Informix Parameter Change Activity

Pre-Check:
1. Backup old library file
    onstat -c|grep BAR
    cp /usr/lib/libnsrifmx.so /opt/informix/backup/libnsrifmx.so_OLD

2. Create backup of Alarm file with new configuration
    onstat -c |grep -i alarm
    ls -l $INFORMIXDIR/etc/alarmprogram.sh
    ls -l /opt/informix/IDS/ids.12.10.FC10WE/etc/alarmprogram.sh
    cd /opt/informix/IDS/ids.12.10.FC10WE/etc
    cp alarmprogram.sh /opt/informix/backup/alarmprogram.sh_old_bkp_param

    cd /opt/informix/backup/
    cp alarmprogram.sh_old_bkp_param alarmprogram.sh_NEW

    Update New parameters in /opt/informix/backup/alarmprogram.sh_NEW

    OLD
    NSR_DATA_VOLUME_POOL="REP#0032#G17#DDB"
    NSR_LOG_VOLUME_POOL="REP#0032#G17#DDB"
    NSR_GROUP="SYS_0032_G17_DDB_TSR_vosnoqhr_04"
    export NSR_DATA_VOLUME_POOL NSR_LOG_VOLUME_POOL NSR_GROUP
    NSR_SERVER=vobkr13vr
    NSR_CLIENT=tramo-informix
    export NSR_SERVER NSR_CLIENT

    NEW
    NSR_DATA_VOLUME_POOL="REP#DD#GE32#DDB"
    NSR_LOG_VOLUME_POOL="REP#DD#GE32#DDB"
    NSR_GROUP="SYS_0032_GE32_DDB_TSR_04"
    NSR_DEBUG_LEVEL=0
    export NSR_DATA_VOLUME_POOL NSR_LOG_VOLUME_POOL NSR_GROUP NSR_DEBUG_LEVEL
    NSR_SERVER=vobkr20vr.dc-ratingen.de
    NSR_CLIENT=tramo-informix
    export NSR_SERVER NSR_CLIENT

3. Update cronjobs files with NEW parameters

    cd /opt/informix/IDS/ids.12.10.FC10WE/scripts
    cp level0_rataktp1.sh level0_rataktp1.sh_NEW_BKP_PARAM
    cp level0_rataktp2.sh level0_rataktp2.sh_NEW_BKP_PARAM
    cp level0_rataktp4.sh level0_rataktp4.sh_NEW_BKP_PARAM
    cp level0_ratcalp2.sh level0_ratcalp2.sh_NEW_BKP_PARAM
    cp level0_rataktp6.sh level0_rataktp6.sh_NEW_BKP_PARAM

    Create New File:
    vi level0_rataktp1.sh_NEW_BKP_PARAM
    vi level0_rataktp2.sh_NEW_BKP_PARAM
    vi level0_rataktp4.sh_NEW_BKP_PARAM
    vi level0_ratcalp2.sh_NEW_BKP_PARAM
    vi level0_rataktp6.sh_NEW_BKP_PARAM

4. DBA team to stop monitoring from Database side .

    cd /opt/informix/ifxmonitor/scripts
    informix@adetrmas:/opt/informix/ifxmonitor/scripts> vi config_ifxmonitor.sh

    #SET this VALUE is Y, to exit at anytime
    DO_YOU_WANT_TO_EXIT=N

    Value after change

    #SET this VALUE is Y, to exit at anytime
    DO_YOU_WANT_TO_EXIT=Y

Application Team will do below things.
=========================
- Write one mail to announce the outage .
Prepare steps that should be done earlier before the reorg day.
-    Create job request for stopping the CSM 60 daemons (Example: Z_JRT00049945A)
-    Create job request for starting the CSM 60 daemons (Example: Z_JRT00049946A)

Backup Team: (Shankar)
   - What is process to rollback libraries to old version? - No Problem rollback possible
   - Update the DNS for NEW backup server as permanent (not in /etc/hosts) and take client restart on production

