

postgresSQL

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postgresql 9.2.4 설치

1. 설치정보

- Postgresql : 9.2.4
- OS : Centos 5.10

2. postgresql 컴파일때 필요한 패키지 설치

```
$> yum -y install compat-readline43 readline-devel crypto-utils.* openssl* readline-devel pam-devel
```

3. 압축 해제하고 , 컴파일 -> 설치 들어가기

```
$> tar -zxvf postgresql-9.2.4.tar.gz
$> cd postgresql-9.2.4
./configure \
-#45enable-nls='ko' \
-#45enable-depend \
-#45enable-thread-safety \
--mandir=/usr/share/man \
--with-includes=/usr/include \
--with-pam \
--with-openssl \
--without-tcl \
--without-perl \
--without-python
$> gmake ; gmake install
```

4. postgres사용자 추가

```
$> groupadd dba
$> adduser -d /usr/local/pgsql -g dba -c "PostgreSQL Master User" -m -s $> /bin/bash postgres
$> mkdir /usr/local/pgsql/data
$> chown postgres /usr/local/pgsql/data
$> chown -R postgres:dba /usr/local/pgsql
$> cd /usr/local/pgsql
$> chown -R root lib include
```

5. 추가된 postgres sql 사용자에게 대해서 postgresql 사용할수 있게 설정

```
$> su - postgres
$> echo "
export MANPATH=\$HOME/man
export PGDATA=/usr/local/pgsql/data
export PATH=\$PATH:/usr/local/pgsql/bin" >> /usr/local/pgsql/.bash_profile
$> source /usr/local/pgsql/.bash_profile
$> exit
```

6. postgresql DB초기화 하기

```
$> su - postgres -c "/usr/local/pgsql/bin/initdb -D /usr/local/pgsql/data"
```

7. 재부팅 이후에도 실행할 수 있게 rc.local에 등록하기

```
$> echo 'su - postgres -c "/usr/local/pgsql/bin/pg_ctl start -D /usr/local/pgsql/data" &' >> /etc/rc.d/rc.local
```

8. 네트워크에서 5432번 포트 열려있는지 확인

```
$> netstat -antp
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address Foreign Address State PID/Program name
...
tcp 0 0 127.0.0.1:5432 0.0.0.0:* LISTEN 22435/postgres
...
```


postgresSQL 9.4.26 설치

패키지 설치진행

1. db실행 사용자 및 data 디렉토리 생성

```
$> useradd psql
$> mkdir /home/data
$> chown -R psql: /home/data
```

2. source 파일 다운로드

```
$> wget https://ftp.postgresql.org/pub/source/v9.4.26/postgresql-9.4.26.tar.gz --no-check-certificate
```

3. dependency 패키지 설치

```
$> yum install \
readline-devel \
zlib-devel \
openssl-devel \
tcl-devel -y
```

4. 컴파일 후 설치진행

```
$> ./configure --prefix=/usr/local/psql --with-openssl --with-tcl
$> make -j 4
$> make -j 4 install
```

DB 실행

1. psql 실행

```
$> su - psql
$> cd /usr/local/psql/bin
$> ./initdb -D /home/data
```

The files belonging to this database system will be owned by user "psql".
This user must also own the server process.

The database cluster will be initialized with locale "ko_KR.UTF-8".
The default database encoding has accordingly been set to "UTF8".
initdb: could not find suitable text search configuration for locale "ko_KR.UTF-8"
The default text search configuration will be set to "simple".

Data page checksums are disabled.

```
fixing permissions on existing directory /home/data ... ok
creating subdirectories ... ok
selecting default max_connections ... 100
selecting default shared_buffers ... 128MB
selecting default timezone ... ROK
selecting dynamic shared memory implementation ... posix
creating configuration files ... ok
creating template1 database in /home/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
syncing data to disk ... 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 /home/data
or
./pg_ctl -D /home/data -l logfile start
```

2. 프로세스 실행

```
$ /usr/local/pgsql/bin/postgres -D /home/data/ >logfile 2>&1 &
```

