**mysql-data-gnuplot-graph.sh**

usage(){

echo "USAGE: bash <script-name> <number of days>"

}

args=`echo $#`

if [ $args -eq 1 ]

then

days=$1

filename="/tmp/stats\_for"$days"days.csv"

if [ -f $filename ];then

echo "CSV file exists. Replacing it with the new one"

sudo rm $filename

fi

echo "Enter MySQL's Password"

mysql -u user -p yourdatabase -e "select ((hour(createdOn) + 5) % 24), round(count(id)/"$days") from table\_name where createdOn between date\_sub(now(), interval "$days" day) and now() group by hour(createdOn) into outfile '$filename' fields terminated by ',' lines terminated by '\n';"

echo "Generating graph now..."

outputFile="stats\_for"$days"days.png"

gnuplot <<- EOF

reset

set terminal png

set output '$outputFile'

set grid

set pointsize 2

set xlabel "Hour"

set ylabel "Avg number of requests"

set datafile sep ','

set key box

plot '$filename' using 1:2 smooth csplines lw 2 title 'stats of traffic', \

'$filename' using 1:2 w p title '(Hr, SMS)';

EOF

else

usage

fi

Live data – gnuplot

..

pause 15

reread

..

mean that that the second column in your database table will be the X-axis values and the fourth column – the Y-axis value F(x). The graph below utilizes Bezier smoothing. This makes the chart look cleaner, but it may not be appropriate for your data.

GNUPlot\_Update\_Func() {

#------ Client Disk Allocation and Utilization vs. Time ------

$MYSQL --column-names=0 -u$DBUSER -p$DBPASS $DBNAME << EOF | while read HOSTNAME

SELECT DISTINCT host\_name FROM sandisk\_clients ORDER BY host\_name;

EOF

do

$MYSQL --column-names=0 -u$DBUSER -p$DBPASS $DBNAME <; "${TMPDIR}/${HOSTNAME}\_gnuplot\_client.dat"

SELECT host\_name, line\_datetime, SUM(alloc\_kb), SUM(used\_kb)

FROM sandisk\_clients

WHERE host\_name LIKE '$HOSTNAME'

GROUP BY YEAR(line\_datetime), MONTH(line\_datetime), DAYOFMONTH(line\_datetime);

EOF

echo "set title '$HOSTNAME'" &gt; "${TMPDIR}/${HOSTNAME}\_gnuplot\_client.gnu"

echo "set xdata time" &gt;&gt; "${TMPDIR}/${HOSTNAME}\_gnuplot\_client.gnu"

echo "set key box" &gt;&gt; "${TMPDIR}/${HOSTNAME}\_gnuplot\_client.gnu"

echo "set key bottom right" &gt;&gt; "${TMPDIR}/${HOSTNAME}\_gnuplot\_client.gnu"

echo "set size 1.5,1.5" &gt;&gt; "${TMPDIR}/${HOSTNAME}\_gnuplot\_client.gnu"

echo "set xlabel 'Date'" &gt;&gt; "${TMPDIR}/${HOSTNAME}\_gnuplot\_client.gnu"

echo "set ylabel 'Size, Kb' font 'Arial,12'" &gt;&gt; "${TMPDIR}/${HOSTNAME}\_gnuplot\_client.gnu"

echo "set autoscale" &gt;&gt; "${TMPDIR}/${HOSTNAME}\_gnuplot\_client.gnu"

echo 'set timefmt "%Y-%m-%d %H-%M-%S"' &gt;&gt; "${TMPDIR}/${HOSTNAME}\_gnuplot\_client.gnu"

echo "set term png color" &gt;&gt; "${TMPDIR}/${HOSTNAME}\_gnuplot\_client.gnu"

echo "set output '${CHARDIR}/${HOSTNAME}\_client\_001.png'" &gt;&gt; "${TMPDIR}/${HOSTNAME}\_gnuplot\_client.gnu"

echo "plot '${TMPDIR}/${HOSTNAME}\_gnuplot\_client.dat' using 2:4 title 'Allocated, Kb' smooth bezier with

linespoints, '${TMPDIR}/${HOSTNAME}\_gnuplot\_client.dat' using 2:5 title 'Used, Kb' smooth bezier with linespoints" &gt;&gt; "${TMPDIR}/${HOSTNAME}\_gnuplot\_client.gnu"

$GNUPLOT /dev/null 2>&1

done

}