

## Complete Setup Guide

This section details my Data Guard environment, as you are aware I am using a [VMWare solution](#) which has the following configured

- Primary Database
- Physical Database
- Logical Database

Below is the complete listing of all my servers, configuration, setup, parameters, etc

### Virtual Machines

primarydg01	<p>This will act as the primary database, I will be configuring a standard 11G oracle installation on Oracle Enterprise Linux 5 update 5. I will configure two additional disks to using in ASM for the DATA and FLASH area's</p> <ul style="list-style-type: none"> <li>• 1 vCPU</li> <li>• 2GB RAM</li> <li>• 30GB O/S disk</li> <li>• 4GB DATA disk (used by ASM)</li> <li>• 4GB FLASH disk (used by ASM)</li> <li>• Network connection</li> <li>• Oracle Enterprise Linux 5 update 5</li> </ul>
physicaldg01	<p>This will act as the physical standby database, I will be configuring a standard 11G oracle installation, using Oracle Enterprise Linux 5 update 5. I will configure two additional disks to using in ASM for the DATA and FLASH area's</p> <ul style="list-style-type: none"> <li>• 1 vCPU</li> <li>• 2GB RAM</li> <li>• 30GB O/S disk</li> <li>• 4GB DATA disk (used by ASM)</li> <li>• 4GB FLASH disk (used by ASM)</li> <li>• Network connection</li> <li>• Oracle Enterprise Linux 5 update 5</li> </ul>
logicaldg01	<p>This will start life as a physical standby database then we will turn it into a logical standby database, it will has the same basic setup as the above servers.</p> <ul style="list-style-type: none"> <li>• 1 vCPU</li> <li>• 2GB RAM</li> <li>• 30GB O/S disk</li> <li>• 4GB DATA disk (used by ASM)</li> <li>• 4GB FLASH disk (used by ASM)</li> <li>• Network connection</li> <li>• Oracle Enterprise Linux 5 update 5</li> </ul>

### Linux Configuration

All database servers were installed with Linux using a standard installation, turning off the firewall and SELinux. To prepare them for Oracle I have used the YUM utility and oracle-validated RPM, this RPM will configure the following

- Make sure all required RPM's for Oracle are installed
- Configure the kernel parameters (/etc/sysctl.conf)
- Configure the security limits (/etc/security/limits.conf)
- Create both users and groups required by Oracle

Prepare Oracle using oracle-validated	<pre>## as root cd /etc/yum.repos.d wget http://public-yum.oracle.com/public-yum-el5.repo  ## Edit the downloaded repo file and enable any of the sections you require  ## install oracle-validated yum list  grep -i oracle yum install oracle-validated</pre>
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The only thing that it did miss is that you need to install the libaio-devel and unixODBC-devel libraries, which you can use YUM to install for you and set the Oracle password.

I will be using ASM and will create a 4GB DATA group and a 4GB FLASH group, I will be using the two additional 4GB disks when I created the VM.

I will create a simple database called "PROD1" on the primarydg01, I selected to install the sample schema as well. I will install only the Oracle binaries on physicaldg01 and logicaldg01 and setup the ASM.

I have configured archiving and checked the tnsnames.ora file and setup a basic FLASH area, all pretty standard stuff.

### Oracle Network Configuration

Here are my Oracle network configuration files

File	primary	physical	logical
/etc/hosts	<pre># Do not remove the following line, or various programs # that require network functionality will fail. 127.0.0.1 localhost.localdomain localhost ::1 localhost6.localdomain6 localhost6  ## Data Guard 192.168.0.180 primarydg01 192.168.0.181 physicaldg01 192.168.0.182 logicaldg01</pre>	<pre># Do not remove the following line, or various programs # that require network functionality will fail. 127.0.0.1 localhost.localdomain localhost ::1 localhost6.localdomain6 localhost6  ## Data Guard 192.168.0.180 primarydg01 192.168.0.181 physicaldg01 192.168.0.182 logicaldg01</pre>	<pre># Do not remove the following line, or various programs # that require network functionality will fail. 127.0.0.1 localhost.localdomain localhost ::1 localhost6.localdomain6 localhost6  ## Data Guard 192.168.0.180 primarydg01 192.168.0.181 physicaldg01 192.168.0.182 logicaldg01</pre>
listener.ora	<pre># listener.ora Network Configuration File: /u01/app/11.2.0/grid/network/admin/listener.ora # Generated by Oracle configuration tools.  LISTENER =   (DESCRIPTION_LIST =     (DESCRIPTION =       (ADDRESS = (PROTOCOL = IPC)(KEY = EXTPROC1521))       (ADDRESS = (PROTOCOL = TCP)(HOST = primarydg01)(PORT = 1521))     )   )  SID_LIST_LISTENER =   (SID_LIST =     (SID_DESC =       (GLOBAL_DBNAME = prod1_DGMGRL)       (SERVICE_NAME = prod1)       (ORACLE_HOME = /u01/app/oracle/product/11.2.0/dbhome_1)       (SID_NAME = prod1)     )   )  SID_LIST_LISTENER =   (SID_LIST =     (SID_DESC =       (GLOBAL_DBNAME = prod1dr_DGMGRL)       (SERVICE_NAME = prod1dr)       (ORACLE_HOME = /u01/app/oracle/product/11.2.0/dbhome_1)       (SID_NAME = prod1dr)     )   )  SID_LIST_LISTENER =   (SID_LIST =     (SID_DESC =       (GLOBAL_DBNAME = prod1lr_DGMGRL)       (SERVICE_NAME = prod1lr) </pre>	<pre># listener.ora Network Configuration File: /u01/app/11.2.0/grid/network/admin/listener.ora # Generated by Oracle configuration tools.  LISTENER =   (DESCRIPTION_LIST =     (DESCRIPTION =       (ADDRESS = (PROTOCOL = IPC)(KEY = EXTPROC1521))       (ADDRESS = (PROTOCOL = TCP)(HOST = physicaldg01)(PORT = 1521))     )   )  SID_LIST_LISTENER =   (SID_LIST =     (SID_DESC =       (GLOBAL_DBNAME = PROD1DR)       (ORACLE_HOME = /u01/app/oracle/product/11.2.0/dbhome_1)       (SID_NAME = PROD1DR)     )   )  SID_LIST_LISTENER =   (SID_LIST =     (SID_DESC =       (GLOBAL_DBNAME = prod1_DGMGRL)       (SERVICE_NAME = prod1)       (ORACLE_HOME = /u01/app/oracle/product/11.2.0/dbhome_1)       (SID_NAME = prod1)     )   )  SID_LIST_LISTENER =   (SID_LIST =     (SID_DESC =       (GLOBAL_DBNAME = prod1dr_DGMGRL)       (SERVICE_NAME = prod1dr)       (ORACLE_HOME = /u01/app/oracle/product/11.2.0/dbhome_1) </pre>	<pre># listener.ora Network Configuration File: /u01/app/11.2.0/grid/network/admin/listener.ora # Generated by Oracle configuration tools.  LISTENER =   (DESCRIPTION_LIST =     (DESCRIPTION =       (ADDRESS = (PROTOCOL = IPC)(KEY = EXTPROC1521))       (ADDRESS = (PROTOCOL = TCP)(HOST = logicaldg01)(PORT = 1521))     )   )  SID_LIST_LISTENER =   (SID_LIST =     (SID_DESC =       (GLOBAL_DBNAME = PROD1LR)       (ORACLE_HOME = /u01/app/oracle/product/11.2.0/dbhome_1)       (SID_NAME = PROD1LR)     )   )  SID_LIST_LISTENER =   (SID_LIST =     (SID_DESC =       (GLOBAL_DBNAME = prod1_DGMGRL)       (SERVICE_NAME = prod1)       (ORACLE_HOME = /u01/app/oracle/product/11.2.0/dbhome_1)       (SID_NAME = prod1)     )   )  SID_LIST_LISTENER =   (SID_LIST =     (SID_DESC =       (GLOBAL_DBNAME = prod1dr_DGMGRL)       (SERVICE_NAME = prod1dr)       (ORACLE_HOME = /u01/app/oracle/product/11.2.0/dbhome_1) </pre>

