

How to Configure MySQL TCPDUMP

1.Percona-Toolkit (pt-query-digest will be used to analyze network packages)

2.I wrote a bash shell script to analyze all network packages.

```
#cat /usr/local/dbadmin/monitor/tcpdump.sh
#!/bin/sh
#*****#
# ScriptName: test1.sh
# Create Date: 2014-11-03 15:13
# Modify Date: 2014-11-03 15:13
#*****#
source="/usr/bin/mysql -h 10.128.6.21 -uxxxxxx -pxxxxxxx -P 3310";
host=`cat /etc/sysconfig/network-scripts/ifcfg-bond0 |grep "IPADDR"|awk -F=" '{print $2}'`;
hostid=`$source -e "select id from dbinfo.hosts where ip='$host'"|sed -n -e '2p';
for port in `ls -ltr /etc/my33*cnf | awk -F/etc '{print $2}' | awk -F"/my" '{print $2}' | awk -F".cnf" '{print $1}'`;
do
vip=`$source -e "select vip from dbinfo.rip2vip where hostid=$hostid and port=$port"|sed -n -e '2p'`
/usr/sbin/tcpdump -s 65535 -x -nn -q -ttt -i any -c 10000 port $port | pt-query-digest --type tcpdump --watch-server "$vip:$port" --run-time 20s --user=dbmon -P 3310 --password=xxxxx --review h=10.128.6.228,D=dbmon,t=tcp_dump_review --history h=10.128.6.228,D=dbmon,t=tcp_dump_review_history --no-report --limit=100% --filter="\$event->{add_column} = length(\$event->{arg}) and \$event->{dbport}=$port and \$event->{hostid}=$hostid and \$event->{Bytes} = length(\$event->{arg}) and \$event->{hostname}=\`$HOSTNAME\`"
rm -rf /tmp/pt-query-digest-errors.*
done
```

We use DBMON database to store all data.Two tables in DBMON database:

```
tcp_dump_review
tcp_dump_review_history
```

```

CREATE TABLE `tcp_dump_review` (
  `checksum` BIGINT (20) UNSIGNED NOT NULL,
  `fingerprint` TEXT NOT NULL,
  `sample` TEXT NOT NULL,
  `first_seen` TIMESTAMP NOT NULL DEFAULT '0000-00-00 00:00:00',
  `last_seen` TIMESTAMP NOT NULL DEFAULT '0000-00-00 00:00:00',
  `reviewed_by` VARCHAR (20) DEFAULT NULL,
  `reviewed_on` DATETIME DEFAULT NULL,
  `comments` TEXT,
  PRIMARY KEY (`checksum`, `first_seen`)
) ENGINE = INNODB DEFAULT CHARSET = utf8 /*!50100 PARTITION BY RANGE
( UNIX_TIMESTAMP(first_seen))
(PARTITION p201401 VALUES LESS THAN (1391184000) ENGINE = InnoDB,
PARTITION p201402 VALUES LESS THAN (1393603200) ENGINE = InnoDB,
PARTITION p201403 VALUES LESS THAN (1396281600) ENGINE = InnoDB,
PARTITION p201404 VALUES LESS THAN (1398873600) ENGINE = InnoDB,
PARTITION p201405 VALUES LESS THAN (1401552000) ENGINE = InnoDB,
PARTITION p201406 VALUES LESS THAN (1404144000) ENGINE = InnoDB,
PARTITION p201407 VALUES LESS THAN (1406822400) ENGINE = InnoDB,
PARTITION p201408 VALUES LESS THAN (1409500800) ENGINE = InnoDB,
PARTITION p201409 VALUES LESS THAN (1412092800) ENGINE = InnoDB,
PARTITION p201410 VALUES LESS THAN (1414771200) ENGINE = InnoDB,
PARTITION p201411 VALUES LESS THAN (1417363200) ENGINE = InnoDB,
PARTITION p201412 VALUES LESS THAN (1420041600) ENGINE = InnoDB,
PARTITION p201501 VALUES LESS THAN (1422720000) ENGINE = InnoDB,
PARTITION p201502 VALUES LESS THAN (1425139200) ENGINE = InnoDB,
PARTITION p201503 VALUES LESS THAN (1427817600) ENGINE = InnoDB,
PARTITION p201504 VALUES LESS THAN (1430409600) ENGINE = InnoDB,
PARTITION p201505 VALUES LESS THAN (1433088000) ENGINE = InnoDB,
PARTITION p201506 VALUES LESS THAN (1435680000) ENGINE = InnoDB,
PARTITION p201507 VALUES LESS THAN (1438358400) ENGINE = InnoDB,
PARTITION p201508 VALUES LESS THAN (1441036800) ENGINE = InnoDB,
PARTITION p201509 VALUES LESS THAN (1443628800) ENGINE = InnoDB,
PARTITION p201510 VALUES LESS THAN (1446307200) ENGINE = InnoDB,
PARTITION p201511 VALUES LESS THAN (1448899200) ENGINE = InnoDB,
PARTITION p201512 VALUES LESS THAN (1451577600) ENGINE = InnoDB,
PARTITION p201601 VALUES LESS THAN (1454256000) ENGINE = InnoDB,
PARTITION p201602 VALUES LESS THAN (1456761600) ENGINE = InnoDB,
PARTITION p201603 VALUES LESS THAN (1459440000) ENGINE = InnoDB,
PARTITION p201604 VALUES LESS THAN (1462032000) ENGINE = InnoDB,
PARTITION p201605 VALUES LESS THAN (1464710400) ENGINE = InnoDB,
PARTITION p201606 VALUES LESS THAN (1467302400) ENGINE = InnoDB,
PARTITION p201607 VALUES LESS THAN (1469980800) ENGINE = InnoDB,
PARTITION p201608 VALUES LESS THAN (1472659200) ENGINE = InnoDB,

