```
1. Windows
 1
      1)MongoDB Download Center(
 2
      https://www.mongodb.com/download-center?jmp=nav#community)
 3
 4
      2)Installation Manual:
      https://docs.mongodb.com/manual/tutorial/install-mongodb-on-windows/
 5
 6
      3)Requirements
 7
         -MongoDB Community Edition requires Windows Server 2008 R2, Windows Vista, or
         later.
         -The .msi installer includes all other software dependencies and will automatically
 8
         upgrade any older version of MongoDB installed using an .msi file.
 9
      4)Get MongoDB Community Edition
10
         -MongoDB for Windows 64-bit
11
         -Runs only on Windows Server 2008 R2, Windows 7 64-bit, and newer versions of
12
         Windows.
13
         -To find which version of Windows you are running, enter the following commands in
         the Command Prompt or Powershell:
            --wmic os get caption
14
15
            --wmic os get osarchitecture
16
17
              C:\Users\Instructor>wmic os get caption
18
              Caption
19
              Microsoft Windows 10 Enterprise Evaluation
20
21
              C:\Users\Instructor>wmic os get osarchitecture
              OSArchitecture
22
23
              64-bit
24
25
         -Download MongoDB for Windows.
            --Windows Server 2008 R2 64-bit and later, with SSL support x64
26
            --mongodb-win32-x86 64-2008plus-ssl-3.4.4-signed.msi
27
28
29
      5)Install MongoDB Community Edition
30
         -C:\Program Files\MongoDB\Server\3.4\
31
32
         -Component Sets
33
           --Server : mongod.exe
           --Router: mongos.exe
34
35
           --Client: mongo.exe
            --MonitoringTools : mongostat.exe, mongotop.exe
36
37
           --ImportExportTools: mongodump.exe, mongorestore.exe, mongoexport.exe,
           mongoimport.exe
            --MiscellaneousTools: bsondump.exe, mongofiles.exe, mongooplog.exe,
38
            mongoperf.exe
39
40
      6)Configuration
41
         -Register Windows System variables
            --%PATH% = ...;C:\Program Files\MongoDB\Server\3.4\bin;
42
            --SET PATH
43
44
              Path=...C:\Program Files\MongoDB\Server\3.4\bin;
45
46
         -Start MongoDB
            --To start MongoDB, run mongod.exe. For example, from the Command Prompt:
47
48
            >mondod.exe
            2017-05-09T09:06:57.173+0900 I CONTROL [initandlisten] MongoDB starting:
49
            pid=6992 port=27017 dbpath=C:\data\db\ 64-bit host=Academy
            2017-05-09T09:06:57.176+0900 I CONTROL [initandlisten] targetMinOS:
50
            Windows 7/Windows Server 2008 R2
```

```
2017-05-09T09:06:57.177+0900 I CONTROL [initandlisten] db version v3.4.4
51
52
            2017-05-09T09:06:57.177+0900 I CONTROL [initandlisten] git version:
            888390515874a9debd1b6c5d36559ca86b44babd
53
            2017-05-09T09:06:57.178+0900 I CONTROL [initandlisten] OpenSSL version:
            OpenSSL1.0.1u-fips 22 Sep 2016
54
            2017-05-09T09:06:57.178+0900 I CONTROL [initandlisten] allocator: tcmalloc
            2017-05-09T09:06:57.178+0900 I CONTROL [initandlisten] modules: none
55
            2017-05-09T09:06:57.179+0900 I CONTROL [initandlisten] build environment:
56
            2017-05-09T09:06:57.179+0900 I CONTROL [initandlisten]
57
                                                                       distmod:
            2008plus-ssl
58
            2017-05-09T09:06:57.180+0900 I CONTROL [initandlisten]
                                                                       distarch: x86 64
            2017-05-09T09:06:57.181+0900 I CONTROL [initandlisten]
59
                                                                       target arch: x86 64
            2017-05-09T09:06:57.182+0900 I CONTROL [initandlisten] options: {}
60
            2017-05-09T09:06:57.188+0900 I STORAGE [initandlisten] exception in
61
           initAndListen: 29 Data directory C:\data\db\ not found., terminating
            2017-05-09T09:06:57.193+0900 I NETWORK [initandlisten] shutdown: going to
62
            close listening sockets...