	<pre> (ORACLE_HOME = /u01/app/oracle/product/11.2.0/dbhome_1) (SID_NAME = prod1lr) ) } ADR_BASE_LISTENER = /u01/app/oracle ENABLE_GLOBAL_DYNAMIC_ENDPOINT_LISTENER=ON # line added by Agent </pre>	<pre> (SID_NAME = prod1dr) ) } SID_LIST_LISTENER = (SID_LIST = (SID_DESC = (GLOBAL_DBNAME = prod1dr1_DGMGRL) (SERVICE_NAME = prod1dr1) (ORACLE_HOME = /u01/app/oracle/product/11.2.0/dbhome_1) (SID_NAME = prod1dr1) ) ) ADR_BASE_LISTENER = /u01/app/oracle ENABLE_GLOBAL_DYNAMIC_ENDPOINT_LISTENER=ON # line added by Agent </pre>	<pre> (SID_NAME = prod1dr) ) } SID_LIST_LISTENER = (SID_LIST = (SID_DESC = (GLOBAL_DBNAME = prod1lr_DGMGRL) (SERVICE_NAME = prod1lr) (ORACLE_HOME = /u01/app/oracle/product/11.2.0/dbhome_1) (SID_NAME = prod1lr) ) ) ADR_BASE_LISTENER = /u01/app/oracle ENABLE_GLOBAL_DYNAMIC_ENDPOINT_LISTENER=ON # line added by Agent </pre>
tnsnames.ora	<pre> # tnsnames.ora Network Configuration File: # /u01/app/oracle/product/11.2.0/dbhome_1/network/admin/tnsnames.ora # Generated by Oracle configuration tools.  PRODI = (DESCRIPTION = (AADDRESS = (PROTOCOL = TCP)(HOST = primarydg01)(PORT = 1521)) (CONNECT_DATA = (SERVER = DEDICATED) (SERVICE_NAME = PRODI) ) )  PRODI1DR = (DESCRIPTION = (AADDRESS = (PROTOCOL = TCP)(HOST = physicaldg01)(PORT = 1521)) (CONNECT_DATA = (SERVER = DEDICATED) (SERVICE_NAME = PRODI1DR) ) )  PRODI1LR = (DESCRIPTION = (AADDRESS = (PROTOCOL = TCP)(HOST = logicaldg01)(PORT = 1521)) (CONNECT_DATA = (SERVER = DEDICATED) (SERVICE_NAME = PRODI1LR) ) ) </pre>	<pre> # tnsnames.ora Network Configuration File: # /u01/app/oracle/product/11.2.0/dbhome_1/network/admin/tnsnames.ora # Generated by Oracle configuration tools.  PRODI = (DESCRIPTION = (AADDRESS = (PROTOCOL = TCP)(HOST = primarydg01)(PORT = 1521)) (CONNECT_DATA = (SERVER = DEDICATED) (SERVICE_NAME = PRODI) ) )  PRODI1DR = (DESCRIPTION = (AADDRESS = (PROTOCOL = TCP)(HOST = physicaldg01)(PORT = 1521)) (CONNECT_DATA = (SERVER = DEDICATED) (SERVICE_NAME = PRODI1DR) ) )  PRODI1LR = (DESCRIPTION = (AADDRESS = (PROTOCOL = TCP)(HOST = logicaldg01)(PORT = 1521)) (CONNECT_DATA = (SERVER = DEDICATED) (SERVICE_NAME = PRODI1LR) ) ) </pre>	<pre> # tnsnames.ora Network Configuration File: # /u01/app/oracle/product/11.2.0/dbhome_1/network/admin/tnsnames.ora # Generated by Oracle configuration tools.  PRODI = (DESCRIPTION = (AADDRESS = (PROTOCOL = TCP)(HOST = primarydg01)(PORT = 1521)) (CONNECT_DATA = (SERVER = DEDICATED) (SERVICE_NAME = PRODI) ) )  PRODI1DR = (DESCRIPTION = (AADDRESS = (PROTOCOL = TCP)(HOST = physicaldg01)(PORT = 1521)) (CONNECT_DATA = (SERVER = DEDICATED) (SERVICE_NAME = PRODI1DR) ) )  PRODI1LR = (DESCRIPTION = (AADDRESS = (PROTOCOL = TCP)(HOST = logicaldg01)(PORT = 1521)) (CONNECT_DATA = (SERVER = DEDICATED) (SERVICE_NAME = PRODI1LR) ) ) </pre>
sqlnet.ora	<pre> # sqlnet.ora Network Configuration File: /u01/app/11.2.0/grid/network/admin/sqlnet.ora # Generated by Oracle configuration tools.  NAMES.DIRECTORY_PATH= (TNSNAMES, EZCONNECT) ADR_BASE = /u01/app/oracle </pre>	<pre> # sqlnet.ora Network Configuration File: /u01/app/11.2.0/grid/network/admin/sqlnet.ora # Generated by Oracle configuration tools.  NAMES.DIRECTORY_PATH= (TNSNAMES, EZCONNECT) ADR_BASE = /u01/app/oracle </pre>	<pre> # sqlnet.ora Network Configuration File: /u01/app/11.2.0/grid/network/admin/sqlnet.ora # Generated by Oracle configuration tools.  NAMES.DIRECTORY_PATH= (TNSNAMES, EZCONNECT) ADR_BASE = /u01/app/oracle </pre>
Configuration			
Listener Status	<pre> [oracle@primarydg01 ~]\$ lsnrctl  LSNRCTL for Linux: Version 11.2.0.1.0 - Production on 12-NOV-2011 11:22:18  Copyright (c) 1991, 2009, Oracle. All rights reserved.  Welcome to LSNRCTL, type 'help' for information.  LSNRCTL&gt; status Connecting to (ADDRESS=(PROTOCOL=tcp)(HOST=)(PORT=1521)) STATUS of the LISTENER ----- Alias LISTENER Version TNSLSNR for Linux: Version 11.2.0.1.0 - Production Start Date 12-NOV-2011 10:57:07 Uptime 0 days 0 hr. 25 min. 13 sec Trace Level off Security ON: Local OS Authentication SNMP OFF Listener Parameter File /u01/app/11.2.0/grid/network/admin/listener.ora Listener Log File /u01/app/oracle/diag/tnslsnr/primarydg01/listener/alert/log.xml Listening Endpoints Summary... (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=EXTPROC1521))) (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=primarydg01)(PORT=1521))) Services Summary... Service "ASM" has 1 instance(s). Instance "ASM", status READY, has 1 handler(s) for this service... Service "PRODI" has 1 instance(s). Instance "PRODI", status READY, has 1 handler(s) for this service... Service "PRODI1DR" has 1 instance(s). Instance "PRODI1DR", status READY, has 1 handler(s) for this service... Service "PRODI1LR" has 1 instance(s). Instance "PRODI1LR", status READY, has 1 handler(s) for this service... Service "prod1lr_DGMGRL" has 1 instance(s). Instance "prod1lr", status UNKNOWN, has 1 handler(s) for this service... The command completed successfully </pre>	<pre> [oracle@physicaldg01 ~]\$ lsnrctl  LSNRCTL for Linux: Version 11.2.0.1.0 - Production on 12-NOV-2011 11:17:06  Copyright (c) 1991, 2009, Oracle. All rights reserved.  Welcome to LSNRCTL, type 'help' for information.  LSNRCTL&gt; status Connecting to (ADDRESS=(PROTOCOL=tcp)(HOST=)(PORT=1521)) STATUS of the LISTENER ----- Alias LISTENER Version TNSLSNR for Linux: Version 11.2.0.1.0 - Production Start Date 12-NOV-2011 11:00:49 Uptime 0 days 0 hr. 16 min. 18 sec Trace Level off Security ON: Local OS Authentication SNMP OFF Listener Parameter File /u01/app/11.2.0/grid/network/admin/listener.ora Listener Log File /u01/app/oracle/diag/tnslsnr/physicaldg01/listener/alert/log.xml Listening Endpoints Summary... (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=EXTPROC1521))) (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=physicaldg01)(PORT=1521))) Services Summary... Service "ASM" has 1 instance(s). Instance "ASM", status READY, has 1 handler(s) for this service... Service "PRODI1DR" has 1 instance(s). Instance "PRODI1DR", status READY, has 1 handler(s) for this service... Service "PRODI1LR_DGB" has 1 instance(s). Instance "PRODI1LR_DGB", status READY, has 1 handler(s) for this service... Service "prod1lr_DGMGRL" has 1 instance(s). Instance "prod1lr", status UNKNOWN, has 1 handler(s) for this service... The command completed successfully </pre>	<pre> [oracle@logicaldg01 admin]\$ lsnrctl  LSNRCTL for Linux: Version 11.2.0.1.0 - Production on 12-NOV-2011 11:16:21  Copyright (c) 1991, 2009, Oracle. All rights reserved.  Welcome to LSNRCTL, type 'help' for information.  LSNRCTL&gt; status Connecting to (ADDRESS=(PROTOCOL=tcp)(HOST=)(PORT=1521)) STATUS of the LISTENER ----- Alias LISTENER Version TNSLSNR for Linux: Version 11.2.0.1.0 - Production Start Date 12-NOV-2011 11:02:27 Uptime 0 days 0 hr. 13 min. 57 sec Trace Level off Security ON: Local OS Authentication SNMP OFF Listener Parameter File /u01/app/11.2.0/grid/network/admin/listener.ora Listener Log File /u01/app/oracle/diag/tnslsnr/logicaldg01/listener/alert/log.xml Listening Endpoints Summary... (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=EXTPROC1521))) (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=logicaldg01)(PORT=1521))) Services Summary... Service "ASM" has 1 instance(s). Instance "ASM", status READY, has 1 handler(s) for this service... Service "PRODI1LR" has 1 instance(s). Instance "PRODI1LR", status READY, has 1 handler(s) for this service... Service "PRODI1LR_DGB" has 1 instance(s). Instance "PRODI1LR_DGB", status READY, has 1 handler(s) for this service... Service "prod1lr_DGMGRL" has 1 instance(s). Instance "prod1lr", status UNKNOWN, has 1 handler(s) for this service... The command completed successfully </pre>

