<http://arjudba.blogspot.com/2008/07/database-startup-fails-with-error-ora.html>

[**Database Startup fails with error ORA-16038,ORA-19809, ORA-00312**](http://arjudba.blogspot.com/2008/07/database-startup-fails-with-error-ora.html)

Server Users Password:

Oracle System User : paycheck@01234

Root User:paycheck@5234

Oracle: ora11g

Sys/System/dbsnmp/sysman/admin : paydb1

Instance: paydb1

connect sys/oracle as sysdba

**Error Description:**  
Whenever you try to startup the database it fails with error ORA-16038,ORA-19809, ORA-00312.  
**SQL> startup**  
ORACLE instance started.  
  
Total System Global Area 167772160 bytes  
Fixed Size 2019288 bytes  
Variable Size 117440552 bytes  
Database Buffers 41943040 bytes  
Redo Buffers 6369280 bytes  
Database mounted.  
ORA-16038: log 3 sequence# 572 cannot be archived  
ORA-19809: limit exceeded for recovery files  
ORA-00312: online log 3 thread 1: '/oradata2/data1/dbase/redo03.log'  
  
Or in mount stage whenever you try to open the database it fails with error ORA-16014, ORA-00312.  
**SQL> alter database open;**  
alter database open  
\*  
ERROR at line 1:  
ORA-16014: log 3 sequence# 572 not archived, no available destinations  
ORA-00312: online log 3 thread 1: '/oradata2/data1/dbase/redo03.log'  
  
**Cause of The Problem:  
----------------------------------------**  
There was an attempt to archived the online log 3 but it could not archive the online log in the available archived log destination. The most common of happening the error is the archive log destination if full. You have flash recovery area configured and rman retention policy is failed to delete any archived or incremental backups and so can't archived new online log.  
  
**Solution of The Problem:  
-------------------------------------------**  
**Solution A:(Enough space on the drive)**  
1)One more check the alert log. (Not needed though)  
An extra check you can do in alert log which is in background\_dump\_dest/alert\_$ORACLE\_SID.log  
**SQL> show parameter background\_dump\_dest**  
NAME TYPE VALUE  
------------------------------------ ----------- ------------------------------  
background\_dump\_dest string /oracle/app/oracle/product/10.  
2.0/db\_1/admin/dbase/bdump  
**$less /oracle/app/oracle/product/10.2.0/db\_1/admin/dbase/bdump/alert\_dbase.log**  
You may see the same entry is in the alert log.  
  
2)Check the archive destination.  
**SQL> archive log list**  
Database log mode Archive Mode  
Automatic archival Enabled  
Archive destination USE\_DB\_RECOVERY\_FILE\_DEST  
Oldest online log sequence 572  
Next log sequence to archive 572  
Current log sequence 580  
  
So archived log destination is DB\_RECOVERY\_FILE\_DEST. You can see the exact destination in OS by,   
**SQL> show parameter db\_recover**  
  
NAME TYPE VALUE  
------------------------------------ ----------- ------------------------------  
db\_recovery\_file\_dest string /oradata2/flash\_recovery\_area  
db\_recovery\_file\_dest\_size big integer 10G  
  
3)Increase the value of db\_recovery\_file\_dest\_size  
As archive destination is full so increase the size.  
**SQL> alter system set db\_recovery\_file\_dest\_size=20G;**  
System altered.  
  
4)Open the database now.  
**SQL> alter database open;**  
Database altered.  
  
**Solution B: Have not enough space on the drive**  
If you have not enough space in your disk and you have recent backup of your database and archive log is not needed then you can issue  
**$rman target /  
RMAN>DELETE ARCHIVELOG UNTIL TIME 'SYSDATE-1';**

**If not deleting then force**

delete force archivelog all;

**Solution C: Have not any backup**  
If you have not any recent backup then backup database to another location and delete archivelogs.  
  
To do this,  
**$rman target /  
RMAN>backup format '/oradata2/%U' archivelog all delete input database;**  
  
**Solution D: Have recent backup and only need archivelog**  
  
In this case backup the archive log to another location and delete archive log from flash recovery area.  
You can do this by,  
 **$rman target /  
RMAN> backup format '/oradata2/%U' archivelog all delete input;**

The following command can be used to stop [arch](http://www.adp-gmbh.ch/ora/concepts/processes/arch.html).

alter system archive log stop

Similarly, arch is started with

alter system archive log start

However, changing the archiver this way doesn't last when the database is restarted. When the database is started, it consults [log\_archive\_start](http://www.adp-gmbh.ch/ora/misc/init_params.html" \l "log_archive_start) in the initialization file to determine if [arch](http://www.adp-gmbh.ch/ora/concepts/processes/arch.html) is started.

**To recover database because of power failure.**

Sqlplus / as sysdba

>shutdown immediate

**> startup mount**  
**> alter database recover until cancel using backup controlfile; (i have ignored promtings).**  
**> alter database recover continue default; (until it says “no such file or directory” or there are no more suggestions.)**  
**> alter database recover cancel;**  
**> alter database open resetlogs;**

## To start Database:

* Login using oracle user
* Run dbstart

To start Oracle listenser

* Run lsnrctl

# If database could not start or cannot login

1. Restart the m/c using amazon aws console
2. Move one archive file from /u01/flash\_recovery\_area/PAYDB1/archivelog/<latest date > to /u02/admin/payroll/archieve
3. Run rman target/
4. **DELETE ARCHIVELOG UNTIL TIME 'SYSDATE-1';**
5. Move back the same file to /u01/app/oracle/product/11.1.0/db\_1/dbs and execute DELTETE command from rman again
6. You may need to use this command using sqlplus / as sysdba, alter database open resetlogs;
7. **Run dbstart**
8. **Run lsnrctl**

**DELETE ARCHIVELOG UNTIL TIME 'SYSDATE-1';**

To find archive file location:

1. Go to /u01/app/oracle/product/11.1.0/db\_1 and type command ls d\*
2. $ whereis arch1\* will show you the location of archive files

Location of archive files

Steps:

/u01/app/oracle/product/11.1.0/db\_1/dbs

Steps for Stop and Start

1. Make sure that elastic ip not change
2. Modify tnsnames.ora and listener.ora for their host name= <New Private IP> located at [/u01/app/oracle/product/11.2.0/db\_1/network/admin Ex: ip-10-80-127-64

# Starting Problem with opening database

1. sqlplus / as sysdba
2. startup nomount
3. alter system set db\_recovery\_file\_dest\_size=20g scope=both;
4. alter database mount;
5. alter database open;