

MyAWR(awr of MySQL)

DBA Team

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文档修订版历史

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1. What is myawr

Myawr is a tool for collecting and analyzing performance data for MySQL database (including os info ,mysql status info and Slow Query Log all of details). The idea comes from Oracle awr. Myawr periodic collect data and save to the database as snapshots. Myawr was designed as CS architecture. Myawr depends on performance schema of MySQL database. Myawr consists of two parts:

myawr.pl-----a perl script for collecting mysql performance data

myawrrpt.pl-----a perl script for analyzing mysql performance data

Myawr relies on the [Percona Toolkit](#) to do the slow query log collection. Specifically you can run [pt-query-digest](#). To parse your slow logs and insert them into your server database for reporting and analyzing.

Thanks to orzdba.pl (zhuxu@taobao.com).

2.Myawr Data Model

myawr db include tables list:

```
mysql> show tables;
```

Tables_in_myawr
myawr_cpu_info
myawr_host
myawr_innodb_info
myawr_io_info
myawr_isam_info
myawr_load_info
myawr_mysql_info
myawr_query_review
myawr_query_review_history
myawr_snapshot
myawr_snapshot_events_waits_summary_by_instance
myawr_snapshot_events_waits_summary_global_by_event_name
myawr_snapshot_file_summary_by_event_name
myawr_snapshot_file_summary_by_instance
myawr_swap_net_disk_info

```
15 rows in set (0.01 sec)
```

some key tables:

myawr_host-- mysql instance config table

myawr_snapshot -- snapshot table,exec myawr.pl a time as a shapshot

myawr_query_review_history -- The table in which to store historical values for review trend analysis about slow log.

myawr data model:

myawr_snapshot.host_id reference myawr_host.id;

myawr_query_review_history.hostid_max reference myawr_host.id;

myawr_innodb_info.(host_id,snap_id) reference myawr_snapshot.(host_id,snap_id);



myawr introduction

myawr_query_review_history	
PK	checksum
PK,11,12	ts_min ts_max
1	hostid_max db_max sample ts_cnt Query_time_sum Query_time_min Query_time_max Query_time_pct_95 Query_time_stddev Query_time_median Lock_time_sum Lock_time_min Lock_time_max Lock_time_pct_95 Lock_time_stddev Lock_time_median Rows_sent_sum Rows_sent_min Rows_sent_max Rows_sent_pct_95 Rows_sent_stddev Rows_examined_max Rows_examined_min Rows_examined_max Rows_examined_pct_95 Rows_examined_stddev Rows_examined_median Rows_affected_sum Rows_affected_min Rows_affected_max Rows_affected_pct_95 Rows_affected_stddev Rows_affected_median Rows_read_sum Rows_read_min Rows_read_max Rows_read_pct_95 Rows_read_stddev Rows_read_median Merge_passes_sum Merge_passes_min Merge_passes_max Merge_passes_pct_95 Merge_passes_stddev Merge_passes_median InnoDB_IO_r_ops_min InnoDB_IO_r_ops_max InnoDB_IO_r_ops_pct_95 InnoDB_IO_r_ops_stddev InnoDB_IO_r_ops_median InnoDB_IO_r_bytes_min InnoDB_IO_r_bytes_max InnoDB_IO_r_bytes_pct_95 InnoDB_IO_r_bytes_stddev InnoDB_IO_r_bytes_median InnoDB_IO_r_wait_min InnoDB_IO_r_wait_max InnoDB_IO_r_wait_pct_95 InnoDB_IO_r_wait_stddev InnoDB_rec_lock_wait_min InnoDB_rec_lock_wait_max InnoDB_rec_lock_wait_pct_95 InnoDB_rec_lock_wait_stddev InnoDB_rec_lock_wait_median InnoDB_queue_wait_min InnoDB_queue_wait_max InnoDB_queue_wait_pct_95 InnoDB_queue_wait_stddev InnoDB_queue_wait_median InnoDB_pages_distinct_min InnoDB_pages_distinct_max InnoDB_pages_distinct_pct_95 InnoDB_pages_distinct_stddev InnoDB_pages_distinct_median OC_HH_cnt QC_HH_sum Full_scan_cnt Full_scan_sum Full_join_cnt Full_join_sum Tmp_table_cnt Tmp_table_sum Tmp_table_on_disk_cnt Tmp_table_on_disk_sum Filesort_cnt Filesort_sum Filesort_on_disk_cnt Filesort_on_disk_sum

ref myawr_host.id

myawr_load_info	
PK	id
PK,11	snap_time
12,13	snap_id host_id load1 load5 load15

myawr_isam_info	
PK	id
PK,11	snap_time
12,13,12	snap_id host_id key_buffer_size join_buffer_size sort_buffer_size Key_blocks_not_flushed Key_blocks_unused Key_blocks_used Key_read_requests Key_reads Key_write_requests Key_writes

myawr_snapshot	
PK	id
PK,11	snap_time
12	host_id snap_id

myawr_swap_net_disk_info	
PK	id
PK,11	snap_time
12,13	snap_id host_id swap_in swap_out net_recv net_send file_system total_mb used_mb used_pct mount_point

myawr_cpu_info	
PK	id
PK,12	snap_time
11,13,11	snap_id host_id cpu_user cpu_system cpu_idle cpu_iowait

myawr_host	
PK	id
	host_name ip_addr port db_role version uptime check_time

myawr_io_info	
PK	id
PK,11	snap_time
12,13,12	snap_id host_id rd_ios_s wr_ios_s rkbs wkbs queue wait svc_t busy

myawr_snapshot_file_summary_by_event_name	
PK	id
PK,11	snap_time
12,13,12	snap_id host_id EVENT_NAME COUNT_READ COUNT_WRITE SUM_NUMBER_OF_BYTES_READ SUM_NUMBER_OF_BYTES_WRITE

myawr_innodb_info	
PK	id
PK,12	snap_time
11,13,11	snap_id host_id InnoDB_rows_inserted InnoDB_rows_updated InnoDB_rows_deleted InnoDB_rows_read InnoDB_buffer_pool_read_requests InnoDB_buffer_pool_reads InnoDB_buffer_pool_pages_data InnoDB_buffer_pool_pages_free InnoDB_buffer_pool_pages_dirty InnoDB_buffer_pool_pages_flushed InnoDB_data_reads InnoDB_data_writes InnoDB_data_read InnoDB_data_written InnoDB_os_log_fsyncs InnoDB_os_log_writes history_list log_bytes_written log_bytes_flushed last_checkpoint queries_inside queries_queued read_views innodb_open_files innodb_log_waits