## Oracle Parameters

primary	physical	logical
<pre> SQL&gt; show parameters  NAME TYPE VALUE ----- O7_DICTIONARY_ACCESSIBILITY boolean FALSE active_instance_count integer aq_tm_processes integer 0 archive_lag_target integer 0 asm_diskgroups string asm_diskstring string asm_power_limit integer 1 asm_preferred_read_failure_groups string audit_file_dest string /u01/app/oracle/admin/PROD1/adump audit_sys_operations boolean FALSE  NAME TYPE VALUE ----- audit_syslog_level string audit_trail string DB background_core_dump string partial background_dump_dest string /u01/app/oracle/diag/rdbms/prod1/PROD1/trace backup_tape_io_slaves boolean FALSE bitmap_merge_area_size integer 1048576 blank_trimming boolean FALSE buffer_pool_keep string buffer_pool_recycle string cell_offload_compaction string ADAPTIVE  NAME TYPE VALUE ----- cell_offload_decryption boolean TRUE cell_offload_parameters string cell_offload_plan_display string AUTO cell_offload_processing boolean TRUE cell_partition_large_extents string DEFAULT circuits integer client_result_cache_lag big integer 3000 client_result_cache_size big integer 0 cluster_database boolean FALSE cluster_database_instances integer 1 cluster_interconnects string </pre>	<pre> SQL&gt; show parameters  NAME TYPE VALUE ----- O7_DICTIONARY_ACCESSIBILITY boolean FALSE active_instance_count integer aq_tm_processes integer 0 archive_lag_target integer 0 asm_diskgroups string asm_diskstring string asm_power_limit integer 1 asm_preferred_read_failure_groups string audit_file_dest string /u01/app/oracle/admin/PROD1DR/adump audit_sys_operations boolean FALSE  NAME TYPE VALUE ----- audit_syslog_level string audit_trail string DB background_core_dump string partial background_dump_dest string /u01/app/oracle/diag/rdbms/prod1dr/PROD1DR/trace backup_tape_io_slaves boolean FALSE bitmap_merge_area_size integer 1048576 blank_trimming boolean FALSE buffer_pool_keep string buffer_pool_recycle string cell_offload_compaction string ADAPTIVE  NAME TYPE VALUE ----- cell_offload_decryption boolean TRUE cell_offload_parameters string cell_offload_plan_display string AUTO cell_offload_processing boolean TRUE cell_partition_large_extents string DEFAULT circuits integer client_result_cache_lag big integer 3000 client_result_cache_size big integer 0 cluster_database boolean FALSE cluster_database_instances integer 1 cluster_interconnects string </pre>	<pre> SQL&gt; show parameters  NAME TYPE VALUE ----- O7_DICTIONARY_ACCESSIBILITY boolean FALSE active_instance_count integer aq_tm_processes integer 0 archive_lag_target integer 0 asm_diskgroups string asm_diskstring string asm_power_limit integer 1 asm_preferred_read_failure_groups string audit_file_dest string /u01/app/oracle/admin/PROD1LR/adump audit_sys_operations boolean FALSE  NAME TYPE VALUE ----- audit_syslog_level string audit_trail string DB background_core_dump string partial background_dump_dest string /u01/app/oracle/diag/rdbms/prod1lr/PROD1LR/trace backup_tape_io_slaves boolean FALSE bitmap_merge_area_size integer 1048576 blank_trimming boolean FALSE buffer_pool_keep string buffer_pool_recycle string cell_offload_compaction string ADAPTIVE  NAME TYPE VALUE ----- cell_offload_decryption boolean TRUE cell_offload_parameters string cell_offload_plan_display string AUTO cell_offload_processing boolean TRUE cell_partition_large_extents string DEFAULT circuits integer client_result_cache_lag big integer 3000 client_result_cache_size big integer 0 cluster_database boolean FALSE cluster_database_instances integer 1 cluster_interconnects string </pre>

