MongoDB configuration files

File Format

systemLog:

destination: file

path: "/var/log/mongodb/mongod.log"

logAppend: true

storage:

journal:

enabled: true

processManagement:

fork: true

net:

bindIp: 127.0.0.1

port: 27017

setParameter:

enableLocalhostAuthBypass: false

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system log options

systemLog:

verbosity: <int>

quiet: <boolean>

traceAllExceptions: <boolean>

syslogFacility: <string>

path: <string>

logAppend: <boolean>

logRotate: <string>

destination: <string>

timeStampFormat: <string>

component:

accessControl:

verbosity: <int>

command:

verbosity: <int>

# COMMENT additional component verbosity settings omitted for brevity

systemLog.verbosity

Type: integer

Default: 0

Changed in version 3.0.

The default log message verbosity level for components.

The verbosity level determines the amount of Informational and Debug messages MongoDB outputs.

The verbosity level can range from 0 to 5:

0 is the MongoDB’s default log verbosity level, to include Informational messages.

1 to 5 increases the verbosity level to include Debug messages.

systemLog.quiet

Type: boolean

Run mongos or mongod in a quiet mode that attempts to limit the amount of output.

systemLog.quiet is not recommended for production systems as it may make tracking problems during particular connections much more difficult.

systemLog.traceAllExceptions

Type: boolean

Print verbose information for debugging. Use for additional logging for support-related troubleshooting.

systemLog.syslogFacility

Type: string

Default: user

The facility level used when logging messages to syslog.

The value you specify must be supported by your operating system’s implementation of syslog.

To use this option, you must set systemLog.destination to syslog.

systemLog.path

Type: string

The path of the log file to which mongod or mongos should send all diagnostic logging information, rather than the standard output or the host’s syslog. MongoDB creates the log file at the specified path.

systemLog.logAppend

Type: boolean

Default: False

When true, mongos or mongod appends new entries to the end of the existing log file when the mongos or mongod instance restarts.

Without this option, mongod will back up the existing log and create a new file.

systemLog.logRotate

Type: string

Default: rename

New in version 3.0.0.

The behavior for the logRotate command. Specify either rename or reopen:

rename renames the log file.

reopen closes and reopens the log file following the typical Linux/Unix log rotate behavior.

Use reopen when using the Linux/Unix logrotate utility to avoid log loss.

If you specify reopen, you must also set systemLog.logAppend to true.

systemLog.destination

Type: string

The destination to which MongoDB sends all log output.

Specify either file or syslog. If you specify file, you must also specify systemLog.path.

If you do not specify systemLog.destination, MongoDB sends all log output to standard output.

systemLog.timeStampFormat

Type: string

Default: iso8601-local

The time format for timestamps in log messages. Specify one of the following values:

Value Description

ctime Displays timestamps as Wed Dec 31 18:17:54.811.

iso8601-utc Displays timestamps in Coordinated Universal Time (UTC) in the ISO-8601 format. For example, for New York at the start of the Epoch: 1970-01-01T00:00:00.000Z

iso8601-local Displays timestamps in local time in the ISO-8601 format. For example, for New York at the start of the Epoch: 1969-12-31T19:00:00.000-0500

**systemLog.component Options**

systemLog:

component:

accessControl:

verbosity: <int>

command:

verbosity: <int>

# COMMENT some component verbosity settings omitted for brevity

replication:

verbosity: <int>

heartbeats:

verbosity: <int>

rollback:

verbosity: <int>

storage:

verbosity: <int>

journal:

verbosity: <int>

write:

verbosity: <int>

processManagement Options

processManagement:

fork: <boolean>

pidFilePath: <string>

timeZoneInfo: <string>

net Options

net:

port: <int>

bindIp: <string>

bindIpAll: <boolean>

maxIncomingConnections: <int>

wireObjectCheck: <boolean>

ipv6: <boolean>

unixDomainSocket:

enabled: <boolean>

pathPrefix: <string>

filePermissions: <int>

ssl:

sslOnNormalPorts: <boolean> # deprecated since 2.6

mode: <string>

PEMKeyFile: <string>

PEMKeyPassword: <string>

clusterFile: <string>

clusterPassword: <string>

CAFile: <string>

CRLFile: <string>

allowConnectionsWithoutCertificates: <boolean>

allowInvalidCertificates: <boolean>

allowInvalidHostnames: <boolean>

disabledProtocols: <string>

FIPSMode: <boolean>

compression:

compressors: <string>

transportLayer: <string>

serviceExecutor: <string>

net.unixDomainSocket Options

net:

unixDomainSocket:

enabled: <boolean>

pathPrefix: <string>

filePermissions: <int>

net.ssl Options

net:

ssl:

sslOnNormalPorts: <boolean> # deprecated since 2.6

mode: <string>

PEMKeyFile: <string>

PEMKeyPassword: <string>

clusterFile: <string>

clusterPassword: <string>

CAFile: <string>

CRLFile: <string>

allowConnectionsWithoutCertificates: <boolean>

allowInvalidCertificates: <boolean>

allowInvalidHostnames: <boolean>

disabledProtocols: <string>

FIPSMode: <boolean>

security Options

security:

keyFile: <string>

clusterAuthMode: <string>

authorization: <string>

transitionToAuth: <boolean>

javascriptEnabled: <boolean>

redactClientLogData: <boolean>

sasl:

hostName: <string>

serviceName: <string>

saslauthdSocketPath: <string>

enableEncryption: <boolean>

encryptionCipherMode: <string>

encryptionKeyFile: <string>

kmip:

keyIdentifier: <string>

rotateMasterKey: <boolean>

serverName: <string>

port: <string>

clientCertificateFile: <string>

clientCertificatePassword: <string>

serverCAFile: <string>

ldap:

servers: <string>

bind:

method: <string>

saslMechanisms: <string>

queryUser: <string>

queryPassword: <string>

useOSDefaults: <boolean>

transportSecurity: <string>

timeoutMS: <int>

userToDNMapping: <string>

authz:

queryTemplate: <string>

storage Options

storage:

dbPath: <string>

indexBuildRetry: <boolean>

repairPath: <string>

journal:

enabled: <boolean>

commitIntervalMs: <num>

directoryPerDB: <boolean>

syncPeriodSecs: <int>

engine: <string>

mmapv1:

preallocDataFiles: <boolean>

nsSize: <int>

quota:

enforced: <boolean>

maxFilesPerDB: <int>

smallFiles: <boolean>

journal:

debugFlags: <int>

commitIntervalMs: <num>

wiredTiger:

engineConfig:

cacheSizeGB: <number>

journalCompressor: <string> snappy, zlib

directoryForIndexes: <boolean>

collectionConfig:

blockCompressor: <string>

indexConfig:

prefixCompression: <boolean>

inMemory:

engineConfig:

inMemorySizeGB: <number>

storage.mmapv1 Options

storage:

mmapv1:

preallocDataFiles: <boolean>

nsSize: <int>

quota:

enforced: <boolean>

maxFilesPerDB: <int>

smallFiles: <boolean>

journal:

debugFlags: <int>

commitIntervalMs: <num>

storage.wiredTiger Options

storage:

wiredTiger:

engineConfig:

cacheSizeGB: <number>

journalCompressor: <string>

directoryForIndexes: <boolean>

collectionConfig:

blockCompressor: <string>

indexConfig:

prefixCompression: <boolean>

storage.inmemory Options

storage:

inMemory:

engineConfig:

inMemorySizeGB: <number>