

This Online Webinar is organized by Scholar IT Solutions

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AGENDA

- About Oracle Data Guard
- Oracle Data Guard configuration (Diagram)
- Oracle Data Guard – Log Apply
- Oracle Data Guard – SQL Apply (Diagram)
- Oracle Data Guard – Hands on

ORACLE DATAGUARD

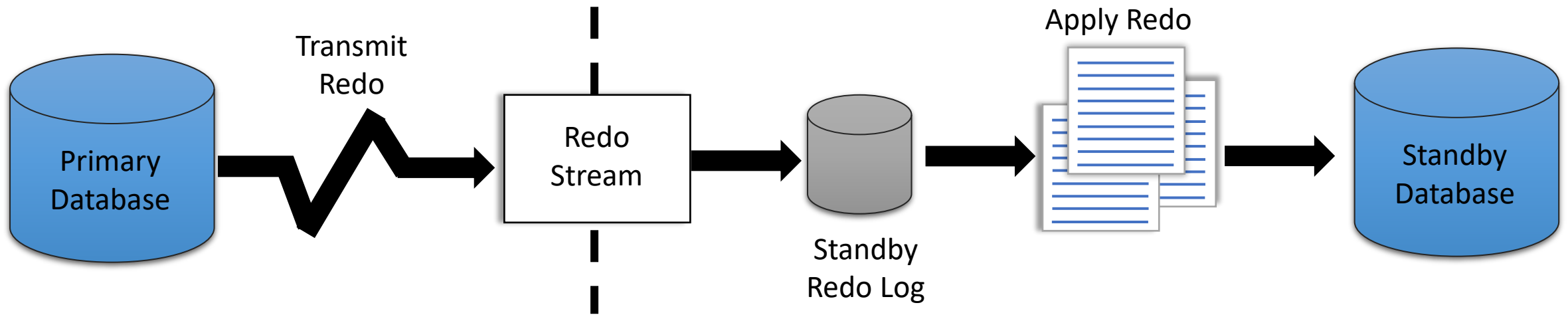
Oracle Data Guard ensures *high availability, data protection, and disaster recovery* for enterprise data.

Data Guard provides a comprehensive set of services that create, maintain, manage, and monitor one or more standby databases to enable production Oracle databases to *survive disasters and data corruptions*.

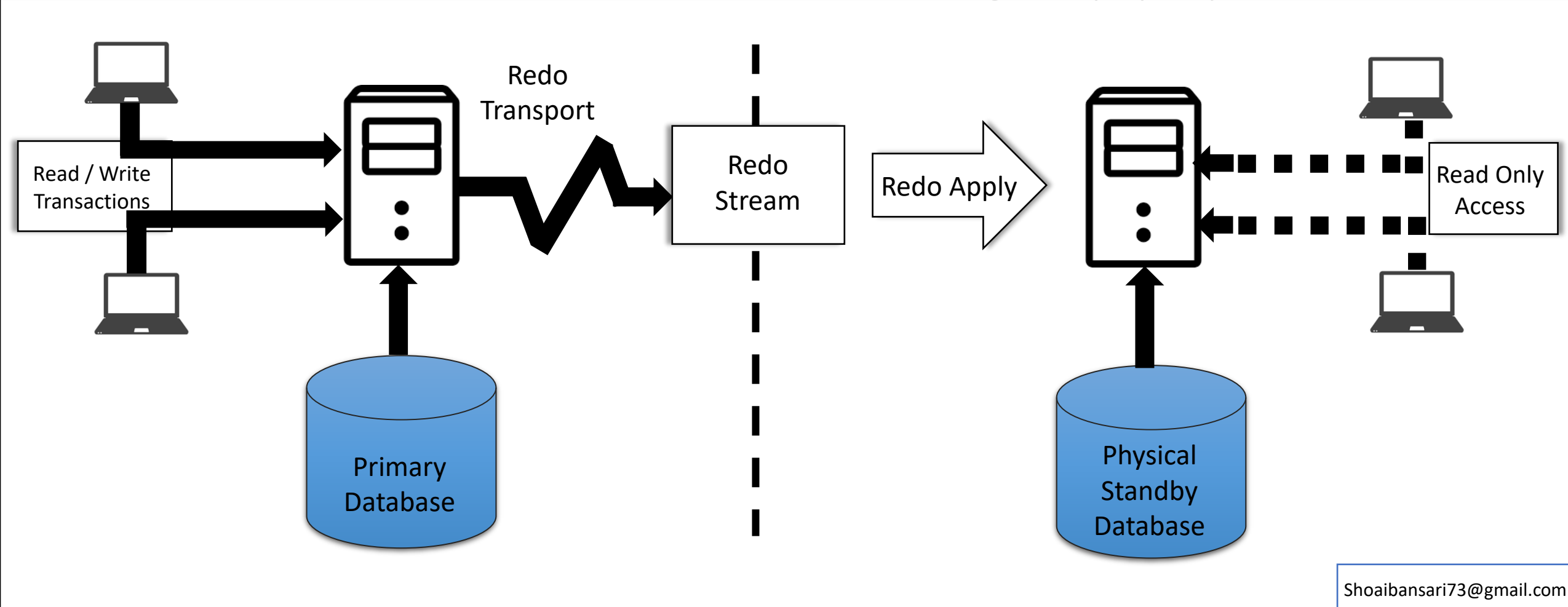
Data Guard maintains these standby databases as transactionally consistent copies of the production database. Then, if the production database becomes unavailable because of a planned or an unplanned outage, Data Guard can *switch any standby database to the production role*, minimizing the downtime associated with the outage.