<pre> commit_logging string commit_point_strength integer 1 commit_wait string commit_write string compatible string 11.2.0.0.0 control_file_record_keep_time integer 7 control_files string +DATA/prod1/controlfile/current.261.755459111, +DATA/prod1/controlfile/current.260.755459111 control_management_pack_access string DIAGNOSTIC+TUNING  NAME TYPE VALUE ----- core_dump_dest string /u01/app/oracle/diag/rdbms/prod1/PROD1/cdump cpu_count integer 1 create_bitmap_area_size integer 8388608 create_stored_outlines string cursor_sharing string EXACT cursor_space_for_time boolean FALSE db_16k_cache_size big integer 0 db_2k_cache_size big integer 0 db_32k_cache_size big integer 0 db_4k_cache_size big integer 0  NAME TYPE VALUE ----- db_8k_cache_size big integer 0 db_block_buffers integer 0 db_block_checking string FALSE db_block_checksum string TYPICAL db_block_size integer 8192 db_cache_advice string ON db_cache_size big integer 0 db_create_file_dest string +DATA db_create_online_log_dest_1 string +FLASH db_create_online_log_dest_2 string +DATA db_create_online_log_dest_3 string  NAME TYPE VALUE ----- db_create_online_log_dest_4 string db_create_online_log_dest_5 string db_domain string db_file_multiblock_read_count integer 85 db_file_name_convert string db_files integer 200 db_flash_cache_file string db_flash_cache_size big integer 0 db_flashback_retention_target integer 1440 db_keep_cache_size big integer 0 db_lost_write_protect string NONE  NAME TYPE VALUE ----- db_name string PROD1 db_recovery_file_dest string +FLASH db_recovery_file_dest_size big integer 4G db_recycle_cache_size big integer 0 db_securefile string PERMITTED db_ultra_safe string OFF db_unique_name string PROD1 db_writer_processes integer 1 dbwr_io_slaves integer 0 ddl_lock_timeout integer 0 deferred_segment_creation boolean TRUE  NAME TYPE VALUE ----- dg_broker_config_file1 string /u01/app/oracle/product/11.2.0 /dhhome_1/dbs/dr1PROD1.dat dg_broker_config_file2 string /u01/app/oracle/product/11.2.0 /dhhome_1/dbs/dr2PROD1LR.dat dg_broker_start boolean TRUE diagnostic_dest string /u01/app/oracle disk_async_io boolean TRUE dispatchers string (PROTOCOL=TCP) (SERVICE=PROD1XDB) distributed_lock_timeout integer 60 dml_locks integer 1084 dst_upgrade_insert_conv boolean TRUE enable_ddl_logging boolean FALSE event string  NAME TYPE VALUE ----- dst_upgrade_insert_conv boolean TRUE enable_ddl_logging boolean FALSE event string fal_client string PROD1 fal_server string PROD1DR fast_start_io_target integer 0 fast_start_mtr_target integer 0 fast_start_parallel_rollback string LOW file_mapping boolean FALSE fileio_network_adapters string filesystemio_options string none fixed_date string gcs_server_processes integer 0 global_context_pool_size string global_names boolean FALSE global_txn_processes integer 1 hash_area_size integer 131072 hi_shared_memory_address integer 0 hs_autoregister boolean TRUE ifile file instance_groups string instance_name string PROD1  NAME TYPE VALUE ----- instance_number integer 0 instance_type string RDBMS java_jit_enabled boolean TRUE java_max_sessionspace_size integer 0 java_pool_size big integer 0 java_soft_sessionspace_limit integer 0 job_queue_processes integer 1000 large_pool_size big integer 0 ldap_directory_access string NONE ldap_directory_sasauth string no license_max_sessions integer 0 license_max_users integer 0 license_sessions_warning integer 0 listener_networks string  NAME TYPE VALUE ----- license_max_users integer 0 license_sessions_warning integer 0 listener_networks string local_listener string lock_name_space string lock_sga boolean FALSE log_archive_config string dg_config=(PROD1DR,PROD1,prod1lr) log_archive_dest string log_archive_dest_1 string location=USE_DB_RECOVERY_FILE_DEST, valid_for= (ALL_LOGFILES,ALL_ROLES) log_archive_dest_10 string log_archive_dest_11 string log_archive_dest_12 string log_archive_dest_13 string log_archive_dest_14 string log_archive_dest_15 string log_archive_dest_16 string log_archive_dest_17 string log_archive_dest_18 string log_archive_dest_19 string log_archive_dest_2 string service=PROD1DR async db_unique_name=PROD1DR invalid_for=(primary,role,online,logfile) </pre>	<pre> NAME TYPE VALUE ----- commit_logging string commit_point_strength integer 1 commit_wait string commit_write string compatible string 11.2.0.0.0 control_file_record_keep_time integer 7 control_files string +DATA/prod1dr/control.ctl control_management_pack_access string DIAGNOSTIC+TUNING core_dump_dest string /u01/app/oracle/diag/rdbms/prod1dr/PROD1DR/cdump cpu_count integer 1  NAME TYPE VALUE ----- create_bitmap_area_size integer 8388608 create_stored_outlines string cursor_sharing string EXACT cursor_space_for_time boolean FALSE db_16k_cache_size big integer 0 db_2k_cache_size big integer 0 db_32k_cache_size big integer 0 db_4k_cache_size big integer 0 db_8k_cache_size big integer 0  db_block_buffers integer 0 db_block_checking string FALSE  NAME TYPE VALUE ----- db_block_checksum string TYPICAL db_block_size integer 8192 db_cache_advice string ON db_cache_size big integer 0 db_create_file_dest string +DATA db_create_online_log_dest_1 string +FLASH db_create_online_log_dest_2 string +DATA db_create_online_log_dest_3 string db_create_online_log_dest_4 string db_create_online_log_dest_5 string db_domain string  NAME TYPE VALUE ----- db_file_multiblock_read_count integer 128 db_file_name_convert string db_files integer 200 db_flash_cache_file string db_flash_cache_size big integer 0 db_flashback_retention_target integer 1440 db_keep_cache_size big integer 0 db_lost_write_protect string NONE db_name string PROD1 db_recovery_file_dest string +FLASH db_recovery_file_dest_size big integer 4G  NAME TYPE VALUE ----- db_recycle_cache_size big integer 0 db_securefile string PERMITTED db_ultra_safe string OFF db_unique_name string PROD1DR db_writer_processes integer 1 dbwr_io_slaves integer 0 ddl_lock_timeout integer 0 deferred_segment_creation boolean TRUE dg_broker_config_file1 string /u01/app/oracle/product/11.2.0 /dhhome_1/dbs/dr1PROD1DR.dat dg_broker_config_file2 string /u01/app/oracle/product/11.2.0 /dhhome_1/dbs/dr2PROD1DR.dat dg_broker_start boolean TRUE diagnostic_dest string /u01/app/oracle disk_async_io boolean TRUE dispatchers string (PROTOCOL=TCP) (SERVICE=PROD1DRXDB) distributed_lock_timeout integer 60 dml_locks integer 1084 dst_upgrade_insert_conv boolean TRUE enable_ddl_logging boolean FALSE event string  NAME TYPE VALUE ----- fal_client string PROD1DR fal_server string prod1 fast_start_io_target integer 0 fast_start_mtr_target integer 0 fast_start_parallel_rollback string LOW file_mapping boolean FALSE fileio_network_adapters string filesystemio_options string none fixed_date string gcs_server_processes integer 0 global_context_pool_size string  NAME TYPE VALUE ----- global_names boolean FALSE global_txn_processes integer 1 hash_area_size integer 131072 hi_shared_memory_address integer 0 hs_autoregister boolean TRUE ifile file instance_groups string instance_name string PROD1DR instance_number integer 0 instance_type string RDBMS java_jit_enabled boolean TRUE  NAME TYPE VALUE ----- java_max_sessionspace_size integer 0 java_pool_size big integer 0 java_soft_sessionspace_limit integer 0 job_queue_processes integer 1000 large_pool_size big integer 0 ldap_directory_access string NONE ldap_directory_sasauth string no license_max_sessions integer 0 license_max_users integer 0 license_sessions_warning integer 0 listener_networks string  NAME TYPE VALUE ----- local_listener string lock_name_space string lock_sga boolean FALSE log_archive_config string dg_config=(PROD1DR,PROD1,prod1lr) log_archive_dest string log_archive_dest_1 string location=USE_DB_RECOVERY_FILE_DEST, valid_for= (ALL_LOGFILES,ALL_ROLES) log_archive_dest_10 string log_archive_dest_11 string  NAME TYPE VALUE ----- log_archive_dest_12 string log_archive_dest_13 string log_archive_dest_14 string log_archive_dest_15 string log_archive_dest_16 string log_archive_dest_17 string log_archive_dest_18 string log_archive_dest_19 string log_archive_dest_2 string service=PROD1 async db_unique_name=PROD1 valid_for= (primary,role,online,logfile) </pre>	<pre> NAME TYPE VALUE ----- commit_logging string commit_point_strength integer 1 commit_wait string commit_write string compatible string 11.2.0.0.0 control_file_record_keep_time integer 7 control_files string +DATA/prod1lr/control.ctl control_management_pack_access string DIAGNOSTIC+TUNING core_dump_dest string /u01/app/oracle/diag/rdbms/prod1lr/PROD1LR/cdump cpu_count integer 1  NAME TYPE VALUE ----- create_bitmap_area_size integer 8388608 create_stored_outlines string cursor_sharing string EXACT cursor_space_for_time boolean FALSE db_16k_cache_size big integer 0 db_2k_cache_size big integer 0 db_32k_cache_size big integer 0 db_4k_cache_size big integer 0 db_8k_cache_size big integer 0  db_block_buffers integer 0 db_block_checking string FALSE  NAME TYPE VALUE ----- db_block_checksum string TYPICAL db_block_size integer 8192 db_cache_advice string ON db_cache_size big integer 0 db_create_file_dest string +DATA db_create_online_log_dest_1 string +FLASH db_create_online_log_dest_2 string +DATA db_create_online_log_dest_3 string db_create_online_log_dest_4 string db_create_online_log_dest_5 string db_domain string  NAME TYPE VALUE ----- db_file_multiblock_read_count integer 103 db_file_name_convert string db_files integer 200 db_flash_cache_file string db_flash_cache_size big integer 0 db_flashback_retention_target integer 1440 db_keep_cache_size big integer 0 db_lost_write_protect string NONE db_name string PROD1LR db_recovery_file_dest string +FLASH db_recovery_file_dest_size big integer 4G  NAME TYPE VALUE ----- db_recycle_cache_size big integer 0 db_securefile string PERMITTED db_ultra_safe string OFF db_unique_name string PROD1LR db_writer_processes integer 1 dbwr_io_slaves integer 0 ddl_lock_timeout integer 0 deferred_segment_creation boolean TRUE dg_broker_config_file1 string /u01/app/oracle/product/11.2.0 /dhhome_1/dbs/dr1PROD1LR.dat dg_broker_config_file2 string /u01/app/oracle/product/11.2.0 /dhhome_1/dbs/dr2PROD1LR.dat dg_broker_start boolean TRUE diagnostic_dest string /u01/app/oracle disk_async_io boolean TRUE dispatchers string (PROTOCOL=TCP) (SERVICE=PROD1LRXDB) distributed_lock_timeout integer 60 dml_locks integer 1084 dst_upgrade_insert_conv boolean TRUE enable_ddl_logging boolean FALSE event string  NAME TYPE VALUE ----- fal_client string PROD1LR fal_server string prod1, prod1dr fast_start_io_target integer 0 fast_start_mtr_target integer 0 fast_start_parallel_rollback string LOW file_mapping boolean FALSE fileio_network_adapters string filesystemio_options string none fixed_date string gcs_server_processes integer 0 global_context_pool_size string  NAME TYPE VALUE ----- global_names boolean FALSE global_txn_processes integer 1 hash_area_size integer 131072 hi_shared_memory_address integer 0 hs_autoregister boolean TRUE ifile file instance_groups string instance_name string PROD1LR instance_number integer 0 instance_type string RDBMS java_jit_enabled boolean TRUE  NAME TYPE VALUE ----- java_max_sessionspace_size integer 0 java_pool_size big integer 0 java_soft_sessionspace_limit integer 0 job_queue_processes integer 1000 large_pool_size big integer 0 ldap_directory_access string NONE ldap_directory_sasauth string no license_max_sessions integer 0 license_max_users integer 0 license_sessions_warning integer 0 listener_networks string  NAME TYPE VALUE ----- local_listener string lock_name_space string lock_sga boolean FALSE log_archive_config string dg_config=(PROD1LR,PROD1,prod1dr) log_archive_dest string log_archive_dest_1 string location=USE_DB_RECOVERY_FILE_DEST, valid_for= (ALL_LOGFILES,ALL_ROLES) log_archive_dest_10 string log_archive_dest_11 string  NAME TYPE VALUE ----- log_archive_dest_12 string log_archive_dest_13 string log_archive_dest_14 string log_archive_dest_15 string log_archive_dest_16 string log_archive_dest_17 string log_archive_dest_18 string log_archive_dest_19 string log_archive_dest_2 string service=PROD1 async db_unique_name=PROD1 valid_for= (primary,role,online,logfile) </pre>
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log_archive_dest_20 string
log_archive_dest_21 string
log_archive_dest_22 string
log_archive_dest_23 string
log_archive_dest_24 string
log_archive_dest_25 string
log_archive_dest_26 string
log_archive_dest_27 string