63
            2017-05-09T09:06:57.199+0900 I NETWORK [initandlisten] shutdown: going to
           flush diaglog...
            2017-05-09T09:06:57.204+0900 I CONTROL [initandlisten] now exiting
64
            2017-05-09T09:06:57.209+0900 I CONTROL [initandlisten] shutting down with
65
           code: 100
66
            >
67
68
         -Set up the MongoDB environment
69
            --MongoDB requires a data directory to store all data.
            --MongoDB's default data directory path is the absolute path \data\db on the drive
70
            from which you start MongoDB.
71
           --Create this folder by running the following command in a Command Prompt:
72
              md \data\db
73
            --You can specify an alternate path for data files using the --dbpath option to
            mongod.exe,
74
              for example:
              "C:\Program Files\MongoDB\Server\3.4\bin\mongod.exe" --dbpath
75
              d:\test\mongodb\data
76
            -- If your path includes spaces, enclose the entire path in double quotes, for example:
              "C:\Program Files\MongoDB\Server\3.4\bin\mongod.exe" --dbpath
77
              "d:\test\mongo db data"
78
79
           In Command Administrator Prompt,
            C:\Program Files\MongoDB>md .\data\db
80
81
           C:\Program Files\MongoDB>mongod --dbpath .\data\db
82
            2017-05-09T09:41:36.843+0900 I CONTROL [initandlisten] MongoDB starting:
83
            pid=8892 port=27017 dbpath=.\data\db 64-bit host=Academy
            2017-05-09T09:41:36.845+0900 I CONTROL [initandlisten] targetMinOS:
84
            Windows 7/Windows Server 2008 R2
            2017-05-09T09:41:36.845+0900 I CONTROL [initandlisten] db version v3.4.4
85
86
            2017-05-09T09:41:36.846+0900 I CONTROL [initandlisten] git version:
           888390515874a9debd1b6c5d36559ca86b44babd
            2017-05-09T09:41:36.846+0900 I CONTROL [initandlisten] OpenSSL version:
87
            OpenSSL 1.0.1u-fips 22 Sep 2016
88
            2017-05-09T09:41:36.846+0900 I CONTROL [initandlisten] allocator: tcmalloc
            2017-05-09T09:41:36.847+0900 I CONTROL [initandlisten] modules: none
89
            2017-05-09T09:41:36.847+0900 I CONTROL [initandlisten] build environment:
90
91
            2017-05-09T09:41:36.847+0900 I CONTROL [initandlisten]
                                                                       distmod:
            2008plus-ssl
            2017-05-09T09:41:36.848+0900 I CONTROL [initandlisten]
92
                                                                       distarch: x86 64
93
            2017-05-09T09:41:36.848+0900 I CONTROL [initandlisten]
                                                                       target arch: x86 64
94
            2017-05-09T09:41:36.849+0900 I CONTROL [initandlisten] options: { storage: {
```

```
dbPath: ".\data\db" } }
 95
             2017-05-09T09:41:36.854+0900 I STORAGE [initandlisten] wiredtiger_open
             config:create,cache_size=3547M,session_max=20000,eviction=(threads_min=4,thre
             ads max=4),config base=false,statistics=(fast),log=(enabled=true,archive=true,pat
             h=journal,compressor=snappy),file_manager=(close_idle_time=100000),checkpoint
             =(wait=60,log_size=2GB),statistics_log=(wait=0),
             2017-05-09T09:41:37.030+0900 I CONTROL [initandlisten]
 96
             2017-05-09T09:41:37.030+0900 I CONTROL [initandlisten] ** WARNING: Access
 97
             control is not enabled for the database.
 98
             2017-05-09T09:41:37.032+0900 I CONTROL [initandlisten] **
                                                                               Read and
             write access to data and configuration is unrestricted.
