## 安装postgresql

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| #Install the repository RPM  yum install https://download.postgresql.org/pub/repos/yum/11/redhat/rhel-7.8-x86\_64/pgdg-centos11-11-2.noarch.rpm    #Install the client packages  yum install postgresql11-11.2    #Optionally install the server packages  yum install postgresql11-server-11.2  #安装postgis的依赖（防止安装postgis时pg被yum升级）  yum install postgresql11-contrib-11.2  ##若想安装自定义插件（编译安装）  #yum install postgresql11-devel-11.2  #为postgres用户赋权（安装时，自动生成用户）  chown –R postgres. /var/lib/  #修改服务（数据库数据及其配置保存路径）  systemctl edit postgresql-11  #输入：  [Service]  Environment=PGDATA=/var/lib/pgsql-11/data #数据库保存路径,默认路径为/var/lib/pgsql/11/data  systemctl daemon-reload #重新加载  #初始化数据库  #Optionally initialize the database and enable automatic start  /usr/pgsql-11/bin/postgresql-11-setup initdb  systemctl enable postgresql-11  systemctl start postgresql-11 |

使用postgres账户(数据库用户默认为该名称)进入控制台(现在密码应该是空)

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| --- |
| # cd /var/lib/pgsql-11/ #防止提示权限不足  su postgres -c psql  \password #修改数据库密码  \q ##退出 |

设置监听

修改数据库存储目录下的pg\_hba.conf(默认在$PGDATA= /var/lib/pgsql/11/data/下)

下面用$PGDATA代替

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| vi $PGDATA/pg\_hba.conf |

修改IPv4 一行内容如下:

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| --- |
| # "local" is for Unix domain socket connections only 本地信任  local all all trust  # IPv4 local connections: 需要密码 md5加密  host all all 0.0.0.0/0 md5  # IPv6 local connections: 需要密码 md5加密  host all all ::1/128 md5  # Allow replication connections from localhost, by a user with the  # replication privilege.  #注释其他 按需设置  #local replication all trust  #host replication all 127.0.0.1/32 trust  #host replication all ::1/128 trust |

修改postgresql.conf：

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| vi $PGDATA/postgresql.conf |

修改监听一节如下:

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| # - Connection Settings -  listen\_addresses = '\*' #可以指定地址，这里为所有地址可访问  port = 5432 |

重启pg服务生效

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| systemctl restart postgresql-11 |

## 安装PostGIS

1.先安装几个工具包

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| --- |
| yum install wget net-tools epel-release –y  yum install openssl –y  systemctl restart postgresql-11 |

然后安装postgis

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| --- |
| yum install postgis25\_11 postgis25\_11-client -y |

安装拓展工具

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| --- |
| yum install ogr\_fdw11 -y  yum install pgrouting\_11 -y |

2.创建数据库postgis

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| --- |
| CREATE DATABASE postgis OWNER postgres; |

切换新创建的database

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| --- |
| \c postgis |

安装PostGis扩展

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| --- |
| CREATE EXTENSION postgis;  CREATE EXTENSION postgis\_topology;  CREATE EXTENSION ogr\_fdw; |

然后可以验证是否安装成功

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| --- |
| SELECT postgis\_full\_version(); |

另外，下面是官方网站点列的一份扩展：

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| --- |
| -- Enable PostGIS (includes raster)  CREATE EXTENSION postgis;  -- Enable Topology  CREATE EXTENSION postgis\_topology;  -- Enable PostGIS Advanced 3D  -- and other geoprocessing algorithms  -- sfcgal not available with all distributions  CREATE EXTENSION postgis\_sfcgal;  -- fuzzy matching needed for Tiger  CREATE EXTENSION fuzzystrmatch;  -- rule based standardizer  CREATE EXTENSION address\_standardizer;  -- example rule data set  CREATE EXTENSION address\_standardizer\_data\_us;  -- Enable US Tiger Geocoder  CREATE EXTENSION postgis\_tiger\_geocoder; |