**MongoDB Administrative Tasks**

**MongoDB Environment Details**

**Mobile App**

|  |  |
| --- | --- |
| **Server** | **IP Address** |
| pngmobiledb01v.ng.sbicdirectory.com | 10.234.18.142 |
| pngmobiledb02v.ng.sbicdirectory.com | 10.234.18.143 |
| pngarbiter.ng.sbicdirectory.com | 10.234.18.141 |
| yngmobiledb01v.ng.sbicdirectory.com | 10.234.179.212 |
| yngmobiledb02v.ng.sbicdirectory.com | 10.234.179.213 |

**OS user: root**

**To login to Mongo Shell**

**Type at the prompt:**

mongo -u sysdba -p

Password: sysdba



**Create a user on the database**

use admin

db.createUser(

{

user: "A226547",

pwd: "STanbic\_1234#",

roles: [

{ role: "read", db: "stanbic" } ]

}

)

**Drop a user**

use admin

db.dropUser("A177909")

**Create Role, Grant Role, Grant Privileges**

use stanbic

db.createRole(

{

role: "CreateViewSupport",

privileges: [

{ resource: { db: "stanbic", collection: ""}, actions: [ "createCollection" ] }

],

roles: []

}

)

use stanbic

db.grantRolesToUser(

"support",

[

{ role: "CreateViewSupport", db: "stanbic" }

]

)

use stanbic

db.grantPrivilegesToRole(

"CreateViewSupport",

[

{ resource: { db: "stanbic", collection: "UniqueTransactedUsersandDeviceID" }, actions: [ "update", ] }

]

)

use stanbic

db.grantPrivilegesToRole(

"CreateViewSupport",

[

{ resource: { db: "stanbic", collection: "UniqueTransactedUsersandDeviceID" }, actions: [ "collMod","find" ] }

]

)

db.createRole(

{

role: "foobarRole",

privileges: [

{ resource: { db: "exampleDb", collection: "bar" }, actions: [ "createCollection", "createIndex", "find", "insert", "update" ] }

],

roles: []

}

)

**MongoDB log rotate:** To delete log file first run the command below which backs up the file and creates a new log file

db.adminCommand( { logRotate : 1 } )

**To Start/Stop/Status of MongoDB on Mobile App DB**

**Start**

systemctl start mongod

**Stop**

systemctl stop mongod

Status

systemctl status mongod

**To Start/Stop/Status of MongoDB Ops Manager MMS (Automation) on Mobile App DB**

**Start**

sudo systemctl start mongodb-mms-automation-agent.service

**Status**

sudo systemctl status mongodb-mms-automation-agent.service

**Stop**

sudo systemctl stop mongodb-mms-automation-agent.service

**The new MongoDB Environment for Software Engineering Team**

|  |  |
| --- | --- |
| **Server** | **IP Address** |
| pngmongdb01.ng.sbicdirectory.com | 10.234.203.224 |
| pngmongdb02.ng.sbicdirectory.com | 10.234.203.225 |
| pngmongdb03.ng.sbicdirectory.com | 10.234.203.226 |
| yngmongdb01.ng.sbicdirectory.com | 10.234.204.224 |
| yngmongdb02.ng.sbicdirectory.com | 10.234.204.225 |

**To login via putty**

Username: serveradmin

Password: P@ssw0rd

**Next switch to root**

sudo -i

**Then switch to the MongoDB Admin user**

su – monadm

**To Login to MongoDB shell**

mongo -u root -p

then enter password: P@ssw0rd

**To Start/Stop/Status MongoDB on the new MongoDB Server**

sudo service mongod start

sudo service mongod stop

sudo service mongod status

**To Start/Stop/Status of MongoDB Ops Manager MMS (Automation) on new MongoDB Environment**

sudo systemctl start mongodb-mms-automation-agent.service

sudo systemctl stop mongodb-mms-automation-agent.service

sudo systemctl status mongodb-mms-automation-agent.service

**MongoDB OPS Manager Environment**

|  |  |  |
| --- | --- | --- |
| **Server** | **IP Address** | **Notes** |
| pngmondbops01.ng.sbicdirectory.com | 10.234.19.125 | Application Server |
| pngmondbops02.ng.sbicdirectory.com | 10.234.19.126 | MongoDB Prod |
| yngmondbops01.ng.sbicdirectory.com | 10.234.178.54 | MongoDB DR |
| yngmondbops02.ng.sbicdirectory.com | 10.234.178.55 | MongoDB DR |

**To login vial putty**

Username: serveradmin

Password: P@ssw0rd

**Then**

sudo -i

**To Start/Stop/ Check Status of OPS Manager Service**

**Only done on the Application Server (10.234.19.125)**

sudo systemctl status mongodb-mms

sudo systemctl stop mongodb-mms

sudo systemctl status mongodb-mms

**On the MongoDB database server for OPS Manager there are two instances of MongoDB**

**OPS Manager and Backup Manager**

**OPS Manager Database Start/Stop/Status**

sudo systemctl start mongod

sudo systemctl stop mongod

sudo systemctl status mongod

**Connect to MongoDB Shell**

mongo --host 10.234.19.125:27018 -u root --authenticationDatabase admin -p P@ssw0rd

