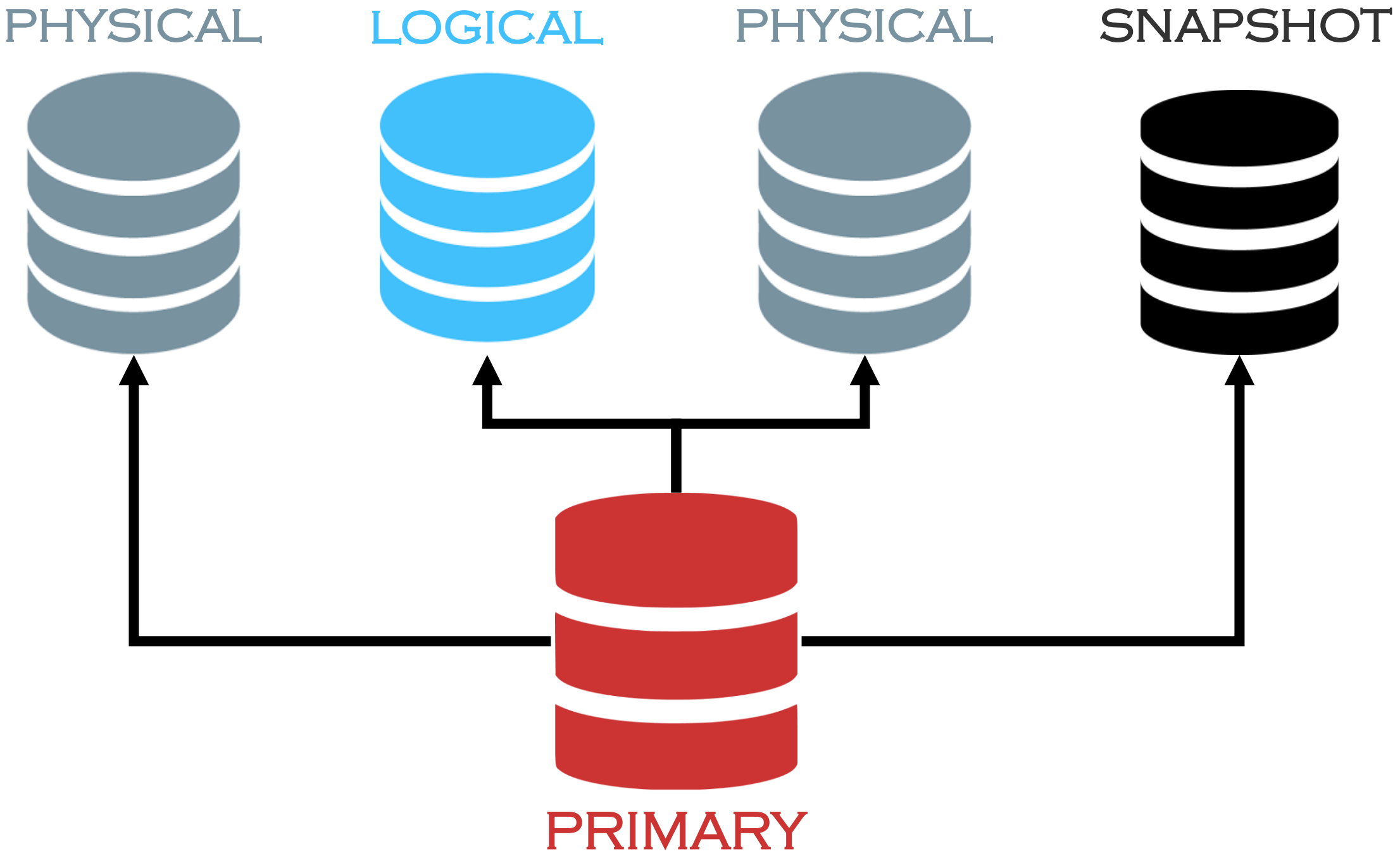
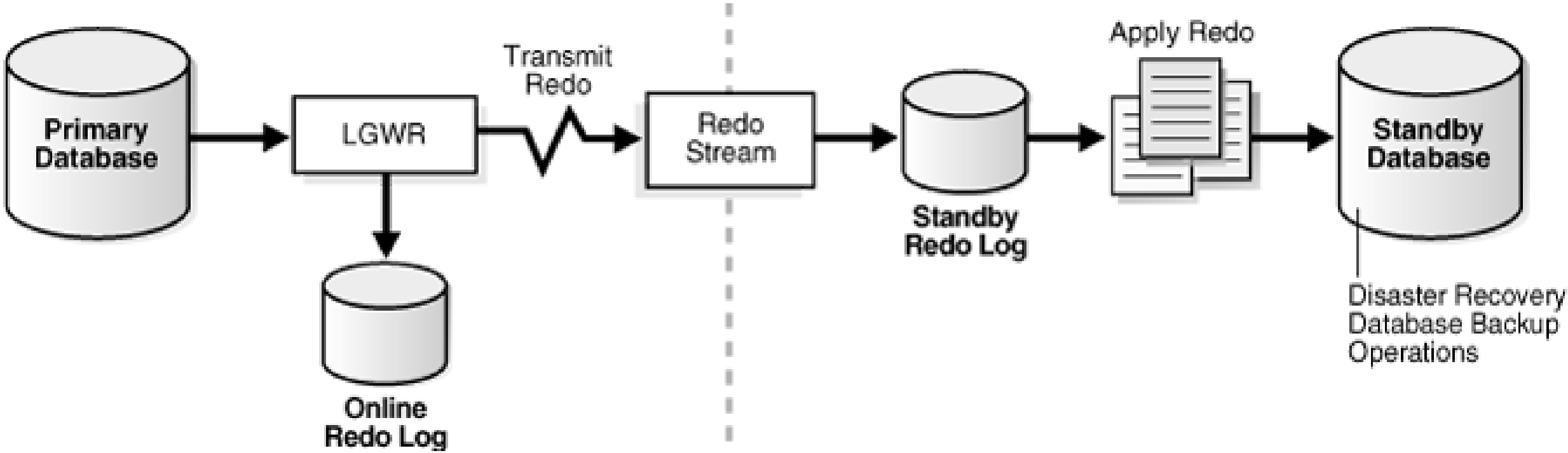
