**7. What is the process to apply a psu patch in data guard setup.**

* Make sure lag between primary and standby is zero.
* Cancel the recovery (MRP) on standby.
* Shutdown standby db and listener.
* Apply patch to  the standby database oracle home binary using opatch apply command.
* Once patch applied to binary , startup the listener and standby in mount stage or OPEN(if active dataguard).
* Now shutdown primary db and listener.
* Apply patch to primary database home binary using opatch apply command.
* Once patch applied to binary , startup open  the primary database and listener
* Start the MRP recovery process on standby .
* Run post patching script catbundle.sql(if 11g)  or datapatch -verbose command( if 12c) on primary database

For exact steps  – [How to apply patch in standby database](https://dbaclass.com/article/steps-apply-psu-patch-oracle-11g-database/)

>> For Apply database proactive bundle patch in RAC using manual process :

<https://dbaclass.com/article/apply-database-proactive-bundle-patch-in-rac-using-manual-process/>

>> Rollback database patch in oracle 12c

<https://dbaclass.com/article/rollback-database-patch-oracle-12c/>