Logparse implementation

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Since mid-January, sas@SASESCCLDVAPP01:/sasdata/bicoc\_output01/monitoring/logparse/scripts/process\_WSlogs.sh has been scheduled nightly .

These statements have been added to WorkspaceServer/sasv9\_usermods.cfg and BatchServer/sasv9\_usermods.cfg :

/\* Use custom RollingFileAppender to create log for %logparse \*/

-logconfigloc "/opt/sas/config/Lev1/SASApp01/WorkspaceServer/logconfig.altlog.xml"

SAS logs are written to /sasdata/bicoc\_output01/SASWSlogs/2020-02-19\_7264\_SASApp01\_SASESCCLDVAPP01.log where 7264 is PID

Each log has header info written to $APPHOME/sasdata/

The SAS log body is processed using SAS-provided %logparse and the steps and metrics appended to $APPHOME /sasdata/logparse\_data.sas7bdat

Additional scripts run by sas and root are for exception handling, archiving and housekeeping

17 Components (in ./reffiles/logparse\_components\_V5.lst

./scripts/process\_WSlogs.sh # Scheduled at 02.35 by sas service account. Executes logparse\_usage\_sysparm.sas for each valid log

./sascode/logparse\_usage\_sysparm.sas # For each log, appends header fields to logparse\_hdrs and run %logparse for step info appended to logparse\_data

./sasmacros/logparse.sas # %logparse macro supplied by SAS circa 2005. Scans SAS log for data steps, procs, stimer metrics

./scripts/bkup\_hskp\_WSlogs.sh # Scheduled at 02.45 by sas service account to runlogdata\_bkup\_hskp.sas

./sascode/logdata\_bkup\_hskp.sas # Backup and delete datasets in ./sasdata to keep 7 days

./scripts/archive\_reject\_WSLogs.sh # To be scheduled nightly as root. gzip processed logs, delete old .gz and mv bad logs to ./rejects

./scripts/addlogparse2crontab.sh # Backup existing crontab and append $APPHOME entries. Not for root

./sascode/cre8skel.sas # Initialize logparse\_hdrs and logparse\_data

./reffiles/logconfig.altlog.xml # log appender and layout definitions referenced by -logconfigloc in sasv9\_usermods.cfg

./reffiles/logparse.env # bash environment variables referenced by scheduled, read-only scripts

./reffiles/WS\_sasv9\_usermods.cfg # Symlinks no good. Copy of /opt/sas/config/Lev1/SASApp01/WorkspaceServer/sasv9\_usermods.cfg

<https://bitbucket.bmogc.net/projects/SASENV/repos/saslogparse/browse>

Parameters in $APPHOME/reffiles/logparse.env to be specified by architect:

SERVICEACCT=sas

HOST= SASESCCLDVAPP02

APPHOME=/sasdata/bicoc\_output01/monitoring/logparse

LOGSDIR=/sasdata/bicoc\_output01/SASWSlogs

VER=V5 # Tested by sas@SASESCCLDVAPP01

DAYSOLD=1 # Age of logs to be processed

Steps for Dev Adhoc

As sas@SASESCCLDVAPP02 :

$ export APPHOME=location\_specified\_by\_architect

$ cd $APPHOME/.. # Parent of $APPHOME

$ git clone https://bitbucket.bmogc.net/scm/sasenv/saslogparse.git

$ vi $APPHOME/logparse/reffiles/logparse.env # As per architect specs

$ mv saslogparse logparseV5

$ ln -s logparseV5 logparse

$ for DIR in joblogs/ packages/ refdata/ rejects/ sasdata/ saslogs/ sasprint/

do if ! [ -e $APPHOME/$DIR ]

then

mkdir $APPHOME/$DIR

fi

done

$ Rename /opt/sas/config/Lev1/SASApp02-Adhoc/WorkspaceServer/sasv9\_usermods.cfg to backup version

$ cp $APPHOME/refiles/WS\_sasv9\_usermods.cfg /opt/sas/config/Lev1/SASApp02-Adhoc/WorkspaceServer/sasv9\_usermods.cfg

$ cp $APPHOME/refiles/logconfig.altlog.xml /opt/sas/config/Lev1/SASApp02-Adhoc/WorkspaceServer/logconfig.altlog.xml

$ Edit -logconfigloc in /opt/sas/config/Lev1/SASApp02-Adhoc/WorkspaceServer/logconfig.altlog.xml

# Set up target for EG logs

$ mkdir $LOGSDIR

$ chmod 753 $LOGSDIR

# Test

$ /opt/sas/config/Lev1/SASApp02-Adhoc/WorkspaceServer/WorkspaceServer.sh -nodms

$ ls -alrt $LOGSDIR

# Add to crontab

$ $APPHOME/scripts/addlogparse2crontab.sh

|  |
| --- |
| Sessions per day |

|  | **perday** |
| --- | --- |
| 25JAN2020 | 2 |
| 26JAN2020 | 2 |
| 27JAN2020 | 11 |
| 28JAN2020 | 4 |
| 29JAN2020 | 3 |
| 30JAN2020 | 3 |
| 03FEB2020 | 2 |
| 04FEB2020 | 8 |
| 06FEB2020 | 3 |
| 10FEB2020 | 2 |
| 11FEB2020 | 1 |
| 12FEB2020 | 13 |
| 13FEB2020 | 8 |
| 14FEB2020 | 5 |
| 15FEB2020 | 4 |
| 18FEB2020 | 3 |
| 19FEB2020 | 6 |

|  |
| --- |
| data step, proc count, cpu by user |

|  | **Step Name** | **stepcnt** | **meancpu** |
| --- | --- | --- | --- |
| afarr02 |  | 6 | 0.01 |
| afarr02 | ANOVA | 5 | 0.008 |
| afarr02 | APPEND | 35 | 0 |
| afarr02 | COMPARE | 2 | 0 |
| afarr02 | CONTENTS | 4 | 0.015 |
| afarr02 | COPY | 1 | 0 |
| afarr02 | CORR | 10 | 0 |
| afarr02 | DATA | 542 | 4.519557 |
| afarr02 | DATASETS | 13 | 0.000769 |
| afarr02 | DELETE | 9 | 0 |
| afarr02 | FORMAT | 6 | 0.001667 |
| afarr02 | FREQ | 3 | 0.003333 |
| afarr02 | Initialization | 63 | 0 |
| afarr02 | MEANS | 2 | 0 |
| afarr02 | OPTIONS | 51 | 0.000196 |
| afarr02 | PLOT | 3 | 0 |
| afarr02 | PRINT | 72 | 0.000694 |
| afarr02 | RANK | 35 | 0 |
| afarr02 | REG | 2 | 0 |
| afarr02 | SAS | 130 | 9329.239 |
| afarr02 | SETINIT | 1 | 0 |
| afarr02 | SHEWHART | 6 | 0 |
| afarr02 | SORT | 29 | 0.001034 |
| afarr02 | SQL | 92 | 0.005435 |
| afarr02 | STANDARD | 2 | 0 |
| afarr02 | SUMMARY | 12 | 0.001667 |
| afarr02 | TABULATE | 16 | 0.0075 |
| afarr02 | TEMPLATE | 10 | 0 |
| afarr02 | TIMEPLOT | 10 | 0 |
| afarr02 | TRANSPOSE | 1 | 0 |
| afarr02 | UNIVARIATE | 11 | 0.29 |
| afarr02 | initialization | 67 | 0.034925 |