With Data Guard, production database performance can be improved by offloading resource-intensive backup and reporting operations to standby systems.

ORACLE DATAGUARD - Config

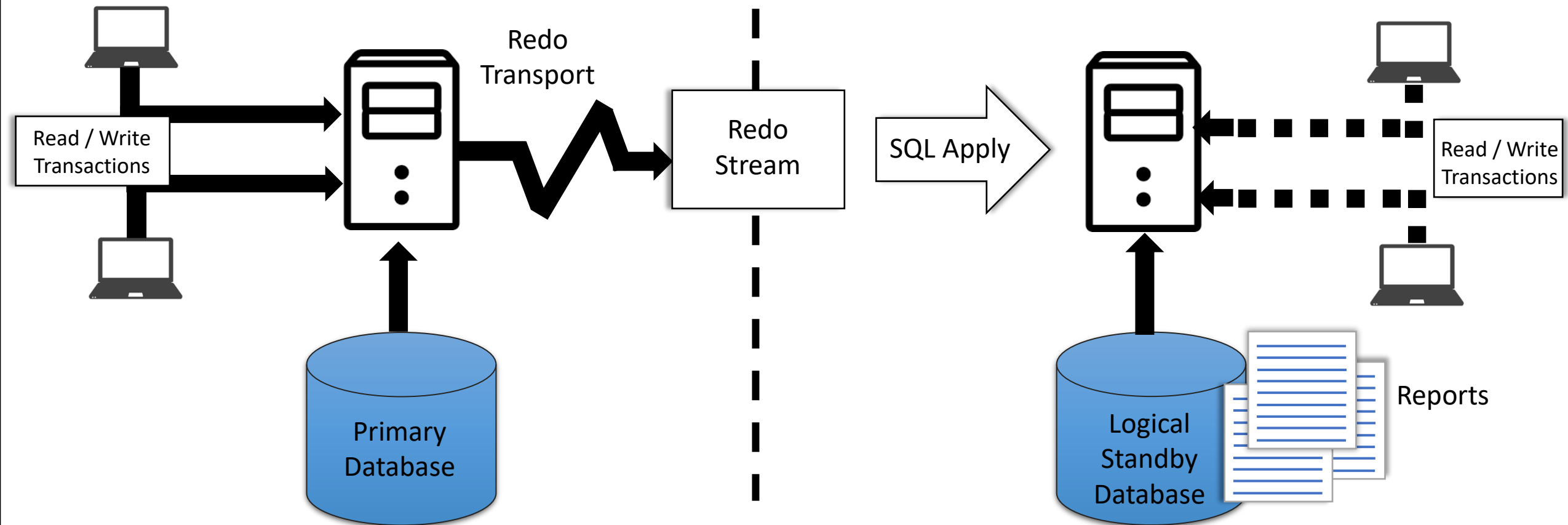


ORACLE DATAGUARD – Log Apply Service

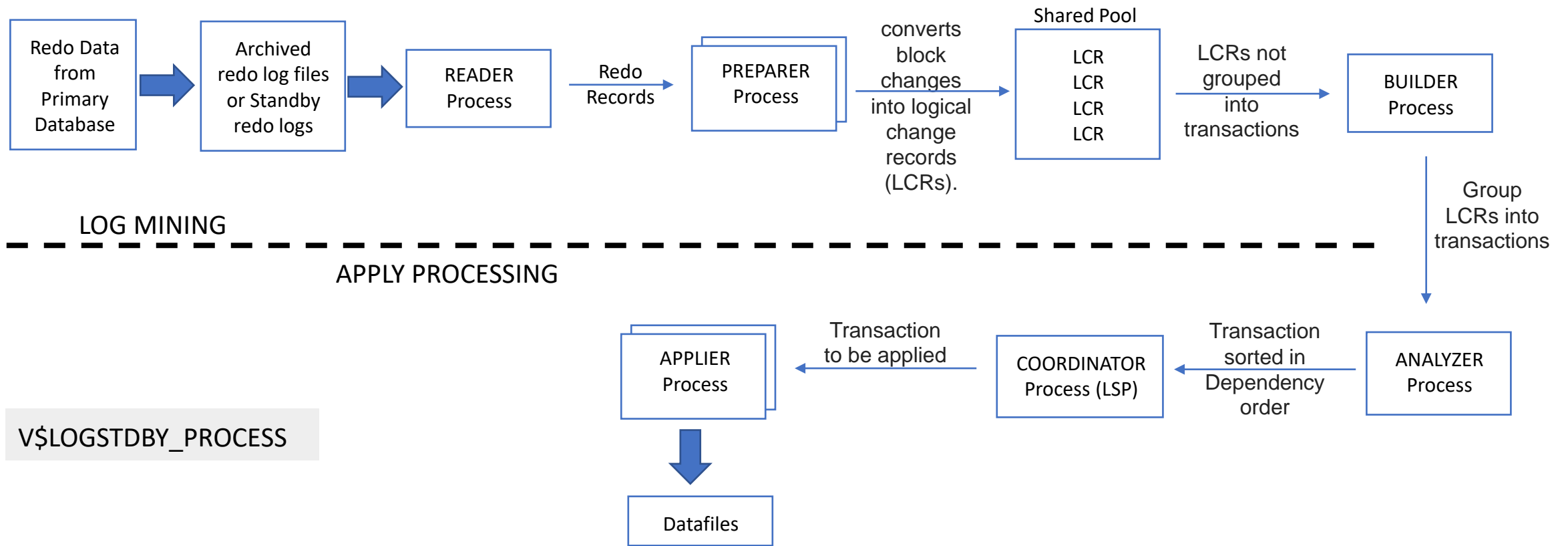


Shoibansari73@gmail.com

ORACLE DATAGUARD – Log Apply Service



ORACLE DATAGUARD – SQL Apply



Shoaibansari73@gmail.com

Data Guard Hands On

STEP 1	CHECK DB ARCHIVE LOG MODE	ARCHIVE LOG LIST
STEP 2	ENABLE FORCE LOGGING	ALTER DATABASE FORCE LOGGING; SELECT FORCE_LOGGING,LOG_MODE FROM V\$DATABASE;