             2017-05-09T09:41:37.033+0900 I CONTROL [initandlisten]
 99
             2017-05-09T09:41:38.849+0900 I FTDC
100
                                                       [initandlisten] Initializing full-time
             diagnostic data capture with directory './data/db/diagnostic.data'
             2017-05-09T09:41:38.891+0900 I INDEX
101
                                                       [initandlisten] build index on:
             admin.system.version properties: { v: 2, key: { version: 1 }, name:
             "incompatible_with_version_32", ns: "admin.system.version" }
                                                       [initandlisten]
102
             2017-05-09T09:41:38.892+0900 I INDEX
                                                                           building index
             using bulk method; build may temporarily use up to 500 megabytes of RAM
103
             2017-05-09T09:41:38.901+0900 I INDEX
                                                      [initandlisten] build index done.
             scanned 0 total records, 0 secs
             2017-05-09T09:41:38.904+0900 I COMMAND [initandlisten] setting
104
             featureCompatibilityVersion to 3.4
105
             2017-05-09T09:41:38.906+0900 I NETWORK [thread1] waiting for connections
             on port 27017
106
             In the [Windows Firewall has blocked some features of this app],
107
             Click [Allow access] button
108
109
110
111
        7)Connect to MongoDB
112
          -To connect to MongoDB through the mongo.exe shell, open another Command Prompt.
113
114
          -In Command Prompt,
115
             C:\Users\Instructor>mongo
             MongoDB shell version v3.4.4
116
             connecting to: mongodb://127.0.0.1:27017
117
             MongoDB server version: 3.4.4
118
119
             Welcome to the MongoDB shell.
120
             For interactive help, type "help".
             For more comprehensive documentation, see
121
122
                       http://docs.mongodb.org/
             Questions? Try the support group
123
124
                       http://groups.google.com/group/mongodb-user
125
             Server has startup warnings:
             2017-05-09T09:41:37.030+0900 I CONTROL [initandlisten]
126
             2017-05-09T09:41:37.030+0900 I CONTROL [initandlisten] ** WARNING: Access
127
             control is not enabled for the database.
128
             2017-05-09T09:41:37.032+0900 I CONTROL [initandlisten] **
                                                                               Read and
             write access to data and configuration is unrestricted.
             2017-05-09T09:41:37.033+0900 I CONTROL [initandlisten]
129
130
131
132
             In Command Administrator Prompt,
             2017-05-09T09:44:53.631+0900 I NETWORK [thread1] connection accepted from
133
             127.0.0.1:50293 #1 (1 connection now open)
             2017-05-09T09:44:53.633+0900 I NETWORK [conn1] received client metadata
134
             from 127.0.0.1:50293 conn1: { application: { name: "MongoDB Shell" }, driver: {
             name: "MongoDB Internal Client", version: "3.4.4" }, os: { type: "Windows",
             name: "Microsoft Windows 8", architecture: "x86_64", version: "6.2 (build 9200)"
```

```
135
       8) Connecting using Configuration File
136
137
          -mongodb를 실행시 --dbpath등의 옵션을 사용하여 접속하는 방법이 있다.
          -하지만, 별도의 환경설정 파일을 저장하고, 이 실행파일을 Mongodb 실행시 전달하여 간단하게
138
          실행하는 것도 가능하다.
          -Configuration File: mongod.conf
139
140
               systemLog:
                  destination: file
141
142
                  path: "C:/Program Files/MongoDB/data/log/mongod.log"
143
                  logAppend: true
               storage:
144
145
                  journal:
146
                       enabled: true
                  dbPath: "C:/Program Files/MongoDB/data/db"
147
148
               net:
149
                  bindIp: 127.0.0.1
150
                   port: 27017
151
               setParameter:
152
                  enableLocalhostAuthBypass: false
153
154
               C:\Program Files\MongoDB\data>md log
155
               C:\Program Files\MongoDB>mongod --config mongod.conf
156
157
       9)Configure a Windows Service for MongoDB Community Edition
158
          -Install the MongoDB service by starting mongod.exe with the --install option and the
          -config option to specify the previously created configuration file.