myawr_mysql_info	
PK	id
PK,11	snap_time
12,13,12	snap_id host_id query_cache_size thread_cache_size table_definition_cache max_connections table_open_cache slow_launch_time log_slow_queries max_heap_table_size tmp_table_size open_files_limit Max_used_connections Threads_connected Threads_cached Threads_created Threads_running Connections Questions Com_select Com_insert Com_update Com_delete Bytes_received Bytes_sent Qcache_hits Qcache_inserts Select_full_join Select_scan Slow_queries Com_commit Com_rollback Open_files Open_table_definitions Open_tables Opened_files Opened_table_definitions Opened_tables Created_tmp_disk_tables Created_tmp_files Created_tmp_tables Binlog_cache_disk_use Binlog_cache_use Aborted_clients Sort_merge_passes Sort_range Sort_rows Sort_scan Table_locks_immediate Table_locks_waited Handler_read_first Handler_read_key Handler_read_last Handler_read_next Handler_read_prev Handler_read_rnd Handler_read_rnd_next

myawr_query_review	
PK	checksum
	fingerprint sample first_seen last_seen reviewed_by reviewed_on comments reviewed_status

myawr_snapshot_events_waits_summary_global_by_event_name	
PK	id
PK,11	snap_time
12,13,12	snap_id host_id EVENT_NAME COUNT_STAR SUM_TIMER_WAIT MIN_TIMER_WAIT AVG_TIMER_WAIT MAX_TIMER_WAIT

3. Quickstart

If you are interesting to use this tool, here's what you need:

1. A MySQL database to store snapshot data and slow log analysis data .
2. pt-query-digest by percona
3. A MySQL server with perl-DBD-mysql
4. slow query logs named like slow_20130521.log,you can switch slow logs every day.

3.1 install db

Connect to the MySQL database where store the performance data and issue the following command in myawr.sql:

```
CREATE DATABASE `myawr` DEFAULT CHARACTER SET utf8;  
grant all on myawr.* to 'user'@'%' identified by "111111";
```

then create tables in db myawr.

3.2 initialize myawr_host

Insert a config record about your mysql instacne,just like:

```
INSERT INTO `myawr_host`(id,host_name,ip_addr,port,db_role,version) VALUES (6, 'db2.11', '192.168.2.11', 3306, 'master', '5.5.27');
```

3.3 add two jobs in crontab

```
* * * * * perl /data/mysql/sh/myawr.pl -u user -p 111111 -lh 192.168.2.11 -P 3306 -tu user -tp 111111 -TP 3306 -th
192.168.1.92 -n eth0 -d sdb1 -I 6 >> /data/mysql/sh/myawr_pl.log 2>&1
#
15 14 * * * /data/mysql/sh/pt-query-digest --user=user --password=111111 --review
h=192.168.1.92,D=myawr,t=myawr_query_review --review-history h=192.168.1.92,D=myawr,t=myawr_query_review_history
--no-report --limit=100\% --filter="\$event->{add_column} = length(\$event->{arg}) and \$event->{hostid}=6"
/data/mysql/sh/slow_date -d "-1 day" +"%Y%m%d"`.log >> /data/mysql/sh/pt-query_run.log 2>&1
```

myawr.pl Parameters:

-h, --help	Print Help Info.
-i, --interval	Time(second) Interval(default 1).
-d, --disk	Disk Info(can't be null, default sda1).
-n, --net	Net Info(default eth0).
-P, --port	Port number to use for local mysql connection(default 3306).
-u, --user	user name for local mysql(default user).


```
-p, --pswd          user password for local mysql (can't be null).
-lh, --lhost        localhost(ip) for mysql where info is got (can't be null).
-TP, --tport        Port number to use formysql where info is saved (default 3306)
-tu, --tuser        user name for mysql where info is saved (default user).
-tp, --pswd        user password for mysql where info is saved (can't be null).
-th, --thost        host(ip) for mysql where info is saved (can't be null).
-I, --tid           db instance register id (can't be null, Reference myawr_host.id)
```

pt-query-digest Parameters:

```
--user            user name for mysql where info is saved
--password        user password for mysql where info is saved
--review          Store a sample of each class of query in this DSN
    h            host(ip) for mysql where info is saved
    D            database
    t            table name
--review-history  The table in which to store historical values for review trend analysis.
    h            host(ip) for mysql where info is saved
    D            database
    t            table name
$event->{hostid}=6 db instance register id (Reference myawr_host.id)
```

The pt-query-digest only support mechanism for switching a slow log file every day just now, named like slow_20130521.log (slow_date -d "-1 day" +"%Y%m%d".log)

4. Dependencies

perl-DBD-mysql

you can install it two way:

yum install perl-DBD-MySQL

or install manually like :

```
mkdir /tmp/mysqlldb-install
```

```
cp /usr/lib64/mysql/*.a /tmp/mysqlldb-install
```

```
perl Makefile.PL --libs="-L/tmp/mysqlldb-install -lmysqlclient"
```

```
make
```

```
make test
```

```
make install
```

5. Mysql WorkLoad Report

We can use myawrrpt.pl to generate mysql workload report. You can execute the script on MySQL database machine where store the performance data, but perl-DBD-MySQL is required. We also can execute the script in any linux machine with perl-DBD-MySQL installed.

You can execute it for help Info:

```
perl myawrrpt.pl -h
```

Info :

Created By noodba (www.noodba.com).

References: Oracle awr

Usage :

Command line options :

- h,--help Print Help Info.

- P,--port Port number to use for local mysql connection(default 3306).
- u,--user user name for local mysql(default user).
- p,--pswd user password for local mysql(can't be null).
- lh,--lhost localhost(ip) for mysql where info is got(can't be null).