STEP 3	ADD REDOLOGS FOR STANDBY	ALTER DATABASE ADD STANDBY LOGFILE GROUP 4 '/U01/APP/ORACLE/ORADATA/ORCL/REDO04.LOG' SIZE 200M; ALTER DATABASE ADD STANDBY LOGFILE GROUP 5 '/U01/APP/ORACLE/ORADATA/ORCL/REDO05.LOG' SIZE 200M; ALTER DATABASE ADD STANDBY LOGFILE GROUP 6 '/U01/APP/ORACLE/ORADATA/ORCL/REDO06.LOG' SIZE 200M; SELECT GROUP#,THREAD#,SEQUENCE#,ARCHIVED,STATUS FROM V\$STANDBY_LOG;
STEP 4	ADD TNS ENTRY	ORCL = (DESCRIPTION = (ADDRESS_LIST = (ADDRESS = (PROTOCOL = TCP)(HOST = SHOAIBMAC1)(PORT = 1524))) (CONNECT_DATA = (SERVICE_NAME = ORCL))) ORCLDR = (DESCRIPTION = (ADDRESS_LIST = (ADDRESS = (PROTOCOL = TCP)(HOST = SHOAIBMAC2)(PORT = 1524))) (CONNECT_DATA = (SERVICE_NAME = ORCLDR)))

