

# Connection Steps for DocumentDB

## Connection with Mongo Client -

### NoSQLBooster / Studio3T / Robo 3T

**Server** : nqi-aws-us-vi-dev-lh-docdb.cluster-crlybd8jjh3v.us-east-1.docdb.amazonaws.com

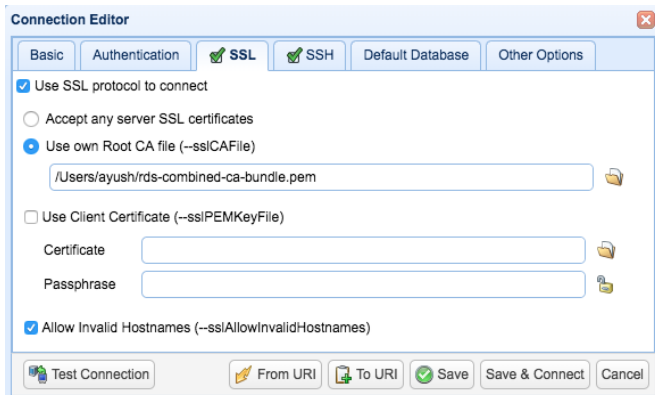
**Authentication**: Basic Username/Password

**DB**: admin

**UserName**: NQUSDevDocDBMaster

**Password**: DbPass123

## SSL-



## SSH Tunnel-

Address- ec2-3-210-202-22.compute-1.amazonaws.com

Port- 22

UserName- ec2-user

AuthMode- Private Key

Private Key-

## Connecting Programmatically to Amazon DocumentDB -

[https://docs.aws.amazon.com/documentdb/latest/developerguide/connect\\_programmatically.html](https://docs.aws.amazon.com/documentdb/latest/developerguide/connect_programmatically.html)

<https://docs.aws.amazon.com/documentdb/latest/developerguide/connect-from-outside-a-vpc.html>

Need to create SSH Tunnel-



```
ssh -i "NQ.AWS.US.DEV.LH.MONGODB.pem" -L 27017:nqi-aws-us-vi-dev-lh-docdb.cluster-crlybd8jjh3v.us-east-1.docdb.amazonaws.com:27017 ec2-user@ec2-3-210-202-22.compute-1.amazonaws.com -N
```

Connection string: mongodb://NQUSDevDocDBMaster:DbPass123@127.0.0.1:27017/admin?ssl=true&ssl\_ca\_certs=rds-combined-ca-bundle.pem&retryWrites=false

Connection code requires ssl:true, sslCA: ./rds-combined-ca-bundle.pem file-



NQ.AWS.US.DEV...NGODB (1).pem



rds-combined-ca-bundle.pem

**Connection Editor**

Basic Authentication **SSL** **SSH** Default Database Other Options

☒ Use SSH tunnel

Address  :

User name

Auth Mode

Private Key

Passphrase

☐ Ask for passphrase each time

Test Connection From URI To URI Save Save & Connect Cancel

### Connection Successful

**Test Connection**

Result	Status	
Connect to nq-aws-us-vi-dev-lh-docdb.cluster-crybd8j3v.us-east-1.docdb.amazonaws.com	OK	11486 ms
Build SSH tunnel to ec2-3-210-202-22.compute-1.amazonaws.com:22	OK	636 ms

```
1 /NQ.AWS.US.DEV.LH.MONGODB (1).pem", "passphrase": "", "port": 22
2 , "server": "ec2-3-210-202-22.compute-1.amazonaws.com", "username"
3 : "ec2-user"}
4
5 17:33:41.446 *** Finished "Connect to SSH Server" 635 ms***
6 {"askForPassword": false, "authMode": 2, "keyPath": "/Users/ayush/Downloads
7 /NQ.AWS.US.DEV.LH.MONGODB (1).pem", "passphrase": "", "port": 22
8 , "server": "ec2-3-210-202-22.compute-1.amazonaws.com", "username"
9 : "ec2-user"}
10
11 17:33:41.448 *** Starting MongoClient.connect ***
12 {"options": {"appName": "NoSQLBoosterV5.2.12.142424.576", "autoReconnect"
13 : true, "checkServerIdentity": false, "keepAlive": 60000, "poolSize": 0
14 , "promoteLongs": false, "promoteValues": false, "reconnectTries": 172800
15 , "socketTimeoutMS": 0, "ssl": true, "sslCA": "/Users/ayush/rds-combined
16 -ca-bundle.pem", "sslValidate": true, "useNewUrlParser": true, "uri"
17 : "mongodb://NQUSDevDocDBMaster:*****@localhost:49510?authSource
18 =admin&ssl=true"}
```

17:33:52.930 Topology Opening  
{"topologyId": 25}

17:33:52.930 Server Opening  
{"address": "localhost:49510", "topologyId": 25}

Hide/Show Details Close

### Working with Mongoose-

```
mongoose.connect(database.
url, {
    ssl: true,
    sslValidate:
false,
    useNewUrlParser:
true,
    sslCA: [fs.
readFileSync('./rds-combined-
ca-bundle.pem')]
})
.then(() => console.log
('Connection to DB
successful'))
.catch((err) => console.error
(err, 'Error'));
```

### Working with Mongo Client

```
//From https://docs.aws.
amazon.com/documentdb/latest
/developerguide
/connect_programmatically.html

var MongoClient = require
('mongodb').MongoClient,
    f = require('util').format,
    fs = require('fs');

//Specify the Amazon
DocumentDB cert
```

```

var ca = [fs.readFileSync
("rds-combined-ca-bundle.
pem")];

//Create a MongoDB client,
open a connection to Amazon
DocumentDB as a replica set,
// and specify the read
preference as secondary
preferred
var client = MongoClient.
connect(
'mongodb://<sample-user>:
<password>@sample-cluster.
node.us-east-1.docdb.
amazonaws.com:27017/sample-
database?
ssl=true&replicaSet=rs0&readPr
eference=secondaryPreferred',
{
  sslValidate: true,
  sslCA:ca,
  useNewUrlParser: true
},
function(err, client) {
  if(err)
    throw err;

    //Specify the database to
be used
    db = client.db('sample-
database');

    //Specify the collection
to be used
    col = db.collection
('sample-collection');

    //Insert a single document
col.insertOne
({'hello':'Amazon
DocumentDB'}, function(err,
result){
  //Find the document
that was previously written
col.findOne
({'hello':'Amazon
DocumentDB'}, function(err,
result){
    //Print the result to

```

```
the screen
    console.log(result);

    //Close the connection
    client.close()
  });
});
});
```

#### SSH Tunneling command

```
ssh -i "NQ.AWS.US.DEV.LH.MONGODB.pem" -L 27017:nqi-aws-us-vi-dev-lh-  
docdb.cluster-crlybd8jjh3v.us-east-1.docdb.amazonaws.com:27017 ec2-  
user@ec2-3-210-202-22.compute-1.amazonaws.com -N
```