          -Open an Administrator command prompt.
159
             "C:\Program Files\MongoDB\Server\3.4\bin\mongod.exe" --config "C:\Program
160
             Files\MongoDB\Server\mongod.conf" --install
161
162
          -Start the MongoDB service.
163
             net start MongoDB
164
165
          -Stop or remove the MongoDB service as needed.
             net stop MongoDB
166
167
168
          -To remove the MongoDB service use the following command:
169
             "C:\Program Files\MongoDB\Server\3.4\bin\mongod.exe" --remove
170
171
172
     2. Ubuntu
173
        1)MongoDB only provides packages for 64-bit LTS (long-term support) Ubuntu releases.
174
          -12.04 LTS (precise), 14.04 LTS (trusty), 16.04 LTS (xenial), and so on.
175
          -Commercial support is no longer provided for MongoDB on 32-bit platforms (Linux
          and Windows).
176
          -Linux DEB packages are also no longer available.
177
          -However, binary archives are still available.
178
179
       2)packages:
180
          -mongodb-org: A metapackage that will automatically install the four component
          packages listed below.
181
          -mongodb-org-server: Contains the mongod daemon and associated configuration
          and init scripts.
          -mongodb-org-mongos : Contains the mongos daemon.
182
183
          -mongodb-org-shell: Contains the mongo shell.
          -mongodb-org-tools: Contains the following MongoDB tools: mongoimport
184
          bsondump, mongodump, mongoexport, mongofiles, mongooplog, mongoperf,
```

mongorestore, mongostat, and mongotop.

```
186
       3)Install MongoDB Community Edition
187
          -Import the public key used by the package management system.
             $ sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv
188
             0C49F3730359A14518585931BC711F9BA15703C6
189
190
          -Create a list file for MongoDB.
             $ echo "deb [ arch=amd64,arm64 ] http://repo.mongodb.org/apt/ubuntu
191
             xenial/mongodb-org/3.4 multiverse" | sudo tee
             /etc/apt/sources.list.d/mongodb-org-3.4.list
192
             deb [ arch=amd64,arm64 ] http://repo.mongodb.org/apt/ubuntu
             xenial/mongodb-org/3.4 multiverse
193
194
          -Reload local package database.
195
             $ sudo apt-get update
196
197
          -Install the MongoDB packages.
             $ sudo apt-get install -y mongodb-org
198
199
200
       4)Run MongoDB Community Edition
201
          -The MongoDB instance stores its data files in /var/lib/mongodb and its log files in
          /var/log/mongodb by default, and runs using the mongodb user account.
          -You can specify alternate log and data file directories in /etc/mongod.conf.
202
203
204
          -Start MongoDB.
205
             $ sudo service mongod start
206
          -Verify that MongoDB has started successfully
207
             --Where <port> is the port configured in /etc/mongod.conf, 27017 by default.
208
209
               [initandlisten] waiting for connections on port <port>
210
211
          -Stop MongoDB.
212
             $ sudo service mongod stop
213
214
          -Restart MongoDB.
215
             $ sudo service mongod restart
216
       5)Connect to MongoDB
217
218
             $ mongo
219
             MongoDB shell version v3.4.4
220
             connecting to: mongodb://127.0.0.1:27017
221
             MongoDB server version: 3.4.4
222
             Server has startup warnings:
             2017-05-10T17:01:24.631+0900 I STORAGE [initandlisten]
223
224
             2017-05-10T17:01:24.631+0900 I STORAGE [initandlisten] ** WARNING: Using
             the XFS filesystem is strongly recommended with the WiredTiger storage engine
225
             2017-05-10T17:01:24.631+0900 I STORAGE [initandlisten] **
                                                                               See
             http://dochub.mongodb.org/core/prodnotes-filesystem
             2017-05-10T17:01:24.796+0900 I CONTROL [initandlisten]
226
227
             2017-05-10T17:01:24.796+0900 I CONTROL [initandlisten] ** WARNING: Access
             control is not enabled for the database.