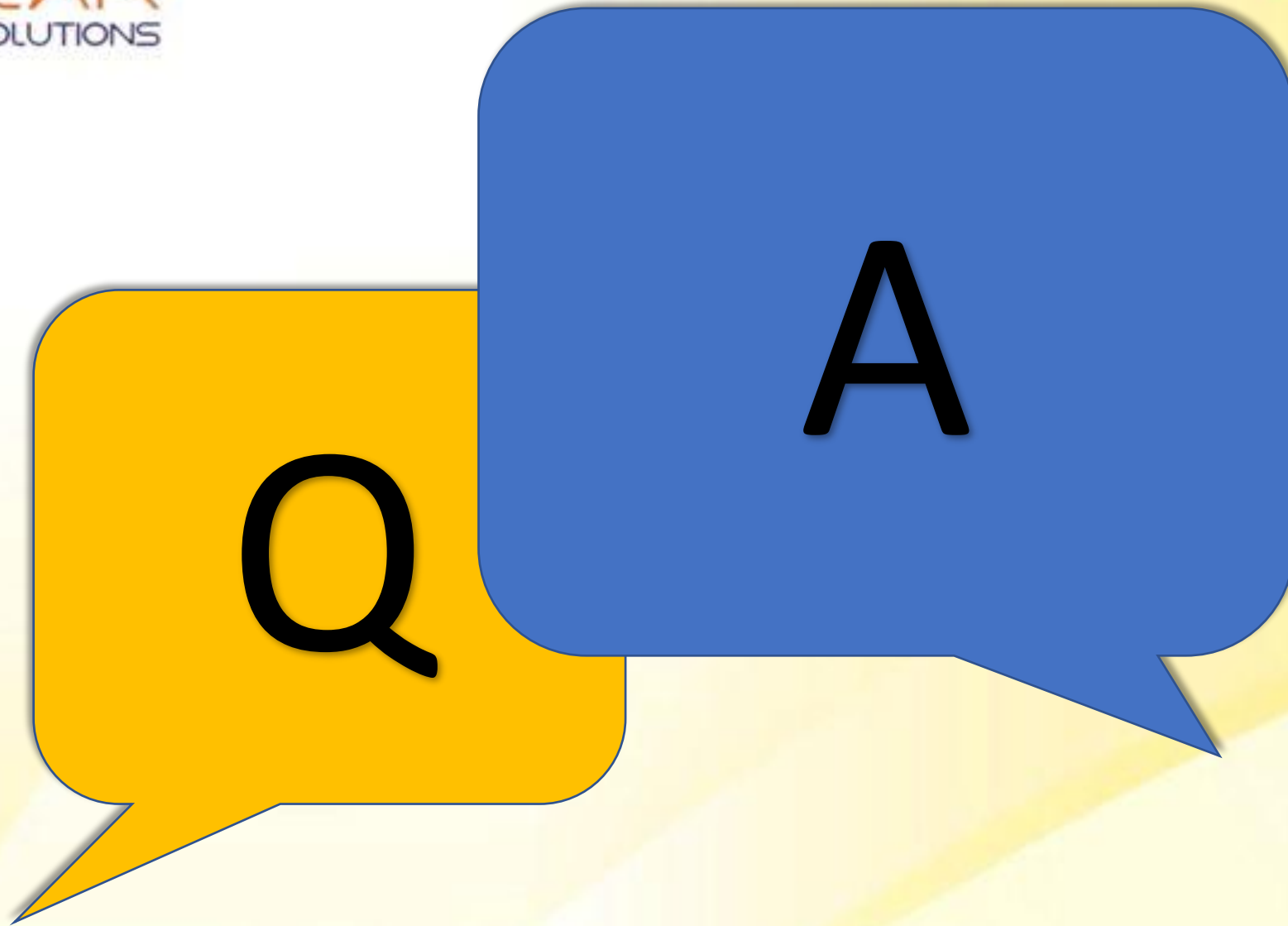
STEP 5	Add Listener Entry	<pre> LISTENER2 = (DESCRIPTION_LIST = (DESCRIPTION = (ADDRESS = (PROTOCOL = TCP)(HOST = shoaibmac2.localdomain)(PORT = 1524))) (DESCRIPTION = (ADDRESS = (PROTOCOL = IPC)(KEY = EXTPROC1524)))) SID_LIST_LISTENER2 = (SID_LIST = (SID_DESC = (GLOBAL_DBNAME = orcl) (ORACLE_HOME = /u01/app/oracle/product/12.2.0.1/db_1) (SID_NAME = orcl)) (SID_DESC = (GLOBAL_DBNAME = orclldr) (ORACLE_HOME = /u01/app/oracle/product/12.2.0.1/db_1) (SID_NAME = orclldr))) ADR_BASE_LISTENER2 = /u01/app/oracle </pre>
STEP 6	check ping	<pre> tnsping ORCL tnsping ORCLDR </pre>
STEP 7	Changing Primary Parameters	<pre> ALTER SYSTEM SET db_unique_name='orcl' SCOPE=SPFILE; ALTER SYSTEM SET log_archive_config='dg_config=(orcl,orclldr)' SCOPE=SPFILE; ALTER SYSTEM SET log_archive_dest_1='location=use_db_recovery_file_dest valid_for=(all_logfiles,all_roles) db_unique_name=orcl' SCOPE=SPFILE; ALTER SYSTEM SET log_archive_dest_2='service=orclldr async valid_for=(online_logfiles,primary_role) db_unique_name=orclldr' SCOPE=SPFILE; ALTER SYSTEM SET fal_server='orclldr' SCOPE=SPFILE; ALTER SYSTEM SET fal_client='orcl' SCOPE=SPFILE; ALTER SYSTEM SET standby_file_management='AUTO' SCOPE=SPFILE; ALTER SYSTEM SET db_file_name_convert='/u01/app/oracle/oradata/orclldr/datafile','/u01/app/oracle/oradata/orcl/datafile' SCOPE=SPFILE; ALTER SYSTEM SET log_file_name_convert='/u01/app/oracle/oradata/orclldr','/u01/app/oracle/oradata/orcl' SCOPE=SPFILE; </pre>

