Mysql配置文档

DBA 文档

# 概述

此文档用于提供线上MySQL实例配置模版. 确认所有线上MySQL配置，和新建ＭｙＳＱＬ实例符合DBA规范

## 支持版本

* Mariadb 10.1.14

## 安装配置

* 软件安装目录：/usr/bin/
* 数据文件目录：/home/y/var/lib/mysql/
* Bin log 目录：/home/y/var/lib/mysql/
* My.cnf 位置：/etc/my.cnf.d/server.cnf

## 参数配置规范

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 参数名称 | 标准范围 | | 缺省值 | | 设置说明 | |
| [mysql] |  | |  | |  | |
| # CLIENT # |  | |  | |  | |
| port | 3306 | |  | | 端口 | |
| socket | /home/y/var/lib/mysql/mysql.sock | |  | | socket | |
| auto-rehash | 1 | |  | | 自动补全 | |
| prompt | (\\u@\\h) [\\d]>\\\_ | |  | | 提示符 | |
|  |  | |  | |  | |
| [mysqld] |  | |  | |  | |
| # GENERAL # |  | |  | |  | |
| user | mysql | |  | | 用户 | |
| default-storage-engine | InnoDB | | InnoDB | | 默认存储引擎 | |
| socket | /home/y/var/lib/mysql/mysql.sock | |  | | socket | |
| pid-file | /home/y/var/lib/mysql/mysql.pid | |  | | pid | |
| port |  | |  | | 端口 | |
| extra\_port | 3307 | |  | |  | |
| extra\_max\_connections | 5 | |  | |  | |
| character-set-server | utf8 | |  | | 字符集 | |
| server-id | 168 | |  | | 根据实际情况设置 | |
| gtid\_domain-id | 168 | |  | | 根据实际情况设置 | |
| gtid\_strict\_mode | 1 | |  | | 禁止slave上单独的操作 | |
| performance\_schema | 1 | |  | |  | |
| wait\_timeout | 14400 | |  | | 超时时间 | |
| interactive\_timeout | 14400 | |  | | 超时时间 | |
| sync-master-info | 1 | |  | |  | |
| binlog-checksum | CRC32 | |  | | Binlog校验 | |
| master-verify-checksum | 1 | |  | |  | |
|  |  | |  | |  | |
| # MyISAM # |  | |  | |  | |
| key-buffer-size | 32M | |  | |  | |
| myisam-recover-options | FORCE,BACKUP | |  | |  | |
|  |  | |  | |  | |
| #SLAVE |  | |  | |  | |
| relay\_log\_recovery | ON | |  | | slave宕机重新从master获取日志 | |
| # SAFETY # |  | |  | |  | |
| max-connect-errors | 1000000 | |  | |  | |
| skip-name-resolve |  | |  | |  | |
| sysdate-is-now | 1 | |  | |  | |
| innodb | FORCE | |  | |  | |
| slave-parallel-mode | optimistic | | [conservative](https://mariadb.com/kb/en/replication-and-binary-log-server-system-variables/#slave_parallel_mode) | | 多线程同步模式 | |
| slave-parallel-threads | 8 | | off | | 同步多线程，slave配置 | |
| slave-sql-verify-checksum | 1 | |  | |  | |
|  |  | |  | |  | |
| # DATA STORAGE # |  | |  | |  | |
| datadir | /home/y/var/lib/mysql/ | |  | |  | |
| innodb\_data\_file\_path | ibdata1:64M:autoextend | |  | |  | |
| innodb\_max\_dirty\_pages\_pct | 70 | |  | |  | |
| tmpdir | /home/y/var/lib/tmp | |  | |  | |
| slave\_load\_tmpdir | /home/y/var/lib/tmp | |  | |  | |
| innodb\_file\_format | Barracuda | |  | |  | |
| innodb\_file\_format\_max | Barracuda | |  | |  | |
| innodb\_strict\_mode | 1 | |  | |  | |
| # BINARY LOGGING # |  | |  | |  | |
| log-bin | /home/y/var/lib/mysql/mysql-bin | |  | |  | |
| expire-logs-days | 3 | |  | |  | |
