

MongoDB Atlas-Connecting to Mongo Shell

This lesson will teach you how to connect to the MongoShell, step-by-step, using the MongoDB Atlas cluster that you created.

WE'LL COVER THE FOLLOWING



- Connect to a Cluster from Mongo Shell
 - First Task: Installing Mongo
 - Second Task: Adding WhiteList Entry
- Connect via Mongo Shell
- Implement in Terminal

Connect to a Cluster from Mongo Shell

Now that you have created a cluster, the next thing that you want to do is to connect to the newly created cluster. There are multiple ways to connect to this cluster, from either Mongo Shell or the code.

In this example, I will show you how to connect to the Atlas cluster using Mongo Shell. Before we proceed, there are a few tasks we need to do.

First Task: Installing Mongo

The first task is, of course, having Mongo installed. We have already provided you with the terminal that has the Mongo shell in it at the end of this lesson. In case you want to try it on your local machine, you can read how to do that [here](#).

Second Task: Adding WhiteList Entry

The second task is your *IP address* added to the clusters whitelist.

Network Access

IP Whitelist

Peering

+ ADD IP ADDRESS

IP Address

Comment

Status

Actions

This is done by clicking on *Add Current IP Address*.

In order to use the platform's terminal, choose the “*ALLOW ACCESS FROM ANYWHERE*” option.

The following will appear if you choose “*ALLOW ACCESS FROM ANYWHERE*”:

×

Add Whitelist Entry

Add a whitelist entry using either CIDR notation or a single IP address. [Learn more.](#)

ADD CURRENT IP ADDRESS

ALLOW ACCESS FROM ANYWHERE

Whitelist Entry:

0.0.0.0/0

Comment:

Optional comment describing this entry

☐ Save as temporary whitelist

Cancel

Confirm

If you want to connect the shell to the cluster from a different machine, you can click Add Entry and enter the IP address of that machine.

Connect via Mongo Shell

After adding the whitelist entry:

- Click the “*CONNECT*” option available under your cluster.

You should see the following screen:

Connect to Cluster0

Setup connection security > Choose a connection method > Connect

You need to secure your MongoDB Atlas cluster before you can use it. Set which users and IP addresses can access your cluster now. [Read more](#)

You can't connect yet. Set up your firewall access and user security permission below.

1 Whitelist your connection IP address

Add Your Current IP Address

Add a Different IP Address

2 Create a MongoDB User

This first user will have [atlasAdmin](#) permissions for this project.

Keep your credentials handy, you'll need them for the next step.

Username

ex. dbUser

Password

Autogenerate Secure Password

ex. dbUserPassword

SHOW

Create MongoDB User

Close

Choose a connection method

Note: You can either add the *Whitelist* entries using the *CONNECT* option or by navigating to the *Network Access* tab, as we did above.

- First, as shown above, you will be required to create a *MongoDB User* that you will use to access the deployment.
- Next, choose *Connect with the Mongo Shell* option.

If you're using the platform's terminal simply choose "I have the Mongo Shell installed" and then choose the version "3.6 or later" option.

There, you will be provided with a connection string that you can use to connect from the shell.

✓ Setup connection security > ✓ Choose a connection method > Connect

I do not have the Mongo Shell installed

I have the Mongo Shell installed

1 Select your Mongo Shell version

3.6 or later

(To check your shell version, run `mongo --version`)

2 Run your connection string in your command line

```
mongo "mongodb+srv://cluster0-dzqkz.mongodb.net/test" --username
```

Copy

You will be prompted for the password for the user's (MongoDB User) username.
When entering your password, make sure that any special characters are [URL encoded](#).

Having trouble connecting? [View our troubleshooting documentation](#)

If you are confused on how to connect to the MongoDB server, check out one of my [previous](#) posts.

Note: You have to enter the password you created when you set up the cluster.