228
             2017-05-10T17:01:24.796+0900 I CONTROL [initandlisten] **
                                                                               Read and
             write access to data and configuration is unrestricted.
             2017-05-10T17:01:24.796+0900 I CONTROL [initandlisten]
229
230
             2017-05-10T17:01:24.796+0900 I CONTROL [initandlisten]
             2017-05-10T17:01:24.796+0900 I CONTROL [initandlisten] ** WARNING:
231
             /sys/kernel/mm/transparent hugepage/enabled is 'always'.
232
             2017-05-10T17:01:24.796+0900 I CONTROL [initandlisten] **
                                                                              We suggest
             setting it to 'never'
             2017-05-10T17:01:24.796+0900 I CONTROL [initandlisten]
233
             2017-05-10T17:01:24.796+0900 I CONTROL [initandlisten] ** WARNING:
234
```

```
/sys/kernel/mm/transparent_hugepage/defrag is 'always'.
235
             2017-05-10T17:01:24.796+0900 I CONTROL [initandlisten] **
                                                                               We suggest
             setting it to 'never'
             2017-05-10T17:01:24.796+0900 I CONTROL [initandlisten]
236
237
238
        6) Uninstall MongoDB Community Edition
          -Stop MongoDB.
239
240
             $ sudo service mongod stop
          -Remove Packages.
241
242
             $ sudo apt-get purge mongodb-org*
          -Remove Data Directories.
243
244
             $ sudo rm -r /var/log/mongodb
             $ sudo rm -r /var/lib/mongodb
245
246
247
248
     3. CentOS
249
        1)Commercial support is no longer provided for MongoDB on 32-bit platforms (Linux
        and Windows).
        2)Linux RPM packages are also no longer available.
250
251
        3)However, binary archives are still available.
252
        4)packages:
253
          -mongodb-org: A metapackage that will automatically install the four component
          packages listed below.
254
          -mongodb-org-server: Contains the mongod daemon and associated configuration
          and init scripts.
255
          -mongodb-org-mongos : Contains the mongos daemon.
256
          -mongodb-org-shell: Contains the mongo shell.
257
          -mongodb-org-tools: Contains the following MongoDB tools: mongoimport
          bsondump, mongodump, mongoexport, mongofiles, mongooplog, mongoperf,
          mongorestore, mongostat, and mongotop.
258
259
        5)The default /etc/mongod.conf configuration file supplied by the packages have bind_ip
        set to 127.0.0.1 by default.
        6)Install MongoDB Community Edition
260
          -Configure the package management system (yum).
261
             --Create a /etc/yum.repos.d/mongodb-org-3.4.repo file so that you can install
262
             MongoDB directly, using yum.
263
             --Changed in version 3.0: MongoDB Linux packages are in a new repository
             beginning with 3.0.
264
             --For the latest stable release of MongoDB
265
               [mongodb-org-3.4]
266
               name=MongoDB Repository
267
               baseurl=https://repo.mongodb.org/yum/redhat/$releasever/mongodb-org/3.4/x8
               6_64/
               qpqcheck=1
268
269
               enabled=1
270
               gpgkey=https://www.mongodb.org/static/pgp/server-3.4.asc
271
272
          -Install the MongoDB packages and associated tools.
