**AutoDBCheck系统MySQL数据库巡检**

**巡检信息:**

|  |  |  |  |
| --- | --- | --- | --- |
| 序号 | 巡检人 | 巡检时间 | 巡检版本 |
| 1 | 陈举超 | Sun Jul 3 13:42:19 CST 2022 | V1.0 |

**IP信息：**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 序号 | 主节点IP | 从节点IP | VIP | 数据库架构 |
| 1 | 10.0.0.11 | 10.0.0.13 | 10.0.0.15 | MySQL 主从 |

**数据库巡检内容:**

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| --- | --- | --- |
| 序号 | 巡检项 | 巡检明细 |
| 1 | 数据库信息 | 操作系统版本、IP信息、架构信息、数据库创建时间、数据库启动时间、数据库版本信息、数据库补丁信息、字符集等 |
| 2 | 数据库文件信息 | 表空间信息、UNDO文件信息、临时文件信息、REDO LOG文件信息、控制文件信息、BINLOG信息等 |
| 3 | 数据库高可用信息 | 主从同步信息、同步方式 |
| 4 | 数据库对象信息 | 表信息、分区表信息、视图、触发器、存储过程、数据库大小、用户数据大小等 |
| 5 | 数据库备份信息 | 备份计划任务、备份大小、备份文件等 |
| 6 | 数据库性能信息 | 会话信息、锁信息、TOP SQL等 |
| 7 | 数据库参数信息 | 根据参数基线匹配当前参数设置是否正确 |
| 8 | 数据库系统信息 | 磁盘目录信息、NFS信息 |
| 9 | 数据库日志信息 | 错误日志、慢日志、系统日志 |
| 10 | 数据库巡检结果 | 数据库巡检结果 |

# **数据库巡检明细如下:**

# **一：数据库基础信息**

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| 数据库基础信息 | 内容 |
| 操作系统版本 | Red Hat Enterprise Linux Server release 7.5 (Maipo) |
| 巡检开始时间 | Sun Jul 3 13:42:19 CST 2022 |
| 数据库版本 | 5.7.22-log |
| 数据库名称 | cjcdb |
| 数据库创建时间 | 2022-06-26 10:15:21 |
| 数据库运行时间 | 1 hour 14 min 23 sec |
| 数据库字符集 | information\_schema utf8 cjcdb utf8mb4 mysql utf8mb4 performance\_schema utf8 sys utf8 |
| 实例字符集 | character\_set\_client utf8mb4 character\_set\_connection utf8mb4 character\_set\_database utf8mb4 character\_set\_filesystem binary character\_set\_results utf8mb4 character\_set\_server utf8mb4 character\_set\_system utf8 character\_sets\_dir /usr/share/mysql/charsets/ |
| 端口号 | 3308 |

# **二：数据库文件信息**

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| --- | --- |
| 数据库文件信息 | 内容 |
| 表空间数量统计 | TABLESPACE 22 TEMPORARY 1 UNDO LOG 4 |
| UNDO表空间信息 | 1 /mysqldata/3308/mysql/data/undo001 innodb\_undo001 NORMAL 2 /mysqldata/3308/mysql/data/undo002 innodb\_undo002 NORMAL 3 /mysqldata/3308/mysql/data/undo003 innodb\_undo003 NORMAL 4 /mysqldata/3308/mysql/data/undo004 innodb\_undo004 NORMAL |
| TEMOIRARY表空间信息 | 34 /mysqldata/3308/mysql/data/ibtmp1 innodb\_temporary NORMAL |
| Redo log写缓存 | 67108864 |
| Redo log file大小 | 1073741824 |
| Redo log 组数 | 2 |
| Redo log目录位置 | /mysqldata/3308/mysql/data |
| trx\_commit | 2 |
| Binlog是否启用 | ON |
| Binlog 路径信息 | /mysqldata/3308/mysql/data/mysql-bin |
| Binlog 文件列表 | mysql-bin.000001 177 mysql-bin.000002 583 mysql-bin.000003 9224229 mysql-bin.000004 217 mysql-bin.000005 217 mysql-bin.000006 217 mysql-bin.000007 194 |
| Binlog Position信息 | mysql-bin.000007 194 |
| Binlog格式 | ROW |
| Binlog 缓存 | 262144 |
| Binlog 缓存使用情况 | binlog\_cache\_size 262144 max\_binlog\_cache\_size 18446744073709547520 |
| Binlog保留时间 | 10 |
| Binglog单个大小 | 536870912 |
| Realy log路径 | /mysqldata/3308/mysql/data/mysql-relay-bin |
| Realy log文件 | relay-log.info |
| Realy log存储方式 | FILE |
| 参数文件 | /etc/my.cnf |
| Pid文件 | /mysqldata/3308/mysql/mysqld.pid |
| socket文件 | /mysqldata/3308/mysql/mysql.sock |