**OPS Backup Manager Database Start/Stop/Status**

mongod -f /etc/mongod\_backup.conf

**Connect to MongoDB Shell**

mongo --host 10.234.19.126:27019 -u root -p P@ssw0rd

**To Start/Stop/Status for OPS Manager Automation**

sudo systemctl start mongodb-mms-automation-agent.service

sudo systemctl stop mongodb-mms-automation-agent.service

sudo systemctl status mongodb-mms-automation-agent.service

mongo --host 10.234.19.125:27018 -u root --authenticationDatabase admin -p P@ssw0rd

mongo --host 10.234.19.125:27018 -u root --authenticationDatabase admin -p P@ssw0rd

|  |  |  |  |
| --- | --- | --- | --- |
| Server name | Server IP address | |  |
| Ungmongodb1 | | 10.234.206.120 | |
| Ungmongodb2 | | 10.234.206.121 | |
| Ungmongodb3 | | 10.234.206.122 | |

**To login vial putty**

Username: serveradmin

Password: P@ssw0rd

**Then**

sudo -i

Then mongosh to enter the mongodb instance

**MONGODB AZURE UAT DETAILS**

The putty session is saved on Jump server as Azure\_neu\_uat1

Hostname/IP: Hostname/ip: Azure\_neu\_uat1/10.171.174.4

OS USERNAME: mongoadm

mongosh --host localhost:27017 -u root -p P@ssw0rd

**Mongodb Replicaset Basic Command**

|  |  |
| --- | --- |
| **Name** | **Description** |
| [rs.add()](https://www.mongodb.com/docs/manual/reference/method/rs.add/#mongodb-method-rs.add) | Adds a member to a replica set. |
| [rs.addArb()](https://www.mongodb.com/docs/manual/reference/method/rs.addArb/#mongodb-method-rs.addArb) | Adds an [arbiter](https://www.mongodb.com/docs/manual/reference/glossary/#std-term-arbiter) to a replica set. |
| [rs.conf()](https://www.mongodb.com/docs/manual/reference/method/rs.conf/#mongodb-method-rs.conf) | Returns the replica set configuration document. |
| [rs.freeze()](https://www.mongodb.com/docs/manual/reference/method/rs.freeze/#mongodb-method-rs.freeze) | Prevents the current member from seeking election as primary for a period of time. |
| [rs.help()](https://www.mongodb.com/docs/manual/reference/method/rs.help/#mongodb-method-rs.help) | Returns basic help text for [replica set](https://www.mongodb.com/docs/manual/reference/glossary/#std-term-replica-set) functions. |
| [rs.initiate()](https://www.mongodb.com/docs/manual/reference/method/rs.initiate/#mongodb-method-rs.initiate) | Initializes a new replica set. |
| [rs.printReplicationInfo()](https://www.mongodb.com/docs/manual/reference/method/rs.printReplicationInfo/#mongodb-method-rs.printReplicationInfo) | Prints a formatted report of the replica set status from the perspective of the primary. |
| [rs.printSecondaryReplicationInfo()](https://www.mongodb.com/docs/manual/reference/method/rs.printSecondaryReplicationInfo/#mongodb-method-rs.printSecondaryReplicationInfo) | Prints a formatted report of the replica set status from the perspective of the secondaries. |
| [rs.printSlaveReplicationInfo()](https://www.mongodb.com/docs/manual/reference/method/rs.printSlaveReplicationInfo/#mongodb-method-rs.printSlaveReplicationInfo) | *Deprecated since version 4.4.1:* Use [rs.printSecondaryReplicationInfo()](https://www.mongodb.com/docs/manual/reference/method/rs.printSecondaryReplicationInfo/#mongodb-method-rs.printSecondaryReplicationInfo) instead. |
| [rs.reconfig()](https://www.mongodb.com/docs/manual/reference/method/rs.reconfig/#mongodb-method-rs.reconfig) | Reconfigures a replica set by applying a new replica set configuration object. |
| [rs.reconfigForPSASet()](https://www.mongodb.com/docs/manual/reference/method/rs.reconfigForPSASet/#mongodb-method-rs.reconfigForPSASet) | Safely perform some reconfiguration changes on a primary-secondary-arbiter (PSA) replica set or on a replica set that is changing to a PSA architecture. |
| [rs.remove()](https://www.mongodb.com/docs/manual/reference/method/rs.remove/#mongodb-method-rs.remove) | Remove a member from a replica set. |
| [rs.status()](https://www.mongodb.com/docs/manual/reference/method/rs.status/#mongodb-method-rs.status) | Returns a document with information about the state of the replica set. |
| [rs.stepDown()](https://www.mongodb.com/docs/manual/reference/method/rs.stepDown/#mongodb-method-rs.stepDown) | Causes the current [primary](https://www.mongodb.com/docs/manual/reference/glossary/#std-term-primary) to become a secondary which forces an [election.](https://www.mongodb.com/docs/manual/reference/glossary/#std-term-election) |
| [rs.syncFrom()](https://www.mongodb.com/docs/manual/reference/method/rs.syncFrom/#mongodb-method-rs.syncFrom) | Sets the member that this replica set member will sync from, overriding the default sync target selection logic. |