```

```
PARTITION p201609 VALUES LESS THAN (1475251200) ENGINE = InnoDB,  
PARTITION p201610 VALUES LESS THAN (1477929600) ENGINE = InnoDB,  
PARTITION p201611 VALUES LESS THAN (1480521600) ENGINE = InnoDB,  
PARTITION p201612 VALUES LESS THAN (1483200000) ENGINE = InnoDB) */
```

```
CREATE TABLE `tcp_dump_review_history` (  
  `hostname_max` VARCHAR (64) DEFAULT NULL,  
  `dbport_max` BIGINT (20) DEFAULT NULL,  
  `hostid_max` BIGINT (20) DEFAULT NULL,  
  `checksum` BIGINT (20) UNSIGNED NOT NULL,  
  `sample` TEXT NOT NULL,  
  `ts_min` TIMESTAMP NOT NULL DEFAULT '0000-00-00 00:00:00',  
  `ts_max` TIMESTAMP NOT NULL DEFAULT '0000-00-00 00:00:00',  
  `ts_cnt` FLOAT DEFAULT NULL,  
  `Query_time_sum` FLOAT DEFAULT NULL,  
  `Query_time_min` FLOAT DEFAULT NULL,  
  `Query_time_max` FLOAT DEFAULT NULL,  
  `Query_time_pct_95` FLOAT DEFAULT NULL,  
  `Query_time_stddev` FLOAT DEFAULT NULL,  
  `Query_time_median` FLOAT DEFAULT NULL,  
  `Lock_time_sum` FLOAT DEFAULT NULL,  
  `Lock_time_min` FLOAT DEFAULT NULL,  
  `Lock_time_max` FLOAT DEFAULT NULL,  
  `Lock_time_pct_95` FLOAT DEFAULT NULL,  
  `Lock_time_stddev` FLOAT DEFAULT NULL,  
  `Lock_time_median` FLOAT DEFAULT NULL,  
  `Rows_sent_sum` FLOAT DEFAULT NULL,  
  `Rows_sent_min` FLOAT DEFAULT NULL,  
  `Rows_sent_max` FLOAT DEFAULT NULL,  
  `Rows_sent_pct_95` FLOAT DEFAULT NULL,  
  `Rows_sent_stddev` FLOAT DEFAULT NULL,  
  `Rows_sent_median` FLOAT DEFAULT NULL,  
  `Rows_examined_sum` FLOAT DEFAULT NULL,  
  `Rows_examined_min` FLOAT DEFAULT NULL,  
  `Rows_examined_max` FLOAT DEFAULT NULL,  
  `Rows_examined_pct_95` FLOAT DEFAULT NULL,  
  `Rows_examined_stddev` FLOAT DEFAULT NULL,  
  `Rows_examined_median` FLOAT DEFAULT NULL,  
  `Rows_affected_sum` FLOAT DEFAULT NULL,  
  `Rows_affected_min` FLOAT DEFAULT NULL,  
  `Rows_affected_max` FLOAT DEFAULT NULL,  
  `Rows_affected_pct_95` FLOAT DEFAULT NULL,
```

