Service Group Switch Activity

Stop all the monitoring .

Take Full backup of all informix instances .

Check if all the connections are closed .
onmode -k or call SMC .
Take details of all the session that were not killed . onmode -u , onmode -g sessid

Stop rataktp6 instance manually
Application Team: stop monitoring,stop applicaiton and daemons by PMC - 45min
ADBA Team:DB backup stop monitoring and comments cronjobs - 30min
ADBA Team:Stop database - 45min
Unix Team : SG switchover
ADBA Team : Start database - 45min
ADBA Team : DB backup monitoring and uncomments cronjobs - 30min
Application Team: start monitoring,start applicaiton and daemons by PMC - 45min

==========

WG: RFC-0592263 for Latest kernel patching on Tramo DB server adetrmas & adetrmbs .
==========

the following steps are only necessary on adetrmas, the patching of adetrmbs should have no influence to our production. But after action is done on both, it should be checked, if both machines have the same patch level.
If the planned outage will only last from 21:05 to 22:20 CET, and there is no need to switch, the to do list is quite simple:

Prepare steps that should be done earlier:
- Create job request for stopping the CSM 60 daemons (Example: Z_JRT00049945A)
- Create job request for starting the CSM 60 daemons (Example: Z_JRT00049946A)

Steps directly before shutting down and patching the Unix server:
- Forward service request for stopping the daemons to PMC/SMC and call the colleagues
- As user epos: Disable epos monitoring on all depop[x]ls to prevent hundreds of error messages and incident generation (touch /tmp/procmon2_epos_off)
- As user tramo: Disable VAS on all Tramo application servers (in directory /opt/tramo/d2as/bin: rm d2as_prod.exe)
- As user tramo: stop tramo monitor, otherwise it would lead to prio1 or prio 2 incident (pid=`ps –ef| grep lomonit| nawk '{ print $1 }'; kill $pid)
- As user tramo: stop statusmonitor (pid=`ps –ef| grep statusmonit| nawk '{ print $1 }'; kill $pid)
- As user tramo: Stop erni on adevas3s (in directory /opt/tramo/ernid/bin: ./ernid-rataktp1.sh stop; ./ernid-rataktp2.sh stop; ./ ernid-ratcalp2.sh stop; ./ernid-ratcalp2_import.sh stop)
- As user tramo: stop bert on adevas3s (in directory /opt/tramo/bertd/bin: ./ bert-rataktp1.sh stop; ./ bert-rataktp2.sh stop; ./ bert-ratcalp2.sh stop)
- Check if all activate daemons are down
-

On tramo-pr1(adetrmas) as user Informix in $HOME directory
Stop the Informix Database Servers
- . ./switch_rataktp1.sh
- onmode –ky
- . ./switch_rataktp2.sh
- onmode –ky
- . ./switch_rataktp4.sh
- onmode –ky
- . ./switch_ratcalp2.sh
- onmode –ky

Deactivate all crontab jobs for user tramo on adetrmas
Inform the Colleagues from group that they can switch the service group (with this switch the directory /opt/informix will also switch; therefore regarding the Database server no adaption or configuration change is necessary)
and
can do their patching.
==========
This is not relevant : After Unix server – with new patch level – is up and running:
==========

After service group (tramo_sg) has switched to adetrmbs login as tramo there
Activate all crontab jobs for user tramo on adetrmbs

On tramo-pr1 (adetrmbs) as user Informix in $HOME directory
Start the Informix Database Servers
- . ./switch_rataktp1.sh
- oninit –v
- . ./switch_rataktp2.sh
- oninit –v
- . ./switch_rataktp4.sh
- oninit –v
- . ./switch_ratcalp2.sh
- oninit –v
- Perform a level 0 backup : /opt/informix/11.70/scripts/level0_rataktp1.sh

Check if it was successful:
In /opt/Informix/11.70/tmp/bar_act1.log search for
“Archive on rootdbs, datadbs1, datadbs2 Completed (Requested Level 0)” with actual timestamp

Regarding the applications:
- Forward service request for starting the daemons to PMC and call the colleagues
- As user tramo: start erni on adevas3s (in directory /opt/tramo/ernid/bin: ./ernid-rataktp1.sh start; ./ernid-rataktp2.sh start; ./ ernid-ratcalp2.sh start; ./ernid-ratcalp2_import.sh start)
- As user tramo: start bert on adevas3s (in directory /opt/tramo/bertd/bin: ./ bert-rataktp1.sh start; ./ bert-rataktp2.sh start; ./ bert-ratcalp2.sh start)
- As user tramo: Enable VAS on all Tramo application servers (in directory /opt/tramo/d2as/bin : ln –s d2as-369.exe d2as_prod.exe)
- As user epos:Enable epos monitoring on all depop[x]ls (rm /tmp/procmon2_epos_off)
- As user tramo: start tramo monitor (nohup /opt/tramo/logmonitor/start_logmon.ksh &)
- As user tramo: start statusmonitor (nohup /opt/tramo/statusmonitor/statusmonitor.ksh &)
- Check if all activate daemons are up and running

If possible, do a short sanity check, for example a customer data query.

I think, that’s it.

If there are questions left or something wrong, please let me know.