**Collection Methods**

|  |  |
| --- | --- |
| [db.collection.createIndex()](https://www.mongodb.com/docs/manual/reference/method/db.collection.createIndex/#mongodb-method-db.collection.createIndex) | Builds an index on a collection. |
| [db.collection.createIndexes()](https://www.mongodb.com/docs/manual/reference/method/db.collection.createIndexes/#mongodb-method-db.collection.createIndexes) | Builds one or more indexes on a collection. |
| [db.collection.dataSize()](https://www.mongodb.com/docs/manual/reference/method/db.collection.dataSize/#mongodb-method-db.collection.dataSize) | Returns the size of the collection. Wraps the [size](https://www.mongodb.com/docs/manual/reference/command/collStats/#mongodb-data-collStats.size) field in the output of the [collStats.](https://www.mongodb.com/docs/manual/reference/command/collStats/#mongodb-dbcommand-dbcmd.collStats) |
| [db.collection.deleteOne()](https://www.mongodb.com/docs/manual/reference/method/db.collection.deleteOne/#mongodb-method-db.collection.deleteOne) | Deletes a single document in a collection. |
| [db.collection.deleteMany()](https://www.mongodb.com/docs/manual/reference/method/db.collection.deleteMany/#mongodb-method-db.collection.deleteMany) | Deletes multiple documents in a collection. |
| [db.collection.distinct()](https://www.mongodb.com/docs/manual/reference/method/db.collection.distinct/#mongodb-method-db.collection.distinct) | Returns an array of documents that have distinct values for the specified field. |
| [db.collection.drop()](https://www.mongodb.com/docs/manual/reference/method/db.collection.drop/#mongodb-method-db.collection.drop) | Removes the specified collection from the database. |
| [db.collection.dropIndex()](https://www.mongodb.com/docs/manual/reference/method/db.collection.dropIndex/#mongodb-method-db.collection.dropIndex) | Removes a specified index on a collection. |
| [db.collection.dropIndexes()](https://www.mongodb.com/docs/manual/reference/method/db.collection.dropIndexes/#mongodb-method-db.collection.dropIndexes) | Removes all indexes on a collection. |
| [db.collection.ensureIndex()](https://www.mongodb.com/docs/manual/reference/method/db.collection.ensureIndex/#mongodb-method-db.collection.ensureIndex) | Removed. Use [db.collection.createIndex().](https://www.mongodb.com/docs/manual/reference/method/db.collection.createIndex/#mongodb-method-db.collection.createIndex) |
| [db.collection.estimatedDocumentCount()](https://www.mongodb.com/docs/manual/reference/method/db.collection.estimatedDocumentCount/#mongodb-method-db.collection.estimatedDocumentCount) | Wraps [count](https://www.mongodb.com/docs/manual/reference/command/count/#mongodb-dbcommand-dbcmd.count) to return an approximate count of the documents in a collection or a view. |
| [db.collection.explain()](https://www.mongodb.com/docs/manual/reference/method/db.collection.explain/#mongodb-method-db.collection.explain) | Returns information on the query execution of various methods. |
| [db.collection.find()](https://www.mongodb.com/docs/manual/reference/method/db.collection.find/#mongodb-method-db.collection.find) | Performs a query on a collection or a view and returns a cursor object. |
| [db.collection.findAndModify()](https://www.mongodb.com/docs/manual/reference/method/db.collection.findAndModify/#mongodb-method-db.collection.findAndModify) | Atomically modifies and returns a single document. |
| [db.collection.findOne()](https://www.mongodb.com/docs/manual/reference/method/db.collection.findOne/#mongodb-method-db.collection.findOne) | Performs a query and returns a single document. |
| [db.collection.findOneAndDelete()](https://www.mongodb.com/docs/manual/reference/method/db.collection.findOneAndDelete/#mongodb-method-db.collection.findOneAndDelete) | Finds a single document and deletes it. |
| [db.collection.findOneAndReplace()](https://www.mongodb.com/docs/manual/reference/method/db.collection.findOneAndReplace/#mongodb-method-db.collection.findOneAndReplace) | Finds a single document and replaces it. |
| [db.collection.findOneAndUpdate()](https://www.mongodb.com/docs/manual/reference/method/db.collection.findOneAndUpdate/#mongodb-method-db.collection.findOneAndUpdate) | Finds a single document and updates it. |
| [db.collection.getIndexes()](https://www.mongodb.com/docs/manual/reference/method/db.collection.getIndexes/#mongodb-method-db.collection.getIndexes) | Returns an array of documents that describe the existing indexes on a collection. |
| [db.collection.getShardDistribution()](https://www.mongodb.com/docs/manual/reference/method/db.collection.getShardDistribution/#mongodb-method-db.collection.getShardDistribution) | For collections in sharded clusters, [db.collection.getShardDistribution()](https://www.mongodb.com/docs/manual/reference/method/db.collection.getShardDistribution/#mongodb-method-db.collection.getShardDistribution) reports data of [chunk](https://www.mongodb.com/docs/manual/reference/glossary/#std-term-chunk) distribution. |