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                   DOWNTIME
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Activity :
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1. Stop application and alerts

2. Shut all DB instances

   cd /opt/informix
   . ./switch_rataktp1.sh
   onmode -k

   . ./switch_rataktp2.sh
   onmode -k

   . ./switch_rataktp4.sh
   onmode -k

   . ./switch_ratcalp2.sh
   onmode -k

   . ./switch_rataktp6.sh
   onmode -k

3. Change NEW backup environemt in .profile/switch file
   cd /opt/informix
   mv .setenv_LegatoBackup .setenv_LegatoBackup_OLD01-10-2019
   mv .setenv_LegatoBackup_new .setenv_LegatoBackup

4. Upgrade library and binary files
   Backup Team

5. Replace CURRECT alarm file as OLD and make NEW as CURRENT. Change Backup cron file from OLD to NEW

   cd /opt/informix/IDS/ids.12.10.FC10WE/etc
   mv alarmprogram.sh alarmprogram.sh_OLD_01-10-2019

   cd /opt/informix/backup
   cp alarmprogram.sh_NEW /opt/informix/IDS/ids.12.10.FC10WE/etc/alarmprogram.sh

   cd /opt/informix/IDS/ids.12.10.FC10WE/scripts

   CURRENT to OLD
   cp level0_rataktp1.sh level0_rataktp1.sh_OLD_01-10-2019
   cp level0_rataktp2.sh level0_rataktp2.sh_OLD_01-10-2019
   cp level0_rataktp4.sh level0_rataktp4.sh_OLD_01-10-2019
   cp level0_ratcalp2.sh level0_ratcalp2.sh_OLD_01-10-2019
   cp level0_rataktp6.sh level0_rataktp6.sh_OLD_01-10-2019

   NEW to CURRENT
   cp level0_rataktp1.sh_NEW_BKP_PARAM level0_rataktp1.sh
   cp level0_rataktp2.sh_NEW_BKP_PARAM level0_rataktp2.sh
   cp level0_rataktp4.sh_NEW_BKP_PARAM level0_rataktp4.sh
   cp level0_ratcalp2.sh_NEW_BKP_PARAM level0_ratcalp2.sh
   cp level0_rataktp6.sh_NEW_BKP_PARAM level0_rataktp6.sh

6. start instances

```
cd /opt/informix
. ./switch_rataktp1.sh
oninit -v

. ./switch_rataktp2.sh
oninit -v

. ./switch_rataktp4.sh
oninit -v

. ./switch_ratcalp2.sh
oninit -v

. ./switch_rataktp6.sh
oninit -v
```

7. Test Manual backup of all 4 instances

```
cd /opt/informix
. ./switch_rataktp1.sh
env|grep NSR_SERVER
onbar -b -L 0

. ./switch_rataktp2.sh
env|grep NSR_SERVER
onbar -b -L 0

. ./switch_rataktp4.sh
env|grep NSR_SERVER
onbar -b -L 0

. ./switch_ratcalp2.sh
env|grep NSR_SERVER
onbar -b -L 0

. ./switch_rataktp6.sh
env|grep NSR_SERVER
onbar -b -L 0
```

8. Check : Manually switch of logical log file to check whether getting backuped on new server

```
cd /opt/informix
. ./switch_rataktp1.sh
onmode -l          => TO Switch
onmode –c
onstat -l          => TO Check

. ./switch_rataktp2.sh
onmode -l
onmode –c
onstat -l

. ./switch_rataktp4.sh
onmode -l
onmode –c
onstat -l

. ./switch_ratcalp2.sh
onmode -l
onmode –c
onstat -l

. ./switch_rataktp6.sh
onmode -l
onmode –c
onstat -l
```

9. Start application & sanity

10. Change backup parameters of cron backup files & uncomment cronjobs

11. Start DBA Monitoring
    nohup /opt/informix/ifxmonitor/scripts/ifxmonitor.sh 2>/dev/null >/dev/null &