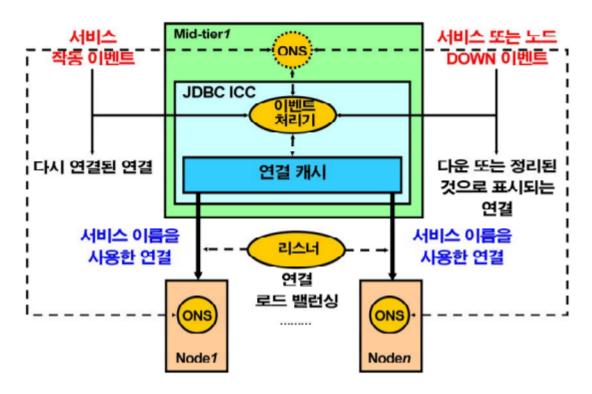
4 76. FAN (Fast Application Notification)

JDBC Fast Connection Failover: 개요



```
장애가 발생했다는 메세지와 load balancing 정보를 응용프로그램에 빨리 알려주는 기능

- 관련 데몬 프로세서: ons(oracle notification service)
- noti 하는 정보
    1. 장애가 발생했다는 정보
    2. load balancing 정보

오라클 클라이언트 -----> 미들 티어 -----> 오라클 db 서버
```

```
실습. fan 기능을 구현하기
1. oltp7 서비스를 만들고 시작시킨다.
(1번 노드)
srvctl add service -d racdb -s oltp7 -r racdb1,racdb2
srvctl start service -d racdb -s oltp7
2. sys 유저에서 oltp7 서비스를 modify 한다
(sql 1 sys)
exec dbms_service.modify_service ( -
  service_name =>'oltp7',
  aq_ha_notifications => true, -
  failover_method => dbms_service.failover_method_basic, -
 failover_type => dbms_service.failover_type_session, -
 failover_retries => 180, failover_delay => 5, -
 clb_goal => dbms_service.clb_goal_long );
3. ons 프로세서가 잘 떠 있는지 확인한다.
crs_stat -t
```

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```
[oracle@racdb1 ~]$ crs_stat -t
                                Target
Name
                                           State
                                                     Host
                Type
ora.CRS.dg
                ora....up.type ONLINE
                                           ONLINE
ora.DATA.dg
                                           ONLINE
                ora....up.type ONLINE
                                                      rac1
ora.FRA.dg
                                           ONLINE
               ora....up.type ONLINE
                                                      rac1
ora....ER.lsnr ora....er.type ONLINE
                                           OFFLINE
ora....N1.lsnr ora....er.type ONLINE
                                           ONLINE
                                                      rac1
               ora.asm.type
                                ONLINE
                                           ONLINE
ora.asm
                                                      rac1
ora.cvu
                ora.cvu.type
                                ONLINE
                                           ONLINE
                                                      rac1
                ora.gsd.type
ora.gsd
                                OFFLINE
                                           OFFLINE
ora....network ora....rk.type ONLINE
                                           ONLINE
                                                      rac1
                                           ONLINE
                ora.oc4j.type
ora.oc4j
                                ONLINE
                                                      rac1
                                ONLINE
                ora.ons.type
                                           ONLINE
ora.ons
                                                      rac1
ora....SM1.asm application
                                ONLINE
                                           ONLINE
                                                      rac1
ora....C1.lsnr application
                                ONLINE
                                           OFFLINE
ora.rac1.gsd application
                                OFFLINE
                                           OFFLINE
ora.rac1.ons
                                           ONLINE
               application
                                ONLINE
                                                      rac1
ora.rac1.vip ora....t1.type ONLINE
ora....SM2.asm application ONLINE
                                           ONLINE
                                                      rac1
                                           ONLINE
                                                      rac2
ora....C2.lsnr application
                                ONLINE
                                           OFFLINE
               application
ora.rac2.gsd
                                           OFFLINE
                                OFFLINE
ora.rac2.ons
               application
                                           ONLINE
                                ONLINE
                                                      rac2
ora.rac2.vip
ora.racdb.db
               ora....t1.type ONLINE
                                           ONLINE
                                                      rac2
                                           ONLINE
               ora....se.type ONLINE
                                                      rac1
ora....tp7.svc ora....ce.type ONLINE
                                           ONLINE
                                                      rac1
ora....er2.svc ora....ce.type ONLINE
                                           ONLINE
                                                      rac2
ora....lba.svc ora....ce.type ONLINE
                                           ONLINE
                                                      rac1
                                           ONLINE
ora....lba.svc ora....ce.type ONLINE
                                                      rac1
                                           ONLINE
ora....er2.svc ora....ce.type ONLINE
                                                      rac2
ora.scan1.vip ora.<u>.</u>..ip.type ONLINE
                                           ONLINE
                                                      rac1
```

```
[oracle@racdb1 ~]$ sqlplus scott/tiger@oltp7

SQL*Plus: Release 11.2.0.4.0 Production on Fri Apr 5 12:07:56 2024

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Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.4.0 - 64bit Province Partitioning, Real Application Clusters, Automatic Storage M. Data Mining and Real Application Testing options

oltp7(SCOTT) > ^C
```

```
5. 별도의 창을 열어서 sys 유저로 접속한 후 shutdown abort를 실행한다.
(sql 1 sys)
shutdown abort
- 시간이 지나고 실행한다.
```

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```
(sql 1 oltp7)
@i
```

```
oltp7(SCOTT) > @i
INSTANCE_NAME STATUS
-----racdb2 OPEN
```

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