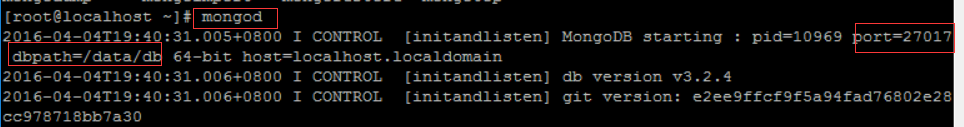
Mongodb 学习之shell命令操作（二）

1. 服务器端命令

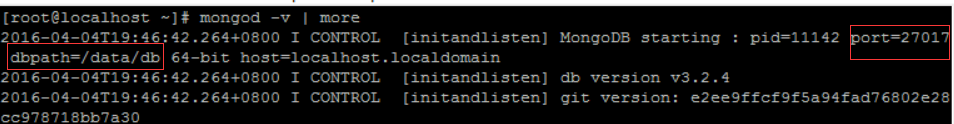
可以只使用mongod命令按照默认配置启动（比如：db dir 是/data/db，port是27017）。





介绍命令参数

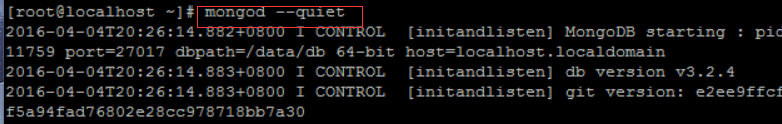
1. –v，--verbose 显示详细的日志信息





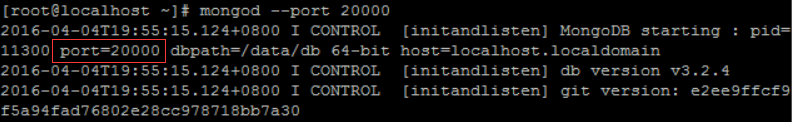
1. --quiet 安静输出日志信息

客户端shell执行命令时，不管正确与否，在服务端不再显示日志信息。

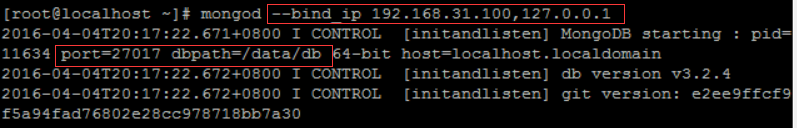




1. –port arg 指定端口，客户端访问时也要指定相同的参数访问。



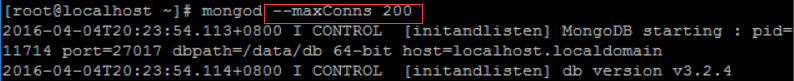
1. –bind\_ip arg 指定绑定的IP地址，其他地址无法访问该服务。默认为all





1. –ipv6 开启IPv6的支持，默认不开启
2. –maxConns arg 设置mongodb的最大连接数

默认最大连接数是100万



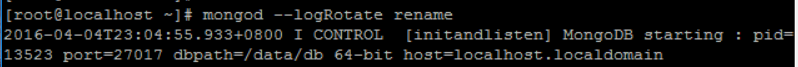


1. --logpath arg 设置日志的路径

将日志写入到指定的文件(如：out.log)，代替标准输出

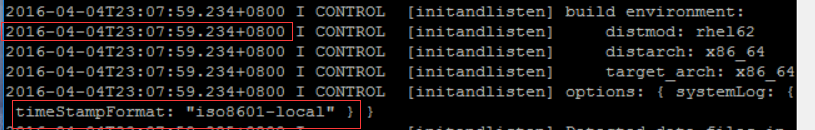


1. --syslog 将日志写入到系统的日志设备来代替写入到指定文件的标准输出
2. --logappend 将日志追加到日志文件中
3. --logRotate arg 设置日志轮转的行为（rename | reopen）

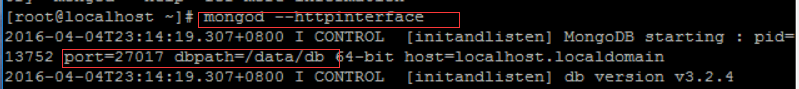




1. –timeStampFormat arg 设置时间格式化（ctime,iso8601-utc,iso8601-local 三选一，不过一般选择iso8601-local符合我们的使用习惯）