Your username
will show up
here

```
root@educative:/# mongo "mongodb+srv://cluster0-dzqkz.mongodb.net/test" --username [REDACTED]
MongoDB shell version v4.0.10
Enter password:
connecting to: mongodb://cluster0-shard-00-00-dzqkz.mongodb.net.:27017,cluster0-shard-00-01-dzqkz.mongodb.net.:27017,cluster0-shard-00-02-dzqkz.mongodb.net.:27017/test?authSource=admin&gssapiServiceName=mongodb&replicaSet=Cluster0-shard-0&ssl=true
2019-07-01T04:58:33.121+0000 I NETWORK [js] Starting new replica set monitor for Cluster0-shard-0/cluster0-shard-00-00-dzqkz.mongodb.net.:27017,cluster0-shard-00-01-dzqkz.mongodb.net.:27017,cluster0-shard-00-02-dzqkz.mongodb.net.:27017
2019-07-01T04:58:33.287+0000 I NETWORK [ReplicaSetMonitor-TaskExecutor] Successfully connected to cluster0-shard-00-01-dzqkz.mongodb.net.:27017 (1 connections now open to cluster0-shard-00-01-dzqkz.mongodb.net.:27017 with a 5 second timeout)
2019-07-01T04:58:33.293+0000 I NETWORK [js] Successfully connected to cluster0-shard-00-02-dzqkz.mongodb.net.:27017 (1 connections now open to cluster0-shard-00-02-dzqkz.mongodb.net.:27017 with a 5 second timeout)
2019-07-01T04:58:33.467+0000 I NETWORK [ReplicaSetMonitor-TaskExecutor] Successfully connected to cluster0-shard-00-00-dzqkz.mongodb.net.:27017 (1 connections now open to cluster0-shard-00-00-dzqkz.mongodb.net.:27017 with a 5 second timeout)
2019-07-01T04:58:33.471+0000 I NETWORK [js] Successfully connected to cluster0-shard-00-00-dzqkz.mongodb.net.:27017 (1 connections now open to cluster0-shard-00-00-dzqkz.mongodb.net.:27017 with a 5 second timeout)
2019-07-01T04:58:33.497+0000 I NETWORK [ReplicaSetMonitor-TaskExecutor] changing hosts to Cluster0-shard-0/cluster0-shard-00-00-dzqkz.mongodb.net.:27017,cluster0-shard-00-01-dzqkz.mongodb.net.:27017,cluster0-shard-00-02-dzqkz.mongodb.net.:27017 from Cluster0-shard-0/cluster0-shard-00-00-dzqkz.mongodb.net.:27017,cluster0-shard-00-01-dzqkz.mongodb.net.:27017,cluster0-shard-00-02-dzqkz.mongodb.net.:27017
2019-07-01T04:58:33.471+0000 I NETWORK [js] Successfully connected to cluster0-shard-00-00-dzqkz.mongodb.net.:27017 (1 connections now open to cluster0-shard-00-00-dzqkz.mongodb.net.:27017 with a 5 second timeout)
2019-07-01T04:58:33.497+0000 I NETWORK [ReplicaSetMonitor-TaskExecutor] changing hosts to Cluster0-shard-0/cluster0-shard-00-00-dzqkz.mongodb.net.:27017,cluster0-shard-00-01-dzqkz.mongodb.net.:27017,cluster0-shard-00-02-dzqkz.mongodb.net.:27017 from Cluster0-shard-0/cluster0-shard-00-00-dzqkz.mongodb.net.:27017,cluster0-shard-00-01-dzqkz.mongodb.net.:27017,cluster0-shard-00-02-dzqkz.mongodb.net.:27017
2019-07-01T04:58:33.621+0000 I NETWORK [ReplicaSetMonitor-TaskExecutor] Successfully connected to cluster0-shard-00-02-dzqkz.mongodb.net.:27017 (1 connections now open to cluster0-shard-00-02-dzqkz.mongodb.net.:27017 with a 5 second timeout)
2019-07-01T04:58:33.725+0000 I NETWORK [js] Successfully connected to cluster0-shard-00-00-dzqkz.mongodb.net.:27017 (1 connections now open to cluster0-shard-00-00-dzqkz.mongodb.net.:27017 with a 0 second timeout)
2019-07-01T04:58:33.773+0000 I NETWORK [ReplicaSetMonitor-TaskExecutor] Successfully connected to cluster0-shard-00-01-dzqkz.mongodb.net.:27017 (1 connections now open to cluster0-shard-00-01-dzqkz.mongodb.net.:27017 with a 5 second timeout)
Implicit session: session { "id" : UUID("fef4b731-9939-473f-8647-2529dadf967c") }
MongoDB server version: 4.0.10
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
MongoDB Enterprise Cluster0-shard-0:PRIMARY>
```

Once you've done that, you will be able to do everything as before, like creating a database, using it, adding a collection, and adding documents to that collection.

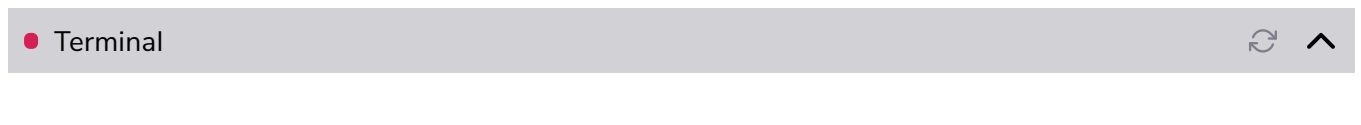
```
use rubikscore
db.createCollection("blogs")
db.blogs.insert({"name" : "Playing with MongoDB Atlas", "category" : "NoSQL", words: 2111})
db.blogs.find().pretty();
```

Try the commands in the terminal given below!

```
MongoDB Enterprise Cluster0-shard-0:PRIMARY> use rubikscore
switched to db rubikscore
MongoDB Enterprise Cluster0-shard-0:PRIMARY> db.createCollection("blogs")
{
  "ok" : 1,
  "operationTime" : Timestamp(1561971984, 1),
  "$clusterTime" : {
    "clusterTime" : Timestamp(1561971984, 1),
    "signature" : {
      "hash" : BinData(0,"su6Nj/OP5viO4p0UJE5En90zbsM="),
      "keyId" : NumberLong("6707018528546881537")
    }
  }
}
MongoDB Enterprise Cluster0-shard-0:PRIMARY> db.blogs.insert({"name" : "Playing with MongoDB Atlas", "category" : "NoSQL", words: 2111})
WriteResult({ "nInserted" : 1 })
MongoDB Enterprise Cluster0-shard-0:PRIMARY> db.blogs.find().pretty();
{
  "_id" : ObjectId("5d19cd88e7fa0e8589b0c618"),
  "name" : "Playing with MongoDB Atlas",
  "category" : "NoSQL",
  "words" : 2111
}
```

Implement in Terminal

Try the steps, given above, in the terminal below:



Now that you've learned how to connect to MongoShell using the cluster, let's learn how to connect to an application.