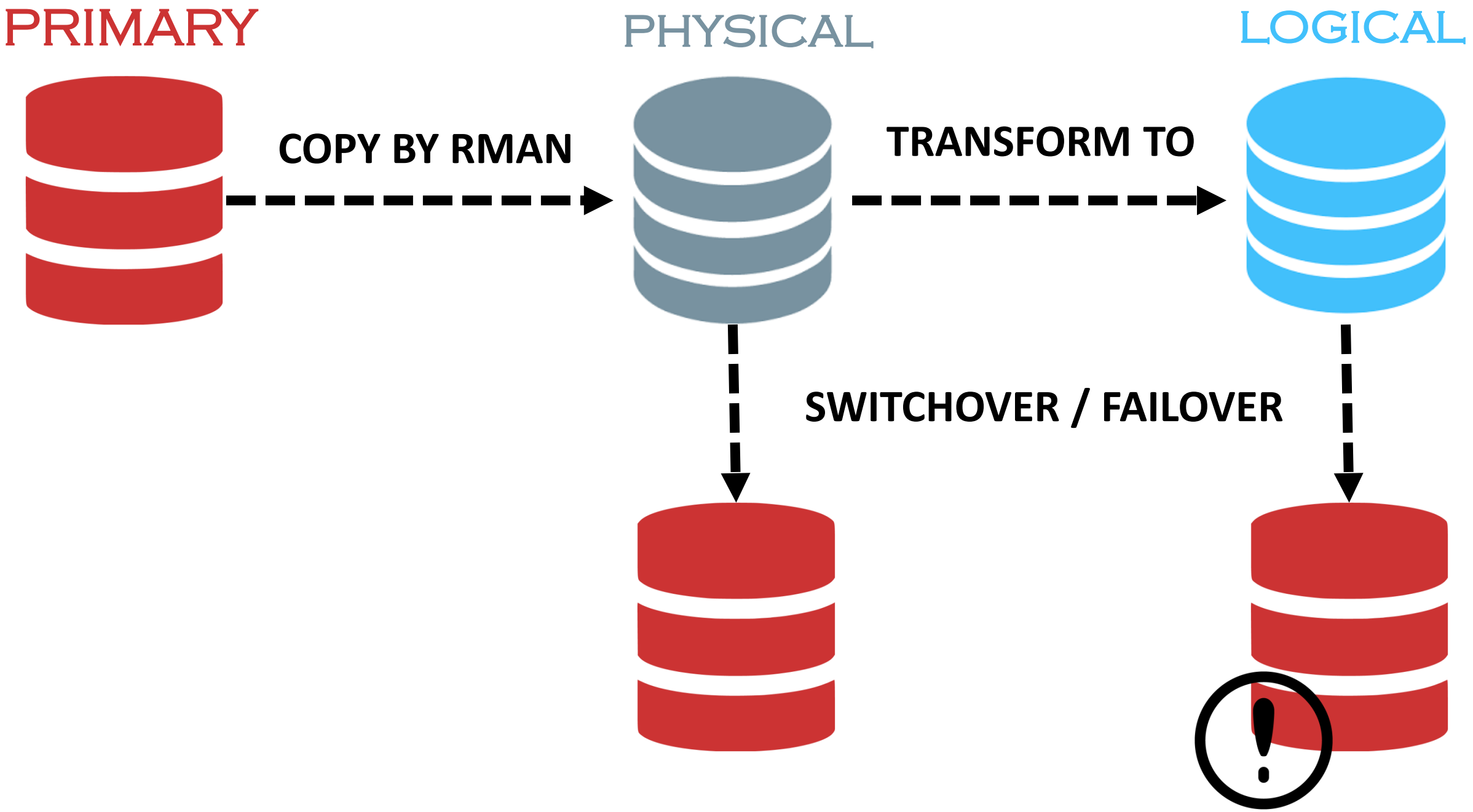
DATA GUARD