==========
Wed 26/02/20 22:50 UTC Thu 27/02/20 04:20 IST DB backup,monitoring ,stop monitoring and comments cronjobs,Stop database ADETRMAS
==========

---
1) Stop the instances on adevas3s : => Can be done in parallel with application team.
---

on sylt3 (ssh informix@tramo-pr1) => ssh adevas3s (with informix user perform below actions)

stop below 2 instances
---
ifx_tst
adevas3s

cd /opt/informix

. ./switch_adevas3s_64.sh

onstat -u
onmode -j ======> Administative mode .
onmode -k ======> Shutdown

. ./switch_ifx_tst.sh

onstat -u
onmode -j ======> Administative mode .
onmode -k ======> Shutdown

---
2) DBA team to stop monitoring from Database side . => Can be done in parallel with application team.
---

cd /opt/informix/ifxmonitor/scripts
informix@adetrmas:/opt/informix/ifxmonitor/scripts> vi /opt/informix/ifxmonitor/scripts/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

export EDITOR=vi

---
3) Comment the crontabs . Copy paste contents of file original cron on adtermas file . => Can be done in parallel with application team.

#crontab backup is kept at below location
/opt/informix/crontab_backup/crontab-l => daily backup
/opt/informix/crontab_backup/crontab-l/crontab-l_26022020 => crontab-l_26022020
/opt/informix/crontab_backup/cron_commented_for_Kernel_upgrade => Commented cron backup .

Copy below file content to both the servers's crons .

/opt/informix/crontab_backup/cron_commented_for_Kernel_upgrade

---
4) Verify no user is connected to DB. Kill users if required .
---

cd /opt/informix
. ./switch_rataktp1.sh
. ./switch_rataktp2.sh
. ./switch_rataktp4.sh
. ./switch_ratcalp2.sh

onstat -u
#record the details of the user which remained connected .
onstat -g ses sessionID

onmode -z sessid => to kill the session OR use below .
onmode -j => Only infomrmix user will be able to connect the database .

Repeat this for all instances.

4) Take full backup of all the 4 Informix instances.

Switch to each instance before taking backup (do it one by one)
---
cd /opt/informix
. ./switch_rataktp1.sh ==========> do this rataktp1.
date
onbar -b -L 0;date

Verify backup : tail -100 /opt/informix/IDS/ids.12.10.FC10WE/tmp/bar_act1.log

cd /opt/informix
. ./switch_rataktp2.sh ==========> do this rataktp2.
date
onbar -b -L 0;date

Verify backup : tail -100 /opt/informix/IDS/ids.12.10.FC10WE/tmp/bar_act2.log

cd /opt/informix
. ./switch_rataktp4.sh ==========> do this rataktp4.
date
onbar -b -L 0;date

Verify backup : tail -100 /opt/informix/IDS/ids.12.10.FC10WE/tmp/bar_act4.log

cd /opt/informix
. ./switch_ratcalp2.sh ==========> do this ratcalp2.
date
onbar -b -L 0;date

Verify backup : tail -100 /opt/informix/IDS/ids.12.10.FC10WE/tmp/bar_cal2.log

5) 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
```

AFTER the Switch of SG do the following steps .

==========

Thu 27/02/20 00:40 Thu 27/02/20 06:10 Start database,DB backup monitoring and uncomments cronjobs on ADETRMBS

---

1) 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
```

2) Test Manual backup of all 4 instances

cd /opt/informix

. ./switch_rataktp1.sh
onbar -b -L 0

Verify backup : tail -100 /opt/informix/IDS/ids.12.10.FC10WE/tmp/bar_act1.log

. ./switch_rataktp2.sh
onbar -b -L 0

Verify backup : tail -100 /opt/informix/IDS/ids.12.10.FC10WE/tmp/bar_act2.log

. ./switch_rataktp4.sh
onbar -b -L 0

Verify backup : tail -100 /opt/informix/IDS/ids.12.10.FC10WE/tmp/bar_act4.log

. ./switch_ratcalp2.sh
onbar -b -L 0

Verify backup : tail -100 /opt/informix/IDS/ids.12.10.FC10WE/tmp/bar_cal2.log

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

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

. ./switch_rataktp2.sh
onstat -l              => TO Check
onmode -l
onmode –c
onstat -l

. ./switch_rataktp4.sh
onstat -l              => TO Check
onmode -l
onmode –c
onstat -l

. ./switch_ratcalp2.sh
onstat -l              => TO Check
onmode -l
onmode –c
onstat -l

. ./switch_rataktp6.sh
onstat -l              => TO Check
onmode -l
onmode –c
onstat -l
```

4) DBA team to start monitoring from Database side .

```
cd /opt/informix/ifxmonitor/scripts
informix@adetrmas:/opt/informix/ifxmonitor/scripts> vi /opt/informix/ifxmonitor/scripts/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
```

Start DBA Monitoring

```
nohup /opt/informix/ifxmonitor/scripts/ifxmonitor.sh 2>/dev/null >/dev/null &
```

5) Start the crons on ADETRMBS
Uncomment crons : Only remove first # from the file .

6) Start the instances on adevas3s

on adevas3s

ifx_tst
adevas3s

. ./switch_adevas3s_64.sh

oninit -v

. ./switch_ifx_tst.sh

oninit -v