- I,--tid db instance register id(can't be null,Ref myawr_host.id)

Sample :

```
shell> perl myawrrpt.pl -p 111111 -lh 192.168.1.111 -I 11
```

Let use to generate mysql (db2.11,instance id = 6) workload report:

```
perl myawrrpt.pl -u user -p 111111 -P 3306 -lh 192.168.1.92 -I 6
```

```
=====
|      Welcome to use the myawrrpt tool !
|      Date: 2013-05-22
|
|      Hostname is: db2.11
|      Ip addr is: 192.168.2.11
```

```
|          Port is: 3306
|          Db role is: master
| Server version is: 5.5.27
|          Uptime is: 0y 2m 2d 7h 55mi 33s
|
|   Min snap_id is: 1
| Min snap_time is: 2013-05-21 14:12:02
|   Max snap_id is: 1147
| Max snap_time is: 2013-05-22 09:29:02
| snap interval is: 60s
```

=====
Listing the last 2 days Snapshots

```
-----
snap_id:      19      snap_time : 2013-05-21 14:30:02
snap_id:      38      snap_time : 2013-05-21 14:49:02
snap_id:      57      snap_time : 2013-05-21 15:08:02
snap_id:      76      snap_time : 2013-05-21 15:27:02
snap_id:      95      snap_time : 2013-05-21 15:46:02
```

```
.....
snap_id:      1102     snap_time : 2013-05-22 08:44:02
snap_id:      1121     snap_time : 2013-05-22 09:03:02
snap_id:      1140     snap_time : 2013-05-22 09:22:02
snap_id:      1147     snap_time : 2013-05-22 09:29:02
```

Pls select Start and End Snapshot Id

Enter value for start_snap:1

Start Snapshot Id Is:1

Enter value for end_snap:589

End Snapshot Id Is:589

Set the Report Name

Enter value for report_name:myawr.html

Using the report name :myawr.html

Generating the mysql report for this analysis ...

Generate the mysql report Successfully.

```
[mysql@test2 myawr]$ ls -al
```

```
total 976
```

```
drwxrwxr-x  2 mysql mysql  4096 May 22 09:30 .
```

```
drwx----- 19 mysql mysql  4096 May 13 10:42 ..
```

```
-rw-rw-r--  1 mysql mysql 73074 May 22 09:30 myawr.html
```

```
-rw-rw-r--  1 mysql mysql 53621 May 11 16:23 myawrrpt.pl
```

Ok,let me show some pictures which come from my test db report:

Mysql WorkLoad Report

Host Name	Ip addr	Port	Db role	Version	Uptime
db2.11	192.168.2.11	3306	master	5.5.27	0y 2m 2d 7h 55mi 33s
	Snap Id	Snap Time	Threads_connected	Threads_running	
Begin Snap:	1	2013-05-21 14:12:02	481.00	3.00	
End Snap:	589	2013-05-22 00:00:02	450.00	2.00	
Elapsed:	35280 (seconds)				

Start snap value and end snap value

	Begin	End
query_cache_size :	536870912.00	536870912.00



thread_cache_size :	8.00	8.00
table_definition_cache :	400.00	400.00
max_connections :	1000.00	1000.00
table_open_cache :	512.00	512.00
slow_launch_time :	2.00	2.00
max_heap_table_size :	16777216.00	16777216.00
tmp_table_size :	67108864.00	67108864.00
open_files_limit :	131072.00	131072.00
Max_used_connections :	546.00	546.00
Threads_connected :	481.00	450.00
Threads_cached :	7.00	7.00
Threads_created :	69201.00	70825.00
Threads_running :	3.00	2.00
Connections :	354956.00	360120.00
key_buffer_size :	4294967296.00	4294967296.00
join_buffer_size :	131072.00	131072.00



sort_buffer_size :	2097152.00	2097152.00
Key_blocks_not_flushed :	0.00	0.00
Key_blocks_unused :	2375290.00	2375230.00
Key_blocks_used :	1969607.00	1969607.00
Key_read_requests :	348777792.00	3534557184.00
Key_reads :	1707226.00	1707233.00
Key_write_requests :	146567904.00	146596912.00
Key_writes :	68096480.00	68112368.00
Questions :	2205072128.00	2221643520.00
Com_select :	296839808.00	301102016.00
Com_insert :	1641965312.00	1653826688.00
Com_update :	222941536.00	223330160.00
Com_delete :	379099.00	400600.00
Bytes_received :	1289763160064.00	1299087491072.00
Bytes_sent :	2367515000832.00	2383360819200.00
Qcache_hits :	189425152.00	189425152.00



Qcache_inserts :	13178355.00	13178355.00
Select_full_join :	115250.00	115250.00
Select_scan :	79686792.00	79825888.00
Slow_queries :	78863800.00	79023552.00
Com_commit :	1026895.00	1028760.00
Com_rollback :	43041.00	43293.00
Open_files :	270.00	269.00
Open_table_definitions :	266.00	267.00
Open_tables :	512.00	512.00
Opened_files :	9150943.00	9270557.00
Opened_table_definitions :	1002.00	1004.00
Opened_tables :	8417.00	8429.00
Created_tmp_disk_tables :	1984868.00	2014532.00
Created_tmp_files :	149046.00	149955.00
Created_tmp_tables :	3449305.00	3488825.00
Binlog_cache_disk_use :	10621.00	10627.00



Binlog_cache_use :	1658462336.00	1670670848.00
Aborted_clients :	6962.00	7029.00
Sort_merge_passes :	627265.00	628456.00
Sort_range :	24359336.00	24971876.00
Sort_rows :	76120592.00	76849456.00
Sort_scan :	302621.00	305819.00
Table_locks_immediate :	75422326784.00	75864784896.00
Table_locks_waited :	4291.00	29649.00
Handler_read_first :	78804400.00	78925768.00
Handler_read_key :	5417383936.00	5433953792.00
Handler_read_last :	5363.00	5440.00
Handler_read_next :	29760935936.00	29854246912.00
Handler_read_prev :	224503360.00	224840768.00
Handler_read_rnd :	1990567296.00	1991156480.00
Handler_read_rnd_next :	577819115520.00	582355714048.00
Innodb_rows_inserted :	1687403904.00	1699259392.00



Innodb_rows_updated :	81918272.00	82447104.00
Innodb_rows_deleted :	414019.00	436102.00
Innodb_rows_read :	566820798464.00	570683752448.00
Innodb_buffer_pool_read_requests:	173554647040.00	174656290816.00
Innodb_buffer_pool_reads :	2949612.00	3018912.00
Innodb_buffer_pool_pages_data :	2583711.00	2573302.00
Innodb_buffer_pool_pages_free :	0.00	0.00
Innodb_buffer_pool_pages_dirty :	18480.00	18114.00
Innodb_buffer_pool_pages_flushed:	76138168.00	76705496.00
Innodb_data_reads :	8187181.00	8266072.00
Innodb_data_writes :	3397593856.00	3422599424.00
Innodb_data_read :	134015893504.00	135308443648.00
Innodb_data_written :	5456696705024.00	5497065308160.00
Innodb_os_log_fsyncs :	5927693.00	5968877.00
Innodb_os_log_written :	2961621385216.00	2983398735872.00
history_list :	1204.00	3359.00



log_bytes_written :	3579557183488.00	3588847042560.00
log_bytes_flushed :	3579556921344.00	3588847042560.00
last_checkpoint :	3579222163456.00	3588507041792.00
queries_inside :	0.00	0.00
queries_queued :	0.00	0.00
read_views :	1.00	1.00
innodb_open_files :	300.00	300.00
innodb_log_waits :	0.00	0.00

