

# postgresql

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# postgresql 9.2.4

## 1.

- Postgresql : 9.2.4
- OS : Centos 5.10

## 2. postgresql 依赖包

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

## 3. 解压 postgresql-9.2.4.tar.gz 包，并安装

```
$> 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. postgres 用户和组

```
$> 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. postgresql 5.5.4 postgresql 5.5.4 5.5.4 5.5.4

```
$> 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 DB 5.5.4 5.5.4

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

## 7. postgresql 5.5.4 postgresql 5.5.4 rc.local 5.5.4

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

## 8. postgresql 5.5.4 postgresql 5.5.4 postgresql 5.5.4

```
$> 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
...
```

# postgresql 9.4.26



1. db user and data directory

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

2. source

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

3. dependency

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

4. configure and make

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

## DB

1. psql

```
$> 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. `psql` `ps`

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

3. `psql` `ps` `netstat`

```
$> ps -ef | grep post
```

```
psql  16193 16108  0 10:54 pts/0    00:00:00 /usr/local/psql/bin/postgres -D /home/data/
psql  16195 16193  0 10:54 ?        00:00:00 postgres: checkpoint 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 备份 / 还原

1. DB 备份 数据

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

2. DB 备份 结构

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

3. 还原 数据

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



Centos7

HDD



HDD

 (



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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_
```

Tab ☐ ☐ ☐ ☐ inst.dd ☐



```

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

Page 1 of 1
Driver disk device selection
  DEVICE      TYPE      LABEL      UUID
  1)  vda1      ext2      HOME        8c9d0c6e-4fea-4910-9bac-6609bc8ff847
  2)  vda2      xfs
  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: _

```

␣ ␣ ␣ 'c' ␣

Centos 7.x ␣␣␣ (DVD ␣␣␣ ␣␣ ) 3␣␣ ␣␣

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␣␣␣ ␣␣␣ ␣␣␣ ␣␣ ␣␣␣␣␣ ␣␣␣ , ␣␣␣ ␣␣␣ ␣␣␣␣␣ ␣␣␣  
␣␣␣ , ␣␣ HDD ␣␣␣ ␣␣␣ yum update␣␣␣ ␣␣␣ ␣␣␣ ␣ .

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␣␣ ␣␣␣ ␣␣ ␣␣␣ Yum update ␣ ␣␣␣ ␣␣␣ ␣␣ ␣␣ ␣␣ ␣␣␣