             --To install the latest stable version of MongoDB, issue the following command:
273
                # yum install -y mongodb-org
274
275
276
          7) Run MongoDB Community Edition
             -Configure SELinux
277
                -- If you are using SELinux, you must configure SELinux to allow MongoDB to
278
               start on Red Hat Linux-based systems (Red Hat Enterprise Linux or CentOS
                -- To configure SELinux, administrators have three options:
279
280
                  --- If SELinux is in enforcing mode, enable access to the relevant ports that
```

the MongoDB deployment will use (e.g. 27017). 281 For default settings, this can be accomplished by running semanage port -a -t mongod\_port\_t -p tcp 27017 282 ---Disable SELinux by setting the SELINUX setting to disabled in 283 /etc/selinux/config. 284 SELINUX=disabled 285 You must reboot the system for the changes to take effect. ---Set SELinux to permissive mode in /etc/selinux/config by setting the 286 SELINUX setting to permissive. 287 SELINUX=permissive 288 You must reboot the system for the changes to take effect. --Alternatively, you can choose not to install the SELinux packages when you are 289 installing your Linux operating system, or choose to remove the relevant packages. This option is the most invasive and is not recommended 290 291 8) Data Directories and Permissions 292 -The MongoDB instance stores its data files in /var/lib/mongo and its log files in /var/log/mongodb by default, and runs using the mongod user account. -You can specify alternate log and data file directories in /etc/mongod.conf. 293 294 -See systemLog.path and storage.dbPath for additional information. -If you change the user that runs the MongoDB process, you must modify the 295 access control rights to the /var/lib/mongo and /var/log/mongodb directories to give this user access to these directories. 296 297 9)Start MongoDB. 298 # service mongod start 299 300 -Verify that MongoDB has started successfully --You can verify that the mongod process has started successfully by checking 301 the contents of the log file at /var/log/mongodb/mongod.log for a line reading 302 --[initandlisten] waiting for connections on port <port> 303 --where <port> is the port configured in /etc/mongod.conf, 27017 by default. 304 305 10)You can optionally ensure that MongoDB will start following a system reboot by issuing the following command: 306 # chkconfig mongod on 11)Stop MongoDB. 307 308 # service mongod stop 309 12) Restart Mongo DB. 310 # service mongod restart 311 -You can follow the state of the process for errors or important messages by watching the output in the /var/log/mongodb/mongod.log file. 13)Begin using MongoDB. 312 313 314 14) Uninstall MongoDB Community Edition 315 -To completely remove MongoDB from a system, you must remove the MongoDB applications themselves, the configuration files, and any directories containing data and logs. 316 -Stop MongoDB. 317 # service mongod stop -Remove Packages. 318 319 # yum erase \$(rpm -qa | grep mongodb-org) -Remove Data Directories. 320 321 # rm -r /var/log/mongodb # rm -r /var/lib/mongo 322 323 324 325 4. 연결 후 테스트 326 1)help 327 > help

```
328
329
             db.help()
                                    help on db methods
330
             db.mycoll.help()
                                      help on collection methods
             sh.help()
                                   sharding helpers
331
332
             rs.help()
                                   replica set helpers
333
             help admin
                                     administrative help
334
             help connect
                                     connecting to a db help
             help keys
                                    kev shortcuts
335
336
             help misc
                                    misc things to know
             help mr
                                    mapreduce
337
338
             show dbs
339
                                    show database names
340
             show collections
                                      show collections in current database
341
             show users
                                     show users in current database
342
             show profile
                                    show most recent system.profile entries with time >= 1ms
343
             show logs
                                    show the accessible logger names
                                       prints out the last segment of log in memory, 'global' is
             show log [name]
344
             default
345
             use <db name>
                                        set current database
346
             db.foo.find()
                                    list objects in collection foo
                                       list objects in foo where a == 1
347
             db.foo.find( { a : 1 } )
                                 result of the last line evaluated; use to further iterate
348
             DBQuery.shellBatchSize = x set default number of items to display on shell
349
350
             exit
                                  quit the mongo shell
351
             >
352
353
        2)사용가능한 DB보기
354
             > show dbs
355
             admin 0.000GB
356
                     0.000GB
             local
357
358
        3)db.help()를 사용하여 데이타베이스에 사용할 수 있는 명령어 보기
359