| [db.collection.getShardVersion()](https://www.mongodb.com/docs/manual/reference/method/db.collection.getShardVersion/#mongodb-method-db.collection.getShardVersion) | Internal diagnostic method for sharded cluster. |
| [db.collection.hideIndex()](https://www.mongodb.com/docs/manual/reference/method/db.collection.hideIndex/#mongodb-method-db.collection.hideIndex) | Hides an index from the query planner. |
| [db.collection.insertOne()](https://www.mongodb.com/docs/manual/reference/method/db.collection.insertOne/#mongodb-method-db.collection.insertOne) | Inserts a new document in a collection. |
| [db.collection.insertMany()](https://www.mongodb.com/docs/manual/reference/method/db.collection.insertMany/#mongodb-method-db.collection.insertMany) | Inserts several new document in a collection. |
| [db.collection.isCapped()](https://www.mongodb.com/docs/manual/reference/method/db.collection.isCapped/#mongodb-method-db.collection.isCapped) | Reports if a collection is a [capped collection.](https://www.mongodb.com/docs/manual/reference/glossary/#std-term-capped-collection) |
| [db.collection.latencyStats()](https://www.mongodb.com/docs/manual/reference/method/db.collection.latencyStats/#mongodb-method-db.collection.latencyStats) | Returns latency statistics for a collection. |
| [db.collection.mapReduce()](https://www.mongodb.com/docs/manual/reference/method/db.collection.mapReduce/#mongodb-method-db.collection.mapReduce) | Performs map-reduce style data aggregation. |
| [db.collection.reIndex()](https://www.mongodb.com/docs/manual/reference/method/db.collection.reIndex/#mongodb-method-db.collection.reIndex) | Rebuilds all existing indexes on a collection. |
| [db.collection.remove()](https://www.mongodb.com/docs/manual/reference/method/db.collection.remove/#mongodb-method-db.collection.remove) | Deletes documents from a collection. |
| [db.collection.renameCollection()](https://www.mongodb.com/docs/manual/reference/method/db.collection.renameCollection/#mongodb-method-db.collection.renameCollection) | Changes the name of a collection. |
| [db.collection.replaceOne()](https://www.mongodb.com/docs/manual/reference/method/db.collection.replaceOne/#mongodb-method-db.collection.replaceOne) | Replaces a single document in a collection. |
| [db.collection.stats()](https://www.mongodb.com/docs/manual/reference/method/db.collection.stats/#mongodb-method-db.collection.stats) | Reports on the state of a collection. Provides a wrapper around the [collStats.](https://www.mongodb.com/docs/manual/reference/command/collStats/#mongodb-dbcommand-dbcmd.collStats) |
| [db.collection.storageSize()](https://www.mongodb.com/docs/manual/reference/method/db.collection.storageSize/#mongodb-method-db.collection.storageSize) | Reports the total size used by the collection in bytes. Provides a wrapper around the [storageSize](https://www.mongodb.com/docs/manual/reference/command/collStats/#mongodb-data-collStats.storageSize) field of the [collStats](https://www.mongodb.com/docs/manual/reference/command/collStats/#mongodb-dbcommand-dbcmd.collStats) output. |
| [db.collection.totalIndexSize()](https://www.mongodb.com/docs/manual/reference/method/db.collection.totalIndexSize/#mongodb-method-db.collection.totalIndexSize) | Reports the total size used by the indexes on a collection. Provides a wrapper around the [totalIndexSize](https://www.mongodb.com/docs/manual/reference/command/collStats/#mongodb-data-collStats.totalIndexSize) field of the [collStats](https://www.mongodb.com/docs/manual/reference/command/collStats/#mongodb-dbcommand-dbcmd.collStats) output. |
| [db.collection.totalSize()](https://www.mongodb.com/docs/manual/reference/method/db.collection.totalSize/#mongodb-method-db.collection.totalSize) | Reports the total size of a collection, including the size of all documents and all indexes on a collection. |
| [db.collection.unhideIndex()](https://www.mongodb.com/docs/manual/reference/method/db.collection.unhideIndex/#mongodb-method-db.collection.unhideIndex) | Unhides an index from the query planner. |
| [db.collection.updateOne()](https://www.mongodb.com/docs/manual/reference/method/db.collection.updateOne/#mongodb-method-db.collection.updateOne) | Modifies a single document in a collection. |
| [db.collection.updateMany()](https://www.mongodb.com/docs/manual/reference/method/db.collection.updateMany/#mongodb-method-db.collection.updateMany) | Modifies multiple documents in a collection. |
| [db.collection.watch()](https://www.mongodb.com/docs/manual/reference/method/db.collection.watch/#mongodb-method-db.collection.watch) | Establishes a Change Stream on a collection. |
| [db.collection.validate()](https://www.mongodb.com/docs/manual/reference/method/db.collection.validate/#mongodb-method-db.collection.validate) | Performs diagnostic operations on a collection. |