NAME TYPE VALUE
-----
log_archive_dest_28 string
log_archive_dest_29 string
log_archive_dest_3 string service=PROD1LR async db_unique_name=PROD1LR
valid_for=(primary_role,online_logfile)
log_archive_dest_30 string
log_archive_dest_31 string
log_archive_dest_4 string
log_archive_dest_5 string
log_archive_dest_6 string
log_archive_dest_7 string

NAME TYPE VALUE
-----
log_archive_dest_8 string
log_archive_dest_9 string
log_archive_dest_state_1 string enable
log_archive_dest_state_10 string enable
log_archive_dest_state_11 string enable
log_archive_dest_state_12 string enable
log_archive_dest_state_13 string enable
log_archive_dest_state_14 string enable
log_archive_dest_state_15 string enable
log_archive_dest_state_16 string enable
log_archive_dest_state_17 string enable

NAME TYPE VALUE
-----
log_archive_dest_state_18 string enable
log_archive_dest_state_19 string enable
log_archive_dest_state_2 string ENABLE
log_archive_dest_state_20 string enable
log_archive_dest_state_21 string enable
log_archive_dest_state_22 string enable
log_archive_dest_state_23 string enable
log_archive_dest_state_24 string enable
log_archive_dest_state_25 string enable
log_archive_dest_state_26 string enable
log_archive_dest_state_27 string enable

NAME TYPE VALUE
-----
log_archive_dest_state_28 string enable
log_archive_dest_state_29 string enable
log_archive_dest_state_3 string ENABLE
log_archive_dest_state_30 string enable
log_archive_dest_state_31 string enable
log_archive_dest_state_4 string enable
log_archive_dest_state_5 string enable
log_archive_dest_state_6 string enable
log_archive_dest_state_7 string enable
log_archive_dest_state_8 string enable
log_archive_dest_state_9 string enable

NAME TYPE VALUE
-----
log_archive_duplex_dest string
log_archive_format string %t_%s_%r.dbf
log_archive_local_first boolean TRUE
log_archive_max_processes integer 4
log_archive_min_succeed_dest integer 1
log_archive_start boolean FALSE
log_archive_trace integer 0
log_buffer integer 2224128
log_checkpoint_interval integer 0
log_checkpoint_timeout integer 1800
log_checkpoints_to_alert boolean FALSE

NAME TYPE VALUE
-----
log_file_name_convert string
max_dispatchers integer
max_dump_file_size string unlimited
max_enabled_roles integer 150
max_shared_servers integer
memory_max_target big integer 804M
memory_target big integer 804M
nls_calendar string
nls_comp string BINARY
nls_currency string
nls_date_format string
NAME TYPE VALUE
-----
nls_date_language string
nls_dual_currency string
nls_iso_currency string
nls_language string AMERICAN
nls_length_semantics string BYTE
nls_nchar_conv_exp string FALSE
nls_numeric_characters string
nls_sort string
nls_territory string AMERICA
nls_time_format string
nls_time_tz_format string

NAME TYPE VALUE
-----
nls_timestamp_format string
nls_timestamp_tz_format string
object_cache_max_size_percent integer 10
object_cache_optimal_size integer 102400
olap_page_pool_size big integer 0
open_cursors integer 300
open_links integer 4
open_links_per_instance integer 4
optimizer_capture_sql_plan_baselines boolean FALSE
optimizer_dynamic_sampling integer 2
optimizer_features_enable string 11.2.0.1

NAME TYPE VALUE
-----
optimizer_index_caching integer 0
optimizer_index_cost_adj integer 100
optimizer_mode string ALL_ROWS
optimizer_secure_view_merging boolean TRUE
optimizer_use_invisible_indexes boolean FALSE
optimizer_use_pending_statistics boolean FALSE
optimizer_use_sql_plan_baselines boolean TRUE
os_authn_prefix string op$
os_roles boolean FALSE
parallel_adaptive_multi_user boolean TRUE
parallel_automatic_tuning boolean FALSE

