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MongoDB hello world example

By mkyong (<http://www.mkyong.com/author/mkyong/>) | September 11, 2012 | Updated : April 28, 2013 | Viewed : 71,132 times +123 pv/w



1. Install MongoDB

Install MongoDB on Windows (<http://www.mkyong.com/mongodb/how-to-install-mongodb-on-windows/>), Ubuntu (<http://www.mkyong.com/mongodb/how-to-install-mongodb-on-ubuntu/>) or Mac OS X (<http://www.mkyong.com/mongodb/how-to-install-mongodb-on-mac-os-x/>). The installation is easy, basically just download the MongoDB zip file, extra and run the command — \$MongoDB-folder/bin/mongod.

Uses mongod to start MongoDB.

```
$. /mongod
Tue Sep 11 21:55:36 [initandlisten] MongoDB starting :
pid=72280 port=27017 dbpath=/data/db/ 64-bit host=Yongs-MacBook-Air.local
Tue Sep 11 21:55:36 [initandlisten] db version v2.0.7, pdfile version 4.5
Tue Sep 11 21:55:36 [initandlisten] options: {}
Tue Sep 11 21:55:36 [initandlisten] journal dir=/data/db/journal
Tue Sep 11 21:55:36 [initandlisten] recover : no journal files present, no recovery need
Tue Sep 11 21:55:36 [websvr] admin web console waiting for connections on port 28017
Tue Sep 11 21:55:36 [initandlisten] waiting for connections on port 27017
```



2. Connect MongoDB

To connect MongoDB, uses \$MongoDB-folder/bin/mongo

```
$ ./mongo
MongoDB shell version: 2.0.7
connecting to: test
```

3. Create a database or table (collection)

In MongoDB, both database and table are created automatically when the first time data is inserted. Uses use database-name, to switch to your database (even this is not created yet).

In below example, after you inserted a single record, database "mkyong", and table "users" are created on the fly.

```
$ ./mongo
MongoDB shell version: 2.0.7
connecting to: test
> use mkyong
switched to db mkyong

> db.users.insert({username:"mkyong",password:"123456"})
> db.users.find()
{ "_id" : ObjectId("504f45cd17f6c778042c3c07"), "username" : "mkyong", "password" : "123"
```

Three database commands you should know.

1. show dbs – List all databases.
2. use db_name – Switches to db_name.
3. show collections [показать коллекции] – List all tables in the current selected database.

Note

In MongoDB, **collection** means **table** in SQL.

4. Insert A Record

To insert a record, uses `db.tablename.insert({data})` or `db.tablename.save({data})`, both works, no idea why MongoDB created both.

```
> db.users.save({username:"google",password:"google123"})
> db.users.find()
{ "_id" : ObjectId("504f45cd17f6c778042c3c07"), "username" : "mkyong", "password" : "123"
{ "_id" : ObjectId("504f48ea17f6c778042c3c0a"), "username" : "google", "password" : "google123"
```

5. Update A Record

To update a record, uses `db.tablename.update({criteria},{set: {new value}})`. In below example, the password of username : "mkyong" is updated.

```
> db.users.update({username:"mkyong"},{$set:{password:"hello123"}})
> db.users.find()
{ "_id" : ObjectId("504f48ea17f6c778042c3c0a"), "username" : "google", "password" : "google123"
{ "_id" : ObjectId("504f45cd17f6c778042c3c07"), "password" : "hello123", "username" : "mkyong"
```

6. Find Records

To find or query records, uses `db.tablename.find({criteria})`.

6.1 List all records from table "users".

```
> db.users.find()
{ "_id" : ObjectId("504f48ea17f6c778042c3c0a"), "username" : "google", "password" : "google123"
{ "_id" : ObjectId("504f45cd17f6c778042c3c07"), "password" : "hello123", "username" : "mkyong"
```

6.2 Find records where username is "google"

```
> db.users.find({username:"google"})
{ "_id" : ObjectId("504f48ea17f6c778042c3c0a"), "username" : "google", "password" : "google123"
```

6.3 Find records where username's length is less than or equal to 2

```
db.users.find({$where:"this.username.length<=2"})
```

6.4 Find records where username field is existed.

```
db.users.find({username:{$exists : true}})
```

7. Delete Record

To delete a record, uses `db.tablename.remove({criteria})`. In below example, the record of

username "google" is deleted.

```
> db.users.remove({username:"google"})
> db.users.find()
{ "_id" : ObjectId("504f45cd17f6c778042c3c07"), "password" : "hello123", "username" : "m
```

Note

To delete all records from a table, uses `db.tableName.remove()` .

To drop the table, uses `db.tableName.drop()` .

8. Indexing

Index may help you increase the speed of querying data.