Some Key Load Info

	Per Second
TPS:	347
Com_select(s):	120
Com_insert(s):	336
Com_update(s):	11



Com_delete(s):	0
Innodb t_row PS:	351
Innodb_rows_inserted(s):	336
Innodb_rows_updated(s):	14
Innodb_rows_deleted(s):	0
Innodb_rows_read(/s):	109494
Innodb_data_reads(s):	2
Innodb_data_writes(s):	708
Innodb_data_read(kb/s):	35
Innodb_data_written(kb/s):	1117
Innodb_os_log_fsyncs(s):	1
Innodb_os_log_written(kb/s):	602

Some Key Hits

	Percentage



key_buffer_read_hits %:	99.99
key_buffer_write_hits %:	45.22
Innodb_buffer_read_hits %:	99.99
Query_cache_hits %:	0
Thread_cache_hits %:	68.55

Top 10 Timed Events

event_name	wait time(picsecond)	wait count
wait/synch/cond/sql/MYSQL_BIN_LOG::update_cond	34636103255361957	11871685
wait/synch/cond/mysys/my_thread_var::suspend	7008666931980153	25357
wait/io/file/myisam/dfile	3241117556648256	4230709979
wait/io/file/innodb/innodb_log_file	405232994361639	24434707
wait/io/file/sql/binlog	332197260993717	48314620
wait/synch/mutex/mysys/THR_LOCK::mutex	216558956818824	883945858
wait/io/file/innodb/innodb_data_file	174810511964073	776877



wait/synch/rwlock/innodb/index_tree_rw_lock	115895344353141	18558610
wait/synch/mutex/sql/LOG::LOCK_log	100521073634538	97564100
wait/synch/mutex/innodb/log_sys_mutex	39056470050048	150783962

Top 10 read file Events

event_name	read bytes	read count
wait/io/file/myisam/dfile	96111835055	2474810480
wait/io/file/sql/binlog	7338313313	36062679
wait/io/file/innodb/innodb_data_file	1292550144	78891
wait/io/file/myisam/kfile	13431700	59328
wait/io/file/sql/FRM	6098	14
wait/io/file/sql/log_event_info	0	0
wait/io/file/archive/metadata	0	0
wait/io/file/csv/update	0	0
wait/io/file/sql/dbopt	0	0
wait/io/file/sql/init	0	0

Top 10 write file Events

event_name	read bytes	read count
wait/io/file/innodb/innodb_data_file	24677580800	611919
wait/io/file/innodb/innodb_log_file	21779363840	24393556
wait/io/file/sql/binlog	7338313320	12251921
wait/io/file/myisam/dfile	1056829067	718535
wait/io/file/sql/slow_log	38778959	159751
wait/io/file/myisam/kfile	14356888	440529
wait/io/file/sql/FRM	7145	84
wait/io/file/sql/binlog_index	203	7
wait/io/file/sql/log_event_info	0	0
wait/io/file/archive/metadata	0	0

OS Load Info

Snap Time	load1	load5	load15
2013-05-21 14:12:02	0.08	0.07	0.07
2013-05-21 14:22:02	1.16	0.87	0.45
2013-05-21 14:32:02	0.06	0.43	0.47
2013-05-21 14:42:02	0.02	0.09	0.25
2013-05-21 14:52:02	0.03	0.09	0.16
2013-05-21 15:02:03	0.05	0.05	0.09
2013-05-21 15:12:02	0.05	0.03	0.06
2013-05-21 15:22:02	0.10	0.09	0.06
2013-05-21 15:32:02	0.11	0.12	0.09
2013-05-21 15:42:03	0.00	0.02	0.05
2013-05-21 15:52:02	0.01	0.05	0.04
2013-05-21 16:02:02	0.17	0.10	0.05
2013-05-21 16:12:02	0.12	0.14	0.09

2013-05-21 16:22:03	0.31	0.13	0.10
2013-05-21 16:32:02	0.13	0.08	0.08
2013-05-21 16:42:02	0.10	0.09	0.08
2013-05-21 16:52:02	0.10	0.14	0.13
2013-05-21 17:02:03	0.09	0.06	0.08
2013-05-21 17:12:02	0.20	0.09	0.07
2013-05-21 17:22:02	0.15	0.09	0.06
2013-05-21 17:32:02	0.04	0.06	0.04
2013-05-21 17:42:02	0.00	0.03	0.02
2013-05-21 17:52:02	0.05	0.06	0.02
2013-05-21 18:02:02	1.03	0.54	0.20
2013-05-21 18:12:02	2.01	1.81	1.04
2013-05-21 18:22:02	1.12	1.27	1.11
2013-05-21 18:32:02	1.02	1.08	1.08
2013-05-21 18:42:02	1.03	1.06	1.07
2013-05-21 18:52:02	1.17	1.14	1.10

2013-05-21 19:02:02	1.00	1.03	1.05
2013-05-21 19:12:03	0.95	1.05	1.06
2013-05-21 19:22:02	0.00	0.23	0.63
2013-05-21 19:32:02	0.00	0.05	0.33
2013-05-21 19:42:03	0.17	0.08	0.19
2013-05-21 19:52:02	0.03	0.06	0.11
2013-05-21 20:02:02	0.35	0.14	0.10
2013-05-21 20:12:02	0.05	0.07	0.07
2013-05-21 20:22:02	0.01	0.03	0.03
2013-05-21 20:32:02	0.01	0.03	0.00
2013-05-21 20:42:02	0.06	0.02	0.00
2013-05-21 20:52:02	0.33	0.08	0.02
2013-05-21 21:02:02	0.14	0.11	0.03
2013-05-21 21:12:02	0.06	0.06	0.01
2013-05-21 21:22:02	1.39	1.18	0.54
2013-05-21 21:32:03	0.15	0.57	0.56