`Rows_affected_stddev` FLOAT DEFAULT NULL,
`Rows_affected_median` FLOAT DEFAULT NULL,
`Rows_read_sum` FLOAT DEFAULT NULL,
`Rows_read_min` FLOAT DEFAULT NULL,
`Rows_read_max` FLOAT DEFAULT NULL,
`Rows_read_pct_95` FLOAT DEFAULT NULL,
`Rows_read_stddev` FLOAT DEFAULT NULL,
`Rows_read_median` FLOAT DEFAULT NULL,
`Merge_passes_sum` FLOAT DEFAULT NULL,
`Merge_passes_min` FLOAT DEFAULT NULL,
`Merge_passes_max` FLOAT DEFAULT NULL,
`Merge_passes_pct_95` FLOAT DEFAULT NULL,
`Merge_passes_stddev` FLOAT DEFAULT NULL,
`Merge_passes_median` FLOAT DEFAULT NULL,
`InnoDB_IO_r_ops_min` FLOAT DEFAULT NULL,
`InnoDB_IO_r_ops_max` FLOAT DEFAULT NULL,
`InnoDB_IO_r_ops_pct_95` FLOAT DEFAULT NULL,
`InnoDB_IO_r_ops_stddev` FLOAT DEFAULT NULL,
`InnoDB_IO_r_ops_median` FLOAT DEFAULT NULL,
`InnoDB_IO_r_bytes_min` FLOAT DEFAULT NULL,
`InnoDB_IO_r_bytes_max` FLOAT DEFAULT NULL,
`InnoDB_IO_r_bytes_pct_95` FLOAT DEFAULT NULL,
`InnoDB_IO_r_bytes_stddev` FLOAT DEFAULT NULL,
`InnoDB_IO_r_bytes_median` FLOAT DEFAULT NULL,
`InnoDB_IO_r_wait_min` FLOAT DEFAULT NULL,
`InnoDB_IO_r_wait_max` FLOAT DEFAULT NULL,
`InnoDB_IO_r_wait_pct_95` FLOAT DEFAULT NULL,
`InnoDB_IO_r_wait_stddev` FLOAT DEFAULT NULL,
`InnoDB_IO_r_wait_median` FLOAT DEFAULT NULL,
`InnoDB_rec_lock_wait_min` FLOAT DEFAULT NULL,
`InnoDB_rec_lock_wait_max` FLOAT DEFAULT NULL,
`InnoDB_rec_lock_wait_pct_95` FLOAT DEFAULT NULL,
`InnoDB_rec_lock_wait_stddev` FLOAT DEFAULT NULL,
`InnoDB_rec_lock_wait_median` FLOAT DEFAULT NULL,
`InnoDB_queue_wait_min` FLOAT DEFAULT NULL,
`InnoDB_queue_wait_max` FLOAT DEFAULT NULL,
`InnoDB_queue_wait_pct_95` FLOAT DEFAULT NULL,
`InnoDB_queue_wait_stddev` FLOAT DEFAULT NULL,
`InnoDB_queue_wait_median` FLOAT DEFAULT NULL,
`InnoDB_pages_distinct_min` FLOAT DEFAULT NULL,
`InnoDB_pages_distinct_max` FLOAT DEFAULT NULL,
`InnoDB_pages_distinct_pct_95` FLOAT DEFAULT NULL,
`InnoDB_pages_distinct_stddev` FLOAT DEFAULT NULL,
`InnoDB_pages_distinct_median` FLOAT DEFAULT NULL,