NAME TYPE VALUE
-----
parallel_degree_limit string CPU
parallel_degree_policy string MANUAL
parallel_execution_message_size integer 16384
parallel_force_local boolean FALSE
parallel_instance_group string
parallel_io_cap_enabled boolean FALSE
parallel_max_servers integer 10
parallel_min_percent integer 0
parallel_min_servers integer 0
parallel_min_time_threshold string AUTO
parallel_server boolean FALSE

```

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NAME TYPE VALUE
-----
log_archive_dest_20 string
log_archive_dest_21 string
log_archive_dest_22 string
log_archive_dest_23 string
log_archive_dest_24 string
log_archive_dest_25 string
log_archive_dest_26 string
log_archive_dest_27 string
log_archive_dest_28 string
log_archive_dest_29 string
log_archive_dest_3 string

NAME TYPE VALUE
-----
log_archive_dest_30 string
log_archive_dest_31 string
log_archive_dest_4 string
log_archive_dest_5 string
log_archive_dest_6 string
log_archive_dest_7 string
log_archive_dest_8 string
log_archive_dest_9 string
log_archive_dest_state_1 string enable
log_archive_dest_state_10 string enable
log_archive_dest_state_11 string enable

NAME TYPE VALUE
-----
log_archive_dest_state_12 string enable
log_archive_dest_state_13 string enable
log_archive_dest_state_14 string enable
log_archive_dest_state_15 string enable
log_archive_dest_state_16 string enable
log_archive_dest_state_17 string enable
log_archive_dest_state_18 string enable
log_archive_dest_state_19 string enable
log_archive_dest_state_2 string enable
log_archive_dest_state_20 string enable
log_archive_dest_state_21 string enable

NAME TYPE VALUE
-----
log_archive_dest_state_22 string enable
log_archive_dest_state_23 string enable
log_archive_dest_state_24 string enable
log_archive_dest_state_25 string enable
log_archive_dest_state_26 string enable
log_archive_dest_state_27 string enable
log_archive_dest_state_28 string enable
log_archive_dest_state_29 string enable
log_archive_dest_state_30 string enable
log_archive_dest_state_31 string enable

NAME TYPE VALUE
-----
log_archive_dest_state_4 string enable
log_archive_dest_state_5 string enable
log_archive_dest_state_6 string enable
log_archive_dest_state_7 string enable
log_archive_dest_state_8 string enable
log_archive_dest_state_9 string enable
log_archive_duplex_dest string
log_archive_format string %t_%s_%r.dbf
log_archive_local_first boolean TRUE
log_archive_max_processes integer 4
log_archive_min_succeed_dest integer 1

NAME TYPE VALUE
-----
log_archive_start boolean FALSE
log_archive_trace integer 0
log_buffer integer 2224128
log_checkpoint_interval integer 0
log_checkpoint_timeout integer 1800
log_checkpoints_to_alert boolean FALSE
log_file_name_convert string
max_dispatchers integer
max_dump_file_size string unlimited
max_enabled_roles integer 150
max_shared_servers integer

NAME TYPE VALUE
-----
memory_max_target big integer 804M
memory_target big integer 804M
nls_calendar string
nls_comp string BINARY
nls_currency string
nls_date_format string
nls_date_language string
nls_dual_currency string
nls_iso_currency string
nls_language string AMERICAN
nls_length_semantics string BYTE

NAME TYPE VALUE
-----
nls_nchar_conv_exp string FALSE
nls_numeric_characters string
nls_sort string
nls_territory string AMERICA
nls_time_format string
nls_time_tz_format string

NAME TYPE VALUE
-----
nls_timestamp_format string
nls_timestamp_tz_format string
object_cache_max_size_percent integer 10
object_cache_optimal_size integer 102400
olap_page_pool_size big integer 0

NAME TYPE VALUE
-----
open_cursors integer 300
open_links integer 4
optimizer_capture_sql_plan_baselines boolean FALSE
optimizer_dynamic_sampling integer 2
optimizer_features_enable string 11.2.0.1
optimizer_index_caching integer 0
optimizer_index_cost_adj integer 100
optimizer_mode string ALL_ROWS
optimizer_secure_view_merging boolean TRUE
optimizer_use_invisible_indexes boolean FALSE

NAME TYPE VALUE
-----
optimizer_use_pending_statistics boolean FALSE
optimizer_use_sql_plan_baselines boolean TRUE
os_authn_prefix string op$
os_roles boolean FALSE
parallel_adaptive_multi_user boolean TRUE
parallel_automatic_tuning boolean FALSE
parallel_degree_limit string CPU
parallel_degree_policy string MANUAL
parallel_execution_message_size integer 16384
parallel_force_local boolean FALSE
parallel_instance_group string

NAME TYPE VALUE
-----
parallel_io_cap_enabled boolean FALSE
parallel_max_servers integer 10
parallel_min_percent integer 0
parallel_min_servers integer 0
parallel_min_time_threshold string AUTO
parallel_server boolean FALSE

```

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NAME TYPE VALUE
-----
log_archive_dest_20 string
log_archive_dest_21 string
log_archive_dest_22 string
log_archive_dest_23 string
log_archive_dest_24 string
log_archive_dest_25 string
log_archive_dest_26 string
log_archive_dest_27 string
log_archive_dest_28 string
log_archive_dest_29 string
log_archive_dest_3 string service=PROD1LR async db_unique_name=PROD1LR
valid_for=(primary_role,online_logfile)
log_archive_dest_30 string
log_archive_dest_31 string
log_archive_dest_4 string
log_archive_dest_5 string
log_archive_dest_6 string
log_archive_dest_7 string
log_archive_dest_8 string
log_archive_dest_9 string
log_archive_dest_state_1 string enable

NAME TYPE VALUE
-----
log_archive_dest_state_10 string enable
log_archive_dest_state_11 string enable
log_archive_dest_state_12 string enable
log_archive_dest_state_13 string enable
log_archive_dest_state_14 string enable
log_archive_dest_state_15 string enable
log_archive_dest_state_16 string enable
log_archive_dest_state_17 string enable
log_archive_dest_state_18 string enable
log_archive_dest_state_19 string enable
log_archive_dest_state_2 string ENABLE

NAME TYPE VALUE
-----
log_archive_dest_state_20 string enable
log_archive_dest_state_21 string enable
log_archive_dest_state_22 string enable
log_archive_dest_state_23 string enable
log_archive_dest_state_24 string enable
log_archive_dest_state_25 string enable
log_archive_dest_state_26 string enable
log_archive_dest_state_27 string enable
log_archive_dest_state_28 string enable
log_archive_dest_state_29 string enable
log_archive_dest_state_3 string enable

NAME TYPE VALUE
-----
log_archive_dest_state_30 string enable
log_archive_dest_state_31 string enable
log_archive_dest_state_4 string enable
log_archive_dest_state_5 string enable
log_archive_dest_state_6 string enable
log_archive_dest_state_7 string enable
log_archive_dest_state_8 string enable
log_archive_dest_state_9 string enable
log_archive_duplex_dest string
log_archive_format string %t_%s_%r.dbf
log_archive_local_first boolean TRUE

NAME TYPE VALUE
-----
log_archive_max_processes integer 4
log_archive_min_succeed_dest integer 1
log_archive_start boolean FALSE
log_archive_trace integer 0
log_buffer integer 2224128
log_checkpoint_interval integer 0
log_checkpoint_timeout integer 1800
log_checkpoints_to_alert boolean FALSE
log_file_name_convert string
max_dispatchers integer
max_dump_file_size string unlimited

NAME TYPE VALUE
-----
max_enabled_roles integer 150
max_shared_servers integer
memory_max_target big integer 804M
memory_target big integer 804M
nls_calendar string
nls_comp string BINARY
nls_currency string
nls_date_format string
nls_date_language string
nls_dual_currency string
nls_iso_currency string

NAME TYPE VALUE
-----
nls_language string AMERICAN
nls_length_semantics string BYTE
nls_nchar_conv_exp string FALSE
nls_numeric_characters string
nls_sort string
nls_territory string AMERICA
nls_time_format string
nls_time_tz_format string
nls_timestamp_format string
nls_timestamp_tz_format string
object_cache_max_size_percent integer 10

NAME TYPE VALUE
-----
object_cache_optimal_size integer 102400
olap_page_pool_size big integer 0
open_cursors integer 300
open_links integer 4
open_links_per_instance integer 4
optimizer_capture_sql_plan_baselines boolean FALSE
optimizer_dynamic_sampling integer 2
optimizer_features_enable string 11.2.0.1
optimizer_index_caching integer 0
optimizer_index_cost_adj integer 100
optimizer_mode string ALL_ROWS

NAME TYPE VALUE
-----
optimizer_secure_view_merging boolean TRUE
optimizer_use_invisible_indexes boolean FALSE
optimizer_use_pending_statistics boolean FALSE
optimizer_use_sql_plan_baselines boolean TRUE
os_authn_prefix string op$
os_roles boolean FALSE
parallel_adaptive_multi_user boolean TRUE
parallel_automatic_tuning boolean FALSE
parallel_degree_limit string CPU
parallel_degree_policy string MANUAL
parallel_execution_message_size integer 16384

