

Informix Failover-Failback Plan

1. Pre-requisite

a. Copy switch, stop & start files

1a. Switch files:

```
ls -l switch_ratakt1_vm.sh switch_ratakt2_vm.sh switch_ratakt4_vm.sh switch_ratcalp2_vm.sh  
ls -l switch_ratakt1-12.10.sh switch_ratakt2-12.10.sh switch_ratakt4-12.10.sh switch_ratcalp2-12.10.sh
```

Check:

```
cat switch_ratakt1_vm.sh | grep "INFORMIX"  
cat switch_ratakt2_vm.sh | grep "INFORMIX"  
cat switch_ratakt4_vm.sh | grep "INFORMIX"  
cat switch_ratcalp2_vm.sh | grep "INFORMIX"
```

1b. Stop Files:

```
ls -l stop_ratakt1.sh stop_ratakt2.sh stop_ratakt4.sh stop_ratcalp2.sh  
ls -l stop_ratakt1.sh.12.10 stop_ratakt2.sh.12.10 stop_ratakt4.sh.12.10 stop_ratcalp2.sh.12.10
```

Check:

```
cat stop_ratakt1.sh | grep "INFORMIX"  
cat stop_ratakt2.sh | grep "INFORMIX"  
cat stop_ratakt4.sh | grep "INFORMIX"  
cat stop_ratcalp2.sh | grep "INFORMIX"
```

1c. Start Files:

```
ls -l start_ratakt1.sh start_ratakt2.sh start_ratakt4.sh start_ratcalp2.sh  
ls -l start_ratakt1.sh.12.10 start_ratakt2.sh.12.10 start_ratakt4.sh.12.10 start_ratcalp2.sh.12.10
```

Check:

```
cat start_ratakt1.sh | grep "INFORMIX"  
cat start_ratakt2.sh | grep "INFORMIX"  
cat start_ratakt4.sh | grep "INFORMIX"  
cat start_ratcalp2.sh | grep "INFORMIX"
```

b. Backup related files :

```
ls -la /opt/informix/.setenv_LegatoBackup
```

```
cd /opt/informix/IDS/14.10/scripts  
ls -l level0_ratakt1.sh level0_ratakt2.sh level0_ratakt4.sh level0_ratcalp2.sh
```

Check :

```
cat level0_ratakt1.sh | grep "INFORMIX"  
cat level0_ratakt2.sh | grep "INFORMIX"  
cat level0_ratakt4.sh | grep "INFORMIX"  
cat level0_ratcalp2.sh | grep "INFORMIX"
```

c. onconf_ratakt1_vm and all other configuration files.

```
cd /opt/informix/IDS/14.10/etc  
ls -l onconf.if_ratcalp2 onconf.if_ratakt1 onconf.if_ratakt2 onconf.if_ratakt4
```

d. sqlhosts

```
cd /opt/informix/IDS/14.10/etc  
ls -l sqlhosts alarmprogram.sh
```

2a. Stop Application

2b. stop test instance adetrtest

2c. 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

3. Take level 0 backup

Switch to each instance before taking backup (do it one by one)

3a. Switch to instance ratakt1_vm like below:

```
informix@adetrddb1:/opt/informix> aa
. ./switch_ratakt1_vm.sh == ratakt1 PROD INSTANCE
. ./switch_ratakt2_vm.sh == ratakt2 PROD INSTANCE
. ./switch_ratakt4_vm.sh == ratakt4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrddb1:/opt/informix>
informix@adetrddb1:/opt/informix>
informix@adetrddb1:/opt/informix> . ./switch_ratakt1_vm.sh
informix@adetrddb1:/opt/informix> ss
ratakt1_vm
informix@adetrddb1:/opt/informix> █
```