**Database Methods**

|  |  |
| --- | --- |
| Name | Description |
| [db.adminCommand()](https://www.mongodb.com/docs/manual/reference/method/db.adminCommand/#mongodb-method-db.adminCommand) | Runs a command against the admin database. |
| [db.aggregate()](https://www.mongodb.com/docs/manual/reference/method/db.aggregate/#mongodb-method-db.aggregate) | Runs admin/diagnostic pipeline which does not require an underlying collection. |
| [db.commandHelp()](https://www.mongodb.com/docs/manual/reference/method/db.commandHelp/#mongodb-method-db.commandHelp) | Returns help information for a [database command.](https://www.mongodb.com/docs/manual/reference/glossary/#std-term-database-command) |
| [db.createCollection()](https://www.mongodb.com/docs/manual/reference/method/db.createCollection/#mongodb-method-db.createCollection) | Creates a new collection or a view. Commonly used to create a capped collection. |
| [db.createView()](https://www.mongodb.com/docs/manual/reference/method/db.createView/#mongodb-method-db.createView) | Creates a view. |
| [db.currentOp()](https://www.mongodb.com/docs/manual/reference/method/db.currentOp/#mongodb-method-db.currentOp) | Reports the current in-progress operations. |
| [db.dropDatabase()](https://www.mongodb.com/docs/manual/reference/method/db.dropDatabase/#mongodb-method-db.dropDatabase) | Removes the current database. |
| [db.fsyncLock()](https://www.mongodb.com/docs/manual/reference/method/db.fsyncLock/#mongodb-method-db.fsyncLock) | Flushes writes to disk and locks the database to prevent write operations and assist backup operations. Wraps [fsync.](https://www.mongodb.com/docs/manual/reference/command/fsync/#mongodb-dbcommand-dbcmd.fsync) |
| [db.fsyncUnlock()](https://www.mongodb.com/docs/manual/reference/method/db.fsyncUnlock/#mongodb-method-db.fsyncUnlock) | Allows writes to continue on a database locked with [db.fsyncLock().](https://www.mongodb.com/docs/manual/reference/method/db.fsyncLock/#mongodb-method-db.fsyncLock) |
| [db.getCollection()](https://www.mongodb.com/docs/manual/reference/method/db.getCollection/#mongodb-method-db.getCollection) | Returns a collection or view object. Used to access collections with names that are not valid in [mongosh.](https://www.mongodb.com/docs/mongodb-shell/#mongodb-binary-bin.mongosh) |
| [db.getCollectionInfos()](https://www.mongodb.com/docs/manual/reference/method/db.getCollectionInfos/#mongodb-method-db.getCollectionInfos) | Returns collection information for all collections and views in the current database. |
| [db.getCollectionNames()](https://www.mongodb.com/docs/manual/reference/method/db.getCollectionNames/#mongodb-method-db.getCollectionNames) | Lists all collections and views in the current database. |
| [db.getLogComponents()](https://www.mongodb.com/docs/manual/reference/method/db.getLogComponents/#mongodb-method-db.getLogComponents) | Returns the log message verbosity levels. |
| [db.getMongo()](https://www.mongodb.com/docs/manual/reference/method/db.getMongo/#mongodb-method-db.getMongo) | Returns the [Mongo()](https://www.mongodb.com/docs/manual/reference/method/Mongo/#mongodb-method-Mongo) connection object for the current connection. |
| [db.getName()](https://www.mongodb.com/docs/manual/reference/method/db.getName/#mongodb-method-db.getName) | Returns the name of the current database. |
| [db.getProfilingStatus()](https://www.mongodb.com/docs/manual/reference/method/db.getProfilingStatus/#mongodb-method-db.getProfilingStatus) | Returns a document that reflects the current profiling level and the profiling threshold. |
| [db.getReplicationInfo()](https://www.mongodb.com/docs/manual/reference/method/db.getReplicationInfo/#mongodb-method-db.getReplicationInfo) | Returns a document with replication statistics. |
| [db.getSiblingDB()](https://www.mongodb.com/docs/manual/reference/method/db.getSiblingDB/#mongodb-method-db.getSiblingDB) | Provides access to the specified database. |
| [db.hello()](https://www.mongodb.com/docs/manual/reference/method/db.hello/#mongodb-method-db.hello) | Returns a document that reports the state of the replica set. |
| [db.help()](https://www.mongodb.com/docs/manual/reference/method/db.help/#mongodb-method-db.help) | Displays descriptions of common db object methods. |
| [db.hostInfo()](https://www.mongodb.com/docs/manual/reference/method/db.hostInfo/#mongodb-method-db.hostInfo) | Returns a document with information about the system MongoDB runs on. Wraps [hostInfo](https://www.mongodb.com/docs/manual/reference/command/hostInfo/#mongodb-dbcommand-dbcmd.hostInfo) |
| [db.killOp()](https://www.mongodb.com/docs/manual/reference/method/db.killOp/#mongodb-method-db.killOp) | Terminates a specified operation. |
| [db.listCommands()](https://www.mongodb.com/docs/manual/reference/method/db.listCommands/#mongodb-method-db.listCommands) | Displays a list of common database commands. |