             > db.help()
360
             DB methods:
                db.adminCommand(nameOrDocument) - switches to 'admin' db, and runs
361
                command [ just calls db.runCommand(...) ]
                db.auth(username, password)
362
363
                db.cloneDatabase(fromhost)
364
                db.commandHelp(name) returns the help for the command
                db.copyDatabase(fromdb, todb, fromhost)
365
                db.createCollection(name, { size : ..., capped : ..., max : ... } )
366
                db.createView(name, viewOn, [ { $operator: {...}}, ... ], { viewOptions } )
367
                db.createUser(userDocument)
368
369
                db.currentOp() displays currently executing operations in the db
                db.dropDatabase()
370
                db.eval() - deprecated
371
372
                db.fsyncLock() flush data to disk and lock server for backups
                db.fsyncUnlock() unlocks server following a db.fsyncLock()
373
374
                db.getCollection(cname) same as db['cname'] or db.cname
375
                db.getCollectionInfos([filter]) - returns a list that contains the names and
                options of the db's collections
376
                db.getCollectionNames()
377
                db.getLastError() - just returns the err msg string
378
                db.getLastErrorObj() - return full status object
                db.getLogComponents()
379
380
                db.getMongo() get the server connection object
                db.getMongo().setSlaveOk() allow queries on a replication slave server
381
                db.getName()
382
                db.getPrevError()
383
384
                db.getProfilingLevel() - deprecated
```

```
385
                db.getProfilingStatus() - returns if profiling is on and slow threshold
                db.getReplicationInfo()
386
                db.getSiblingDB(name) get the db at the same server as this one
387
                db.getWriteConcern() - returns the write concern used for any operations on
388
                this db, inherited from server object if set
                db.hostInfo() get details about the server's host
389
                db.isMaster() check replica primary status
390
391
                db.killOp(opid) kills the current operation in the db
                db.listCommands() lists all the db commands
392
393
                db.loadServerScripts() loads all the scripts in db.system.js
394
                db.logout()
395
                db.printCollectionStats()
                db.printReplicationInfo()
396
397
                db.printShardingStatus()
                db.printSlaveReplicationInfo()
398
                db.dropUser(username)
399
                db.repairDatabase()
400
401
                db.resetError()
                db.runCommand(cmdObj) run a database command. if cmdObj is a string, turns
402
                it into { cmdObj : 1 }
                db.serverStatus()
403
                db.setLogLevel(level, < component > )
404
405
                db.setProfilingLevel(level, <slowms>) 0=off 1=slow 2=all
406
                db.setWriteConcern( <write concern doc> ) - sets the write concern for writes to
                the db
407
                db.unsetWriteConcern( <write concern doc> ) - unsets the write concern for
                writes to the db
                db.setVerboseShell(flag) display extra information in shell output
408
409
                db.shutdownServer()
410
                db.stats()
411
                db.version() current version of the server
412
             >
413
414
        4)test 데이타베이스 사용하기
              > use test
415
             switched to db test
416
417
418
             >show dbs
419
             admin 0.000GB
420
             local
                     0.000GB
421
422
             >db.test.save({a:1})
             writeResult({"nInserted":1})
423
424
425
             >show dbs
426
             admin 0.000GB
427
             local 0.000GB
428
                    0.000GB
             test
429
430
             >db.stats()
431
              {
                    "db": "test",
432
                    "collections": 1,
433
434
                    "views": 0,
                    "objects": 1,
435
                    "avgObjSize": 33,
436
437
                    "dataSize": 33,
                    "storageSize": 16384,
438
                    "numExtents": 0,
439
440
                    "indexes": 1,
```

```
441
                  "indexSize": 16384,
                  "ok": 1
442
443
            }
444
445
       5)mongoDB 종료하기
446
            > db.shutdownServer()
447
            shutdown command only works with the admin database; try 'use admin'
448
            > use admin
449
            switched to db admin
450
            > db.shutdownServer()
451
            server should be down...
452
            2017-05-10T17:17:28.641+0900 I NETWORK [thread1] trying reconnect to
            127.0.0.1:27017 (127.0.0.1) failed
453
            2017-05-10T17:17:28.641+0900 W NETWORK [thread1] Failed to connect to
            127.0.0.1:27017, in(checking socket for error after poll), reason: Connection refused
            2017-05-10T17:17:28.641+0900 I NETWORK [thread1] reconnect
454
            127.0.0.1:27017 (127.0.0.1) failed failed
455
456
457
458
     5. Connect to MongoDB remotely
459
       1)MongoDB는 기본적으로 127.0.0.1 즉 로컬에서만 접속가능하도록 설정되어 있다.