1. --pidfilepath arg pidfile的全路径，不设置pidfile不会被创建
2. --keyFile arg 集群认证的私有key
3. --setParameter arg 设置配置参数
4. --httpinterface 开启http访问接口 。使用--rest 更好一些

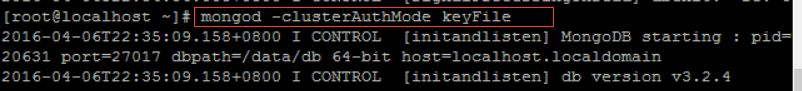




显示http访问页面结果，

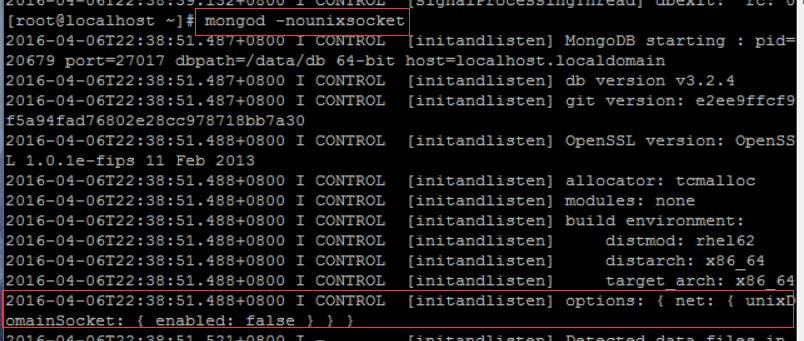


1. --rest 开启简单的rest API
2. --clusterAuthMode arg 集群权限的权限模式，包括keyFile,sendKeyFile,sendX509,x509

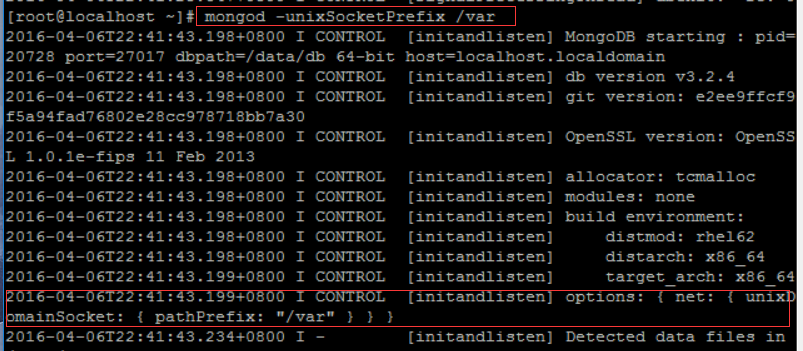




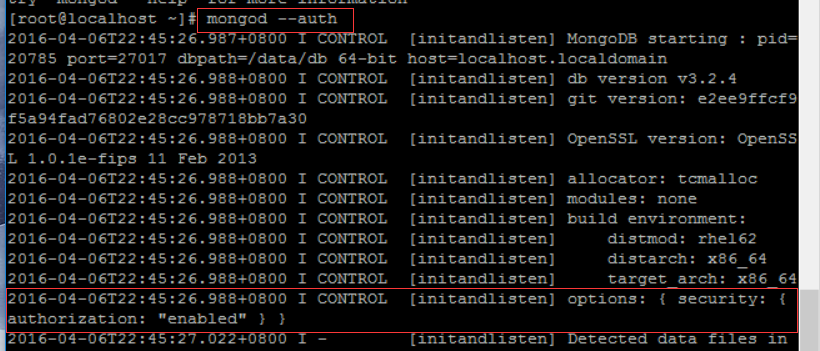
1. --nounixsocket 禁用unix socket监听



1. –unixSocketPrefix arg 替换unix domain socket的默认目录(/tmp)