| [db.logout()](https://www.mongodb.com/docs/manual/reference/method/db.logout/#mongodb-method-db.logout) | *Deprecated*. Ends an authenticated session. |
| [db.printCollectionStats()](https://www.mongodb.com/docs/manual/reference/method/db.printCollectionStats/#mongodb-method-db.printCollectionStats) | Prints statistics from every collection. Wraps [db.collection.stats().](https://www.mongodb.com/docs/manual/reference/method/db.collection.stats/#mongodb-method-db.collection.stats) |
| [db.printReplicationInfo()](https://www.mongodb.com/docs/manual/reference/method/db.printReplicationInfo/#mongodb-method-db.printReplicationInfo) | Prints a formatted report of the replica set status from the perspective of the primary. |
| [db.printSecondaryReplicationInfo()](https://www.mongodb.com/docs/manual/reference/method/db.printSecondaryReplicationInfo/#mongodb-method-db.printSecondaryReplicationInfo) | Prints a formatted report of the replica set status from the perspective of the secondaries. |
| [db.printShardingStatus()](https://www.mongodb.com/docs/manual/reference/method/db.printShardingStatus/#mongodb-method-db.printShardingStatus) | Prints a report of the sharding configuration and the chunk ranges. |
| [db.printSlaveReplicationInfo()](https://www.mongodb.com/docs/manual/reference/method/db.printSlaveReplicationInfo/#mongodb-method-db.printSlaveReplicationInfo) | *Deprecated since version 4.4.1:* Use [db.printSecondaryReplicationInfo()](https://www.mongodb.com/docs/manual/reference/method/db.printSecondaryReplicationInfo/#mongodb-method-db.printSecondaryReplicationInfo) instead. |
| [db.resetError()](https://www.mongodb.com/docs/manual/reference/method/db.resetError/#mongodb-method-db.resetError) | *Removed in MongoDB 5.0.* Resets the last error status. |
| [db.rotateCertificates()](https://www.mongodb.com/docs/manual/reference/method/db.rotateCertificates/#mongodb-method-db.rotateCertificates) | Performs online TLS certificate rotation. Wraps [rotateCertificates.](https://www.mongodb.com/docs/manual/reference/command/rotateCertificates/#mongodb-dbcommand-dbcmd.rotateCertificates) |
| [db.runCommand()](https://www.mongodb.com/docs/manual/reference/method/db.runCommand/#mongodb-method-db.runCommand) | Runs a [database command.](https://www.mongodb.com/docs/manual/reference/command/) |
| [db.serverBuildInfo()](https://www.mongodb.com/docs/manual/reference/method/db.serverBuildInfo/#mongodb-method-db.serverBuildInfo) | Returns a document that displays the compilation parameters for the [mongod](https://www.mongodb.com/docs/manual/reference/program/mongod/#mongodb-binary-bin.mongod) instance. Wraps [buildInfo.](https://www.mongodb.com/docs/manual/reference/command/buildInfo/#mongodb-dbcommand-dbcmd.buildInfo) |
| [db.serverCmdLineOpts()](https://www.mongodb.com/docs/manual/reference/method/db.serverCmdLineOpts/#mongodb-method-db.serverCmdLineOpts) | Returns a document with information about the runtime used to start the MongoDB instance. Wraps [getCmdLineOpts.](https://www.mongodb.com/docs/manual/reference/command/getCmdLineOpts/#mongodb-dbcommand-dbcmd.getCmdLineOpts) |
| [db.serverStatus()](https://www.mongodb.com/docs/manual/reference/method/db.serverStatus/#mongodb-method-db.serverStatus) | Returns a document that provides an overview of the state of the database process. |
| [db.setLogLevel()](https://www.mongodb.com/docs/manual/reference/method/db.setLogLevel/#mongodb-method-db.setLogLevel) | Sets a single log message verbosity level. |
| [db.setProfilingLevel()](https://www.mongodb.com/docs/manual/reference/method/db.setProfilingLevel/#mongodb-method-db.setProfilingLevel) | Modifies the current level of database profiling. |
| [db.shutdownServer()](https://www.mongodb.com/docs/manual/reference/method/db.shutdownServer/#mongodb-method-db.shutdownServer) | Shuts down the current [mongod](https://www.mongodb.com/docs/manual/reference/program/mongod/#mongodb-binary-bin.mongod) or [mongos](https://www.mongodb.com/docs/manual/reference/program/mongos/#mongodb-binary-bin.mongos) process cleanly and safely. |
| [db.stats()](https://www.mongodb.com/docs/manual/reference/method/db.stats/#mongodb-method-db.stats) | Returns a document that reports on the state of the current database. |
| [db.version()](https://www.mongodb.com/docs/manual/reference/method/db.version/#mongodb-method-db.version) | Returns the version of the [mongod](https://www.mongodb.com/docs/manual/reference/program/mongod/#mongodb-binary-bin.mongod) instance. |
| [db.watch()](https://www.mongodb.com/docs/manual/reference/method/db.watch/#mongodb-method-db.watch) | Opens a [change stream cursor](https://www.mongodb.com/docs/manual/changeStreams/#std-label-changeStreams) for a database to report on all its non-system collections. Cannot be opened on the admin, local or config databases. |

