Informix Instance Creation

For Creating/setup the new the Instance in Informix, we need to follow below steps:

Step1: We require to login as an INFORMIX user to setup the new instance.

Login as: **informix**

Step2: Before Initialization of the Instance, we have to setup the environment files:

1. Start file: start_prodtest_vm.sh

```
#!/usr/bin/ksh
INFORMIXDIR=/opt/informix/IDS/14.10
INFORMIXSERVER=prodtest_vm
ONCONFIG=onconf.if_prodtest_vm
LD_LIBRARY_PATH=$INFORMIXDIR/lib:$INFORMIXDIR/lib/esql
PATH=/opt/networker/bin:$INFORMIXDIR/bin:/opt/networker/bin:/usr/bin:/bin:/usr/sbin:/usr/ucb

export INFORMIXDIR INFORMIXSERVER ONCONFIG PATH

#
# Source Legato Networker Environment
#
. ${HOME}/.setenv_LegatoBackup

$INFORMIXDIR/bin/oninit -v

exit
```

2. Stop file: stop_prodtest_vm.sh

```
#!/usr/bin/ksh
INFORMIXDIR=/opt/informix/IDS/14.10
INFORMIXSERVER=prodtest_vm
ONCONFIG=onconf.if_prodtest_vm
LD_LIBRARY_PATH=$INFORMIXDIR/lib:$INFORMIXDIR/lib/esql
PATH=/opt/networker/bin:$INFORMIXDIR/bin:/opt/networker/bin:/usr/bin:/bin:/usr/sbin:/usr/ucb

export INFORMIXDIR INFORMIXSERVER ONCONFIG PATH

#
# Source Legato Networker Environment
#
. ${HOME}/.setenv_LegatoBackup

$INFORMIXDIR/bin/onmode -ky

exit
```

3. Switch file: switch_prodtest_vm.sh

```
#!/usr/bin/ksh
INFORMIXDIR=/opt/informix/IDS/14.10
LD_LIBRARY_PATH=$INFORMIXDIR/lib:$INFORMIXDIR/lib/esql
INFORMIXSERVER=prodtest_vm
ONCONFIG=onconf.if_prodtest_vm

PATH=/opt/networker/bin:$INFORMIXDIR/bin:/opt/networker/bin:/usr/bin:/bin:/usr/sbin:/usr/ucb

#PATH=${INFORMIXDIR}/bin:${PATH}

export INFORMIXDIR INFORMIXSERVER ONCONFIG PATH LD_LIBRARY_PATH

#
# Source Legato Networker Environment
#
. ${HOME}/.setenv_LegatoBackup

#onmode -cache surrogates
```

4. ONCONFIG file: onconf.if_prodtest_vm

```
cd $INFORMIXDIR
cd /opt/informix/IDS/14.10/etc
vi onconf.if_prodtest_vm (and modify below configuration parameters)
```

cd /opt/informix/IDS/14.10/etc

ROOTPATH /opt/informix/rdsk/adetrtest/rinformix01
MSGPATH $INFORMIXDIR/tmp/online.log.prodtest_vm
TAPEDEV /opt/informix/backup/adetrtest/ttapedev
LTAPEDEV /opt/informix/backup/adetrtest/ltapedev
DBSERVERNAME prodtest_vm
LOGFILES 5

NOTE: At starting we have to make LOGFILES as 5.
         That 5 will use rootdbs & It's not recommendable so that we have to remove after instance startup.
         We need to create other logical logs after successful initialization of Instance.

5. Sqlhosts file: sqlhosts

cd $INFORMIXDIR
cd /opt/informix/IDS/14.10/etc
We have to add below line at the end of sqlhosts file:

prodtest_vm ontlitcp   adetrmdb1.dc-ratingen.de   informix-tli7

Step3: Initialize the instance:

. ./switch_prodtest_vm.sh
onstat -
oninit -i

If we see the MODE =5 --> Means our instance got created

Check the Status of Instance & Message log after Initialization:
onstat -
onstat -m

Step4: Create the Dbspaces in newly created instance:

Command to create the Dbspaces:

onspaces-c -d datadbs1 -p /opt/informix/rdsk/adetrtest/rinformix04 -o 0 -k 6 -s 2048000

```
informix@adetrmdb1:/opt/informix> onstat -d

IBM Informix Dynamic Server Version 14.10.FC8WE -- On-Line -- Up 19:15:41 -- 1121280 Kbytes
2024-05-24 10:00:52

Dbspaces
address         number  flags    fchunk  nchunks pgsize  flags   owner    name
10f701028       1       0x20001  1       1       2048    N  BA   informix rootdbs
110d71db8       2       0x20001  2       1       6144    N  BA   informix datadbs1
1111f8b88       3       0x20001  3       1       8192    N  BA   informix datadbs2
110dc9d50       4       0x20001  4       1       2048    N  BA   informix logdbs
1115d26b0       5       0x2001   5       1       2048    N  TBA  informix tempdbs
1115d2de0       6       0x20011  6       1       32768   N  BBA  informix blobdbs
 6 active, 2047 maximum

Note: For BLOB chunks, the number of free pages shown is out of date.
      Run 'onstat -d update' for current stats.

Chunks
address         chunk/dbs       offset    size      free      bpages    flags pathname
10f701268       1       1       0         1500000   1240041             PO-B-- /opt/informix/rdsk/adetrtest/rinformix03
1111f8028       2       2       0         600000    599947              PO-B-- /opt/informix/rdsk/adetrtest/rinformix04
110dc9028       3       3       0         500000    499947              PO-B-- /opt/informix/rdsk/adetrtest/rinformix05
110dc2028       4       4       0         1024000   868947              PO-B-- /opt/informix/rdsk/adetrtest/rinformix06
110f6c028       5       5       0         1024000   1023947             PO-B-- /opt/informix/rdsk/adetrtest/rinformix08
110ff8028       6       6       0         1600000   ~99975    100000    POBB-- /opt/informix/rdsk/adetrtest/rinformix02
 6 active, 32766 maximum

NOTE: The values in the "size" and "free" columns for DBspace chunks are
      displayed in terms of "pgsize" of the DBspace to which they belong.


Expanded chunk capacity mode: always
```

Step5: Create the logical logs:

Command to create the logical logs:

onparams -a -d logdbs -s 50000

We can create as many logs as possible based on our requirements with same command.

Also we have to delete the logs which are created in rootdbs:

1. Firstly, we can not drop the logs which are in use, so we have to move the logs:

   onmode -l
   onmode -c

2. Now we are good to drop first 5 logs which are created in rootdbs:

   Command to drop the logs:

   onparams –d –l 1 -y

Step6: Check the backup status:

We have to create the directories of TAPEDEV & LTAPEDEV as per config file:

TAPEDEV /opt/informix/backup/prodtest/ttapedev
LTAPEDEV /opt/informix/backup/prodtest/ltapedev

Step7: DB Import from PROD: