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APPLIES TO:

Disaster Recovery on WINDOWS Platform

SUMMARY

This article explains how to configure the Disaster Recovery on WINDOWS Platform for the Production Environment.

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COMPANY:

WILLSYS INFOSYSTEMS Pvt. Ltd.,

CREATED ON:

6th February 2012.





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DISASTER RECOVERY

Primary database:

1. Create Control File which should be used to start the standby server SQL>alter database create standby control file as 'D:\standbyctl.dbf';

2. set up the parameters in "initPRD.ora"

LOG_ARCHIVE_DEST_1='LOCATION=D:\Oracle\PRD\OraArch MANDATORY REOPEN=30' LOG_ARCHIVE_DEST_2='SERVICE=STDBY LGWR ASYNC AFFIRM' LOG_ARCHIVE_DEST_STATE_1=enable LOG_ARCHIVE_DEST_STATE_2=enable LOG_ARCHIVE_FORMAT=arc%t_%s_%r.arc REMOTE ARCHIVE ENABLE=true

D:\oracle\PRD\102\database

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E core_prd_pid_3448_tid_x95C	1 KB	Text Document	11/29/2011 8:28 AM	A			
🖲 core_prd_pid_78116_tid_x13	1 KB	Text Document	12/6/2011 12:56 AM	A			
🖬 hc_prd.dat	2 KB	DAT File	11/29/2011 7:55 AM	A			
initPRD.1.ora	4 KB	ORA File	11/28/2011 7:04 PM	A			
initPRD.2.ora	5 KB	ORA File	11/28/2011 7:04 PM	A			
🖬 initPRD.dba	20 KB	DBA File	2/10/2005 10:07 AM				
initPRD.ora	2 KB	ORA File	12/5/2011 9:10 AM	A			
initPRD.ora.SAPINST-ORIG	5 KB	SAPINST-ORIG File	11/28/2011 7:04 PM				
📢 initPRD.sap	21 KB	SAP GUI Shortcut	12/5/2011 10:25 AM	A			
🔤 oradba.exe	107 KB	Application	6/25/2005 3:18 AM	A			
📃 oradim.log	1 KB	Text Document	12/5/2011 6:45 PM	А			
pwdPRD.ora	2 KB	ORA File	12/3/2011 12:20 PM	A			
SPFILEPRD.ORA	4 KB	ORA File	11/28/2011 10:59 PM	A			
🖲 sqinet.log	1 KB	Text Document	11/30/2011 7:54 AM	A			



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3. Rename the init file and spfile.create initfile with above parameters and recreate spfile. (so that new parameters will effective)

SQL>create spfile from pfile;



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initPRD.ora	2 KB	ORA File	12/11/2011 2:32 PM	A		
initPRD.ora.SAPINST-ORIG	5 KB	SAPINST-ORIG File	11/28/2011 7:04 PM			
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oradba.exe	107 KB	Application	6/25/2005 3:18 AM	A		
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SPFILEPRD.ORA_old	4 KB	ORA_OLD File	11/28/2011 10:59 PM	A		
🗐 sqinet.log	1 KB	Text Document	11/30/2011 7:54 AM	A		

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4. Entry into **tnsnames.ora** to identify the servicenames

STDBY.WORLD:	=			
(DESCRIPTION =				
	· _			
$(ADDRESS_LIST$	-			DT = 1521
(ADDRESS = (P)	ROTOCOL = TCP)(H)	1051 = WILLS	1 52)(PC	JRT = 1321))
)				
(CONNECT_DAT	$\Gamma A =$			
(SERVICE_NAM	ME = PRD			
)				
)				
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Check the ports in listener.ora file



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#######################################
Filename: listener.ora
Created: created by SAP AG, R/3 Rel. >= 6.10
Name
Date: # @(#) \$Id: //bc/700-1_REL/src/ins/SAPINST/impl/tpls/ora/ind/LISTENER.ORA#4 \$
ADMIN_RESTRICTIONS_LISTENER = on
LISTENER =
(ADDRESS_LIST_=
(ADDRESS =
(NET = FRD. WORLD)
(ADDRESS=
(PROTOCOL = IPC)
(KEY = PRD)
(AUDRESS = COMMUNITY = SAR WORLD)
(PRATICAL = TCP)
(HOST = willsvs3)
(PORT = 1521)
STARTOP_WAIT_TIME_LISTENER = 0
CUNNECT_TIMEOUT_LISTENER = TO
STD I ST I I ST ENER =
(SID_LIST =
(SID_DESC =
(SID_NAME = PRD)
(ORACLE_HOME = D:\oracle\PRD\102)
<u>ब</u>

Standby Server:

- 5. provide the following entries in standby server in initPRD.ora
- *.log_archive_dest_1='location=/oracle/PRD/oraarch/PRDarch'
- *.log_archive_dest_state_1=enable
- *.log_archive_format=arc%t_%s.arc
- *.service_names = stdby
- *.fal_server=PRD
- *.fal_client=stdby
- *.standby_archive_dest='/oracle/PRD/oraarch'
- *.standby_file_management=AUTO
- *.remote_archive_enable=true



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Move this file	initPRD.1.ora	4 KB	ORA File	12/10/2011 1:37 PM	A
	initPRD.2.ora	5 KB	ORA File	12/10/2011 1:37 PM	A
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<pre># db_block_lru_statistics = true</pre>	
# PARI III, SIAIIC PARAMEIERS ####################################	
#### DB-NAME	
db_name = PRD	
#### DB-BLOCKSIZE	
db_block_size = 8192	
#### DB-FILES	
#### OPTIMIZER MODE	
#optimizer	
#### PATHS / DESTINATIONS / TRACES	
# D:\oracle\PRD\saptrace\background: trace files of the background	
# processes	
# D:\oracle\PRD\saptrace\usertrace: trace files of the user processes	
# log_archive_dest is a destination, not a path.	
# ne archiver nes get the name # netonscialopolionsarch/tenastes/anges	
hackground dump dest = D:\oracle\PBD\saptrace\background	
user_dump_dest = D:\oracle\PRD\sabtrace\usertrace	
core_dump_dest = D:\oracle\PRD\saptrace\background	
#log_archive_dest = D:\oracle\PRD\oraarch\PRDarch	
*.log_archive_dest_1='location=D:\oracle\PRD\oraarch\PRDarch'	
".log_archive_dest_state_l=enapie_	
r. log_archive_rormat=arc&t_&s_&r.arc	
* fal server=PBD	
*.fal_client=stdby	
*.standby_archive_dest='/oracle/PRD/oraarch'	
*.standby_file_management=AUTO	
*.remote_archive_enable=true	
<pre>#log_archive_format = %t_%s</pre>	
FFFFF OldER	
Teduce_atarin only supporced on ne	

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6. Rename the init file and spfile.create initfile with above parameters and recreate spfile.

SQL>create spfile from pfile; (so that new parameters will effective)

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7. open the "tnsnames.ora" and add the below entries

```
stdby.WORLD =
 (DESCRIPTION =
   (ADDRESS\_LIST =
    (ADDRESS = (PROTOCOL = TCP)(HOST = DISPRDIWPP)(PORT = 1521))
   )
   (CONNECT DATA =
    (SERVICE_NAME = NOP)
   )
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####################
PRD.WORLD=
(DESCRIPTION =
(ADDRESS_LIST =
(ADDRESS =
                (COMMUNITY = SAP.WORLD)
(PROTOCOL = TCP)
(HOST = willsys2)
(PORT = 1521)
            )
       )
(connect_data =
(sid = prd)
(global_name = prd.world)
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    N
)
STDBY.WORLD =
(DESCRIPTION =
(ADDRESS_LIST =
(ADDRESS = (PROTOCOL = TCP)(HOST = WILLSYS2)(PORT = 1521))
      )
(CONNECT_DATA =
____(SERVICE_NAME = PRD)
      Э
   5
 1
                                                                                                                                                Þ
```

8. open and edit the "listener.ora" and add the below entries

```
(ADDRESS_LIST =
(ADDRESS = (PROTOCOL = TCP)(HOST = DISPRDIWPP)(PORT = 1521))
)
```

```
STANDBY_LISTENER = (ADDRESS_LIST=
(ADDRESS=(PROTOCOL=tcp)(PORT=1521)(HOST=DISPRDIWPP))
)
```



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######################################						
(ADDRESS_LIST = (ADDRESS =						
(PROTOCOL = IPC) (KEY = PRD.WORLD)						
(ADDRESS= (PROTOCOL = IPC)						
(KEY = PRD)) (ADDRESS =						
(COMMUNITY = SAP.WORLD) (PROTOCOL = TCP) (HOST = willsws2)						
(PORT = 1521)						
) STARTUP_WAIT_TIME_LISTENER = 0 CONNECT_TIMEOUT_LISTENER = 10						
TRACE_LEVEL_LISTENER = OFF SID_LIST_LISTENER =						
(SID_DESC = (SID_NAME = PRD)	-) 4 6 -)					
)	D(T02)					
(ADDRESS_LIST = (ADDRESS = (PROTOCOL = TCP)(HOS	T = WILLSYS2)(PORT = 1521))					
Z STANDBY_LISTENER = (ADDRESS_LIST=)						
(ADDRESS=(PROTOCOL=TCP)(PORT=152:)	L)(HOST=WILLSYS2))					
<u>र</u>					v F	

9. Copy sapdata1,sapdata2,sapdata3,sapdata4,origlogA and B, mirrlogA A and B From Primary Server to Secondary Server

Copy the standby Control file generated in step 1 to standby server control file locations

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- 10. Start the primary as usual and check for any errors in alter_Sid.log
- 11. Now Start the standby database in Nomount mode,

SQL>startup nomount

Run	? ×
-	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	sqlplus / as sysdba
	OK Cancel <u>B</u> rowse



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12.start database in standby mount mode.