NAME TYPE VALUE
-----
parallel_force_local boolean FALSE
parallel_instance_group string
parallel_io_cap_enabled boolean FALSE
parallel_max_servers integer 10
parallel_min_percent integer 0
parallel_min_servers integer 0
parallel_min_time_threshold string AUTO
parallel_server boolean FALSE

```

NAME TYPE VALUE	parallel_min_servers integer 0 parallel_min_time_threshold string AUTO parallel_server boolean FALSE parallel_server_instances integer 1 parallel_servers_target integer 4 parallel_threads_per_cpu integer 2 permit_92_wrap_format boolean TRUE pga_aggregate_target big integer 0 plscope_settings string IDENTIFIERS:NONE plsq_cclflags string plsq_code_type string INTERPRETED plsq_debug boolean FALSE plsq_optimize_level integer 2 plsq_v2_compatibility boolean FALSE	parallel_server boolean FALSE parallel_server_instances integer 1 parallel_servers_target integer 4 parallel_threads_per_cpu integer 2 permit_92_wrap_format boolean TRUE pga_aggregate_target big integer 0
NAME TYPE VALUE	NAME TYPE VALUE	NAME TYPE VALUE
plsq_warnings string DISABLE:ALL pre_page_sga boolean FALSE processes integer 150 query_rewrite_enabled string TRUE query_rewrite_integrity string enforced rdbms_server_dn string read_only_open_delayed boolean FALSE recovery_parallelism integer 0 recyclebin string on redo_transport_user string remote_dependencies_mode string TIMESTAMP	plscope_settings string IDENTIFIERS:NONE plsq_cclflags string plsq_code_type string INTERPRETED plsq_debug boolean FALSE plsq_optimize_level integer 2 plsq_v2_compatibility boolean FALSE plsq_warnings string DISABLE:ALL pre_page_sga boolean FALSE processes integer 150 query_rewrite_enabled string TRUE query_rewrite_integrity string enforced	plsq_code_type string INTERPRETED plsq_debug boolean FALSE plsq_optimize_level integer 2 plsq_v2_compatibility boolean FALSE plsq_warnings string DISABLE:ALL pre_page_sga boolean FALSE processes integer 150
NAME TYPE VALUE	NAME TYPE VALUE	NAME TYPE VALUE
remote_listener string remote_login_passwordfile string EXCLUSIVE remote_os_authn boolean FALSE remote_os_roles boolean FALSE replication_dependency_tracking boolean TRUE resource_limit boolean FALSE resource_manager_cpu_allocation integer 1 resource_manager_plan string result_cache_max_result integer 5 result_cache_max_size big integer 2080K result_cache_mode string MANUAL	rdbms_server_dn string read_only_open_delayed boolean FALSE recovery_parallelism integer 0 recyclebin string on redo_transport_user string remote_dependencies_mode string TIMESTAMP remote_listener string remote_login_passwordfile string EXCLUSIVE remote_os_authn boolean FALSE remote_os_roles boolean FALSE replication_dependency_tracking boolean TRUE	query_rewrite_enabled string TRUE query_rewrite_integrity string enforced rdbms_server_dn string read_only_open_delayed boolean FALSE recovery_parallelism integer 0 recyclebin string on redo_transport_user string remote_dependencies_mode string TIMESTAMP remote_listener string remote_login_passwordfile string EXCLUSIVE remote_os_authn boolean FALSE
NAME TYPE VALUE	NAME TYPE VALUE	NAME TYPE VALUE
result_cache_remote_expiration integer 0 resumable_timeout integer 0 rollback_segments string sec_case_sensitive_logon boolean TRUE sec_max_failed_login_attempts integer 10 sec_protocol_error_further_action string CONTINUE sec_protocol_error_trace_action string TRACE sec_return_server_release_banner boolean FALSE serial_reuse string disable service_names string PROD1 session_cached_cursors integer 50	resource_limit boolean FALSE resource_manager_cpu_allocation integer 1 resource_manager_plan string result_cache_max_result integer 5 result_cache_max_size big integer 2080K result_cache_mode string MANUAL result_cache_remote_expiration integer 0 resumable_timeout integer 0 rollback_segments string sec_case_sensitive_logon boolean TRUE sec_max_failed_login_attempts integer 10	remote_os_roles boolean FALSE replication_dependency_tracking boolean TRUE resource_limit boolean FALSE resource_manager_cpu_allocation integer 1 resource_manager_plan string result_cache_max_result integer 5 result_cache_max_size big integer 2080K result_cache_mode string MANUAL result_cache_remote_expiration integer 0 resumable_timeout integer 0 rollback_segments string
NAME TYPE VALUE	NAME TYPE VALUE	NAME TYPE VALUE
session_max_open_files integer 10 sessions integer 247 sga_max_size big integer 804M sga_target big integer 0 shadow_core_dump string partial shared_memory_address integer 0 shared_pool_reserved_size big integer 13212057 shared_pool_size big integer 0 shared_server_sessions integer 1 skip_unusable_indexes boolean TRUE	sec_protocol_error_further_action string CONTINUE sec_protocol_error_trace_action string TRACE sec_return_server_release_banner boolean FALSE serial_reuse string disable service_names string PROD1DR session_cached_cursors integer 50 session_max_open_files integer 10 sessions integer 247 sga_max_size big integer 804M sga_target big integer 0 shadow_core_dump string partial	remote_os_authn boolean FALSE remote_os_roles boolean FALSE sec_case_sensitive_logon boolean TRUE sec_max_failed_login_attempts integer 10 sec_protocol_error_further_action string CONTINUE sec_protocol_error_trace_action string TRACE sec_return_server_release_banner boolean FALSE serial_reuse string disable service_names string PROD1LR session_cached_cursors integer 50 session_max_open_files integer 10 sessions integer 247 sga_max_size big integer 804M
NAME TYPE VALUE	NAME TYPE VALUE	NAME TYPE VALUE
smtp_out_server string sort_area_retained_size integer 0 sort_area_size integer 65536 spfile string +DATA/prod1/spfileprod1.ora sql92_security boolean FALSE sql_trace boolean FALSE sqltune_category string DEFAULT standby_archive_dest string 7/dbs/arch standby_file_management string AUTO star_transformation_enabled string FALSE statistics_level string TYPICAL	session_max_open_files integer 10 sessions integer 247 sga_max_size big integer 804M sga_target big integer 0 shadow_core_dump string partial	sga_target big integer 0 shadow_core_dump string partial shared_memory_address integer 0 shared_pool_reserved_size big integer 8808038 shared_pool_size big integer 0 shared_server_sessions integer 1 skip_unusable_indexes boolean TRUE smtp_out_server string sort_area_retained_size integer 0 sort_area_size integer 65536
NAME TYPE VALUE	NAME TYPE VALUE	NAME TYPE VALUE
streams_pool_size big integer 0 tape_async_io boolean TRUE thread integer 0 timed_os_statistics integer 0 timed_statistics boolean TRUE trace_enabled boolean TRUE tracefile_identifier string transactions integer 271 transactions_per_rollback_segment integer 5 undo_management string AUTO undo_retention integer 900	spfile string +DATA/prod1/spfileprod1.ora sql92_security boolean FALSE sql_trace boolean FALSE sqltune_category string DEFAULT standby_archive_dest string 7/dbs/arch standby_file_management string AUTO star_transformation_enabled string FALSE statistics_level string TYPICAL streams_pool_size big integer 0 tape_async_io boolean TRUE thread integer 0	spfile string /u01/app/oracle/product/11.2.0/dbhome_1/dbs/spfilePROD1LR.or
NAME TYPE VALUE	NAME TYPE VALUE	NAME TYPE VALUE
undo_tablespace string UNDOTBS1 use_indirect_data_buffers boolean FALSE utl_file_dir string workarea_size_policy string AUTO xml_db_events string enable	a sql92_security boolean FALSE sql_trace boolean FALSE sqltune_category string DEFAULT standby_archive_dest string 7/dbs/arch standby_file_management string AUTO star_transformation_enabled string FALSE statistics_level string TYPICAL streams_pool_size big integer 0 tape_async_io boolean TRUE thread integer 0	spfile string /u01/app/oracle/product/11.2.0/dbhome_1/dbs/spfilePROD1LR.or a sql92_security boolean FALSE sql_trace boolean FALSE sqltune_category string DEFAULT standby_archive_dest string 7/dbs/arch standby_file_management string AUTO star_transformation_enabled string FALSE statistics_level string TYPICAL streams_pool_size big integer 0
NAME TYPE VALUE	NAME TYPE VALUE	NAME TYPE VALUE
undo_tablespace string UNDOTBS1 use_indirect_data_buffers boolean FALSE utl_file_dir string workarea_size_policy string AUTO xml_db_events string enable	timed_os_statistics integer 0 timed_statistics boolean TRUE trace_enabled boolean TRUE tracefile_identifier string transactions integer 271 transactions_per_rollback_segment integer 5 undo_management string AUTO undo_retention integer 900 undo_tablespace string UNDOTBS1 use_indirect_data_buffers boolean FALSE user_dump_dest string /u01/app/oracle/diag/rdbms/prod1dr/PROD1DR/trace utl_file_dir string workarea_size_policy string AUTO xml_db_events string enable	transactions integer 271 transactions_per_rollback_segment integer 5 undo_management string AUTO undo_retention integer 900 undo_tablespace string UNDOTBS1
NAME TYPE VALUE	NAME TYPE VALUE	NAME TYPE VALUE
undo_tablespace string UNDOTBS1 use_indirect_data_buffers boolean FALSE utl_file_dir string workarea_size_policy string AUTO xml_db_events string enable	undo_tablespace string UNDOTBS1 use_indirect_data_buffers boolean FALSE user_dump_dest string /u01/app/oracle/diag/rdbms/prod1dr/PROD1DR/trace utl_file_dir string workarea_size_policy string AUTO xml_db_events string enable	undo_management string AUTO undo_retention integer 900 undo_tablespace string UNDOTBS1

## Broker Configuration

	DGMGRL for Linux: Version 11.2.0.1.0 - 64bit Production  Copyright (c) 2000, 2009, Oracle. All rights reserved.  Welcome to DGMGRL, type "help" for information. Connected. DGMGRL> show configuration  Configuration - prod1  Protection Mode: MaxPerformance Databases: prod1 - Primary database prod1dr - Physical standby database prod1lr - Logical standby database  Fast-Start Failover: DISABLED  Configuration Status: SUCCESS
show configuration	
prod1 database (primary)	DGMGRL> show database verbose prod1  Database - prod1  Role: PRIMARY Intended State: TRANSPORT-ON Instance(s): PROD1  Properties: DGConnectIdentifier = 'prod1'

	<pre> ObserverConnectIdentifier = " LogXptMode = 'ASYNC' DelayMins = '0' Binding = 'optional' MaxFailure = '0' MaxConnections = '1' ReopenSecs = '300' NetTimeout = '30' RedoCompression = 'DISABLE' LogShipping = 'ON'  PreferredApplyInstance = " ApplyInstanceTimeout = '0' ApplyParallel = 'AUTO' LsbyASkipTxnCfgPr = '0,0,0' LsbyDSkipTxnCfgPr = '0,0,0' LsbyASkipCfgPr = " LsbyDSkipCfgPr = " LsbyASkipErrorCfgPr = " LsbyDSkipErrorCfgPr = " LsbyMaxEventsRecorded = '0' LsbyPreserveCommitOrder = " LsbyRecordSkipErrors = " LsbyRecordSkipDdl = " LsbyRecordAppliedDdl = " StandbyFileManagement = 'AUTO' ArchiveLagTarget = '0' LogArchiveMaxProcesses = '4' LogArchiveMinSucceedDest = '1' DbFileNameConvert = " LogFileNameConvert = " FastStartFailoverTarget = " StatusReport = '(monitor)' InconsistentProperties = '(monitor)' InconsistentLogXptProps = '(monitor)' SendQEntries = '(monitor)' LogXptStatus = '(monitor)' RecvQEntries = '(monitor)' LsbyParameters = '(monitor)' LsbySkipTxnTable = '(monitor)' LsbySkipTable = '(monitor)' LsbyFailedTxnInfo = '(monitor)' HostName = 'primarydg01' SidName = 'PROD1' StaticConnectIdentifier = '(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=primarydg01) (PORT=1521)))(CONNECT_DATA=(SERVICE_NAME=PROD1_DGMGRL)(INSTANCE_NAME=PROD1)(SERVER=DEDICATED)))' StandbyArchiveLocation = 'USE_DB_RECOVERY_FILE_DEST' AlternateLocation = " LogArchiveTrace = '0' LogArchiveFormat = '%t_%s_%r.dbf' LsbyMaxSga = '0' LsbyMaxServers = '0' TopWaitEvents = '(monitor)'  Database Status: SUCCESS </pre>
prod1dr database (physical standby)	<pre> DGMGRL&gt; show database verbose prod1dr  Database - prod1dr  Role: PHYSICAL STANDBY Intended State: APPLY-ON Transport Lag: 0 seconds Apply Lag: 0 seconds Real Time Query: OFF Instance(s): PROD1DR  Properties: DGConnectIdentifier = 'prod1dr' ObserverConnectIdentifier = " LogXptMode = 'ASYNC' DelayMins = '0' Binding = 'OPTIONAL' MaxFailure = '0' MaxConnections = '1' ReopenSecs = '300' NetTimeout = '30' RedoCompression = 'DISABLE' LogShipping = 'ON' PreferredApplyInstance = " ApplyInstanceTimeout = '0' ApplyParallel = 'AUTO' StandbyFileManagement = 'AUTO' ArchiveLagTarget = '0' LogArchiveMaxProcesses = '4' LogArchiveMinSucceedDest = '1' DbFileNameConvert = " LogFileNameConvert = " FastStartFailoverTarget = " StatusReport = '(monitor)' InconsistentProperties = '(monitor)' InconsistentLogXptProps = '(monitor)' SendQEntries = '(monitor)' LogXptStatus = '(monitor)' RecvQEntries = '(monitor)' HostName = 'physicaldg01' SidName = 'PROD1DR' StaticConnectIdentifier = '(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=physicaldg01) (PORT=1521)))(CONNECT_DATA=(SERVICE_NAME=PROD1DR_DGMGRL)(INSTANCE_NAME=PROD1DR)(SERVER=DEDICATED)))' StandbyArchiveLocation = 'USE_DB_RECOVERY_FILE_DEST' AlternateLocation = " LogArchiveTrace = '0' LogArchiveFormat = '%t_%s_%r.dbf' TopWaitEvents = '(monitor)'  Database Status: SUCCESS </pre>
prod1lr database (logical standby)	<pre> DGMGRL&gt; show database verbose prod1lr  Database - prod1lr  Role: LOGICAL STANDBY Intended State: APPLY-ON Transport Lag: 0 seconds Apply Lag: 0 seconds Instance(s): PROD1LR  Properties: DGConnectIdentifier = 'prod1lr' ObserverConnectIdentifier = " LogXptMode = 'ASYNC' DelayMins = '0' Binding = 'OPTIONAL' MaxFailure = '0' MaxConnections = '1' ReopenSecs = '300' NetTimeout = '30' RedoCompression = 'DISABLE' LogShipping = 'ON' PreferredApplyInstance = " ApplyInstanceTimeout = '0' LsbyASkipTxnCfgPr = '0,0,0' LsbyDSkipTxnCfgPr = '0,0,0' LsbyASkipCfgPr = " LsbyDSkipCfgPr = " LsbyASkipErrorCfgPr = " LsbyDSkipErrorCfgPr = " LsbyMaxEventsRecorded = '0' LsbyPreserveCommitOrder = " LsbyRecordSkipErrors = " LsbyRecordSkipDdl = " LsbyRecordAnnulwtdDdl = " </pre>

