

Automasi konversi MRTG tradisional ke RRD tool

Written by Administrator

Saturday, 28 August 2004 14:47 -

Ide graffiti ini muncul dari artikel D. N. Indra Haryawan di <http://www.infofreebsd.org> dan merupakan lanjutan graffiti saya sebelumnya.

Pemanfaatan rrdtool juga terilhami oleh tulisan pada site yang sama. (Maaf,.. saya lupa penulisnya) Brief :

Bayangkan seandainya kita memiliki banyak host yang akan dimonitor via mrtg. Dan suatu saat kita harus mengupgradenya ke mode rrd yang di daemonized ?

Tentunya akan cukup merepotnya bila menanganinya satu persatu...

Nah loo... gimana donk ?

So... akan lebih baik kalo prosesnya di automatisasi... ya Gak ?

Step:

1. Download file 14all.cgi di <http://my14all.sourceforge.net/>

2. Letakkan file tersebut pada path yang sama dengan file *.cfg lainnya , misal di /etc/mrtg (terserah sih,.. tapi ini favorit saya)

3. Ganti nama file hasil download tersebut menjadi 14all.cgi (or whatever), dan edit setelah baris :

```
# (14all.cgi -> 14all.cfg)
```

diberikan :

```
$cfgfile = '/etc/mrtg/template-mrtg.cfg';
```

baris tersebut akan di parsing dan direplace oleh script

4. BUat script back up dulu

```
#-----start script-----
```

```
#!/bin/sh
```

```
echo -n "Enter Path to Back Up : "
```

```
read THEPATH
```

```
echo ""
```

```
echo -n "Enter Name Of Archive : "
```

```
read ARCNAME
```

```
tar -cf $ARCNAME.tar $THEPATH
```

```
gzip $ARCNAME.tar
```

```
echo "Done backup $THEPATH into $ARCNAME ...."
```

```
#-----end script-----
```

5. Run script di atas untuk membackup

6. Buat script conversi ini (jangan lupa edit seperlunya)

```
#-----start script-----
```

```
#!/bin/sh
```

```
# This is my script to automatically convert convention mrtg .cfg files into rrd - daemonized mode
```

```
# I usually use /etc/mrtg as my mrtg-path config
```

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DIR=\$1

#####

Use your own custom configuration by editing these

```
ENABLERRD1="LogFormat: rrdtool"
ENABLERRD2="PathAdd: /usr/local/mrtg-2/rrdtool/bin/"
ENABLERRD3="LibAdd: /usr/local/mrtg-2/rrdtool/lib/perl/"
ENABLEDAEMONIZED="RunAsDaemon: yes"
RRDYES="RRD ENABLE"
RRDNO="RRD DISABLE"
ENABLEDAEMONOK="DAEMONIZED YES"
ENABLEDAEMONNO="DAEMONIZED NO"
MRTGDIR=/var/www/htdocs/mrtg
CGIDIR=/var/www/cgi-bin
TEMPLATECGI=/etc/mrtg/14all.cgi
CFG=/etc/mrtg
KEYCGI="14all"
MRTGBINPATH="/usr/local/mrtg-2/bin/"
STRINGINDEX="PES@Tnet POP Surabaya - MRTG "
MKINDEXRRD="/etc/mrtg/make-index-rrd"
```

#####

Go To \$CFG

```
echo "Change dir to" $(pwd)
cd $CFG
```

#####

Back Up Or No

```
echo -n "Back Up old config ? [Y]" :
read ANSWER1
echo ""
if [ "$ANSWER1" = "" ]; then
    $ANSWER1 = "Y"
fi
echo $ANSWER1
if [ "$ANSWER1" = "Y" ]; then
    mkdir $CFG/backup
    cp *.cfg $CFG/backup
fi
```

