

# MongoDB Administration

## Installation

### Installation on Ubuntu with sudo

1. Get package signing key `sudo apt-key adv -keyserver hkp://keyserver.ubuntu.com:80 -recv EA312927`
2. Create package list file `echo "deb http://repo.mongodb.org/apt/ubuntu $VERSION/mongodb-org/3.2 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-3.2.list` with `$VERSION: 12.04 = precise ; 14.04 = trusty ; 16.04 = xenial`
3. Reload local packages `sudo apt-get update`
4. Install `sudo apt-get install -y mongodb-org`

### Install from source

1. Download tarball `curl -O https://fastdl.mongodb.org/linux/mongodb-linux-x86_64-3.4.0-rc4.tgz`
2. Untar `tar -zxvf mongodb-linux-x86_64-3.4.0-rc4.tgz`
3. Move to directory `mkdir -p mongodb ; cp -R -n mongodb-linux-x86_64-3.4.0-rc4/ mongodb`
4. add to path

## Authentication

Create admin db

Create user with roles : `createUser({user:"",pwd:"",roles:["root"]})` for superadmin root.

## Dump/restore

`mongodump/mongorestore`

## Import/Export

`mongoimport/mongoexport`

→ for importing from external source : csv, json

## RMongo

To install : depending on Java config, installation of RJava may require R CMD `javareconf` before.

**Commands**

```
mongo <- mongoDbConnect("test", "localhost", 27017)
output <- dbGetQuery(mongo, "test_data", '"foo": "bar"')
output <- dbGetQueryForKeys(mongo, "test_data", '"foo": "bar"', '"foo": 1')
dbDisconnect(mongo)
```

## Upgrade database to a new mongo version

1. Install and run new version: see install from source (binaries)
2. Connect to the database and activate upgrade (here from 3.4 to 3.6): `db.adminCommand( setFeatureCompatibilityVersion "3.6" )` (idem for 4.0)

*Note: upgrade to 4.0 requires first upgrade to 3.6*

## Text index

```
db.COLLECTION.createIndex( FIELD: "text" )
```

## References