# **三：数据库高可用信息**

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| --- | --- |
| 数据库高可用信息 | 内容 |
| I/O线程 | Yes |
| SQL线程 | Yes |
| 同步延时 | 0 |
| 同步方式 | rpl\_semi\_sync\_master\_enabled ON rpl\_semi\_sync\_master\_timeout 10000 rpl\_semi\_sync\_master\_trace\_level 32 rpl\_semi\_sync\_master\_wait\_for\_slave\_count 1 rpl\_semi\_sync\_master\_wait\_no\_slave ON rpl\_semi\_sync\_master\_wait\_point AFTER\_SYNC |

# **四：数据库对象信息**

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| --- | --- |
| 数据库对象信息 | 内容 |
| 用户信息 | cjc 192.168.% N cjc localhost N mysql.session localhost Y mysql.sys localhost Y root localhost N |
| 数据库总大小(MB) | cjcdb 40.65 mysql 2.11 information\_schema 0.10 sys 0.01 performance\_schema 0.00 |
| 索引总大小(MB) | cjcdb 40.65 mysql 2.11 information\_schema 0.10 sys 0.01 performance\_schema 0.00 |
| 用户创建时间 | cjc 192.168.% 2022-07-02 11:14:31 cjc localhost 2022-07-02 11:14:48 mysql.session localhost 2022-06-26 10:15:20 mysql.sys localhost 2022-06-26 10:15:20 root localhost 2022-06-26 10:20:39 |
| 用户表数量 | cjcdb 9 information\_schema 61 mysql 31 performance\_schema 87 sys 101 |
| 用户视图数量 | cjcdb 1 sys 100 |
| 用户触发器数量 | sys 2 |
| 用户存储过程数量 | cjcdb 1 sys 48 |
| 用户分区表数量 | cjcdb messages part4 1 cjcdb messages part1 1 cjcdb messages part2 1 cjcdb messages part3 1 cjcdb messages part0 1 |
| 用户存储引擎数量 | cjcdb NULL 1 cjcdb ARCHIVE 1 cjcdb CSV 1 cjcdb InnoDB 3 cjcdb MEMORY 2 cjcdb MyISAM 1 |

# **五：数据库备份信息**

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| 数据库对象信息 | 内容 |
| 数据库本地备份计划任务 | 00 23 \* \* \* sh /mysqlbak/mysqlbak.sh 2 > /dev/null |
| 数据库备份文件大小 | -rw-r--r-- 1 mysql mysql 38M Jul 23 18:06 /mysqlbak/mysql\_cjcdb\_2022-07-23-18-06-57.sql |
| 数据库备份错误信息 |  |