```

`QC_Hit_cnt` FLOAT DEFAULT NULL,
`QC_Hit_sum` FLOAT DEFAULT NULL,
`Full_scan_cnt` FLOAT DEFAULT NULL,
`Full_scan_sum` FLOAT DEFAULT NULL,
`Full_join_cnt` FLOAT DEFAULT NULL,
`Full_join_sum` FLOAT DEFAULT NULL,
`Tmp_table_cnt` FLOAT DEFAULT NULL,
`Tmp_table_sum` FLOAT DEFAULT NULL,
`Tmp_table_on_disk_cnt` FLOAT DEFAULT NULL,
`Tmp_table_on_disk_sum` FLOAT DEFAULT NULL,
`Filesort_cnt` FLOAT DEFAULT NULL,
`Filesort_sum` FLOAT DEFAULT NULL,
`Filesort_on_disk_cnt` FLOAT DEFAULT NULL,
`Filesort_on_disk_sum` FLOAT DEFAULT NULL,
PRIMARY KEY (`checksum`, `ts_min`, `ts_max`),
KEY `idx_hostname` (`hostname_max`)
) ENGINE = INNODB DEFAULT CHARSET = utf8 /*!50100 PARTITION BY RANGE
( UNIX_TIMESTAMP(ts_min))
(PARTITION p201506 VALUES LESS THAN (1435680000) ENGINE = InnoDB,
PARTITION p201507 VALUES LESS THAN (1438358400) ENGINE = InnoDB,
PARTITION p201508 VALUES LESS THAN (1441036800) ENGINE = InnoDB,
PARTITION p201509 VALUES LESS THAN (1443628800) ENGINE = InnoDB,
PARTITION p201510 VALUES LESS THAN (1446307200) ENGINE = InnoDB,
PARTITION p201511 VALUES LESS THAN (1448899200) ENGINE = InnoDB,
PARTITION p201512 VALUES LESS THAN (1451577600) ENGINE = InnoDB,
PARTITION p201601 VALUES LESS THAN (1454256000) ENGINE = InnoDB,
PARTITION p201602 VALUES LESS THAN (1456761600) ENGINE = InnoDB,
PARTITION p201603 VALUES LESS THAN (1459440000) ENGINE = InnoDB,
PARTITION p201604 VALUES LESS THAN (1462032000) ENGINE = InnoDB,
PARTITION p201605 VALUES LESS THAN (1464710400) ENGINE = InnoDB,
PARTITION p201606 VALUES LESS THAN (1467302400) ENGINE = InnoDB,
PARTITION p201607 VALUES LESS THAN (1469980800) ENGINE = InnoDB,
PARTITION p201608 VALUES LESS THAN (1472659200) ENGINE = InnoDB,
PARTITION p201609 VALUES LESS THAN (1475251200) ENGINE = InnoDB,
PARTITION p201610 VALUES LESS THAN (1477929600) ENGINE = InnoDB,
PARTITION p201611 VALUES LESS THAN (1480521600) ENGINE = InnoDB,
PARTITION p201612 VALUES LESS THAN (1483200000) ENGINE = InnoDB) */