onbar -b -L 0 =====> do this ratakt1_vm

3b. Switch to instance ratakt2_vm like below:

```
informix@adetrddb1:/opt/informix> aa
. ./switch_ratakt1_vm.sh == ratakt1 PROD INSTANCE
. ./switch_ratakt2_vm.sh == ratakt2 PROD INSTANCE
. ./switch_ratakt4_vm.sh == ratakt4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrddb1:/opt/informix> . ./switch_ratakt2_vm.sh
informix@adetrddb1:/opt/informix> ss
ratakt2_vm
informix@adetrddb1:/opt/informix> █
```

onbar -b -L 0 =====> do this ratakt2_vm

3c. Switch to instance ratakt4_vm like below:

```
informix@adetrddb1:/opt/informix> aa
. ./switch_ratakt1_vm.sh == ratakt1 PROD INSTANCE
. ./switch_ratakt2_vm.sh == ratakt2 PROD INSTANCE
. ./switch_ratakt4_vm.sh == ratakt4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrddb1:/opt/informix> . ./switch_ratakt4_vm.sh
informix@adetrddb1:/opt/informix> ss
ratakt4_vm
informix@adetrddb1:/opt/informix> █
```

onbar -b -L 0 =====> do this ratakt4_vm

3d. Switch to instance ratcalp2_vm like below:

```
informix@adetrddb1:/opt/informix> aa
. ./switch_ratakt1_vm.sh == ratakt1 PROD INSTANCE
. ./switch_ratakt2_vm.sh == ratakt2 PROD INSTANCE
. ./switch_ratakt4_vm.sh == ratakt4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrddb1:/opt/informix> . ./switch_ratcalp2_vm.sh
informix@adetrddb1:/opt/informix> ss
ratcalp2_vm
informix@adetrddb1:/opt/informix> █
```

onbar -b -L 0 =====> do this ratcalp2_vm

4a. Stop Informix Instances

Switch to every instance and stop the instance:

4a1. Switch to instance ratakt1_vm like below:

```
informix@adetrddb1:/opt/informix> aa
. ./switch_ratakt1_vm.sh == ratakt1 PROD INSTANCE
. ./switch_ratakt2_vm.sh == ratakt2 PROD INSTANCE
. ./switch_ratakt4_vm.sh == ratakt4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrddb1:/opt/informix>
informix@adetrddb1:/opt/informix>
informix@adetrddb1:/opt/informix> . ./switch_ratakt1_vm.sh
informix@adetrddb1:/opt/informix> ss
ratakt1_vm
informix@adetrddb1:/opt/informix> █
```

. ./stop_ratakt4.sh

3b. Switch to instance ratakt2_vm like below:

```
informix@adetrddb1:/opt/informix> aa
. ./switch_ratakt1_vm.sh == ratakt1 PROD INSTANCE
. ./switch_ratakt2_vm.sh == ratakt2 PROD INSTANCE
. ./switch_ratakt4_vm.sh == ratakt4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrddb1:/opt/informix> . ./switch_ratakt2_vm.sh
informix@adetrddb1:/opt/informix> ss
ratakt2_vm
informix@adetrddb1:/opt/informix> █
```

. ./stop_ratakt2.sh

3c. Switch to instance ratakt4_vm like below:

```
informix@adetrddb1:/opt/informix> aa
. ./switch_ratakt1_vm.sh == ratakt1 PROD INSTANCE
. ./switch_ratakt2_vm.sh == ratakt2 PROD INSTANCE
. ./switch_ratakt4_vm.sh == ratakt4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrddb1:/opt/informix> . ./switch_ratakt4_vm.sh
informix@adetrddb1:/opt/informix> ss
ratakt4_vm
informix@adetrddb1:/opt/informix> █
```

. ./stop_ratcalp2.sh

3d. Switch to instance ratcalp2_vm like below:

```
informix@adetrddb1:/opt/informix> aa
. ./switch_ratakt1_vm.sh == ratakt1 PROD INSTANCE
. ./switch_ratakt2_vm.sh == ratakt2 PROD INSTANCE
. ./switch_ratakt4_vm.sh == ratakt4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrddb1:/opt/informix> . ./switch_ratcalp2_vm.sh
informix@adetrddb1:/opt/informix> ss
ratcalp2_vm
informix@adetrddb1:/opt/informix> █
```