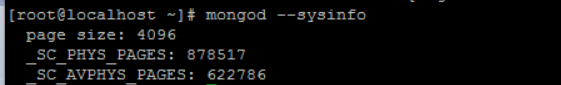
1. --filePermissions arg 设置socket文件权限(默认为0700)
2. --fork fork服务进程
3. --auth 开启安全运行



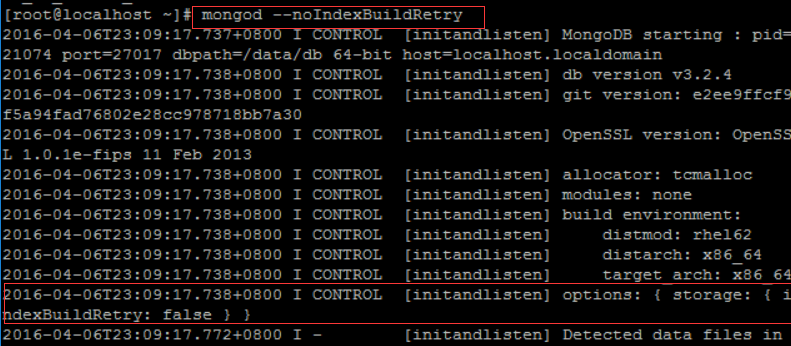
1. --noauth 开启非安全运行，与—auth相反



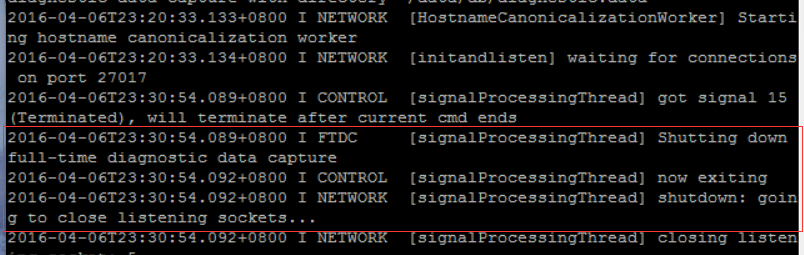
1. --jsonp 允许jsonp通过http访问
2. --profile arg 0=off 1=slow, 2=all
3. --sysinfo 显示部分诊断系统信息



1. --noIndexBuildRetry 被shutdown中断后，不再金鑫任何的索引构建重试



1. --noscripting 禁用脚本引擎
2. --notablescan 禁止表扫描
3. --shutdown 停掉一个运行的服务



**Replication options:**

1. --oplogSize arg 用于副本日志的大小，默认为磁盘空间的5%，大了更好。

**Master/slave options：**

1. --master 主节点模式
2. --slave 从节点模式
3. --autoresync 如果从节点的数据过时则自动重新同步
4. --source arg when slave: specify master as<server:port>
5. --only arg when slave: specify a single database to replicate
6. --slavedelay arg 当支持主节点操作从节点时，延迟（单位：秒）将被使用。

**Replica set options:**

1. --replSet arg arg is <setname>[/<optionalseedhostlist>]
2. --replIndexPrefetch arg specify index prefetching behavior (if secondary) [none|\_id\_only|all]
3. --enableMajorityReadConcern enables majority readConcern

**Sharding options:**

1. --configsvr declare this is a config db of a cluster; default port 27019; default dir /data/configdb
2. --configsvrMode arg Controls what config server protocol is in use. When set to "sccc" keeps server in legacy SyncClusterConnection mode even when the service is running as a replSet
3. --shardsvr declare this is a shard db of a cluster; default port 27018

**SSL options:**

1. --sslOnNormalPorts use ssl on configured ports
2. --sslMode arg set the SSL operation mode (disabled|allowSSL|preferSSL|requireSSL )
3. --sslPEMKeyFile arg PEM file for ssl
4. --sslPEMKeyPassword arg PEM file password
5. --sslClusterFile arg Key file for internal SSL authentication
6. --sslClusterPassword arg Internal authentication key file password
7. --sslCAFile arg Certificate Authority file for SSL
8. --sslCRLFile arg Certificate Revocation List file for SSL
9. --sslDisabledProtocols arg Comma separated list of TLS protocols to disable [TLS1\_0,TLS1\_1,TLS1\_2]
10. --sslWeakCertificateValidation allow client to connect without presenting a certificate
11. –sslAllowConnectionsWithoutCertificates allow client to connect without presenting a certificate
12. --sslAllowInvalidHostnames Allow server certificates to provide non-matching hostnames
13. --sslAllowInvalidCertificates allow connections to servers with invalid certificates
14. --sslFIPSMode activate FIPS 140-2 mode at startup