```

Sample Query :

自动完成: [Tab]-> 下一个标签, [Ctrl+Space]-> 列出所有标签, [Ctrl+Enter]-> 列出匹配标签

```
SELECT hostname_max,dbport_max,hostid_max,checksum, sample, ts_min, ts_max, ts_cnt, query_time_sum, query_time_min, query_time_max FROM dbmon.`tcp_dump_review_history` LIMIT 10
```

hostname_max	dbport_max	hostid_max	checksum	sample	ts_min	ts_max	ts_cnt	query_time_sum	query_time_min	query_time_max	
a1-dba-tech01.hz	3310	142804086876	142804086876	show create table `...`	46B	2015-06-26 13:52:13	2015-06-26 13:52:13	1	0.001031	0.001031	0.001031
a1-dba-key03a.hz	3306	1123374418421	1123374418421	UPDATE paycore_sett...	704B	2015-06-29 10:00:03	2015-06-29 10:00:03	1	0.000234	0.000234	0.000234
a1-dba-tech01.hz	3309	132021432045	132021432045	update items set la...	280B	2015-06-10 11:20:11	2015-06-10 11:20:11	1	0.000128	0.000128	0.000128
a1-dba-key03a.hz	3306	1196832459015	1196832459015	SELECT ...	398B	2015-06-02 17:00:13	2015-06-02 17:00:13	1	0.000144	0.000144	0.000144
a1-dba-key03a.hz	3306	1196832459015	1196832459015	SELECT ...	398B	2015-06-03 10:30:19	2015-06-03 10:30:19	1	0.000152	0.000152	0.000152
a1-dba-key03a.hz	3306	1196832459015	1196832459015	SELECT ...	398B	2015-06-04 12:50:15	2015-06-04 12:50:15	1	0.000147	0.000147	0.000147
a1-dba-key03a.hz	3306	1196832459015	1196832459015	SELECT ...	398B	2015-06-04 20:10:12	2015-06-04 20:10:12	1	0.000152	0.000152	0.000152
a1-dba-key03a.hz	3306	1196832459015	1196832459015	SELECT ...	398B	2015-06-05 10:10:09	2015-06-05 10:10:09	1	0.000135	0.000135	0.000135
a1-dba-key03a.hz	3306	1196832459015	1196832459015	SELECT ...	398B	2015-06-05 11:40:10	2015-06-05 11:40:10	1	0.000121	0.000121	0.000121
a1-dba-key03a.hz	3306	1196832459015	1196832459015	SELECT ...	398B	2015-06-05 12:00:12	2015-06-05 12:00:12	1	0.000143	0.000143	0.000143