| sync-binlog | 5000 | | 5000 | |  | |
| log\_slave\_updates | 1 | |  | |  | |
| binlog\_format | row | |  | |  | |
| # REPLICATION # |  | |  | |  | |
| #read-only | 1 | |  | |  | |
| skip-slave-start | 1 | |  | |  | |
| log-slave-updates | 1 | |  | |  | |
| relay-log | /home/y/var/lib/mysql/relay-bin | |  | |  | |
| slave-net-timeout | 60 | |  | |  | |
|  |  | |  | |  | |
| # CACHES AND LIMITS # |  | |  | |  | |
| tmp-table-size | 128M | |  | |  | |
| max-heap-table-size | 32M | |  | |  | |
| query-cache-type | 0 | |  | |  | |
| query-cache-size | 0 | |  | |  | |
| max-connections | 30000 | |  | |  | |
| max\_user\_connections | 3000 | |  | |  | |
| thread-cache-size | 50 | |  | |  | |
| open-files-limit | 65535 | |  | |  | |
| table-definition-cache | 4096 | |  | |  | |
| table-open-cache | 10240 | |  | |  | |
| back\_log | 500 | |  | |  | |
| table\_open\_cache | 750 | | 20000 | |  | |
| bulk\_insert\_buffer\_size | 64M | |  | |  | |
|  |  | |  | |  | |
| # INNODB # |  | |  | |  | |
| innodb-flush-method | O\_DIRECT | |  | |  | |
| innodb-log-files-in-group | 3 | |  | |  | |
| innodb-log-file-size | 1G | |  | |  | |
| innodb\_flush\_log\_at\_trx\_commit | 2 | |  | | 根据实际设置1或者2 | |
| innodb\_file\_per\_table | 1 | |  | |  | |
| innodb\_buffer\_pool\_size | 90G | |  | | 分配系统60-70% | |
| innodb\_log\_buffer\_size | 8M | |  | |  | |
| innodb\_lock\_wait\_timeout | 120 | |  | |  | |
| innodb\_open\_files | 65535 | |  | |  | |
| innodb\_buffer\_pool\_populate | 1 | |  | |  | |
| innodb\_flush\_neighbors | 0 | |  | |  | |
| innodb\_thread\_concurrency | 64 | |  | |  | |
| # LOGGING # |  | |  | |  | |
| slow-query-log | 1 | |  | |  | |
| long\_query\_time | 1 | |  | |  | |
| slow\_query\_log\_file | slow.log | |  | |  | |
|  |  | |  | |  | |
| #THREAD POOL# |  | |  | |  | |
| thread\_handling | pool-of-threads | |  | |  | |
| thread\_pool\_oversubscribe | 10 | |  | |  | |
| thread\_pool\_stall\_limit | 10 | |  | |  | |
|  |  | |  | |  | |
| #IO # |  | |  | |  | |
| innodb\_io\_capacity | 10000 | | 10000 | |  | |
| innodb\_write\_io\_threads | 16 | |  | |  | |
| innodb\_read\_io\_threads | 16 | |  | |  | |
| binlog\_cache\_size | | 1M | | 8M | | binlog缓存大小 | |

注：mdb4,mdb41的max\_user\_connections = 4000

mdb5,mdb51的slave\_parallel\_threads=16 wait\_timeout=28800

bimdb52的slave\_parallel\_threads=16 expire\_logs\_days=5

## 安全配置

* 账户权限必须指定唯一IP地址，给定特殊用户具体的权限。

## 主从复制设置

* 详见参数配置

## 备份设置

* 新的环境或者系统重做后，需要注意相关的备份脚本

## 监视设置

* 新的环境或者系统重做后，需要把相关监控添加到监控系统中，如zabbix、grafana等。

## Ｃｒｏｎ设置

* 对于老系统重做的情况，需要特别注意原有系统是否有cron在运行，并迁移到重做系统中。

## 版本

|  |  |  |
| --- | --- | --- |
| 版本 | 修改人 | 日期 |
| 1.0 | 郁千里 | 2016-7-8 |
|  |  |  |
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