---command----

SQL>alter database mount standby database;

🐼 Select D:\oracle\PRD\102\bin\sqlplus.exe	
SQL*Plus: Release 10.2.0.2.0 - Production on Sun Dec 11 15:08:57 2011	
Copyright (c) 1982, 2005, Oracle. All Rights Reserved.	
Connected to an idle instance.	
SQL> startup nomount; ORA-32004: obsolete and/or deprecated parameter(s) specified ORACLE instance started.	
Total System Global Area 675282944 bytes Fixed Size 1291276 bytes Variable Size 348130292 bytes Database Buffers 322961408 bytes Redo Buffers 2899968 bytes SQL> alter database mount standby database; Database altered.	
SQL>	
	.

13.Start the managed recovery operation:



SQL> ALTER DATABASE RECOVER MANAGED STANDBY DATABASE DISCONNECT FROM SESSION;

📾 Select D:\oracle\PRD\102\bin\sqlplus.exe	
Copyright (c) 1982, 2005, Oracle. All Rights Reserved.	
Connected to an idle instance.	
SQL> startup nomount; ORA-32004: obsolete and/or deprecated parameter(s) specified ORACLE instance started.	
Total System Global Area 675282944 bytes Fixed Size 1291276 bytes Variable Size 348130292 bytes Database Buffers 322961408 bytes Redo Buffers 2899968 bytes SQL> alter database mount standby database;	
Database altered.	
SQL> alter database recover managed standby database disconnect from session	;
Database altered.	
SQL>	
	-

14. Check the recovery operation by using the following commands

SQL>SELECT PROCESS, STATUS FROM V\$MANAGED_STANDBY;

🔤 Select D:\oracle\PRD\102\bin\sqlplus.exe	- 🗆 🗡
ORA-32004: obsolete and/or deprecated parameter(s) specified ORACLE instance started.	
Total System Global Area 675282944 bytes Fixed Size 1291276 bytes Variable Size 348130292 bytes Database Buffers 322961408 bytes Redo Buffers 2899968 bytes SQL> alter database mount standby database;	
Database altered.	
SQL> alter database recover managed standby database disconnect from session;	
Database altered.	
SQL> select process,status from v\$managed_standby;	
PROCESS STATUS	
ARCH CONNECTED ARCH CONNECTED MRPØ WAIT_FOR_LOG	
SQL>	•



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SQL>SELECT SEQUENCE#, FIRST_TIME, NEXT_TIME FROM V\$ARCHIVED_LOG ORDER BY SEQUENCE#;

📾 D:\oracle\PRD\102\bin\sqlplus.exe	- Alexandra de la construcción de l	
CE#;		_
no rows selected		
SQL> alter database recove	r managed standby database cancel;	
Database alte r ed.		
SQL> SQL> ALTER DATABASE RECOVER	R MANAGED STANDBY DATABASE DISCONNECT FROM SESSION;	
Database alte r ed.		
SQL> SELECT SEQUENCE#, FIR CE#;	ST_TIME, NEXT_TIME FROM V\$ARCHIVED_LOG ORDER BY SEQU	IEN
SEQUENCE# FIRST_TIME	NEXT_TIME	
877 11-DEC-11 878 11-DEC-11 879 11-DEC-11 880 11-DEC-11 881 11-DEC-11	11-DEC-11 11-DEC-11 11-DEC-11 11-DEC-11 11-DEC-11	
SQL>		-

15. Cancel managed recovery operations by using command

SQL> ALTER DATABASE RECOVER MANAGED STANDBY DATABASE CANCEL;





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SQL>Alter database open read only;

en D:\oracle\PRD\102\bin\sqlplus.exe	_ 🗆 🗙
ERROR at line 1: ORA-01154: database busy. Open, close, mount, and dismount not allowed now	
SQL> alter database recover managed standby database cancel;	
Database altered.	
SQL> alter database open read only;	
Database altered.	
SQL> select status from v\$instance;	
STATUS	
OPEN	
SQL> select open_mode from v\$database;	
OPEN_MODE	
READ ONLY	
SQL>	_

16. ALTER SYSTEM ARCHIVE LOG CURRENT; To switch log file (execute in the primary server)

Note: Do not open the database, if it is opened then the 9the step has to be repeated again



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Related Content:

www.help.sap.com

www.sdn.sap.com/irj/sdn/index.

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