

# Installation of NewGenLib on Red Hat Linux Enterprise Edition 4.0

Important points to note before installation

- *This notes has been written based on installation on Red Hat Linux Enterprise Edition 4.0.*
- *Copy the folder LinuxInstallation from the CD into /usr directory. All the necessary installation files are available in this directory*
- *At any point, please see that read, write and execute permissions are set for the files. To do this, right click and select properties, then select permissions tab and make necessary changes. Alternatively you also run `chmod 777 <filename>` from the terminal.*

## **Installation of Red Hat Linux Enterprise Edition 4.0**

- Install Linux normally, but do not install Postgres database. Because, NewGenLib used Postgres 8.0.6.
- Make it sure that Postgres is not installed at the time of installation of Linux

## **Installation Postgres Database**

- If you are installing on Red Hat Linux 64 bit please find the postgres installation files in **postgres sql 64 bit** directory, else for Red Hat Linux 32 bit find the postgres installation files in **postgres sql 32 bit** directory.
- These rpm files should be installed in the below order for Red Hat 32 bit.
  - postgresql-libs-8.0.7-1PGDG.i686.rpm
  - postgresql-8.0.7-1PGDG.i686.rpm
  - postgresql-server-8.0.7-1PGDG.i686.rpm
  - postgresql-contrib-8.0.7-1PGDG.i686.rpm
- These rpm files should be installed in the below order for Red Hat 64 bit.
  - postgresql-libs-8.0.7-1PGDG.x86\_64.rpm
  - postgresql-8.0.7-1PGDG.x86\_64.rpm
  - postgresql-server-8.0.7-1PGDG.x86\_64.rpm
  - postgresql-contrib-8.0.7-1PGDG.x86\_64.rpm
- Please make sure about the order in which they have to be installed. Installation of rpm files is done by this example: `rpm -Uvih postgresql-libs-8.0.7-1PGDG.i686.rpm`

- To allow access from pgAdmin III from win32 systems, do the following settings
  - Open `/var/lib/pgsql/data/postgresql.conf` using gedit or any other editor application. Under Connections and Authentication set `listen_addresses='*'` instead of localhost and also uncomment it(remove hash in front of it). Also uncomment `port=5432`(remove hash in front of it).
  - Open `/var/lib/pgsql/data/pg_hba.conf` using gedit or any other editor application. Add the line
    - `host all all 192.168.0.0/24 trust`
    - The above line will allow all systems in the network that start with IP address 192.168.0
    - `host all all 192.168.0.8/32 trust`
    - The above line will allow only 192.168.0.8 to connect to database
- In the terminal login as postgres
  - `su - postgres`
- Make sure Postgres server is running
  - On your desktop Applications -> Server Settings -> Services, you'll find a service named postgres, select it and start, also save the changes so that next time the system starts the service also automatically starts
- Create a database named newgenlib using createdb.
  - `createdb newgenlib`
- Create a user named newgenlib using createuser
  - `createuser -P newgenlib`
  - System prompts for password, enter and also re-enter newgenlib as password
  - For rest of the questions asked please type y(yes)
- Now open psql(This is to execute sql queries)
  - `psql newgenlib`
  - The above command will connect to newgenlib database. Now in order to install Tsearch2
  - `\i /usr/share/pgsql/contrib/dbsize.sql`
  - `\i /usr/share/pgsql/contrib/fuzzystringmatch.sql`
  - `\i /usr/share/pgsql/contrib/tsearch2.sql`
  - This above command will create all objects necessary for Tsearch2.

## ***Restoration of Database***

- The ordinary backup file that we have been creating for Windows systems will not work here. For this, during backup of database in the Windows system, do not select compress, but select plain and take the backup. Copy this backup file into Linux system.
- Now open psql(This is to execute sql queries)
  - psql newgenlib
  - The above command will connect to newgenlib database. Now in order to NewGenLib database.
  - \i ...../<databasebackupfile>.sql

## ***Alternative restoration of Database***

- Using pgAdminIII from win32 system, restore the newgenlib backup file especially meant for linux.

## ***Installation of Jboss server***

- Copy the jboss-3.2.1\_tomcat-4.1.24 directory into /usr directory
- In /usr/jboss-3.2.1\_tomcat-4.1.24/server/default/deploy/postgres-ds.xml, change user name to newgenlib and password also to newgenlib.
- Place newgenlib.sh on the desktop

## ***NewGenLibFiles directory***

- Copy NewGenLibFiles directory into /usr directory

## ***Installation of j2sdk1.4.2\_11***

- In web site you'll find j2sdk-1\_4\_2\_11-linux-i586-rpm.bin, install it by
  - ./j2sdk-1\_4\_2\_11-linux-i586-rpm.bin
  - The above operation will generate a file named j2sdk-1\_4\_2\_11-linux-i586.rpm. To install this type below command
  - rpm -Uvih j2sdk-1\_4\_2\_11-linux-i586.rpm

## ***Running Jboss server***

- On desktop create a file named newgenlib.sh using any text editor
- Copy the contents of newgenlib.sh into the above file and save it.

- Double click on the newgenlib.sh on the desktop
- When system prompts a dialog, click on *Run in terminal*