3. 프로세스 실행상태 확인

```
$> ps -ef | grep post
psql  16193 16108  0 10:54 pts/0    00:00:00 /usr/local/pgsql/bin/postgres -D /home/data/
psql  16195 16193  0 10:54 ?        00:00:00 postgres: checkpointer process
psql  16196 16193  0 10:54 ?        00:00:00 postgres: writer process
psql  16197 16193  0 10:54 ?        00:00:00 postgres: wal writer process
psql  16198 16193  0 10:54 ?        00:00:00 postgres: autovacuum launcher process
psql  16199 16193  0 10:54 ?        00:00:00 postgres: stats collector process
psql  16201 16108  0 10:54 pts/0    00:00:00 grep --color=auto post
```

```
netstat -antp | grep postgres
```

(Not all processes could be identified, non-owned process info
will not be shown, you would have to be root to see it all.)

```
tcp    0  0 127.0.0.1:5432      0.0.0.0:*        LISTEN  16193/postgres
tcp6   0  0 :::5432            :::*             LISTEN  16193/postgres
```

postgresql 데이터 백업/관리

1. DB데이터 백업하기

```
-bash-4.1$ pg_dump testdb > test.sql
```

2. DB 스키마만 덤프할때

```
bash-4.1$ pg_dump -s testdb > test.sql
```

3. 데이터 복원

```
bash-4.1$ psql testdb < test.sql
```

싱글모드 진입절차

Centos7버전에서 HDD 수동 드라이버 구성 HDD 수동 드라이버 구성 (자동으로 드라이 브 검색 실패시)

설치 옵션 입력

A screenshot of the CentOS 7 installation boot menu. The menu is displayed on a black background with white text. At the top, it says "CentOS 7". Below that, there are three options: "Install CentOS 7", "Test this media & install CentOS 7", and "Troubleshooting" with a right-pointing arrow. At the bottom, there is a command prompt showing the command: > vmlinuz initrd=initrd.img inst.stage2=hd:LABEL=CentOS\x207\x20x86_64 quiet i
nst.dd_

```
CentOS 7

Install CentOS 7
Test this media & install CentOS 7
Troubleshooting >

> vmlinuz initrd=initrd.img inst.stage2=hd:LABEL=CentOS\x207\x20x86_64 quiet i
nst.dd_
```

Tab키 입력 후 하단에 inst.dd 입력

드라이버 추가

```
Starting Driver Update Disk UI on tty1...
DD: Checking devices

Page 1 of 1
Driver disk device selection
  DEVICE      TYPE    LABEL      UUID
  1)  uda1     ext2    HOME        8c9d0c6e-4fea-4910-9bac-6609bc8ff847
  2)  uda2     xfs                 9dcc606d-a9ca-41d1-98b5-e9411769e37f
  3)  vdb1     ext4    DD_PART     dd69ffa5-c72e-4b61-ae39-0197d6960fc3

# to select, 'n'-next page, 'p'-previous page or 'c'-continue: 3
[ 97.268612] EXT4-fs (vdb1): mounted filesystem without journal. Opts: (null)

Page 1 of 1
Choose driver disk ISO file
  1)  dd.iso

# to select, 'n'-next page, 'p'-previous page or 'c'-continue: 1
DD: Checking device /media/DD-search/dd.iso
[ 112.233480] loop: module loaded
DD: Processing DD repo /media/DD//rpms/x86_64 on /media/DD-search/dd.iso

Page 1 of 1
Select drivers to install
  1) [ ] /media/DD//rpms/x86_64/kmod_e10.rpm

# to toggle selection, 'n'-next page, 'p'-previous page or 'c'-continue: 1

Page 1 of 1
Select drivers to install
  1) [x] /media/DD//rpms/x86_64/kmod_e10.rpm

# to toggle selection, 'n'-next page, 'p'-previous page or 'c'-continue: _
```

입력 완료 후 'c' 입력

Centos 7.x 설치하기 (DVD 미디어로 설치) 3번과정 참조

- 수동으로 HDD 드라이브 추가하여 설치 한 이후, 커널 업데이트 진행시,업데이트하는 커널에는 해당 드라이브 정보가 빠져있게 되어 디스크정보를 못찾거나, 레이드 정보가 틀어지는 이슈사항이 있기 때문에, 수동 HDD 드라이브 추가시 yum update부분은 신중하게 판단해야 함.
- 해결방안은 업데이트하는 커널에도 해당 디스크 드라이브를 추가할 수 있게

커널 컴파일을 하는 방법과 Yum update 시 커널은 제외할 수 있게 옵션 설정이 필요함