In an Oracle Data Guard environment, the **LNS (Log Network Server)** and **RFS (Remote File Server)** processes are responsible for shipping and receiving redo logs between the primary and standby databases.

**Checking the LNS and RFS Processes**

**1. Check Active Background Processes in the Database**

Run the following query to check the LNS and RFS processes on both the primary and standby databases:

SELECT SID, SERIAL#, PROCESS, STATUS, PROGRAM

FROM V$SESSION

WHERE PROGRAM LIKE '%LNS%'

OR PROGRAM LIKE '%RFS%';

* On the **primary database**, you should see **LNS** processes.
* On the **standby database**, you should see **RFS** processes.

**2. Check LNS Process Status on the Primary**

SELECT GROUP#, DEST\_ID, STATUS, ARCHIVED, TRANSMITTED, ERROR

FROM V$ARCHIVE\_DEST\_STATUS

WHERE STATUS = 'VALID';

* The **STATUS** column should show "VALID" if the LNS process is working properly.

**3. Check RFS Processes on the Standby**

SELECT DEST\_ID, STATUS, ERROR

FROM V$ARCHIVE\_DEST\_STATUS

WHERE STATUS = 'VALID';

* If **RFS** is running correctly, it should show a **VALID** status.

**4. Check Real-Time Apply Status on the Standby**

SELECT PROCESS, STATUS, THREAD#, SEQUENCE#

FROM V$MANAGED\_STANDBY

WHERE PROCESS IN ('RFS', 'MRP0');

* **RFS** should be running and receiving logs.
* **MRP0** (Managed Recovery Process) should be running if redo apply is active.

**5. Check Log Transport Status on the Primary**

SELECT DEST\_ID, STATUS, ERROR

FROM V$ARCHIVE\_DEST;

* If there are errors, they will be displayed in the **ERROR** column.

**6. Check Alert Logs for Errors**

On both primary and standby, check the alert log for errors related to LNS and RFS:

tail -100f alert\_<SID>.log

**7. Check Processes at OS Level**

On **primary**, check for LNS processes:

ps -ef | grep ora\_lns

On **standby**, check for RFS processes:

ps -ef | grep ora\_rfs

**Common Issues and Fixes**

| **Issue** | **Possible Fix** |
| --- | --- |
| LNS is not running | Check log archive destinations and redo transport settings. |
| RFS is not running | Verify the standby listener and redo apply settings. |
| Logs not shipping | Check V$ARCHIVE\_DEST and V$ARCHIVE\_DEST\_STATUS for errors. |
| Logs received but not applied | Ensure MRP0 is running (V$MANAGED\_STANDBY). |

Would you like help troubleshooting a specific issue? 🚀