2013-05-21 21:42:02	0.05	0.12	0.31
2013-05-21 21:52:02	0.16	0.11	0.19
2013-05-21 22:02:02	0.15	0.13	0.16
2013-05-21 22:12:02	0.08	0.13	0.13
2013-05-21 22:22:02	0.11	0.10	0.09
2013-05-21 22:32:02	0.03	0.09	0.08
2013-05-21 22:42:02	0.02	0.04	0.06
2013-05-21 22:52:02	0.05	0.05	0.04
2013-05-21 23:02:02	0.16	0.12	0.07
2013-05-21 23:12:03	0.00	0.03	0.04
2013-05-21 23:22:02	0.08	0.04	0.02
2013-05-21 23:32:02	0.03	0.03	0.00
2013-05-21 23:42:02	0.28	0.13	0.04
2013-05-21 23:52:02	0.10	0.11	0.06
2013-05-22 00:00:02	0.02	0.04	0.03

OS CPU Info

Snap Time	user	system	idle	iowait
2013-05-21 14:12:02	1.00	0.00	99.00	0.00
2013-05-21 14:22:02	7.00	1.00	93.00	0.00
2013-05-21 14:32:02	1.00	0.00	99.00	0.00
2013-05-21 14:42:02	1.00	0.00	99.00	0.00
2013-05-21 14:52:02	1.00	0.00	98.00	0.00
2013-05-21 15:02:03	1.00	0.00	98.00	0.00
2013-05-21 15:12:02	1.00	0.00	99.00	0.00
2013-05-21 15:22:02	1.00	0.00	99.00	0.00
2013-05-21 15:32:02	1.00	0.00	99.00	0.00
2013-05-21 15:42:03	1.00	0.00	99.00	0.00
2013-05-21 15:52:02	1.00	0.00	99.00	0.00
2013-05-21 16:02:02	1.00	0.00	99.00	0.00
2013-05-21 16:12:02	1.00	0.00	98.00	0.00



myawr introduction

2013-05-21 16:22:03	1.00	0.00	99.00	0.00
2013-05-21 16:32:02	1.00	0.00	99.00	0.00
2013-05-21 16:42:02	1.00	0.00	98.00	0.00
2013-05-21 16:52:02	1.00	0.00	99.00	0.00
2013-05-21 17:02:03	1.00	0.00	99.00	0.00
2013-05-21 17:12:02	1.00	0.00	99.00	0.00
2013-05-21 17:22:02	1.00	0.00	99.00	0.00
2013-05-21 17:32:02	1.00	0.00	99.00	0.00
2013-05-21 17:42:02	1.00	0.00	99.00	0.00
2013-05-21 17:52:02	1.00	0.00	99.00	0.00
2013-05-21 18:02:02	2.00	3.00	95.00	0.00
2013-05-21 18:12:02	6.00	3.00	91.00	0.00
2013-05-21 18:22:02	2.00	3.00	95.00	0.00
2013-05-21 18:32:02	2.00	2.00	95.00	0.00
2013-05-21 18:42:02	2.00	3.00	95.00	0.00
2013-05-21 18:52:02	3.00	3.00	94.00	0.00

2013-05-21 19:02:02	3.00	3.00	94.00	0.00
2013-05-21 19:12:03	2.00	3.00	95.00	0.00
2013-05-21 19:22:02	1.00	0.00	99.00	0.00
2013-05-21 19:32:02	1.00	0.00	99.00	0.00
2013-05-21 19:42:03	1.00	0.00	99.00	0.00
2013-05-21 19:52:02	1.00	0.00	99.00	0.00
2013-05-21 20:02:02	1.00	0.00	99.00	0.00
2013-05-21 20:12:02	1.00	0.00	99.00	0.00
2013-05-21 20:22:02	1.00	0.00	99.00	0.00
2013-05-21 20:32:02	1.00	0.00	99.00	0.00
2013-05-21 20:42:02	1.00	0.00	99.00	0.00
2013-05-21 20:52:02	1.00	0.00	99.00	0.00
2013-05-21 21:02:02	1.00	0.00	99.00	0.00
2013-05-21 21:12:02	1.00	0.00	99.00	0.00
2013-05-21 21:22:02	4.00	0.00	95.00	0.00
2013-05-21 21:32:03	1.00	0.00	99.00	0.00



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2013-05-21 21:42:02	1.00	0.00	99.00	0.00
2013-05-21 21:52:02	1.00	0.00	99.00	0.00
2013-05-21 22:02:02	1.00	0.00	99.00	0.00
2013-05-21 22:12:02	1.00	0.00	99.00	0.00
2013-05-21 22:22:02	4.00	0.00	96.00	0.00
2013-05-21 22:32:02	0.00	0.00	99.00	0.00
2013-05-21 22:42:02	1.00	0.00	99.00	0.00
2013-05-21 22:52:02	4.00	0.00	96.00	0.00
2013-05-21 23:02:02	1.00	0.00	99.00	0.00
2013-05-21 23:12:03	1.00	0.00	99.00	0.00
2013-05-21 23:22:02	1.00	0.00	99.00	0.00
2013-05-21 23:32:02	1.00	0.00	99.00	0.00
2013-05-21 23:42:02	0.00	0.00	99.00	0.00
2013-05-21 23:52:02	1.00	0.00	99.00	0.00
2013-05-22 00:00:02	1.00	0.00	99.00	0.00

OS IO Info

Snap Time	rd_ios_s	wr_ios_s	rkbs	wkbs	queue	svc_t	busy
2013-05-21 14:12:02	0.00	10.79	0.00	758.94	0.00	0.17	0.18
2013-05-21 14:22:02	8.01	13.01	896.75	1092.91	0.02	0.95	2.00
2013-05-21 14:32:02	0.00	21.34	0.00	1135.44	0.01	0.15	0.32
2013-05-21 14:42:02	0.00	13.07	0.00	699.79	0.00	0.08	0.10
2013-05-21 14:52:02	0.00	30.00	0.00	1008.75	0.00	0.06	0.19
2013-05-21 15:02:03	0.00	16.64	0.00	1201.31	0.00	0.16	0.26
2013-05-21 15:12:02	0.00	21.50	0.00	827.77	0.00	0.04	0.09
2013-05-21 15:22:02	0.00	16.39	0.00	952.29	0.00	0.18	0.29
2013-05-21 15:32:02	0.00	15.80	0.00	709.87	0.00	0.24	0.37
2013-05-21 15:42:03	0.00	17.94	0.00	1012.12	0.01	0.16	0.28
2013-05-21 15:52:02	0.00	24.48	0.00	1317.81	0.01	0.12	0.31
2013-05-21 16:02:02	0.00	29.18	0.00	1068.69	0.00	0.06	0.18
2013-05-21 16:12:02	0.00	27.66	0.00	1453.09	0.01	0.17	0.46