# **六：数据库性能信息**

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| 数据库性能信息 | 内容 |
| process信息 | event\_scheduler localhost NULL Daemon Waiting on empty queue cjc localhost cjcdb Query Sending data root localhost NULL Query executing cjc localhost cjcdb Query User sleep |
| 最大连接信息 | Connections 13 Max\_used\_connections 4 Max\_used\_connections\_time 2022-08-07 12:37:09 |
| 等待事件信息 | 4.76 s NULL wait/synch/cond/sql/Item\_func\_sleep::cond timed\_wait 1.48 m 48 bytes wait/io/table/sql/handler fetch |
| 事务信息 | 421373360118496 RUNNING 2022-08-07 12:37:05 2022-08-07 12:37:09 select \* from t2 421373360117584 RUNNING 2022-08-07 12:35:45 2022-08-07 12:37:09 select 1,sleep(60) from t2 xxx |
| 慢日志信息 | Count: 2 Time=900.00s (1800s) Lock=0.00s (0s) Rows=3.0 (6), cjc[cjc]@[192.168.31.200]  select \*,sleep(N) from t3 |
| 内存使用率 | MemTotal: 2046480 kB MemFree: 706108 kB MemAvailable: 962108 kB Buffers: 2148 kB Cached: 331528 kB |
| 内存使用TOP 10 | USER PID %CPU %MEM VSZ RSS TTY STAT START TIME COMMAND mysql 2876 0.2 20.4 2285548 417612 pts/0 Sl 10:35 0:16 mysqld --defaults-file=/etc/my.cnf --user=mysql gdm 1769 0.1 7.8 2921160 160512 ? Sl 10:24 0:08 /usr/bin/gnome-shell mysql 10666 4.5 3.2 195584 66560 pts/3 S+ 12:35 0:03 mysql -ucjc -p root 847 0.0 1.6 357948 34244 ? Ssl 10:23 0:01 /usr/bin/python -Es /usr/sbin/firewalld --nofork --nopid root 1424 0.0 1.4 283904 30680 tty1 Ssl+ 10:23 0:00 /usr/bin/X :0 -background none -noreset -audit 4 -verbose -auth /run/gdm/auth-for-gdm-mwjpO9/database -seat seat0 -nolisten tcp vt1 gdm 1898 0.0 1.3 968388 27404 ? Sl 10:24 0:00 /usr/libexec/gsd-media-keys gdm 1910 0.0 1.2 651120 25256 ? Sl 10:24 0:00 /usr/libexec/gsd-power gdm 1892 0.0 1.2 642400 24728 ? Sl 10:24 0:00 /usr/libexec/gsd-keyboard gdm 1886 0.0 1.2 731356 25176 ? Sl 10:24 0:01 /usr/libexec/gsd-color root 1366 0.0 1.1 701684 23932 ? Ssl 10:23 0:00 /usr/sbin/libvirtd |
| CPU使用TOP 10 | USER PID %CPU %MEM VSZ RSS TTY STAT START TIME COMMAND mysql 10666 4.5 3.2 195584 66560 pts/3 S+ 12:35 0:03 mysql -ucjc -p root 10438 0.3 0.4 163492 9656 ? Ss 12:33 0:00 sshd: root@pts/3 mysql 2876 0.2 20.4 2285548 417612 pts/0 Sl 10:35 0:16 mysqld --defaults-file=/etc/my.cnf --user=mysql gdm 1769 0.1 7.8 2921160 160512 ? Sl 10:24 0:08 /usr/bin/gnome-shell rtkit 755 0.0 0.1 198772 3668 ? SNsl 10:23 0:00 /usr/libexec/rtkit-daemon rpc 754 0.0 0.1 69232 3220 ? Ss 10:23 0:00 /sbin/rpcbind -w root 9 0.0 0.0 0 0 ? S 10:22 0:00 [rcuos/0] root 875 0.0 0.6 480748 13992 ? Ssl 10:23 0:00 /usr/sbin/NetworkManager --no-daemon root 847 0.0 1.6 357948 34244 ? Ssl 10:23 0:01 /usr/bin/python -Es /usr/sbin/firewalld --nofork --nopid root 837 0.0 0.1 115312 2404 ? S 10:23 0:00 /bin/bash /usr/sbin/ksmtuned |

# **七：数据库参数信息**

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| 参数 | 值 |
| Aborted\_clients Aborted\_connects Binlog\_cache\_disk\_use Binlog\_cache\_use Bytes\_received Bytes\_sent Connection\_errors\_max\_connections Connections Created\_tmp\_disk\_tables Created\_tmp\_files Created\_tmp\_tables Key\_read\_requests Key\_reads Key\_write\_requests Key\_writes Max\_used\_connections Max\_used\_connections\_time Open\_files Open\_table\_definitions Open\_tables Slave\_open\_temp\_tables Slow\_launch\_threads Slow\_queries Sort\_merge\_passes Sort\_range Sort\_rows Sort\_scan Table\_open\_cache\_hits Table\_open\_cache\_misses Threads\_cached Threads\_connected Threads\_created Threads\_running Uptime Uptime\_since\_flush\_status | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1037 108 115 12563 12563 17 185 2 2 2 2022-08-27 17:47:07 25 3 6 6 |