**Storage options（存储操作）:**

1. --storageEngine arg what storage engine to use – defaults to wiredTiger if no data files present
2. --dbpath arg directory for datafiles - defaults to /data/db
3. --directoryperdb each database will be stored in a separate directory
4. --noprealloc disable data file preallocation – will often hurt performance
5. --nssize arg (=16) .ns file size (in MB) for new databases
6. --quota limits each database to a certain number of files (8 default)
7. --quotaFiles arg number of files allowed per db, implies --quota
8. --smallfiles use a smaller default file size
9. --syncdelay arg (=60) seconds between disk syncs (0=never, but not recommended)
10. --upgrade upgrade db if needed
11. --repair run repair on all dbs
12. --repairpath arg root directory for repair files - defaults to dbpath
13. --journal enable journaling
14. --nojournal disable journaling (journaling is on by default for 64 bit)
15. --journalOptions arg journal diagnostic options
16. --journalCommitInterval arg how often to group/batch commit (ms)

**WiredTiger options（WiredTiger存储引擎操作）:**

1. --wiredTigerCacheSizeGB arg maximum amount of memory to allocate for cache; defaults to 1/2 of physical RAM
2. --wiredTigerStatisticsLogDelaySecs arg (=0) seconds to wait between each write to a statistics file in the dbpath; 0 means do not log statistics
3. --wiredTigerJournalCompressor arg (=snappy) use a compressor for log records [none|snappy|zlib]
4. --wiredTigerDirectoryForIndexes Put indexes and data in different directories
5. --wiredTigerCollectionBlockCompressor arg (=snappy) block compression algorithm for collection data [none|snappy|zlib]
6. --wiredTigerIndexPrefixCompression arg (=1) use prefix compression on row-store leaf pages
7. 客户端命令

语法：mongo [options] [db address] [file names (ending in .js)]

数据库地址格式:

foo foo database on local machine

192.169.0.5/foo foo database on 192.168.0.5 machine

192.169.0.5:9999/foo foo database on 192.168.0.5 machine on port 9999

**Options:**

--shell run the shell after executing files

--nodb don't connect to mongod on startup - no

'db address' arg expected

--norc will not run the ".mongorc.js" file on

start up

--quiet be less chatty

--port arg port to connect to

--host arg server to connect to

--eval arg evaluate javascript

-h [ --help ] show this usage information

--version show version information

--verbose increase verbosity

--ipv6 enable IPv6 support (disabled by default)

--disableJavaScriptJIT disable the Javascript Just In Time

compiler

--enableJavaScriptProtection disable automatic JavaScript function

marshalling

--ssl use SSL for all connections

--sslCAFile arg Certificate Authority file for SSL

--sslPEMKeyFile arg PEM certificate/key file for SSL

--sslPEMKeyPassword arg password for key in PEM file for SSL

--sslCRLFile arg Certificate Revocation List file for SSL

--sslAllowInvalidHostnames allow connections to servers with

non-matching hostnames

--sslAllowInvalidCertificates allow connections to servers with invalid

certificates

--sslFIPSMode activate FIPS 140-2 mode at startup

Authentication Options:

-u [ --username ] arg username for authentication

-p [ --password ] arg password for authentication

--authenticationDatabase arg user source (defaults to dbname)

--authenticationMechanism arg authentication mechanism

--gssapiServiceName arg (=mongodb) Service name to use when authenticating

using GSSAPI/Kerberos

--gssapiHostName arg Remote host name to use for purpose of

GSSAPI/Kerberos authentication

file names: a list of files to run. files have to end in .js and will exit afte

r unless --shell is specified