**User Management Methods**

|  |  |
| --- | --- |
| **Name** | **Description** |
| [db.auth()](https://www.mongodb.com/docs/manual/reference/method/db.auth/#mongodb-method-db.auth) | Authenticates a user to a database. |
| [db.changeUserPassword()](https://www.mongodb.com/docs/manual/reference/method/db.changeUserPassword/#mongodb-method-db.changeUserPassword) | Changes an existing user's password. |
| [db.createUser()](https://www.mongodb.com/docs/manual/reference/method/db.createUser/#mongodb-method-db.createUser) | Creates a new user. |
| [db.dropUser()](https://www.mongodb.com/docs/manual/reference/method/db.dropUser/#mongodb-method-db.dropUser) | Removes a single user. |
| [db.dropAllUsers()](https://www.mongodb.com/docs/manual/reference/method/db.dropAllUsers/#mongodb-method-db.dropAllUsers) | Deletes all users associated with a database. |
| [db.getUser()](https://www.mongodb.com/docs/manual/reference/method/db.getUser/#mongodb-method-db.getUser) | Returns information about the specified user. |
| [db.getUsers()](https://www.mongodb.com/docs/manual/reference/method/db.getUsers/#mongodb-method-db.getUsers) | Returns information about all users associated with a database. |
| [db.grantRolesToUser()](https://www.mongodb.com/docs/manual/reference/method/db.grantRolesToUser/#mongodb-method-db.grantRolesToUser) | Grants a role and its privileges to a user. |
| [db.removeUser()](https://www.mongodb.com/docs/manual/reference/method/db.removeUser/#mongodb-method-db.removeUser) | Deprecated. Removes a user from a database. |
| [db.revokeRolesFromUser()](https://www.mongodb.com/docs/manual/reference/method/db.revokeRolesFromUser/#mongodb-method-db.revokeRolesFromUser) | Removes a role from a user. |
| [db.updateUser()](https://www.mongodb.com/docs/manual/reference/method/db.updateUser/#mongodb-method-db.updateUser) | Updates user data. |
| [passwordPrompt()](https://www.mongodb.com/docs/manual/reference/method/passwordPrompt/#mongodb-method-passwordPrompt) | Prompts for the password as an alternative to specifying passwords directly in various [mongosh](https://www.mongodb.com/docs/mongodb-shell/#mongodb-binary-bin.mongosh) user authentication/management methods. |