FAIL


PHYSICAL
LOGICAL
PHYSICAL
SNAPSHOT
PRIMARY


Primary Database
LGWR
Transmit Redo
Redo Stream
Standby Redo Log
Apply Redo
Standby Database
Online Redo Log
Disaster Recovery Database Backup Operations


PRIMARY
PHYSICAL
LOGICAL
COPY BY RMAN
TRANSFORM TO
SWITCHOVER / FAILOVER

Configure ODG: **PRIMARY** [PFILE]

LOG_ARCHIVE_DEST_1 = 'LOCATION=C:\oracle\primary\logs
VALID_FOR=(ALL_LOGFILES,ALL_ROLES)
DB_UNIQUE_NAME=primaryDB'

Configure ODG: **PRIMARY** [PFILE]

```
LOG_ARCHIVE_DEST_1 = 'LOCATION=C:\oracle\primary\logs
                      VALID_FOR=(ALL_LOGFILES,ALL_ROLES)
                      DB_UNIQUE_NAME=primaryDB'
LOG_ARCHIVE_DEST_2 = 'SERVICE=StandbyNetServiceName1 ASYNC
                      VALID_FOR=(ONLINE_LOGFILES,PRIMARY_ROLE)
                      DB_UNIQUE_NAME=StandbyDB1'
LOG_ARCHIVE_DEST_3 = 'SERVICE=StandbyNetServiceName2 ASYNC
                      VALID_FOR=(ONLINE_LOGFILES,PRIMARY_ROLE)
                      DB_UNIQUE_NAME=StandbyDB2'
```

Configure ODG: **STANDBY** [PFILE]

FAL_SERVER = PrimaryNetServiceName

Oracle Database Naming Principles

CONNECT
user/pwd
@NetServiceName

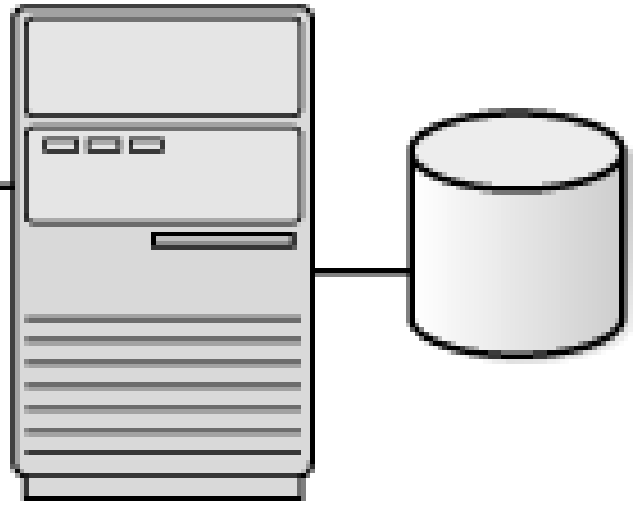
SERVICE_NAME

finance.us.example.com

Listener

INSTANCE

Database
Server



finance

Oracle Database Naming Principles

Net Service Name

=

Listener IP + Protocol + SERVICE_NAME

Registered in **tnsnames.ora**

What we need to restore ODG?

- **PFILE**s (for all databases)
- Network files: **tnsnames.ora, listener.ora** (for all hosts)
- Database **Role** -> **Host IP** or **DNS name**
- **Primary** or **Physical Standby** database **in backup**

  (+ Logical database**)**

Q&A