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2013-05-21 16:22:03	0.00	26.09	0.00	898.30	0.01	0.09	0.23
2013-05-21 16:32:02	0.00	25.17	0.00	944.90	0.00	0.12	0.29
2013-05-21 16:42:02	0.00	25.67	0.00	1100.90	0.00	0.08	0.21
2013-05-21 16:52:02	0.00	28.24	0.00	952.47	0.00	0.03	0.09
2013-05-21 17:02:03	0.00	25.24	0.00	1060.12	0.01	0.38	0.95
2013-05-21 17:12:02	0.97	12.58	3.87	789.68	0.01	0.71	0.97
2013-05-21 17:22:02	0.00	28.08	0.00	1460.18	0.01	0.16	0.44
2013-05-21 17:32:02	0.00	21.69	0.00	860.56	0.00	0.04	0.09
2013-05-21 17:42:02	0.00	12.08	0.00	929.81	0.00	0.08	0.10
2013-05-21 17:52:02	0.00	42.77	0.00	1078.16	0.01	0.12	0.50
2013-05-21 18:02:02	0.00	31.88	0.00	791.25	0.00	0.06	0.19
2013-05-21 18:12:02	0.00	36.65	0.00	669.07	0.00	0.08	0.28
2013-05-21 18:22:02	0.00	24.41	0.00	713.62	0.00	0.12	0.28
2013-05-21 18:32:02	0.00	36.65	0.00	1369.39	0.00	0.07	0.27
2013-05-21 18:42:02	0.00	53.48	0.00	1568.73	0.01	0.09	0.47
2013-05-21 18:52:02	0.00	30.54	0.00	1166.83	0.01	0.10	0.32



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2013-05-21 19:02:02	0.00	29.99	0.00	711.70	0.00	0.07	0.20
2013-05-21 19:12:03	0.00	39.72	0.00	835.10	0.02	0.05	0.18
2013-05-21 19:22:02	0.00	15.35	0.00	818.76	0.00	0.07	0.10
2013-05-21 19:32:02	0.00	12.40	0.00	694.16	0.00	0.15	0.19
2013-05-21 19:42:03	0.00	12.12	0.00	758.13	0.00	0.27	0.33
2013-05-21 19:52:02	0.00	22.42	0.00	1588.17	0.00	0.12	0.28
2013-05-21 20:02:02	0.00	24.78	0.00	800.99	0.00	0.08	0.20
2013-05-21 20:12:02	0.00	8.87	0.00	692.05	0.00	0.10	0.09
2013-05-21 20:22:02	0.00	11.81	0.00	687.25	0.00	0.00	0.00
2013-05-21 20:32:02	0.00	13.93	0.00	679.25	0.00	0.06	0.09
2013-05-21 20:42:02	0.00	11.18	0.00	708.35	0.00	0.08	0.09
2013-05-21 20:52:02	0.00	11.56	0.00	704.98	0.00	0.08	0.10
2013-05-21 21:02:02	0.00	25.96	0.00	797.22	0.00	0.04	0.09
2013-05-21 21:12:02	0.00	33.67	0.00	1442.30	0.00	0.08	0.27
2013-05-21 21:22:02	0.00	22.88	0.00	724.67	0.00	0.17	0.38
2013-05-21 21:32:03	0.00	24.50	0.00	840.52	0.00	0.04	0.09



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2013-05-21 21:42:02	0.00	9.62	0.00	708.26	0.00	0.00	0.00
2013-05-21 21:52:02	0.00	12.12	0.00	1006.60	0.00	0.15	0.19
2013-05-21 22:02:02	0.00	14.12	0.00	988.72	0.00	0.08	0.12
2013-05-21 22:12:02	0.00	12.41	0.00	794.48	0.01	0.25	0.31
2013-05-21 22:22:02	0.00	13.33	0.00	693.33	0.00	0.13	0.18
2013-05-21 22:32:02	0.00	25.12	0.00	1142.22	0.00	0.07	0.17
2013-05-21 22:42:02	0.00	22.32	0.00	684.50	0.00	0.05	0.11
2013-05-21 22:52:02	0.00	10.28	0.00	706.27	0.00	0.18	0.19
2013-05-21 23:02:02	0.00	17.73	0.00	617.07	0.00	0.10	0.18
2013-05-21 23:12:03	0.00	16.07	0.00	1072.92	0.00	0.00	0.00
2013-05-21 23:22:02	0.00	18.52	0.00	802.40	0.00	0.11	0.21
2013-05-21 23:32:02	0.00	18.64	0.00	1168.41	0.01	0.17	0.31
2013-05-21 23:42:02	0.00	22.02	0.00	660.55	0.00	0.08	0.18
2013-05-21 23:52:02	0.00	26.91	0.00	1877.74	0.01	0.15	0.40
2013-05-22 00:00:02	0.00	56.86	0.00	1250.84	0.01	0.12	0.66

OS Other Info

Snap Time	swap_in	swap_out	net_recv	net_send	file_system	total_mb	used_mb	used_pct	mount_point
2013-05-21 14:12:02	0.00	0.00	676864.00	2111744.00	/dev/sdb1	1967606.00	1621472.00	87.00	/data
2013-05-21 14:22:02	0.00	0.00	2247584.00	5089303.00	/dev/sdb1	1967606.00	1621705.00	87.00	/data
2013-05-21 14:32:02	0.00	0.00	1494519.00	5022274.00	/dev/sdb1	1967606.00	1621941.00	87.00	/data
2013-05-21 14:42:02	0.00	0.00	445235.00	399025.00	/dev/sdb1	1967606.00	1622174.00	87.00	/data
2013-05-21 14:52:02	0.00	0.00	869100.00	1750227.00	/dev/sdb1	1967606.00	1622424.00	87.00	/data
2013-05-21 15:02:03	0.00	0.00	1028981.00	3944281.00	/dev/sdb1	1967606.00	1622659.00	87.00	/data
2013-05-21 15:12:02	0.00	0.00	707387.00	748465.00	/dev/sdb1	1967606.00	1622892.00	87.00	/data
2013-05-21 15:22:02	8.00	0.00	678920.00	622935.00	/dev/sdb1	1967606.00	1623142.00	87.00	/data
2013-05-21 15:32:02	0.00	0.00	506476.00	459623.00	/dev/sdb1	1967606.00	1623375.00	87.00	/data
2013-05-21 15:42:03	0.00	0.00	527133.00	565192.00	/dev/sdb1	1967606.00	1623609.00	87.00	/data
2013-05-21 15:52:02	0.00	0.00	678439.00	624455.00	/dev/sdb1	1967606.00	1623861.00	87.00	/data
2013-05-21 16:02:02	2.00	0.00	725471.00	1549546.00	/dev/sdb1	1967606.00	1624121.00	87.00	/data
2013-05-21 16:12:02	0.00	0.00	1075014.00	3930267.00	/dev/sdb1	1967606.00	1624369.00	87.00	/data



