MongoDB Delete Database

Collections

↳ MongoDB Collection

↳ MongoDB Create Collection

↳ MongoDB Delete Collection

Documents

↳ MongoDB Document

↳ MongoDB Insert Document

↳ MongoDB Query Documents

↳ MongoDB Project Fields in Result

↳ MongoDB Update Document

↳ MongoDB Delete Document

↳ MongoDB Limit Documents

↳ MongoDB Skip Documents

↳ MongoDB Sort Documents

↳ MongoDB Setup Replica Set

↳ MongoDB Locks

MongoDB Concepts

↳ MongoDB Text Search

↳ MongoDB MapReduce

↳ MongoDB Backup - mongodump

MongoDB Queries

↳ MongoDB Date

MongoDB Queries

↳ MongoDB Date()

MongoDB Integration

MongoDB Java

↳ Connect to MongoDB from Java

MongoDB Python

↳ Connect to MongoDB from Python

MongoDB Kotlin

↳ Connect to MongoDB from Kotlin

▸ [Connect to MongoDB from Kotlin](#)

MongoDB Node.js

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▸ [Node.js MongoDB Connection](#)

▸ [Node.js MongoDB Create Database](#)

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▸ [Node.js MongoDB Insert Documents](#)

▸ [MongoError: failed to connect to server](#)

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