1. yum install postgresql-server

설치후에 postgres 계정이 자동으로 생성됨

2.. passwd postgres 로 패스워드 설정

3. su – postgres의 bash\_profile 확인

**-bash-4.2$ cat ~/.bash\_profile**

**[ -f /etc/profile ] && source /etc/profile**

**PGDATA=/var/lib/pgsql/data --> data directory**

**export PGDATA**

4. PGDATA 데이타베이스 초기화를 위한 initdb실행

**-bash-4.2$ initdb**

**The files belonging to this database system will be owned by user "postgres".**

**This user must also own the server process.**

**The database cluster will be initialized with locale "en\_US.UTF-8".**

**The default database encoding has accordingly been set to "UTF8".**

**The default text search configuration will be set to "english".**

**fixing permissions on existing directory /var/lib/pgsql/data ... ok**

**creating subdirectories ... ok**

**selecting default max\_connections ... 100**

**selecting default shared\_buffers ... 32MB**

**creating configuration files ... ok**

**creating template1 database in /var/lib/pgsql/data/base/1 ... ok**

**initializing pg\_authid ... ok**

**initializing dependencies ... ok**

**creating system views ... ok**

**loading system objects' descriptions ... ok**

**creating collations ... ok**

**creating conversions ... ok**

**creating dictionaries ... ok**

**setting privileges on built-in objects ... ok**

**creating information schema ... ok**

**loading PL/pgSQL server-side language ... ok**

**vacuuming database template1 ... ok**

**copying template1 to template0 ... ok**

**copying template1 to postgres ... ok**

**WARNING: enabling "trust" authentication for local connections**

**You can change this by editing pg\_hba.conf or using the option -A, or**

**--auth-local and --auth-host, the next time you run initdb.**

**Success. You can now start the database server using:**

**postgres -D /var/lib/pgsql/data**

**or**

**pg\_ctl -D /var/lib/pgsql/data -l logfile start**

4. postgres 실행

systemctl enable postgresql-9.6.service

systemctl start postgresql-9.6.service

또는

**-bash-4.2$ pg\_ctl start**

**server starting**

**-bash-4.2$ ps -ef | grep post**

**postgres 76557 1 0 02:51 pts/1 00:00:00 /usr/bin/postgres**

**postgres 76558 76557 0 02:51 ? 00:00:00 postgres: logger process**

**postgres 76560 76557 0 02:51 ? 00:00:00 postgres: checkpointer process**

**postgres 76561 76557 0 02:51 ? 00:00:00 postgres: writer process**

**postgres 76562 76557 0 02:51 ? 00:00:00 postgres: wal writer process**

**postgres 76563 76557 0 02:51 ? 00:00:00 postgres: autovacuum launcher process**

**postgres 76564 76557 0 02:51 ? 00:00:00 postgres: stats collector process**

5. postgres 접속

**-bash-4.2$ psql**

**psql (9.2.15)**

**Type "help" for help.**

**postgres=# create database cho;**

**CREATE DATABASE**

**postgres=# create schema test; ->** **Create a schema called test in the default database postgres**

**CREATE SCHEMA**

**postgres=# create user cho password 'cho123'; -> Create a role (user) with password**

**CREATE ROLE**

**postgres=# grant all on schema test to cho;**

**GRANT -> Grant privileges (like the ability to create tables) on new schema to new role**

**postgres=# grant all on all tables in schema test to cho;**

* **Grant privileges (like the ability to insert to tables in the new schema to the new role**

**postgres=# \q -> 접속종료**

6. postgres 테이블 생성

**-bash-4.2$ psql -d postgres**

**psql (9.2.15)**

**Type "help" for help.**

**postgres=# create table test.test (coltest varchar(20));**

**CREATE TABLE**

**postgres=# insert into test.test (coltest) values ('ok');**

**INSERT 0 1**

**postgres=# select \* from test.test;**

**coltest**

**---------**

**ok**

**(1 row)**

**postgres -# \l -> 데이타베이스 보기**

**List of databases**

**Name | Owner | Encoding | Collate | Ctype | Access privileges**

**-----------+----------+----------+-------------+-------------+-----------------------**

**cho | postgres | UTF8 | en\_US.UTF-8 | en\_US.UTF-8 |**

**postgres | postgres | UTF8 | en\_US.UTF-8 | en\_US.UTF-8 |**

**template0 | postgres | UTF8 | en\_US.UTF-8 | en\_US.UTF-8 | =c/postgres +**

**| | | | | postgres=CTc/postgres**

**template1 | postgres | UTF8 | en\_US.UTF-8 | en\_US.UTF-8 | =c/postgres +**

**| | | | | postgres=CTc/postgres**

**postgres =# \dt test.\* -> test 스키마에 관련된 모든 테이블 보기**

**List of relations**

**Schema | Name | Type | Owner**

**--------+------+-------+----------**

**test | test | table | postgres**

**(1 row)**

**postgres=# create table test.test;**

**DROP TABLE**

**postgres -# \d test.test -> 스키마의 특정테이블 컬럼보기**

**Table "test.test"**

**Column | Type | Modifiers**

**---------+-----------------------+-----------**

**coltest | character varying(20) |**

7. postgres 명령어

-- psql 접속 방법  
    $ psql                                          : postgres DB에 postgres 롤로 접속  
    $ psql mydb                                 : mydb DB에 postgres 롤로 접속  
    $ psql -d mydb                             : mydb DB에 postgres 롤로 접속  
    $ psql postgres -U username          : postgres DB에 username 롤로 접속  
    $ psql -d postgres -U username     : postgres DB에 username 롤로 접속

-- 유용 명령어  
    =# \q                                    -- psql 종료(Ctrl+d)  
    =# \d                                    -- 테이블, 인덱스, 시퀀스, 뷰 목록  
    =# \dt {table\_name}               -- 컬럼 목록  
    =# \dS                                  -- 시스템테이블 목록  
    =# \dv                                  -- 뷰 목록  
    =# \ds                                  -- 시퀀스 목록  
    =# \dl                                   -- DB 목록  
    =# \du                                  -- 롤(사용자) 목록  
    =# \dn                                  -- 스키마 목록  
    =# \c {db\_name}                   -- 다른 DB에 접속  
    =# \c {db\_name} {usr\_name} -- 다른 DB에 지정된 사용자로 접속  
    =# \db                                  -- 테이블스페이스 목록