3.Website show

<http://websql.pajkdc.com/webm/tcpdump/>

MySQL Tepadump Report

Tepadump Online SQL detail							
hostname	dbport	id	query_sql	exec_cnt	time_cnt	rows	first seen time
a1-dba-data01.hz	3307	3	select avatar from dc_info where user_id='2919230409' order by gmt_modify desc limit 1	2376.0	0.551924	0.0	2015-07-23 14:31:17
a1-dba-tech01.hz	3310	1	select item.id,item.app_id, item.plugin_name, item.item_name,item.item_filed,item.item_view, item.description,item.task_class_name, item.item_status,item.is_effective, item.effective_time,item.effective_interval, item.current_version, item.last_version,item.cron_expression,item.create_time, item.update_time,app.app_name,creator,last_modify_person from monitor_item item,monitor_application app where item.app_id=app.id and item.app_id = 26 and item.plugin_name = 'kv' and item.item_name = 'api_request_log' and item.item_status = 'on' order by item.app_id,item.create_time desc	983.0	2.98679	4.0	2015-07-24 09:02:17
a1-dba-tech01.hz	3310	1	select item.id,item.app_id, item.plugin_name, item.item_name,item.item_filed,item.item_view, item.description,item.task_class_name, item.item_status,item.is_effective, item.effective_time,item.effective_interval, item.current_version, item.last_version,item.cron_expression,item.create_time, item.update_time,app.app_name,creator,last_modify_person from monitor_item item,monitor_application app where item.app_id=app.id and item.app_id = 26 and item.plugin_name = 'kv' and item.item_name = 'api_request_log' and item.item_status = 'on' order by item.app_id,item.create_time desc	947.0	4.31901	0.0	2015-07-23 12:32:05
a1-dba-tech01.hz	3310	1	select item.id,item.app_id, item.plugin_name, item.item_name,item.item_filed,item.item_view, item.description,item.task_class_name, item.item_status,item.is_effective, item.effective_time,item.effective_interval, item.current_version, item.last_version,item.cron_expression,item.create_time, item.update_time,app.app_name,creator,last_modify_person from monitor_item item	931.0	6.43772	2.0	2015-07-24 08:42:17

```
#cat /usr/local/dbadmin/monitor/dbmon_tcp_review_html.py
#!/usr/bin/python
#-*- coding:utf-8 -*-
# ScriptName: 2.py
# Create Date: 2015-02-10 14:30
# Modify Date: 2015-02-10 14:30
#*****##
import operator
from datetime import *
```

```

import getopt
import os as os
import time as time
import commands as commands
import sys as sys
import json as json
import sys
reload(sys)
sys.setdefaultencoding("utf-8")
from datetime import datetime
import logging
import types
import MySQLdb
import conf.dw as config
import lib.dw as db

LOG_FILE = '/tmp/tcp_test.log'
CHECK_INTERVAL=30
# Set up logging
logger = logging.getLogger(__name__)
logHandle = logging.FileHandler(LOG_FILE)
format = '%(levelname)s - %(message)s'
logFormatter = logging.Formatter(format)
logHandle.setFormatter(logFormatter)
logger.setLevel(logging.DEBUG)
logger.addHandler(logHandle)

def usage():
    print "\

    Examples :
python dbmon_tcp_review.py --action=start

    "
    sys.exit(1)

def dw_monitor():
    try:

```

```

tcpdump_rpt_head=""
<html lang="en"><head><meta http-equiv="Content-Type" content="text/html;
charset=utf-8" /><title>MySQL Tcpdump Report</title> <meta name="viewport"
content="width=device-width, initial-scale=1.0">
<link rel="stylesheet" href="../css/style.css"><style>
/*
Max width before this PARTICULAR table gets nasty
This query will take effect for any screen smaller than 760px
and also iPads specifically.
*/
@media
only screen and (max-width: 300px),
(min-device-width: 768px) and (max-device-width: 900px) {
/* Force table to not be like tables anymore */
table, thead, tbody, th, td, tr {
display: block;
}
/* Hide table headers (but not display: none;, for accessibility) */
thead tr {
position: absolute;
top: -9999px;
left: -9999px;
}
tr { border: 1px solid #ccc; }
td {
/* Behave like a "row" */
border: none;
border-bottom: 1px solid #eee;
position: relative;
padding-left: 50%;
}
td:before {
/* Now like a table header */
position: absolute;
/* Top/left values mimic padding */
top: 6px;
left: 6px;
}

```



```

        width: 45%;
        padding-left: 10px;
        white-space: nowrap;
    }
}
/*
Label the data
*/
td:nth-of-type(1):before { content: "Host Name"; }
td:nth-of-type(2):before { content: "port"; }
td:nth-of-type(3):before { content: "host_id"; }
td:nth-of-type(4):before { content: "query_sql"; }
td:nth-of-type(5):before { content: "execute_count"; }
td:nth-of-type(6):before { content: "time_count"; }
td:nth-of-type(7):before { content: "rows_affected"; }
td:nth-of-type(8):before { content: "first_seen_time"; }
}
}
/* Smartphones (portrait and landscape) ----- */
@media only screen
and (min-device-width : 320px)
and (max-device-width : 480px) {
    body {
        padding: 0;
        margin: 0;
        width: 320px; }
}
/* iPads (portrait and landscape) ----- */
@media only screen and (min-device-width: 768px) and (max-device-width: 980px) {
    body {
        width: 400px;
    }
}
</style></head>
<div id="page-wrap">
    <body>
        <h1 >
            MySQL Tcpdump Report
        </h1>
        <p /><hr /> ""

