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MongoDB Authentication example

By mkyong (<http://www.mkyong.com/author/mkyong/>) | March 9, 2013 | Viewed : 68,689 times +61 pv/w

This guide shows you how to enable authentication in MongoDB. The authentication is disabled by default. To configure it, you must first add a user to the "admin" database.

```
> show dbs
admin  #add single user to this database
testdb
```

Note

Users with normal access in "admin" database, HAVE read and write access to all the other databases. Users with read only access to the "admin" database HAVE only read to all databases.

P.S This example is using MongoDB version 2.2.3

Authentication example

See a full example to add a "admin" user to the admin database, and a normal user to the "testdb" database, and how to perform the authentication.

Terminal 1 – Start MongoDB in secure mode, authentication is required.

```
$mongo --auth
```

Terminal 2 – MongoDB client, see comment "#" for self-explanatory

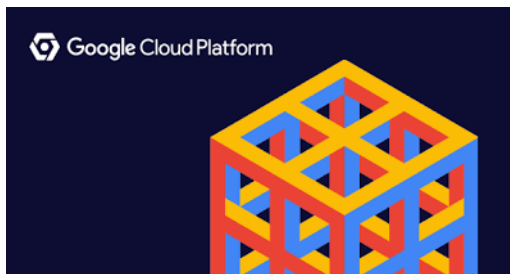
```

$ mongo
MongoDB shell version: 2.2.3
connecting to: test
> use admin                #1. connect to the "admin" database.
switched to db admin
> db.addUser("admin","password")    #2. add a user "admin" to the admin database.
{
  "user" : "admin",
  "readOnly" : false,
  "pwd" : "90f500568434c37b61c8c1ce05fdf3ae",
  "_id" : ObjectId("513af8cac115e7a6b4bcceb9")
}
addUser succeeded, but cannot wait for replication since we no longer have auth

> use testdb              #3. connect to the "testdb" database.
switched to db testdb
> show collections        #4. now, read and write need authentication
Sat Mar  9 16:54:57 uncaught exception: error: {
  "$err" : "unauthorized db:testdb ns:testdb.system.namespaces lock type:0 client:127.0.0.1",
  "code" : 10057
}
> use admin                #5. connect back to the "admin" database.
switched to db admin
> db.auth("admin","password") [ dbauthadminpassword]    #6. performs authentication, 1 means succeed, 0 means failed
1
> use testdb              #7. connect to the "testdb" database.
switched to db testdb
> show collections        #8. no problem, it shows all collections
system.indexes
user
> db.addUser("testdb","password")    #9. add another user "testdb" to the "testdb" database.
{
  "user" : "testdb",
  "readOnly" : false,
  "pwd" : "b9ff75cbf18bd98d8554efec12c72090",
  "_id" : ObjectId("513af934c115e7a6b4bcceba")
}
> show collections
system.indexes
system.users                #10. All users' data are stored in this system.users collection.
user
> db.system.users.find()
{ "_id" : ObjectId("513af934c115e7a6b4bcceba"), "user" : "testdb", "readOnly" : false, "pwd" : "b9ff75cbf18bd98d8554efec12c72090" }
>

```

Done.



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References

1. MongoDB : Security Practices and Management (<http://docs.mongodb.org/manual/administration/security/>)
2. Java MongoDB authentication example (<http://www.mkyong.com/mongodb/java-authentication-access-to-mongodb/>)

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Founder of Mkyong.com (<http://mkyong.com>), love Java and open source stuff. Follow him on Twitter (<https://twitter.com/mkyong>), or befriend him on Facebook (<http://www.facebook.com/java.tutorial>) or Google Plus (<https://plus.google.com/110948163568945735692?rel=author>). If you like my tutorials, consider make a donation to these charities (<http://www.mkyong.com/blog/donate-to-charity/>).

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srinivasu

not mongo -auth


Guest it is mongod -auth




1



REPLY



 4 years 7 months ago




Carol

Thanks for this article


Guest




0



REPLY

 1 year 7 months ago



Prateek Ashtikar

boolean auth = db.authenticate("reportsUser", "123".toCharArray()); is deprecated in mongo-2.12.3

Guest



3 years 4 months ago



reader

Guest

Thanks , but still when I connect MongoDB from java it does not check for users or password . How to make a mongo db password protected which cannot be accessed without password/username by external jars and programs . Could you please give some examples



4 years 1 month ago



Da-woon Yi

Guest

** \$mongo --auth is not available anymore on version 2.4.3.
Check this option, --authenticationDatabase.



4 years 8 months ago



ivoHaSp

Guest

Hi, it is helpful. Thanks a lot. Ivo.



4 years 9 months ago



Java MongoDB : Authentication example
(<http://www.mkyong.com/mongodb/java-authentication-access-to-mongodb/>)

[...] you must first add a user to the special "admin" database, please refer to this MongoDB authentication example for detail [...]



4 years 9 months ago



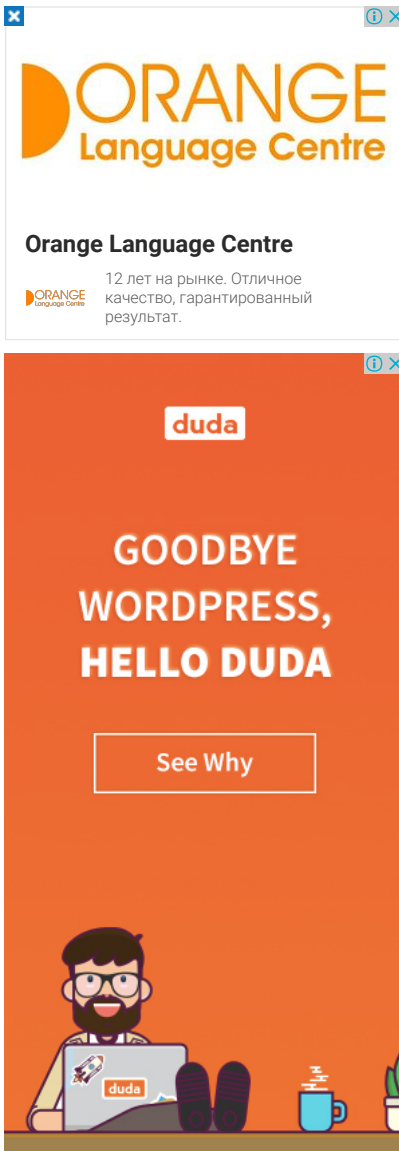
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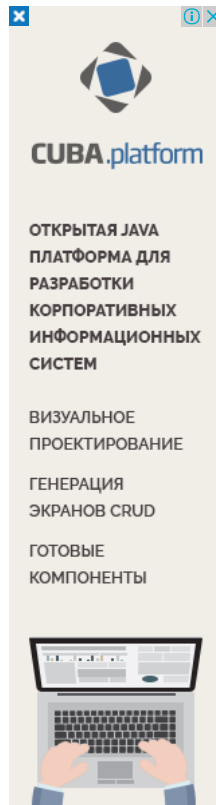
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