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

* Percona 5.6.24.x

## 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

## 参数配置规范

|  |  |  |  |
| --- | --- | --- | --- |
| 参数名称 | 标准范围 | 缺省值 | 设置说明 |
| [mysql] |  |  |  |
| port | 3306 |  |  |
| socket | /home/y/var/lib/mysql/mysql.sock |  |  |
| prompt | (\\u@\\h) [\\d]>\\\_ |  |  |
| auto-rehash | 1 |  |  |
| [mysqld] |  |  |  |
| user | mysql |  |  |
| datadir | /home/y/var/lib/mysql |  | 数据文件路径 |
| tmpdir | /home/y/var/lib/tmp |  | 临时文件路径 |
| slave\_load\_tmpdir | /home/y/var/lib/tmp | /tmp | slave 在复制过程中执行load data infile 创建临时文件路径，不支持动态调整 |
| skip\_name\_resole | on | off | 禁止反解析 |
| lower\_case\_table\_names | on | on | 大小写区分 |
| sync\_binlog | 1 or 5000 | 5000 | binlog日志刷盘频率，基于数据保护级别确定 |
| open\_files\_limit | 65535 | 5000 | db打开文件限制 |
| gtid-mode | gtid-mode=on | off | 开启GTID模式 |
| enforce-gtid-consistency | enforce-gtid-consistency=on | FALSE | 开启GTID模式 |
| thread\_handing | pool-of-threads |  |  |
| thread\_pool\_stall\_limit | 10 |  |  |
| thread\_pool\_oversubscribe | 10 |  |  |
| port | 3306 |  |  |
| pid-file | /home/y/var/lib/mysql/mysql.sock |  |  |
| socket | /home/y/var/lib/mysql/mysql.sock |  |  |
| back\_log | 500 | -1 |  |
| max\_connections | 30000 | 30000 |  |
| max\_user\_connections | 4000 | 3000 | 默认0表示不限制 |
| max\_connect\_errors | 99999999 | 100 |  |
| table\_open\_cache | 750 | 20000 | 表高速缓存的数量 |
| max\_allowed\_packet | max\_allowed\_packet = 64M |  |  |
| binlog\_cache\_size | 1M | 8M | binlog缓存大小 |
| max\_heap\_table\_size | 128M | 16M |  |
| read\_buffer\_size | 2M | 131072 |  |
| read\_rnd\_buffer\_size | 4M | 262144 | 适用于myisam表 |
| sort\_buffer\_size | 8M | 262144 |  |
| join\_buffer\_size | 8M | 262144 |  |
| thread\_cache\_size | 500 | -1 | -1表示自动管理 |
| thread\_concurrency | 24 | 10 | 建议基于当前服务器的cpu内核设置大小 |
| query\_cache\_size | 64M | 关闭 | 建议关闭 |
| query\_cache\_limit | 2M | 关闭 | 建议关闭 |
| ft\_min\_word\_len | 4 | 4 |  |
| default-storage-engine | InnoDB | InnoDB |  |
| thread\_stack | 192K | 262144 |  |
| transaction-isolation | REPEATABLE-READ | REPEATABLE-READ |  |
| tmp\_table\_size | 64M | 16777216 |  |
| log-bin | mysql-bin |  |  |
| binlog\_format | row | MIXED |  |
| log\_slave\_updates | 1 | FALSE |  |
| slow\_query\_log | 1 | OFF |  |
| log\_queries\_not\_using\_indexes | 1 | OFF |  |
| long\_query\_time | 1 | 10 |  |
| server-id | 112 |  | 根据实际情况而定 |
| key\_buffer\_size | 128M | 8388608 |  |
| bulk\_insert\_buffer\_size | 64M | 8388608 |  |
| myisam-recover-options | 1 | OFF |  |
| innodb\_additional\_mem\_pool\_size | 16M | 8388608 |  |
| innodb\_buffer\_pool\_size | 129G |  | 物理内存的60-70% |
| innodb-strict-mode | 1 | OFF |  |
| innodb | force |  |  |
| innodb\_kill\_idle\_transaction | 60 |  |  |
| innodb\_data\_file\_path | ibdata1:256M:autoextend | ibdata1:12M:autoextend |  |
| innodb\_write\_io\_threads | 24 | 4 | 参考cpu内核 |
| innodb\_read\_io\_threads | 24 | 4 | 参考cpu内核 |
| innodb\_thread\_concurrency | 16M | 0 |  |
| innodb\_flush\_log\_at\_trx\_commit | 1 | 1 | 1或者2 |
| innodb\_log\_buffer\_size | 8M | 8388608 |  |
| innodb\_log\_file\_size | 1024M | 50331648 | 1024M |
| innodb\_log\_files\_in\_group | 3 | 2 |  |
| innodb\_max\_dirty\_pages\_pct | 70 | 75 |  |
| innodb\_flush\_method | O\_DIRECT | NULL |  |
| innodb\_lock\_wait\_timeout | 120 | 50 |  |
| innodb\_buffer\_pool\_populate |  |  |  |
| character-set-server | utf8 | latin1 |  |
| max\_binlog\_files | 60 |  | 根据实际需求设置 |
| innodb\_file\_per\_table | 1 | on |  |
| innodb\_open\_files | 16384 | -1 |  |
| extra\_port | 3307 |  |  |
| extra\_max\_connections | 5 |  |  |
| innodb\_io\_capacity | 10000 | 10000 |  |
| innodb\_flush\_neighbors | 0 | 1 |  |
| expand\_fast\_index\_creation | 1 |  |  |
| innodb\_log\_block\_size | 4096 |  |  |
| innodb\_file\_format | Barracuda | Antelope |  |
| innodb\_file\_format\_max | Barracuda | Antelope |  |
| slave\_net\_timeout | 30 | 3600 |  |
| skip-slave-start | 1 | OFF |  |
| [mysqldump] |  |  |  |
| max\_allowed\_packet | 16M | 4194304 |  |
| [myisamchk] |  |  |  |
| key\_buffer\_size | 512M | 8388608 |  |
| sort\_buffer\_size | 512M | 262144 |  |
| read\_buffer | 8M | 131072 |  |
| write\_buffer | 8M | 262136 |  |
| [mysqlhotcopy] |  |  |  |
| interactive-timeout |  |  |  |
| [mysqld\_safe] |  |  |  |
| numa-interleave |  |  |  |
| flush-caches |  |  |  |

## 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 | 2016-06-16 |
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