8.1 List all indexes of table "users", by default the column "_id" is always the primary key and created automatically.

```
> db.users.getIndexes()
[
  {
    "v" : 1,
    "key" : {
      "_id" : 1
    },
    "ns" : "mkyong.users",
    "name" : "_id_"
  }
]
>
```

8.2 To create an index, uses `db.tableName.ensureIndex(column)` . In below example, an index is created on column "username".

```
> db.users.ensureIndex({username:1})
> db.users.getIndexes()
[
  {
    "v" : 1,
    "key" : {
      "_id" : 1
    },
    "ns" : "mkyong.users",
    "name" : "_id_"
  },
  {
    "v" : 1,
    "key" : {
      "username" : 1
    },
    "ns" : "mkyong.users",
    "name" : "username_1"
  }
]
>
```

8.3 To drop an index, uses `db.tableName.dropIndex(column)` . In below example, the index on column "username" is deleted or dropped.

```
> db.users.dropIndex({username:1})
{ "nIndexesWas" : 2, "ok" : 1 }
> db.users.getIndexes()
[
  {
    "v" : 1,
    "key" : {
      "_id" : 1
    },
    "ns" : "mkyong.users",
    "name" : "_id_"
  }
]
>
```

8.4 To create an unique index, uses `db.tableName.ensureIndex({column},{unique:true})`. In below example, an unique index is created on column "username".

```
> db.users.ensureIndex({username:1},{unique:true});
> db.users.getIndexes()
[
  {
    "v" : 1,
    "key" : {
      "_id" : 1
    },
    "ns" : "mkyong.users",
    "name" : "_id_"
  },
  {
    "v" : 1,
    "key" : {
      "username" : 1
    },
    "unique" : true,
    "ns" : "mkyong.users",
    "name" : "username_1"
  }
]
```

10. Help

At last, uses `help()` to guide you how to do things in MongoDB.

10.1 `help` - All available commands.

```
> help
db.help()                help on db methods
db.mycoll.help()         help on collection methods
rs.help()                help on replica set methods
help admin               administrative help
help connect             connecting to a db help
help keys                 key shortcuts
//...
```

10.2 `db.help()` - Shows help on db.

```
> db.help()
DB methods:
db.addUser(username, password[, readOnly=false])
db.auth(username, password)
db.cloneDatabase(fromhost)
db.commandHelp(name) returns the help for the command
db.copyDatabase(fromdb, todb, fromhost)
//...
```

10.3 `db.collection.help()` - Shows help on collection (table).

```
> db.users.help()
DBCollection help
db.users.find().help() - show DBCursor help
db.users.count()
db.users.dataSize()
db.users.distinct( key ) - eg. db.users.distinct( 'x' )
db.users.drop() drop the collection
db.users.dropIndex(name)
//...
```

10.4 `db.collection.function.help()` - Shows help on function.

```
> db.users.find().help()
find() modifiers
.sort( {...} )
.limit( n )
.skip( n )
.count() - total # of objects matching query, ignores skip,limit
.size() - total # of objects cursor would return, honors skip,limit
.explain([verbose])
//...
```

Done. Hope this summary of MongoDB commands could help others.

References

1. Official MongoDB tutorials (<http://www.mongodb.org/display/DOCS/Tutorial>)
2. MongoDB Indexes (<http://www.mongodb.org/display/DOCS/Indexes>)

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mkyong

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Xuebin Zhao

ABOUT "To insert a record, uses db.table.insert({data}) or db.table.save({data}), both works, no idea why MongoDB created both."

PLEASE REFER TO <http://stackoverflow.com/questions/7612703/difference-between-db-collectionx-save-and-db-collectionx-insert> (<http://stackoverflow.com/questions/7612703/difference-between-db-collectionx-save-and-db-collectionx-insert>)



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🕒 4 years 8 months ago ^



Guest

Anton

It's like a difference between REPLACE and INSERT in SQL DB



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Guest

Jay Kasundra



Its good to know this. Thank you.

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Guest

alleni123

Those tutorials will definitely help me out during my career. Thanks so much.



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Guest

Shivam Maharshi

Thanks a lot for your tutorials. You are awesome !!



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Guest

carlos rodriguez (<http://niar.me>)

I have a question, by default always appear "[websvr] admin web console waiting for connections on port XXXX"? there is no way to remove it?



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Guest

Varshu (<http://www.javabeat.net>)

Your examples are good. What is the real benefit of using mongo db?



 0  [REPLY](#)

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Guest

carlos rodriguez (<http://niar.me>)

compared to SQL is much faster when the consultations show, and you can store much more data in a single BSON unrelated, unless you use DBRef, is unstructured, you can save as you want ...

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Subramanyam

Thanks alot sir your tutorials are really helpful for a beginner like me :)

Guest

regards,
Subramanyam



4 years 11 months ago



Sankara Yadavalli

Thanks alot mkyong. It's really good for quick start up. I really appreciate your hard work for building up with good examples and sample code.

Guest

thanks,
Sankara.



4 years 11 months ago



jim northrop

(<http://jnorthr.wordpress.com/>)

Guest

have been exploring the cloud foundry offerings and thought i'd start with mongoDB. My tool of choice is groovy (JVM) and like to keep things simple until i understand the technology. So i avoid using eclipse, springsource at the start until the lightbulb comes on :) this post has been just what i needed to get going with mongo. i can adjust it for groovy syntax and it will sure speed up my efforts. So i just wanted to say a BIG 'Thank you' for this work. It's just what the doctor ordered !!! Now will try to adapt your... Read more »



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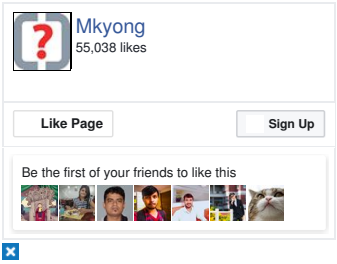


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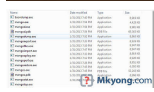
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Mkyong.com is for Java and J2EE developers, all examples are simple and easy to understand, and well tested in my development environment.

Mkyong.com is created, written by, and maintained by Yong Mook Kim, aka Mkyong. It is built on WordPress (<https://wordpress.org/>), hosted by Liquid Web (<http://www.liquidweb.com/?RID=mkyong>), and the caches are served by CloudFlare CDN.

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