## 源码安装PostgreSQL-11.2

2019年8月24日

```
环境信息:
```

```
主机名称 系统类型 IP地址
master Centos7 10.1.2.101
```

```
命令精简版:
curl -O https://ftp.postgresql.org/pub/source/v11.2/postgresql-11.2.tar.gz
yum install -y readline-devel gcc zlib-devel
tar zxvf postgresql-11.2.tar.gz
cd postgresql-11.2
/configure
.
make
make install
groupadd postgres
useradd -g postgres postgres
passwd postgres
mkdir -p /data/pg_data
chown -R postgres:postgres /data/pg_data/
vim /usr/lib/systemd/system/postgresql.service
      [Unit]
      Description=PostgreSQL 11 database server
      Documentation=https://www.postgresql.org/docs/11/static/
      After=syslog.target
     After=network.target
      [Service]
      Type=notify
      User=postgres
      Group=postgres
      Environment=PGDATA=/data/pg_data
      OOMScoreAdjust=-1000
      Environment=PG_OOM_ADJUST_FILE=/proc/self/oom_score_adj
      Environment=PG_OOM_ADJUST_VALUE=0
      ExecStart= \frac{\usr/local/pgsql}{\userbare} / \text{bin/postgres -D ${PGDATA}} \text{ExecReload=\underbare/bin/kill -HUP $MAINPID}
      KillMode=mixed
      KillSignal=SIGINT
      TimeoutSec=0
      [Install]
      WantedBy=multi-user.target
firewall-cmd --zone=public --add-port=5432/tcp --permanent
firewall-cmd --reload
```

# sudo权限

chmod u+w /etc/sudoers

vim /etc/sudoers

postgres ALL=(ALL)

chmod u-w /etc/sudoers

# 启动数据库

postgres

vi ~/.bash\_profile export PG\_HOME=<mark>/usr/local/pgsql</mark> export PGDATA=/data/pg\_data export PATH=\${PG\_HOME}/bin:\$PATH export PGPORT=5432

export PGUSER=postgres export PGDATABASE=postgres

ource ~/.bash\_profile

\${PG\_HOME}/bin/initdb -D \${PGDATA} -E utf8

im /data/pg\_data/postgresql.conf

listen\_addresses = '\*' # what IP address(es) to listen on; vim /data/pg\_data/pg\_hba.conf

0.0.0.0/0

host all all

sudo service postgresql start

su - postgres

ALTER USER postgres WITH encrypted PASSWORD 'postgres';

```
具体安装过程:
```

```
下载postgresql-11.2(linux不能上网的话,下载了上传到linux里面)
[root@master~]# curl -O https://ftp.postgresql.org/pub/source/v11.2/postgresql-11.2.tar.gz
预置条件
[root@master ~]# yum install -y readline-devel gcc zlib-devel
[root@master ~]# tar zxvf postgresql-11.2.tar.gz
        unaster H tarxwrpostgresql:11.2.targz
postgresql:11.2/Makefile
postgresql:11.2/CDPYRIGHT
postgresql:11.2/CDPYRIGHT
postgresql:11.2/gitattributes
postgresql:11.2/aclocal.m4
              tgresql-11.2/configure.in
taresal-11.2/INSTALL
```

[root@master ~]# cd postgresql-11.2

```
[root@master postgresql-11.2]# ./configure
                   2master postgresql-11.2  # Checking for DocBook XML V4.2...[这分会人成。所心等符
config.status: linking src/backend/port/posix.sema.c to src/backend/port/pg_sema.c
config.status: linking src/backend/port/sysv_shmem.c to src/backend/port/pg_shmem.c
config.status: linking src/backend/port/dynloader/linux.h to src/include/dynloader.h
config.status: linking src/include/port/linux.h to src/include/pg_config_os.h
config.status: linking src/makefiles/Makefile.linux to src/Makefile.port
```

make[1]: Entering directory `/root/postgresql-11.2/config' make[1]: Nothing to be done for `all'. make[1]: Leaving directory `/root/postgresql-11.2/config' All of PostgreSQL successfully made. Ready to install.