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2013-05-21 16:22:03	0.00	0.00	857507.00	2321507.00	/dev/sdb1	1967606.00	1624622.00	87.00	/data
2013-05-21 16:32:02	0.00	0.00	679753.00	628464.00	/dev/sdb1	1967606.00	1624868.00	88.00	/data
2013-05-21 16:42:02	0.00	0.00	812187.00	1416445.00	/dev/sdb1	1967606.00	1625115.00	88.00	/data
2013-05-21 16:52:02	5.00	0.00	559153.00	511832.00	/dev/sdb1	1967606.00	1625359.00	88.00	/data
2013-05-21 17:02:03	0.00	0.00	601014.00	550670.00	/dev/sdb1	1967606.00	1625588.00	88.00	/data
2013-05-21 17:12:02	0.00	0.00	569139.00	709423.00	/dev/sdb1	1967606.00	1625824.00	88.00	/data
2013-05-21 17:22:02	0.00	0.00	612136.00	561918.00	/dev/sdb1	1967606.00	1626066.00	88.00	/data
2013-05-21 17:32:02	0.00	0.00	722392.00	719460.00	/dev/sdb1	1967606.00	1626321.00	88.00	/data
2013-05-21 17:42:02	0.00	0.00	775741.00	2252267.00	/dev/sdb1	1967606.00	1626548.00	88.00	/data
2013-05-21 17:52:02	0.00	0.00	1008192.00	3360773.00	/dev/sdb1	1967606.00	1626777.00	88.00	/data
2013-05-21 18:02:02	0.00	0.00	514139.00	477544.00	/dev/sdb1	1967606.00	1626999.00	88.00	/data
2013-05-21 18:12:02	0.00	0.00	384897.00	356495.00	/dev/sdb1	1967606.00	1627220.00	88.00	/data
2013-05-21 18:22:02	0.00	0.00	504705.00	466993.00	/dev/sdb1	1967606.00	1627419.00	88.00	/data
2013-05-21 18:32:02	0.00	0.00	446308.00	411714.00	/dev/sdb1	1967606.00	1627619.00	88.00	/data
2013-05-21 18:42:02	0.00	0.00	525266.00	488981.00	/dev/sdb1	1967606.00	1627823.00	88.00	/data
2013-05-21 18:52:02	0.00	0.00	636915.00	596432.00	/dev/sdb1	1967606.00	1628053.00	88.00	/data



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2013-05-21 19:02:02	0.00	1.00	597816.00	2079870.00	/dev/sdb1	1967606.00	1628255.00	88.00	/data
2013-05-21 19:12:03	0.00	0.00	544558.00	510752.00	/dev/sdb1	1967606.00	1628478.00	88.00	/data
2013-05-21 19:22:02	0.00	0.00	441585.00	398257.00	/dev/sdb1	1967606.00	1628687.00	88.00	/data
2013-05-21 19:32:02	0.00	0.00	416017.00	369934.00	/dev/sdb1	1967606.00	1628878.00	88.00	/data
2013-05-21 19:42:03	0.00	0.00	413446.00	378489.00	/dev/sdb1	1967606.00	1629081.00	88.00	/data
2013-05-21 19:52:02	0.00	0.00	658825.00	665914.00	/dev/sdb1	1967606.00	1629289.00	88.00	/data
2013-05-21 20:02:02	0.00	0.00	618088.00	1368997.00	/dev/sdb1	1967606.00	1629505.00	88.00	/data
2013-05-21 20:12:02	0.00	0.00	494640.00	449590.00	/dev/sdb1	1967606.00	1629701.00	88.00	/data
2013-05-21 20:22:02	0.00	0.00	434987.00	401775.00	/dev/sdb1	1967606.00	1629902.00	88.00	/data
2013-05-21 20:32:02	0.00	0.00	719177.00	2208004.00	/dev/sdb1	1967606.00	1630079.00	88.00	/data
2013-05-21 20:42:02	0.00	0.00	544593.00	494996.00	/dev/sdb1	1967606.00	1630267.00	88.00	/data
2013-05-21 20:52:02	0.00	0.00	627816.00	940006.00	/dev/sdb1	1967606.00	1630488.00	88.00	/data
2013-05-21 21:02:02	0.00	0.00	410082.00	370759.00	/dev/sdb1	1967606.00	1630663.00	88.00	/data
2013-05-21 21:12:02	0.00	0.00	487333.00	444037.00	/dev/sdb1	1967606.00	1630856.00	88.00	/data
2013-05-21 21:22:02	0.00	0.00	425702.00	400337.00	/dev/sdb1	1967606.00	1631065.00	88.00	/data
2013-05-21 21:32:03	0.00	0.00	597705.00	541170.00	/dev/sdb1	1967606.00	1631253.00	88.00	/data



