

STEPS TO CREATE ORACLE DATABASE MANUALLY ON LINUX

This article shows you steps to create a [database](#) manually on Linux.

Step 1:

First create all the necessary directories. Followings are my directories:

```
testdb1]$ ls
admin backup archive
admin]$ ls
adump bdump cdump udump
```

Step 2:

Next prepare the database creation script. Following is my script "testdb1.sql"

```
CREATE DATABASE "testdb1"
MAXLOGFILES 5
MAXLOGMEMBERS 5
MAXDATAFILES 100
MAXINSTANCES 1
MAXLOGHISTORY 292
LOGFILE
GROUP 1 '/d02/monish/testdb1/redo1.log' SIZE 10M,
GROUP 2 '/d02/monish/testdb1/redo2.log' SIZE 10M,
GROUP 3 '/d02/monish/testdb1/redo3.log' SIZE 10M
DATAFILE
'/d02/monish/testdb1/system.dbf' size 100m,
'/d02/monish/testdb1/usr04.dbf' size 10m
sysaux datafile '/d02/monish/testdb1/sysaux.dbf' size 100m
undo tablespace undotbs
datafile '/d02/monish/testdb1/undo.dbf' size 50m
CHARACTER SET US7ASCII
;
```

Step 3:

Prepare the init file. Like this one [inittestdb1.ora]

```
*.audit_file_dest='/d02/monish/testdb1/admin/adump'
*.background_dump_dest='/d02/monish/testdb1/admin/bdump'
*.compatible='10.2.0.3.0'
*.control_files='/d02/monish/testdb1/control01.ctl',
'/d02/monish/testdb1/control02.ctl','/d02/monish/testdb1/control03.ctl'
*.core_dump_dest='/d02/monish/testdb1/admin/cdump'
*.db_block_size=8192
*.db_domain=""
*.db_file_multiblock_read_count=16
*.db_name='testdb1'
*.dispatchers=(PROTOCOL=TCP) (SERVICE=indiaXDB)
*.job_queue_processes=10
*.log_archive_dest_1='LOCATION=/d02/monish/testdb1/archive'
*.log_archive_format='%t_%s_%r.dbf'
*.open_cursors=300
*.pga_aggregate_target=200278016
```

```
*.processes=150
*.remote_login_passwordfile='EXCLUSIVE'
*.sga_target=601882624
*.undo_management='AUTO'
*.undo_tablespace='UNDOTBS'
*.user_dump_dest='/d02/monish/testdb1/admin/udump'
*.db_recovery_file_dest='/d02/monish/testdb1/backup'
*.db_recovery_file_dest_size=2147483648
```

Step 4:

Now perform the following steps:

```
$ export ORACLE_SID=testdb1
```

```
$ sqlplus / as sysdba
```

```
SQL*Plus: Release 10.2.0.3.0 - Production on Thu May 22 17:35:28 2008
Copyright (c) 1982, 2006, Oracle. All Rights Reserved.
Connected to an idle instance.
```

```
SQL> startup pfile=/u01/app/oracle/product/10.2.0/db_1/dbs/inittestdb1.ora nomount
```

```
ORACLE instance started.
Total System Global Area 603979776 bytes
Fixed Size 1263176 bytes
Variable Size 167774648 bytes
Database Buffers 427819008 bytes
Redo Buffers 7122944 bytes
```

```
SQL> @testdb1.sql
Database created.
```

Step 5:

So your database is create. Now just run the catalog.sql and catproc.sql scripts.
You will find the in \$ cd \$ORACLE_HOME/rdbms/admin

```
SQL> @/u01/app/oracle/product/10.2.0/db_1/rdbms/admin/catalog.sql
SQL> @/u01/app/oracle/product/10.2.0/db_1/rdbms/admin/catproc.sql
SQL> select name from v$database;
```

```
NAME
-----
TESTDB1
```

Okay, now your database is ready to use.