PostgreSQL – Space Problem

# Clear / Refresh pg\_xlog :

Procedure for refresh and clear the pg\_xlog for PostgreSQL booting problem because of device space not available.

1. Connect production server via putty.
2. Stop PostgreSQL service. For production we have use 9.3 version.
   1. service postgresql93 stop
3. Check how much space taken for PostgreSQL data.
   1. du -sh /var/lib/pgsql93/data/

84G /var/lib/pgsql93/data/pg\_xlog/

1. For refreshing we need to check the previous files in xlog.
   1. /usr/lib64/pgsql93/bin/pg\_controldata /var/lib/pgsql93/data/

…

Latest checkpoint’s NextXID: 0/385464

Latest checkpoint’s NextOID: 159836

…

1. For refresh the xlog,
   1. sudo -u postgres /usr/lib64/pgsql93/bin/pg\_resetxlog -o 159836 -x 385464 -f /var/lib/pgsql93/data/

**Remember to put the correct NextOID NExtXID, don’t just copy paste this command, you should get response: Transaction log reset**

1. Refresh process is finished. Now we have to check again the space for xlog,
   1. du -sh /var/lib/pgsql93/data/

17M > du -sh /var/lib/pgsql93/data/pg\_xlog/

1. Finally, we have to start PostgreSQL service,
   1. service postgresql93 start
   2. service postgresql93 status

**Note:**

To prevent these problem, we need to check production disk space regularly and clear / remove large size log files from tomcat application and PostgreSQL logs.

Location of Application logs:

* + /usr/share/tomcat7/logs

Location of PostgreSQL logs:

* + /var/lib/pgsql9X/pg\_log