./stop_ratakt1.sh

4b. Enable & Disable cronjobs

On adetrddb1 comment all required crons
On adetrddb2 uncomment all required crons

Example: Crons running on adetrddb1 (as on date : 19.08.2023)

```
0 4 *** /opt/informix/IDS/14.10/scripts/level0_ratakt2.sh >/opt/informix/IDS/14.10/scripts/level0_akt2_cron.log 2>&1
15 4 *** /opt/informix/IDS/14.10/scripts/level0_ratakt1.sh >/opt/informix/IDS/14.10/scripts/level0_akt1_cron.log 2>&1
30 4 *** /opt/informix/IDS/14.10/scripts/level0_ratakt4.sh >/opt/informix/IDS/14.10/scripts/level0_akt4_cron.log 2>&1
45 4 *** /opt/informix/IDS/14.10/scripts/level0_ratcalp2.sh >/opt/informix/IDS/14.10/scripts/level0_calp2_cron.log 2>&1

05 0 *** /opt/informix/ifxmonitor/scripts/ifxmonitor.sh >> /opt/informix/ifxmonitor/files/ifxmonitor.log 2>&1
0 8,11,15 *** /opt/informix/ifxmonitor/scripts/SendMailIfxmonitor.sh 2>&1 >/dev/null
12 9 * * 1 /opt/informix/ifxmonitor/scripts/table_data_growth_report.sh >> /opt/informix/ifxmonitor/files/table_data_growth_report.log 2>&1

0 5 * * 1-6 /opt/informix/finchen/finchen_ratakt1_low.sh >/opt/informix/finchen/finchen_ratakt1_low.log 2>&1
0 5 * * 0 /opt/informix/finchen/finchen_ratakt1_high.sh >/opt/informix/finchen/finchen_ratakt1_high.log 2>&1
15 5 * * 1-6 /opt/informix/finchen/finchen_ratakt2_low.sh >/opt/informix/finchen/finchen_ratakt2_low.log 2>&1
15 5 * * 0 /opt/informix/finchen/finchen_ratakt2_high.sh >/opt/informix/finchen/finchen_ratakt2_high.log 2>&1
30 5 * * 1-6 /opt/informix/finchen/finchen_ratakt4_low.sh >/opt/informix/finchen/finchen_ratakt4_low.log 2>&1
30 5 * * 0 /opt/informix/finchen/finchen_ratakt4_high.sh >/opt/informix/finchen/finchen_ratakt4_high.log 2>&1
45 5 * * 1-6 /opt/informix/finchen/finchen_ratcalp2_low.sh >/opt/informix/finchen/finchen_ratcalp2_low.log 2>&1
45 5 * * 0 /opt/informix/finchen/finchen_ratcalp2_high.sh >/opt/informix/finchen/finchen_ratcalp2_high.log 2>&1

0 8,12,17 *** /opt/informix/ifxmonitor/scripts/managment_report.sh > /opt/informix/ifxmonitor/scripts/managment_report.log 2>&1
```

5. Copy on-line logs:

```
cd /opt/informix/IDS/14.10/tmp
scp online.log.ratakt1_vm informix@adetrddb2:/opt/informix/IDS/14.10/tmp
scp online.log.ratakt2_vm informix@adetrddb2:/opt/informix/IDS/14.10/tmp
scp online.log.ratakt4_vm informix@adetrddb2:/opt/informix/IDS/14.10/tmp
scp online.log.ratcalp2_vm informix@adetrddb2:/opt/informix/IDS/14.10/tmp

scp online.con.ratakt1_vm informix@adetrddb2:/opt/informix/IDS/14.10/tmp
scp online.con.ratakt2_vm informix@adetrddb2:/opt/informix/IDS/14.10/tmp
scp online.con.ratakt4_vm informix@adetrddb2:/opt/informix/IDS/14.10/tmp
scp online.con.ratcalp2_vm informix@adetrddb2:/opt/informix/IDS/14.10/tmp
```

