Bases de Datos de Contingencia
High Availability

DB Oracle

Instance

SERVER
DB
High Availability

DB Oracle

Instance

SERVER DB

RAID 5
parity across disks

RAID 1
mirroring

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High Availability

DB Oracle

Direct Attached Storage (DAS)
Network Attached Storage (NAS)
storage area network (SAN)

Instance 1
Instance 2
Instance ASM

NODE 1
NODE 2
High Availability

Primary Database

DB Oracle

Instance

SGA

Redo Log Buffer

DB buffer

Shared Pool

ARC

LGWR
High Availability

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<th>Name</th>
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DATA GUARD PROTECTION MODES

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<th>MODE</th>
<th>RISK OF DATA LOSS</th>
<th>TRANSPORT</th>
<th>IF NO ACKNOWLEDGEMENT FROM THE STANDBY DATABASE, THEN:</th>
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<td>Zero data loss</td>
<td>SYNC</td>
<td>Stall primary database until acknowledgement is received from the standby database</td>
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<td>Double failure protection</td>
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<tr>
<td>Maximum Availability</td>
<td>Zero data loss</td>
<td>SYNC</td>
<td>Stall primary database until acknowledgement is received or NET_TIMEOUT threshold period expires – then resume processing</td>
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<td>Single failure protection</td>
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<tr>
<td>Maximum Performance</td>
<td>Potential for</td>
<td>ASYNC</td>
<td>Primary never waits for standby acknowledgment</td>
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<td>minimal data loss</td>
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Mario Orlando Aldana Bernal
High Availability

Data Guard

Logical Standby

SQL Apply

Physical Standby

Redo Apply

SQL

Primary

Standby
High Availability

Standby databases can be used to:

- Queries and reports
- Testing
- Maintenance
- Rolling database upgrades
- Software Oracle
- Disaster protection (DRP)
- Service Level Agreements SLA
High Availability
High Availability

Gracias

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