

Database Recovery Tests with Oracle Streams

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Objectives

- Why?
 - Simulate real scenarios of failure at one or more sites
 - Actually perform tests so we know what to do
 - Document recovery so we all can share
 - Get a feel for time constraints, DBA effort
- What?
 - List scenarios of failure
 - Test scenarios between sites

Recovery Tests

- Scenario 1
 - Point-in-time recovery on the destination database
 - Simulates “crash” on destination
 - Could be lost file/disk
 - Will use previous backup (full or part) to get back to a point in time

Recovery Tests

- Scenario 2
 - Tier-1 database crashes and all data is lost
 - Simulates complete disaster
 - Related to scenario 1

Recovery Tests

- Scenario 3
 - Data was 'missed' between Tier-0 and Tier-1
 - Does not correspond with the Streams definition

Recovery Tests

- Scenario 4
 - Point-in-time recovery on the source database
 - Tier-0 database crashes and is restored to a point-in-time *before* destination (Tier-1) sites
 - Increased complexity

Recovery Tests

- Scenario 5
 - Point-in-time recovery on the source and on the destination databases
 - Same point-in-time
 - Simulates potential human error

Recovery Tests

- Scenario 6
 - Tablespace point-in-time recovery
 - Export object from source and import at destination
 - Streams propagation starts afterwards