```
ArchiveLagTarget = '0'  
LogArchiveMaxProcesses = '4'  
LogArchiveMinSucceedDest = '1'  
FastStartFailoverTarget = ''  
StatusReport = '(monitor)'  
InconsistentProperties = '(monitor)'  
InconsistentLogXptProps = '(monitor)'  
SendQEntries = '(monitor)'  
LogXptStatus = '(monitor)'  
RecvQEntries = '(monitor)'  
LsbyParameters = '(monitor)'  
LsbySkipTxnTable = '(monitor)'  
LsbySkipTable = '(monitor)'  
LsbyFailedTxnInfo = '(monitor)'  
HostName = logicaldg01  
SidName = 'PROD1LR'  
StaticConnectIdentifier = '(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=logicaldg01)  
(PORT=1521)))(CONNECT_DATA=(SERVICE_NAME=PROD1LR_DGMGRL)(INSTANCE_NAME=PROD1LR)(SERVER=DEDICATED)))'  
StandbyArchiveLocation = 'USE_DB_RECOVERY_FILE_DEST'  
AlternateLocation = ''  
LogArchiveTrace = '0'  
LogArchiveFormat = '%t_%s_%r.dbf'  
LsbyMaxSga = '0'  
LsbyMaxServers = '0'  
TopWaitEvents = '(monitor)'  
  
Database Status:  
SUCCESS
```