Check:

```
cd /opt/informix/IDS/14.10/tmp
ls -l online.log.ratakt1_vm online.log.ratakt2_vm online.log.ratakt4_vm online.log.ratcalp2_vm
ls -l online.con.ratakt1_vm online.con.ratakt2_vm online.con.ratakt4_vm online.con.ratcalp2_vm
```

6. Copy ixbar

```
cd /opt/informix/IDS/14.10/etc
scp ixbar.10 informix@adetrddb2:/opt/informix/IDS/14.10/etc
scp ixbar.20 informix@adetrddb2:/opt/informix/IDS/14.10/etc
scp ixbar.40 informix@adetrddb2:/opt/informix/IDS/14.10/etc
scp ixbar.50 informix@adetrddb2:/opt/informix/IDS/14.10/etc
```

```
ls -l ixbar.10 ixbar.20 ixbar.40 ixbar.50
```

7. Failover from UNIX team

8. Start Informix Instances

```
./start_ratakt1.sh
./start_ratakt2.sh
./start_ratakt4.sh
./start_ratcalp2.sh
```

9. Instance sanity.

```
onstat -
onstat -D
onstat -l
onstat -m
```

10. Application startup

11. Check backup of logical log working

12. Take level 0 backup

Switch to each instance before taking backup (do it one by one)

12a. Switch to instance ratakt1_vm like below:

```
informix@adetrddb1:/opt/informix> aa
. ./switch_ratakt1_vm.sh == ratakt1 PROD INSTANCE
. ./switch_ratakt2_vm.sh == ratakt2 PROD INSTANCE
. ./switch_ratakt4_vm.sh == ratakt4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrddb1:/opt/informix>
informix@adetrddb1:/opt/informix>
informix@adetrddb1:/opt/informix> . ./switch_ratakt1_vm.sh
informix@adetrddb1:/opt/informix> ss
ratakt1_vm
informix@adetrddb1:/opt/informix> █
```

onbar -b -L 0 =====> do this ratakt1_vm

12b. Switch to instance ratakt2_vm like below:

```
informix@adetrmdb1:/opt/informix> aa
. ./switch_ratakt1_vm.sh == ratakt1 PROD INSTANCE
. ./switch_ratakt2_vm.sh == ratakt2 PROD INSTANCE
. ./switch_ratakt4_vm.sh == ratakt4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrmdb1:/opt/informix> . ./switch_ratakt2_vm.sh
informix@adetrmdb1:/opt/informix> ss
ratakt2_vm
informix@adetrmdb1:/opt/informix> █
```

onbar -b -L 0 =====> do this ratakt2_vm

12c. Switch to instance ratakt4_vm like below:

```
informix@adetrmdb1:/opt/informix> aa
. ./switch_ratakt1_vm.sh == ratakt1 PROD INSTANCE
. ./switch_ratakt2_vm.sh == ratakt2 PROD INSTANCE
. ./switch_ratakt4_vm.sh == ratakt4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrmdb1:/opt/informix> . ./switch_ratakt4_vm.sh
informix@adetrmdb1:/opt/informix> ss
ratakt4_vm
informix@adetrmdb1:/opt/informix> █
```

onbar -b -L 0 =====> do this ratakt4_vm

12d. Switch to instance ratcalp2_vm like below:

```
informix@adetrmdb1:/opt/informix> aa
. ./switch_ratakt1_vm.sh == ratakt1 PROD INSTANCE
. ./switch_ratakt2_vm.sh == ratakt2 PROD INSTANCE
. ./switch_ratakt4_vm.sh == ratakt4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrmdb1:/opt/informix> . ./switch_ratcalp2_vm.sh
informix@adetrmdb1:/opt/informix> ss
ratcalp2_vm
informix@adetrmdb1:/opt/informix> █
```

onbar -b -L 0 =====> do this ratcalp2_vm

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