#####

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Daemonizing-ing all .cfg

```
for a in $(ls $DIR *.cfg | grep cfg)
do
  DAEMONFILE=$(cat $a | grep RunAsDaemon)
  if [ "$DAEMONFILE" = "" ]; then
    echo -n $a " "
  sleep 1
    echo $ENABLEDAEMONNO "and now trying to enabled daemon mode in $a"
  echo $ENABLEDAEMONIZED >> $a
  sleep 1
fi
if [ ! "$DAEMONFILE" = "" ]; then
  echo -n $a " "
  echo $ENABLEDAEMONOK
fi
done
```


RRD-ing all .cfg

```
for a in $(ls $DIR *.cfg | grep cfg)
do
  THISFILE=$(cat $a | grep LogFormat)
  if [ "$THISFILE" = "" ]; then
    echo -n $a " "
    echo $RRDNO "and now trying to enabled rrd tool on $a"
  echo $ENABLERRD1 >> $a
  echo $ENABLERRD2 >> $a
  echo $ENABLERRD3 >> $a
  sleep 1
fi
if [ ! "$THISFILE" = "" ]; then
  echo -n $a " "
  echo $RRDYES
fi
  sed 's/workDir/WorkDir/g' $a > tmp
  mv tmp $a
done
```

```
echo "" > $MKINDEXRRD
echo "#!/bin/sh" > $MKINDEXRRD
chmod +x $MKINDEXRRD
for a in $(ls $DIR *.cfg | grep cfg)
```

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```
do
echo ""
echo "Processing rrd cgi in $a"
sed 's/template-mrtg.cfg/'$a'/g' $TEMPLATECGI > $CGIDIR/$a.cgi
chmod +x $CGIDIR/$a.cgi
chown www.www $CGIDIR/$a.cgi
OUTPUTDIR=$(cat $a | grep WorkDir | tail -1 | cut -c10-)
echo "WorkDir : " $OUTPUTDIR
sleep 1
echo "#$MRTGBINPATH/indexmaker --rrdviewer=/cgi-bin/$a.cgi $CFG/$a --enumerate
--columns=2 --title='$STRINGINDEX' --output=$OUTPUTDIR/index.html" >> $MKINDEXRRD
echo "#$MRTGBINPATH/indexmaker --rrdviewer=/cgi-bin/$a.cgi $a --enumerate --columns=2
--title='$STRINGINDEX' --output=$OUTPUTDIR/index.html"
echo ""
done
echo "#####"
echo "There is file $MKINDEXRRD on your $CFG path. Edit this, and run to make rrd indexed
automatically"
echo "#####"
exit 0
```

#-----end script-----

7. Chmod file diatas,... misal nama filenya converter,.. chmod +x converter
8. Edit file /etc/mrtg/make-index-rrd, seperlunya
9. Run /etc/mrtg/make-index-rrd
10. Hapus semua rekaman mrtg di crond
11. Buat customized startup, (seperti pada tulisan terhadulu)

```
# ----- start of script -----
#!/bin/sh
DIR="/etc/mrtg"
STRING1="/usr/local/mrtg-2/bin/mrtg /etc/mrtg"
```

```
case "$1" in
```

```
stop)
for c in $(ps ax | grep mrtg | cut -c0-5)
do
PID=$(echo $c)
```

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```
kill -9 $PID
echo "Daemonized $PID Stopped"
done
rm -f $DIR/*.pid
rm -f $DIR/*_*
exit 0
;;

start)
for a in $(ls $DIR | grep .cfg)
do
TORUN=$(echo $a)
echo -n "MRTG $TORUN "
$STRING1/$TORUN &
echo ""
done
exit 0
;;
restart)
$0 stop
$0 start
exit $?
;;
*)
echo "Usage: `basename $0` { start | stop | restart}"
;;
esac
# ----- end of script -----
```

12. Chmod agar executable, dan sesuaikan dengan distro anda

13. Run script terakhir ini, dan... voila....

Note: *Terima kasih xenogears atas tulisan yang sangat menarik ini. Sering-sering nulis yah :)*