**Replication Commands**

|  |  |
| --- | --- |
| **Name** | **Description** |
| [applyOps](https://www.mongodb.com/docs/manual/reference/command/applyOps/#mongodb-dbcommand-dbcmd.applyOps) | Internal command that applies [oplog](https://www.mongodb.com/docs/manual/reference/glossary/#std-term-oplog) entries to the current data set. |
| [hello](https://www.mongodb.com/docs/manual/reference/command/hello/#mongodb-dbcommand-dbcmd.hello) | Displays information about this member's role in the replica set, including whether it is the primary. |
| [replSetAbortPrimaryCatchUp](https://www.mongodb.com/docs/manual/reference/command/replSetAbortPrimaryCatchUp/#mongodb-dbcommand-dbcmd.replSetAbortPrimaryCatchUp) | Forces the elected [primary](https://www.mongodb.com/docs/manual/reference/glossary/#std-term-primary) to abort sync (catch up) then complete the transition to primary. |
| [replSetFreeze](https://www.mongodb.com/docs/manual/reference/command/replSetFreeze/#mongodb-dbcommand-dbcmd.replSetFreeze) | Prevents the current member from seeking election as [primary](https://www.mongodb.com/docs/manual/reference/glossary/#std-term-primary) for a period of time. |
| [replSetGetConfig](https://www.mongodb.com/docs/manual/reference/command/replSetGetConfig/#mongodb-dbcommand-dbcmd.replSetGetConfig) | Returns the replica set's configuration object. |
| [replSetGetStatus](https://www.mongodb.com/docs/manual/reference/command/replSetGetStatus/#mongodb-dbcommand-dbcmd.replSetGetStatus) | Returns a document that reports on the status of the replica set. |
| [replSetInitiate](https://www.mongodb.com/docs/manual/reference/command/replSetInitiate/#mongodb-dbcommand-dbcmd.replSetInitiate) | Initializes a new replica set. |
| [replSetMaintenance](https://www.mongodb.com/docs/manual/reference/command/replSetMaintenance/#mongodb-dbcommand-dbcmd.replSetMaintenance) | Enables or disables a maintenance mode, which puts a [secondary](https://www.mongodb.com/docs/manual/reference/glossary/#std-term-secondary) node in a RECOVERING state. |
| [replSetReconfig](https://www.mongodb.com/docs/manual/reference/command/replSetReconfig/#mongodb-dbcommand-dbcmd.replSetReconfig) | Applies a new configuration to an existing replica set. |
| [replSetResizeOplog](https://www.mongodb.com/docs/manual/reference/command/replSetResizeOplog/#mongodb-dbcommand-dbcmd.replSetResizeOplog) | Dynamically resizes the oplog for a replica set member. Available for WiredTiger storage engine only. |
| [replSetStepDown](https://www.mongodb.com/docs/manual/reference/command/replSetStepDown/#mongodb-dbcommand-dbcmd.replSetStepDown) | Forces the current [primary](https://www.mongodb.com/docs/manual/reference/glossary/#std-term-primary) to step down and become a [secondary](https://www.mongodb.com/docs/manual/reference/glossary/#std-term-secondary), forcing an election. |
| [replSetSyncFrom](https://www.mongodb.com/docs/manual/reference/command/replSetSyncFrom/#mongodb-dbcommand-dbcmd.replSetSyncFrom) | Explicitly override the default logic for selecting a member to replicate from. |

[mongosh Methods — MongoDB Manual](https://www.mongodb.com/docs/manual/reference/method/)

**Monitor lock on MongoDB**

db.serverStatus().globalLock

db.serverStatus().locks.Database

db.serverStatus().locks.Collection

db.serverStatus().locks.oplog

**Get collection sizes system.users**

* Use admin
* db.users.dataSize()
* db.users.storageSize()
* db. users.totalSize()
* db. users.totalIndexSize()

**Checking logs**

1. \* returns the list of available values for getLog() command.
2. global returns all the recent log entries.
3. startupWarnings returns log entries that may contain errors or warnings since the start of the current process.

db.adminCommand( { getLog: "\*" } )

db.adminCommand( { getLog : "global" } )

**Check connected user to a Database Instance**

db.runCommand({connectionStatus : 1});

db.getUser()

db.currentOp(

{

"waitingForLock" : true,

"active" : true,

$or: [

{ "op" : { "$in" : [ "insert", "update", "remove" ] } },

{ "command.findandmodify": { $exists: true } }

]

}

);

db.currentOp(

{

"active" : true,

"secs\_running" : { "$gt" : 1 },

"ns" : /^stanbic\./

}

);

**Mongodb Backup and Restore**

[How To Back Up, Restore, and Migrate a MongoDB Database on Ubuntu 20.04 | DigitalOcean](https://www.digitalocean.com/community/tutorials/how-to-back-up-restore-and-migrate-a-mongodb-database-on-ubuntu-20-04)

*sudo mongodump --db newdb --out /var/backups/mongobackups/$(date +'%m-%d-%y')*

*sudo mongorestore --db newdb --drop /var/backups/mongobackups/10-29-20/newdb/*

nc -v pngmobiledb01v.ng.sbicdirectory.com 27017

nc -v pngmobiledb02v.ng.sbicdirectory.com 27017

nc -v yngmobiledb02v.ng.sbicdirectory.com 27017

nc -v yngmobiledb01v.ng.sbicdirectory.com 27017

**Resize oplog**

db.adminCommand({replSetResizeOplog: 1, size: Double(16000)})

<https://www.mongodb.com/docs/manual/tutorial/equality-sort-range-rule/#:~:text=An%20index%20that%20references%20multiple,keys%20correspond%20to%20document%20fields>

(CreateAT:1,\_ID:1)