STEP 8	SCP Password File	<code>scp /u01/app/oracle/product/12.2.0.1/db_1/dbs/orapworcl oracle@192.168.56.102:/u01/app/oracle/product/12.2.0.1/db_1/dbs/orapworcl</code>
	SCP Tnsnames File	<code>scp /u01/app/oracle/product/12.2.0.1/db_1/network/admin/tnsnames.ora oracle@192.168.56.102:/u01/app/oracle/product/12.2.0.1/db_1/network/admin</code>
	SCP Listener File	<code>scp /u01/app/oracle/product/12.2.0.1/db_1/network/admin/listener.ora oracle@192.168.56.102:/u01/app/oracle/product/12.2.0.1/db_1/network/admin</code>
	SCP hosts file	<code>su -</code>
		<code>scp /etc/hosts root@192.168.56.102:/etc/hosts</code>
STEP 9	Standby PFILE <initstandby.ora>	<code>DB_NAME=orcl</code>
STEP 10	Create directory in standby	<code>mkdir -p /u01/app/oracle/admin/orcl/adump</code>
		<code>mkdir -p /u01/app/oracle/admin/orcl/dr/adump</code>
		<code>mkdir -p /u01/app/oracle/fast_recovery_area/orcl</code>
		<code>mkdir -p /u01/app/oracle/fast_recovery_area/orcl/dr</code>
		<code>mkdir -p /u01/app/oracle/oradata/orcl/</code>
		<code>mkdir -p /u01/app/oracle/oradata/orcl/dr/</code>

STEP 11	start stdby using pfile	<pre>export ORACLE_SID=orcldr sqlplus / as sysdba startup pfile='/u01/app/oracle/product/12.2.0.1/db_1/dbs/initorcldr.ora' nomount</pre>
STEP 12	Check connectivity	<pre>sqlplus sys/oracle@ORCL as sysdba and sqlplus sys/oracle@ORCLDR as sysdba</pre>
STEP 13	DUPLICATE DB	<pre>rman target sys/oracle@ORCL auxiliary sys/oracle@ORCLDR run { allocate channel p1 type disk;allocate channel p2 type disk;allocate channel p3 type disk;allocate channel p4 type disk; allocate auxiliary channel s1 type disk; duplicate target database for standby from active database spfile parameter_value_convert 'orcl','orcldr' set db_name='orcl' set db_unique_name='orcldr' set db_file_name_convert='/u01/app/oracle/oradata/orcl/datafile/', '/u01/app/oracle/oradata/orcldr/datafile/' set log_file_name_convert='/u01/app/oracle/oradata/orcl/', '/u01/app/oracle/oradata/orcldr/' set control_files='/u01/app/oracle/oradata/orcldr/standby1.ctl' set log_archive_max_processes='5' set fal_client='orcldr' set fal_server='orcl' set standby_file_management='AUTO' set log_archive_config='dg_config=(orcl,orcldr)' set compatible='12.2.0.1.0' set memory_target='500m' nofilenamecheck; }</pre>

STEP 14	Start MRP on standby	alter database recover managed standby database using current logfile disconnect;
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STEP 15	Check DG status	SELECT sequence#, first_time, next_time, applied FROM v\$archived_log ORDER BY sequence#;
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THANKS !!