460
       2)개발하다보면, 다른 서버에서도 MongoDB에 접속해서 데이터 입력, 수정, 삭제, 받아오기 등을 처리해야
461
       3)/etc/mongod.conf 파일을 수정한다.
462
          $ sudo vi /etc/mongod.conf
463
       4) 아래와 같이 기본설정은 bind_ip에 로컬이 들어가 있다.
464
          bind_ip = 127.0.0.1
       5)0.0.0.0 으로 변경하면, 다른 어느 곳에서나 접속이 가능하도록 변경된다.
465
466
          bind ip = 0.0.0.0
467
       6)보안이나, 다른 이유로 특정 ip만 허용하고자 하려면 아래와 같이 설정하면 된다.
468
          bind_ip = 127.0.0.1, 192.168.56.5(자기 머신 IP)
469
       7)아이피 주소 사이에 콤마로 구분하면 된다.
470
       8)서비스 재시작
471
          $ sudo service mongod restart
472
       9)OS의 Firewall에서 27017 포트를 열어줘야
473
       10)Windows Client에서 연결하기
474
          C:\Users\Instructor>mongo 192.168.56.5:27017
475
          MongoDB shell version v3.4.4
          connecting to: 192.168.56.5:27017
476
477
          MongoDB server version: 3.4.4
478
          Server has startup warnings:
          2017-05-11T23:20:47.425+0900 I STORAGE [initandlisten]
479
480
          2017-05-11T23:20:47.425+0900 I STORAGE [initandlisten] ** WARNING: Using the
          S filesystem is strongly recommended with the WiredTiger storage engine
481
482
          2017-05-11T23:20:47.425+0900 I STORAGE [initandlisten] **
                                                                         See http://d
          ochub.mongodb.org/core/prodnotes-filesystem
483
484
          2017-05-11T23:20:48.836+0900 I CONTROL [initandlisten]
          2017-05-11T23:20:48.836+0900 I CONTROL [initandlisten] ** WARNING: Access
485
          contr
          ol is not enabled for the database.
486
487
          2017-05-11T23:20:48.836+0900 I CONTROL [initandlisten] **
                                                                         Read and wri
          te access to data and configuration is unrestricted.
488
          2017-05-11T23:20:48.836+0900 I CONTROL [initandlisten]
489
490
          2017-05-11T23:20:48.836+0900 I CONTROL [initandlisten]
          2017-05-11T23:20:48.836+0900 I CONTROL [initandlisten] ** WARNING:
491
          /sys/kernel/
          mm/transparent hugepage/enabled is 'always'.
492
493
          2017-05-11T23:20:48.836+0900 I CONTROL [initandlisten] **
                                                                        We suggest set
```

```
494
          ting it to 'never'
495
          2017-05-11T23:20:48.836+0900 I CONTROL [initandlisten]
          2017-05-11T23:20:48.836+0900 I CONTROL [initandlisten] ** WARNING:
496
497
          mm/transparent hugepage/defrag is 'always'.
          2017-05-11T23:20:48.836+0900 I CONTROL [initandlisten] **
498
                                                                           We suggest set
499
          ting it to 'never'
          2017-05-11T23:20:48.836+0900 I CONTROL [initandlisten]
500
501
502
503
     6. MongoDB Tools
504
505
        1)Robomongo
506
          -https://robomongo.org/download
          -http://taylor-som.tistory.com/22
507
508
          -File Menu > Connect
          -In MongoDB Connections, Create click
509
510
          -In Connection Settings, Type: Direct Connection
          -Name: Ubuntu Server MongoDB
511
512
          -Address: 192.168.56.5: 27017
          -Check [Perform authentication]
513
          -Database : test, User name : instructor, Password : javamongodb
514
515
516
        2)Mongs
          -Mongs is a web-based data browser for MongoDB.
517
518
          -https://github.com/whit537/mongs
          -http://whit537.org/mongs/
519
```