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2013-05-21 21:42:02	0.00	0.00	484211.00	440031.00	/dev/sdb1	1967606.00	1631449.00	88.00	/data
2013-05-21 21:52:02	0.00	0.00	651420.00	682513.00	/dev/sdb1	1967606.00	1631696.00	88.00	/data
2013-05-21 22:02:02	0.00	0.00	531016.00	481571.00	/dev/sdb1	1967606.00	1631895.00	88.00	/data
2013-05-21 22:12:02	0.00	0.00	406891.00	364716.00	/dev/sdb1	1967606.00	1632103.00	88.00	/data
2013-05-21 22:22:02	0.00	0.00	379475.00	412177.00	/dev/sdb1	1967606.00	1632302.00	88.00	/data
2013-05-21 22:32:02	0.00	0.00	454113.00	410740.00	/dev/sdb1	1967606.00	1632500.00	88.00	/data
2013-05-21 22:42:02	0.00	0.00	461560.00	788269.00	/dev/sdb1	1967606.00	1632689.00	88.00	/data
2013-05-21 22:52:02	0.00	1.00	630641.00	660117.00	/dev/sdb1	1967606.00	1632903.00	88.00	/data
2013-05-21 23:02:02	0.00	0.00	460634.00	418825.00	/dev/sdb1	1967606.00	1633089.00	88.00	/data
2013-05-21 23:12:03	0.00	0.00	1015481.00	4152029.00	/dev/sdb1	1967606.00	1633301.00	88.00	/data
2013-05-21 23:22:02	0.00	0.00	432938.00	391443.00	/dev/sdb1	1967606.00	1633499.00	88.00	/data
2013-05-21 23:32:02	0.00	0.00	624282.00	575975.00	/dev/sdb1	1967606.00	1633683.00	88.00	/data
2013-05-21 23:42:02	0.00	0.00	408901.00	372704.00	/dev/sdb1	1967606.00	1633909.00	88.00	/data
2013-05-21 23:52:02	0.00	0.00	616048.00	625541.00	/dev/sdb1	1967606.00	1634151.00	88.00	/data
2013-05-22 00:00:02	4.00	0.00	417361.00	381697.00	/dev/sdb1	1967606.00	1634326.00	88.00	/data

TOP 20 SQL

checksum	db name	ts_min	ts_max	ts_c nt	Query_time_ sum	Query_time_pc t_95	Lock_time_ sum	Lock_time_pc t_95	Rows_sent_ sum	Rows_sent_pc t_95	sample
175180854702907 54732	test	2013-05-21 09:32:56	2013-05-21 19:14:40	31705	11346.3	0.526151	6573.05	0.35612	0	0	update xxxx_test ...
878323190489624 5142	test	2013-05-08 08:55:12	2013-05-21 21:27:49	894	5128.98	6.98463	0.044442	0.0000632544	894	1	SELECT count(id) as ...
336017598366088 7134	test	2013-05-08 08:54:54	2013-05-21 21:27:23	151	1861.87	15.2466	0.007739	0.0000697379	151	1	SELECT count(id) as ...
133096531796313 20993	test	2013-05-21 21:48:26	2013-05-23 23:15:39	293	265.682	0.992137	0.031267	0.000119276	145903	487.094	SELECT b.id, b...
145654640257172	test	2013-05-	2013-05-	20	239.178	16.8094	0.00456	0.000316473	0	0	INSERT INTO



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98162		2121								AAAA_A...
		01:48:45	21:48:35							
133129955690393		2013-05-	2013-05-	3211						select
81386	test	2121		65.3112	0.000204002	19.4566	0.0000807304	321166	1	last_insert_i..
		00:03:31	23:59:56	66						.
103545740566486		2013-05-	2013-05-							SELECT ID,
09809	test	2121	1	41.0879	41.0879	0.00011	0.00011	20	20	MI...
		18:19:21	18:19:21							
497734220985120		2013-05-	2013-05-							select * from
500	test	2121	1913	17.1919	0.0416167	0.202465	0.000131501	18598	9.82808	(s...
		00:05:20	23:51:39							
963783068970645		2013-05-	2013-05-							SELECT b.id,
8981	test	2122	76	8.10788	0.140929	0.008022	0.000119276	38000	500	b...
		23:39:24	00:01:16							
141261618006005		2013-05-	2013-05-							Update test.
46731	test	2121	1	4.76375	4.76375	0.000105	0.000105	0	0	bat...
		21:47:48	21:47:48							



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174712703981244 73757	test	2013-05-21 23:39:04	2013-05-21 23:39:04	1	2.35301	2.35301	0.000077	0.000077	0	0	Update test.exce...
168324708332283 84350	test	2013-05-10 10:09:00	2013-05-18 18:27:46	25	2.11104	0.134218	0.005074	0.000214202	154	7.70056	select t.operator_i.. .
131917487054075 57481	test	2013-05-09 09:54:07	2013-05-21 21:21:21	51	1.18354	0.0243324	0.01047	0.0000697379	7	0.992137	select t.ID,...
126705722903004 57907	test	2013-05-01 01:48:53	2013-05-23 23:49:09	195	0.907769	0.00486338	0.015995	0.0000934555	161	0.992137	select * from liv...
730772576490268 1358	test	2013-05-09 09:55:48	2013-05-21 21:21:21	41	0.888554	0.0231737	0.002063	0.0000664171	7	0.992137	select t.ID,...
441461047919072 052	test	2013-05-21 21:21:21	2013-05-21 21:21:21	32	0.707033	0.0231737	0.001794	0.0000632544	7	0.992137	select t.ID,...



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		09:55:15	21:21:21								
595949646946529 0778	test	2013-05-21 00:16:17	2013-05-21 23:58:42	2453	0.627288	0.000273382	0.151339	0.0000768861	2298	0.992137	SELECT id,t.hits FRO...
784003635829748 5213	information_sch ema	2013-05-21 14:12:02	2013-05-21 00:01:02	590	0.385329	0.000799713	0.033036	0.0000632544	131570	223	select * from perfor...
166759223910261 7093	test	2013-05-21 09:39:35	2013-05-21 17:58:50	13	0.306861	0.0481765	0.000869	0.0000732248	13	1	SELECT MIN(PUBLISH_ T...
458870709824252 2987	information_sch ema	2013-05-21 14:12:02	2013-05-21 00:01:02	590	0.29407	0.000568341	0.054093	0.000113596	590	1	select VARIABLE_VAL U...

TOP SQL DETAIL

checksum	sql detail
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17518085470290754732	update test set plag = 2, uptime = now(), opid = 1 where ordid = 116459410
8783231904896245142	SELECT count(id) as count FROM zzz_log where code='200001' and ccdoe='100001'
3360175983660887134	SELECT count(id) as count FROM zzzz where code='200001'
4588707098242522987	select VARIABLE_VALUE from information_schema.GLOBAL_VARIABLES where VARIABLE_NAME='PERFORMANCE_SCHEMA'
.....more.....more.....

-----**The End**-----

For detail report ,pls click [myawr.html](#).

6. Contact me

Any questions,pls contact me freely.

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