

The following tips will help you in monitoring sync between primary and standby databases.

1. Check for GAP on standby
2. Check redo received on standby
3. Check redo applied on standby

Solution:

Execute following queries:

A.On Primary

SQL>

```
SELECT THREAD# "Thread",SEQUENCE# "Last Sequence Generated"
FROM V$ARCHIVED_LOG
WHERE (THREAD#,FIRST_TIME ) IN (SELECT THREAD#,MAX(FIRST_TIME)
FROM V$ARCHIVED_LOG GROUP BY THREAD#)
ORDER BY 1;
```

Thread	Last Sequence Generated
1	19
2	13
3	11

B. On Physical Standby

SQL>

```
SELECT ARCH.THREAD# "Thread", ARCH.SEQUENCE# "Last Sequence Received",
APPL.SEQUENCE# "Last Sequence Applied", (ARCH.SEQUENCE# -
APPL.SEQUENCE#) "Difference"
FROM
(SELECT THREAD# ,SEQUENCE# FROM V$ARCHIVED_LOG WHERE
(THREAD#,FIRST_TIME ) IN (SELECT THREAD#,MAX(FIRST_TIME) FROM
V$ARCHIVED_LOG GROUP BY THREAD#)) ARCH,
(SELECT THREAD# ,SEQUENCE# FROM V$LOG_HISTORY WHERE
(THREAD#,FIRST_TIME ) IN (SELECT THREAD#,MAX(FIRST_TIME) FROM
V$LOG_HISTORY GROUP BY THREAD#)) APPL
WHERE
ARCH.THREAD# = APPL.THREAD#
```

ORDER BY 1;

Thread	Last Sequence Received	Last Sequence Applied	Difference
1	19	19	0
2	13	13	0
3	11	11	0

C. On Physical Standby

```
SQL> SELECT THREAD#, LOW_SEQUENCE#, HIGH_SEQUENCE# FROM  
V$ARCHIVE_GAP;
```

no rows selected

Now perform following checks:

1. Check for GAP

If query “C” returns any row then this means there are some archive log missing on standby.

Example:

```
SQL> SELECT THREAD#, LOW_SEQUENCE#, HIGH_SEQUENCE# FROM  
V$ARCHIVE_GAP;
```

Thread	Low Sequence	High Sequence
1	8	9

This example shows sequence 8 and 9 from thread 1 are missing on standby, Hence standby is not in sync with the primary.

If query “C” does not returns any row and output is “no row selected” than this means there is no archive gap on standby.

2. Check for redo received on standby

Compare value of “Last Sequence Generated” in query “A” with “Last Sequence

How to Check Whether Physical Standby is in Sync with the Primary or Not?

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Received” in query “B” for all threads.

If both values are same than this means that standby has received the last sequence generated on primary.

If both values are not same then there are some archives missing on standby, Hence standby is not in sync with the primary.