[root@master postgresgl-11.2]# make install

Unister Dostgresq=11.2|# makeInstall / /usr/bin/mkdir -p '/usr/local/pgsql/lib/pgxs/config' /usr/bin/install -c -m 755 ./install-sh '/usr/local/pgsql/lib/pgxs/config/install-sh' /usr/bin/install -c -m 755 ./missing '/usr/local/pgsql/lib/pgxs/config/missing' make[1]: Leaving directory '/root/postgresql-11.2/config' PostgreSQL installation complete.

# PostgreSQL不允许管理员方式运行,需要创建一个用户,我们创建一个叫postgres的用户,并将需要的文件夹赋权给该用户

# 后续所有的操作都是用这个用户来进行操作 [root@master home]# groupadd postgres [root@master home]# useradd -g postgres postgres

[root@master home]# passwd postgres

[root@master postgres]# chown -R postgres:postgres /usr/local/pgsql/

# 创建data文件夹, 并赋权

[root@master postgres]# mkdir -p /data/pg\_data

[root@master postgres]# chown -R postgres:postgres /data/pg\_data/

# 创建系统启动命令

[root@master postgres]# vim /usr/lib/systemd/system/postgresql.service

[Unit]

Description=PostgreSQL 11 database server

Documentation=https://www.postgresql.org/docs/11/static/

After=syslog.target After=network.target

[Service] Type=notify User=postgres Group=postgres

Environment=PGDATA=/data/pg\_data

OOMScoreAdjust=-1000

Environment=PG OOM ADJUST FILE=/proc/self/oom score adj

Environment=PG\_OOM\_ADJUST\_VALUE=0

ExecStart=<mark>/usr/local/pgsql</mark>/bin/postgres -D \${PGDATA}

ExecReload=/bin/kill -HUP \$MAINPID

KillMode=mixed KillSignal=SIGINT TimeoutSec=0

[Install]

WantedBy=multi-user.target

[root@master ~]# firewall-cmd --zone=public --add-port=5432/tcp --permanent

[root@master ~]# firewall-cmd --reload

# 允许postgres用户使用sudo命令

[root@master postgres]# chmod u+w /etc/sudoers
[root@master postgres]# vim /etc/sudoers

postgres ALL=(ALL)

```
"
Allow root to run any commands anywhere
oot ALL=(ALL) ALL
ostgres ALL=(ALL) ALL
[root@master postgres]# chmod u-w /etc/sudoers
#添加环境变量,在文件末尾
[root@master home]# su - postgres
[postgres@master ")$ vi "/_bash_profile
    export PG_HOME=<mark>/usr/local/pgsql</mark>
    export PGDATA=/data/pg_data
    export PATH=${PG_HOME}/bin:$PATH
         export PGPORT=5432
          export PGUSER=postgres
         export PGDATABASE=postgres
[postgres@master ~]$ source ~/.bash_profile
[postgres@master~]$ ${PG_HOME}/bin/initdb-D ${PGDATA}-E utf8

MARNING: 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:
                  /usr/local/pgsql/bin/pg_ctl -D /data/pg_data -l logfile start
# 允许远程连接postgresql.conf 文件中修改配置, pg_hba.conf添加一条配置
[postgres@master pgsql]$ wim/data/pg_data/postgresql.conf
listen_addresses = '*' # what IP address(es) to listen on;
# - Connection Settings -
listen_addresses = ' # what
[postgres@master.pgsq]|$ vim /data/pg_data/pg_hba.conf
host all all 0.0.0.0/0 md5
host all all
          ost all
                                                                                             0.0.0.0/0
[postgres@master ~]$ sudo service postgresql start
```

## # 新建连接,设置连接密码

[root@master ~]# su - postgres [postgres@master ~]\$ psql postgres=# ALTER USER postgres WITH encrypted PASSWORD 'postgres';

postgres=# \q