```

```

tcpdump_rpt_foot='<p /> <h2>End of Report</h2></div> </body></html>';
#get the recently startup information
atime=time.strftime("%Y-%m-%d",time.localtime(time.time()))
filename="mysql_tcpdump_review.html"
fp=open(filename,'w')
fp.write(tcpdump_rpt_head)

html_line=""<h3 class='awr'>
Tcpdump Online SQL detail
</h3>
<table style="table-layout:fixed;word-break:break-all" border="1" width="1300">
<tr><th width=130px class='awrbg'>hostname</th><th width=60px
class='awrbg'>dbport</th><th width=30px class='awrbg'>id</th><th width="45%"
class='awrbg'>query_sql</th><th class='awrbg'>exec_cnt</th><th
class='awrbg'>time_cnt</th><th width=50px class='awrbg'>rows</th><th width=160px
class='awrbg'>first_seen_time</th></tr>"
query="SELECT
a.`hostname_max`,a.`dbport_max`,a.`hostid_max`,REPLACE(a.sample,CHAR(10),"),a.`
ts_cnt`,a.`Query_time_sum`,a.`Rows_affected_sum`,DATE_FORMAT(a.ts_min,'%Y-%m-
%d %T') AS ts_min FROM dbmon.`tcp_dump_review_history` a WHERE a.ts_min >
DATE_SUB(NOW(), INTERVAL 1 DAY) and sample not like '%session%' and sample
not like '%commit%' ORDER BY a.`ts_cnt` DESC LIMIT 100"
total=db.gettcpdump(query)
tcprec=list(total)
print tcprec
for kv in tcprec:
hostname=kv[0]
dbport=kv[1]
hostid_max=kv[2]
sample=str(kv[3])
sample=' '.join(sample.split())
print sample
ts_cnt=kv[4]
Query_time_sum=kv[5]
Rows_affected_sum=kv[6]
ts_min=kv[7]
html_line+="<tr><td
ALIGN='left'
class='awrc'>"+str(hostname)+"</td><td ALIGN='left' class='awrc'>"+str(dbport)+"</td>
<td ALIGN='left' class='awrc'>"+str(hostid_max)+"</td><td ALIGN='left'
class='awrc'>"+str(sample)+"</td> <td ALIGN='left' class='awrc'>"+str(ts_cnt)+"</td>
<td ALIGN='left' class='awrc'>"+str(Query_time_sum)+"</td> <td ALIGN='left'
class='awrc'>"+str(Rows_affected_sum)+"</td> <td ALIGN='left'
class='awrc'>"+str(ts_min)+"</td></tr>"
html_line+="</table>"

```

```

fp.write(html_line)
fp.write(tcpdump_rpt_foot)
fp.close()
print "Generate the tcpdump report Successfully.\n";
os.system("scp %s
10.128.2.87:/usr/local/apache/htdocs/mywebsql/webm/tcpdump&&rm
-f %s" %(filename,filename))
except Exception,e :
    logger.error(e)

```

```

def main():
    action=""
    if len(sys.argv) < 2:
        print '0:ERR:No_ACTION_specified.'
        usage()
    for x in sys.argv:
        if x == sys.argv[0] :
            continue
        else:
            value=x[x.find('=')+1:]
            if x.startswith('--action') and x != '--action':
                action = value
            if action=="start":
                dw_monitor()
            else:
                usage()

if __name__ == "__main__":
    main()

```

Web server will receive html file:

```

#ls -l mysql_tcpdump_review.html
-rw-r--r-- 1 root root 77072 Jul 24 11:05 mysql_tcpdump_review.html

```