# **八：数据库系统信息**

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| 数据库系统信息 | 内容 |
| 磁盘空间 | Filesystem Size Used Avail Use% Mounted on devtmpfs 975M 0 975M 0% /dev tmpfs 1000M 0 1000M 0% /dev/shm tmpfs 1000M 9.3M 990M 1% /run tmpfs 1000M 0 1000M 0% /sys/fs/cgroup /dev/mapper/cjc-root 47G 42G 5.5G 89% / /dev/sda1 1014M 204M 811M 21% /boot tmpfs 200M 12K 200M 1% /run/user/42 tmpfs 200M 0 200M 0% /run/user/0 |
| inode空间 | Filesystem Inodes IUsed IFree IUse% Mounted on devtmpfs 249511 398 249113 1% /dev tmpfs 255810 1 255809 1% /dev/shm tmpfs 255810 697 255113 1% /run tmpfs 255810 15 255795 1% /sys/fs/cgroup /dev/mapper/cjc-root 23126704 313729 22812975 2% / /dev/sda1 1048576 330 1048246 1% /boot tmpfs 255810 9 255801 1% /run/user/42 tmpfs 255810 1 255809 1% /run/user/0 |
| mount信息 | sysfs on /sys type sysfs (rw,nosuid,nodev,noexec,relatime) proc on /proc type proc (rw,nosuid,nodev,noexec,relatime) devtmpfs on /dev type devtmpfs (rw,nosuid,size=998044k,nr\_inodes=249511,mode=755) securityfs on /sys/kernel/security type securityfs (rw,nosuid,nodev,noexec,relatime) tmpfs on /dev/shm type tmpfs (rw,nosuid,nodev) devpts on /dev/pts type devpts (rw,nosuid,noexec,relatime,gid=5,mode=620,ptmxmode=000) tmpfs on /run type tmpfs (rw,nosuid,nodev,mode=755) tmpfs on /sys/fs/cgroup type tmpfs (ro,nosuid,nodev,noexec,mode=755) cgroup on /sys/fs/cgroup/systemd type cgroup (rw,nosuid,nodev,noexec,relatime,xattr,release\_agent=/usr/lib/systemd/systemd-cgroups-agent,name=systemd) pstore on /sys/fs/pstore type pstore (rw,nosuid,nodev,noexec,relatime) cgroup on /sys/fs/cgroup/cpu,cpuacct type cgroup (rw,nosuid,nodev,noexec,relatime,cpu,cpuacct) cgroup on /sys/fs/cgroup/perf\_event type cgroup (rw,nosuid,nodev,noexec,relatime,perf\_event) cgroup on /sys/fs/cgroup/devices type cgroup (rw,nosuid,nodev,noexec,relatime,devices) cgroup on /sys/fs/cgroup/memory type cgroup (rw,nosuid,nodev,noexec,relatime,memory) cgroup on /sys/fs/cgroup/blkio type cgroup (rw,nosuid,nodev,noexec,relatime,blkio) cgroup on /sys/fs/cgroup/net\_cls,net\_prio type cgroup (rw,nosuid,nodev,noexec,relatime,net\_cls,net\_prio) cgroup on /sys/fs/cgroup/cpuset type cgroup (rw,nosuid,nodev,noexec,relatime,cpuset) cgroup on /sys/fs/cgroup/freezer type cgroup (rw,nosuid,nodev,noexec,relatime,freezer) cgroup on /sys/fs/cgroup/hugetlb type cgroup (rw,nosuid,nodev,noexec,relatime,hugetlb) configfs on /sys/kernel/config type configfs (rw,relatime) /dev/mapper/cjc-root on / type xfs (rw,relatime,attr2,inode64,noquota) systemd-1 on /proc/sys/fs/binfmt\_misc type autofs (rw,relatime,fd=31,pgrp=1,timeout=0,minproto=5,maxproto=5,direct) hugetlbfs on /dev/hugepages type hugetlbfs (rw,relatime) mqueue on /dev/mqueue type mqueue (rw,relatime) debugfs on /sys/kernel/debug type debugfs (rw,relatime) binfmt\_misc on /proc/sys/fs/binfmt\_misc type binfmt\_misc (rw,relatime) /dev/sda1 on /boot type xfs (rw,relatime,attr2,inode64,noquota) sunrpc on /var/lib/nfs/rpc\_pipefs type rpc\_pipefs (rw,relatime) tmpfs on /run/user/42 type tmpfs (rw,nosuid,nodev,relatime,size=204648k,mode=700,uid=42,gid=42) tmpfs on /run/user/0 type tmpfs (rw,nosuid,nodev,relatime,size=204648k,mode=700) |
| 开机自动挂载 | /dev/mapper/cjc-root / xfs defaults 0 0 UUID=0c40f9a9-05a5-417f-b04a-9e6cfb0720f7 /boot xfs defaults 0 0 /dev/mapper/ol-swap swap swap defaults 0 0 |

# **九：数据库日志信息**

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| 数据库日志信息 | 内容 |
| error日志 | 2022-08-28T04:31:39.141661Z 0 [Warning] 'NO\_ZERO\_DATE', 'NO\_ZERO\_IN\_DATE' and 'ERROR\_FOR\_DIVISION\_BY\_ZERO' sql modes should be used with strict mode. They will be merged with strict mode in a future release. 2022-08-28T04:31:41.532296Z 0 [Warning] Failed to set up SSL because of the following SSL library error: SSL context is not usable without certificate and private key |
| message日志 |  |