MongoDB Installation Guide

Comp 533

1 Install

1. Go to

```
https://www.mongodb.com/download-center#community
```

- 2. Download the community server for your platform
- 3. Also download Compass for your platform
- 4. Install them

2 Setup

- 1. Set up the data directory sudo mkdir -p /data/db
- 2. Add the path and / or aliases to .bash_profile

```
#mongodb
export PATH="/Users/risamyers/Documents/Technical/mongodb-osx-x86\_64-3.4.10/bin:$PATH"}
alias mongo=/Users/risamyers/Documents/Technical/mongodb-osx-x86\_64-3.4.10/bin/mongo}
alias mongod=/Users/risamyers/Documents/Technical/mongodb-osx-x86\_64-3.4.10/bin/mongod}
alias mongos=/Users/risamyers/Documents/Technical/mongodb-osx-x86\_64-3.4.10/bin/mongos}
alias mongoimport=/Users/risamyers/Documents/Technical/mongodb-osx-x86\_64-3.4.10/bin/mongoimport}
```

- Start the server mongod --port 27017 --dbpath /data/db
- 4. Connect to the mongodb instance mongo --port 27017
- 5. Create the user administrator (in the admin authentication database).

```
use admin
db.createUser(
    {
        user: "myUserAdmin",
        pwd: "abc123",
        roles: [ { role: "userAdminAnyDatabase", db: "admin" } ]
    }
)
exit
```

- 6. Re-start the MongoDB instance with access control. mongod --auth --port 27017 --dbpath /data/db
- 7. Connect and authenticate as the user administrator mongo --port 27017 -u "myUserAdmin" -p "abc123" --authenticationDatabase "admin"
- 8. Create additional users as needed for your deployment (in ricedb database)

```
use ricedb
db.createUser(
    {
      user: "ricedb",
      pwd: "mypwd",
      roles: [ { role: "readWrite", db: "ricedb" } ]
    }
)
exit
```

9. Connect and authenticate as ricedb and connect to the ricedb database mongo --port 27017 -u "ricedb" -p "myPwd" --authenticationDatabase "ricedb" ricedb

3 Run

- Start the MongoDB instance with access control. mongod --auth --port 27017 --dbpath /data/db
- 2. Load the Assignment 5 data cd to the path to where you have downloaded the assignment 5 data files and run the following FROM THE COMMAND PROMPT

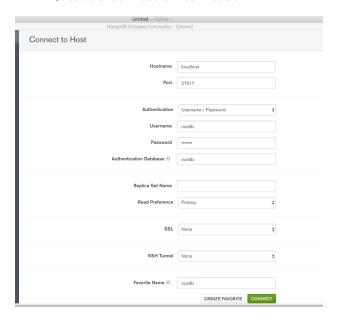
```
mongoimport --db ricedb --collection componentCategory --jsonArray --file componentCat.json --username ricedb --password myPwd mongoimport --db ricedb --collection employee --jsonArray --file employee.json --username ricedb --password myPwd mongoimport --db ricedb --collection event --jsonArray --file event.json --username ricedb --password myPwd mongoimport --db ricedb --collection eventAssignment --jsonArray --file eventAssignment.json --username ricedb --password myPwd mongoimport --db ricedb --collection itemSold --jsonArray --file itemSold.json --username ricedb --password myPwd mongoimport --db ricedb --collection location --jsonArray --file location.json --username ricedb --password myPwd mongoimport --db ricedb --collection menu --jsonArray --file menu.json --username ricedb --password myPwd mongoimport --db ricedb --collection menultem --jsonArray --file menultem.json --username ricedb --password myPwd mongoimport --db ricedb --collection product --jsonArray --file product.json --username ricedb --password myPwd mongoimport --db ricedb --collection productSold --jsonArray --file productSold.json --username ricedb --password myPwd mongoimport --db ricedb --collection ticket --jsonArray --file recipeItem.json --username ricedb --password myPwd mongoimport --db ricedb --collection ticket --jsonArray --file ticket.json --username ricedb --password myPwd mongoimport --db ricedb --collection ticket --jsonArray --file ticket.json --username ricedb --password myPwd mongoimport --db ricedb --collection ticket --jsonArray --file ticket.json --username ricedb --password myPwd mongoimport --db ricedb --collection ticket --jsonArray --file ticket.json --username ricedb --password myPwd mongoimport --db ricedb --collection ticket --jsonArray --file unit.json --username ricedb --password myPwd mongoimport --db ricedb --collection ticket --jsonArray --file ticket.json --username ricedb --password myPwd mongoimport --db ricedb --collection ticket --jsonArray --file tocket.json --username ricedb --password myPwd
```

- 3. Check that the data is correct
- 4. Start the instance with your user mongo --port 27017 -u "ricedb" -p "mypwd" --authenticationDatabase "ricedb" ricedb
- 5. db.<colName>.find(); Where <colName> is any of the above collection names

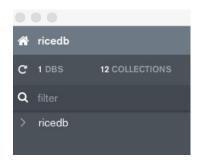
3.1 Compass

Compass is a browsing tool that has some limited capabilities in the free edition. To use it:

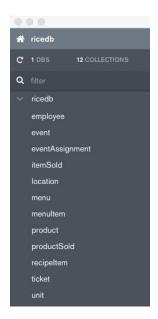
- 1. Open MongoDB Compass
- 2. Create a connection to ricedb



- 3. Click "CREATE FAVORITE"
- 4. Click "CONNECT"
- 5. Click the > next to riced to see what is in riced



6. It should contain



- 7. Run a simple filter
- 8. Click on menuItem, enter the following criteria, and click on "Find"



9. You should see

