PostgreSQL安装手册

1. 环境说明

### **服务器版本**

[root@localhost yum.repos.d]# cat /etc/centos-release

entOS Linux release 7.6.1810 (Core)

### **数据库版本**

PostgreSQL 10

### **所需文件/软件**

screen

1. 数据库安装

### **添加yum源**

下载、安装yum源repo文件

wget https://download.postgresql.org/pub/repos/yum/reporpms/EL-7-x86\_64/pgdg-redhat-repo-latest.noarch.rpm

yum install -y pgdg-redhat-repo-latest.noarch.rpm

检查

ll /etc/yum.repos.d/

重新建立元数据缓存

yum clean all

yum makecache

### **安装server和客户端**

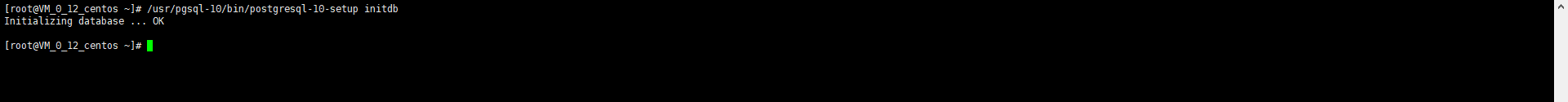
需使用root 用户进行安装

yum install -y postgresql10-server postgresql10

|  |
| --- |
| [root@localhost ~]# yum install -y postgresql10-server postgresql10  已加载插件：fastestmirror, langpacks  Loading mirror speeds from cached hostfile  正在解决依赖关系  --> 正在检查事务  ---> 软件包 postgresql10.x86\_64.0.10.13-1PGDG.rhel7 将被 安装  --> 正在处理依赖关系 postgresql10-libs(x86-64) = 10.13-1PGDG.rhel7，它被软件包 postgresql10-10.13-1PGDG.rhel7.x86\_64 需要  --> 正在处理依赖关系 libpq.so.5()(64bit)，它被软件包 postgresql10-10.13-1PGDG.rhel7.x86\_64 需要  ---> 软件包 postgresql10-server.x86\_64.0.10.13-1PGDG.rhel7 将被 安装  --> 正在检查事务  ---> 软件包 postgresql10-libs.x86\_64.0.10.13-1PGDG.rhel7 将被 安装  --> 解决依赖关系完成  依赖关系解决  ======================================================================================================================================  Package                               架构                     版本                                   源                        大小  ======================================================================================================================================  正在安装:  postgresql10                          x86\_64                   10.13-1PGDG.rhel7                      pgdg10                   1.6 M  postgresql10-server                   x86\_64                   10.13-1PGDG.rhel7                      pgdg10                   4.5 M  为依赖而安装:  postgresql10-libs                     x86\_64                   10.13-1PGDG.rhel7                      pgdg10                   357 k  事务概要  ======================================================================================================================================  安装  2 软件包 (+1 依赖软件包)  总下载量：6.5 M  安装大小：28 M  Downloading packages:  警告：/var/cache/yum/x86\_64/7/pgdg10/packages/postgresql10-libs-10.13-1PGDG.rhel7.x86\_64.rpm: 头V4 DSA/SHA1 Signature, 密钥 ID 442df0f8: NOKEY  postgresql10-libs-10.13-1PGDG.rhel7.x86\_64.rpm 的公钥尚未安装  (1/3): postgresql10-libs-10.13-1PGDG.rhel7.x86\_64.rpm                                                          | 357 kB  00:00:02  (2/3): postgresql10-10.13-1PGDG.rhel7.x86\_64.rpm                                                               | 1.6 MB  00:00:04  (3/3): postgresql10-server-10.13-1PGDG.rhel7.x86\_64.rpm                                                                                                                                                                                                | 4.5 MB  00:00:15  ------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------  总计                                                                                                                                                                                                                                          373 kB/s | 6.5 MB  00:00:17  从 [file:///etc/pki/rpm-gpg/RPM-GPG-KEY-PGDG](file:///\\etc\pki\rpm-gpg\RPM-GPG-KEY-PGDG) 检索密钥  导入 GPG key 0x442DF0F8:  用户ID     : "PostgreSQL RPM Building Project <[pgsqlrpms-hackers@pgfoundry.org](mailto:pgsqlrpms-hackers@pgfoundry.org)>"  指纹       : 68c9 e2b9 1a37 d136 fe74 d176 1f16 d2e1 442d f0f8  软件包     : pgdg-redhat-repo-42.0-11.noarch (installed)  来自       : /etc/pki/rpm-gpg/RPM-GPG-KEY-PGDG  Running transaction check  Running transaction test  Transaction test succeeded  Running transaction    正在安装    : postgresql10-libs-10.13-1PGDG.rhel7.x86\_64                                                                                                                                                                                                                1/3    正在安装    : postgresql10-10.13-1PGDG.rhel7.x86\_64                                                                                                                                                                                                                     2/3    正在安装    : postgresql10-server-10.13-1PGDG.rhel7.x86\_64                                                                                                                                                                                                              3/3    验证中      : postgresql10-libs-10.13-1PGDG.rhel7.x86\_64                                                                                                                                                                                                                1/3    验证中      : postgresql10-10.13-1PGDG.rhel7.x86\_64                                                                                                                                                                                                                     2/3    验证中      : postgresql10-server-10.13-1PGDG.rhel7.x86\_64                                                                                                                                                                                                              3/3  已安装:    postgresql10.x86\_64 0:10.13-1PGDG.rhel7                                                                                            postgresql10-server.x86\_64 0:10.13-1PGDG.rhel7  作为依赖被安装:    postgresql10-libs.x86\_64 0:10.13-1PGDG.rhel7  完毕！  [root@localhost ~]# |

### **数据库初始化**

/usr/pgsql-10/bin/postgresql-10-setup initdb

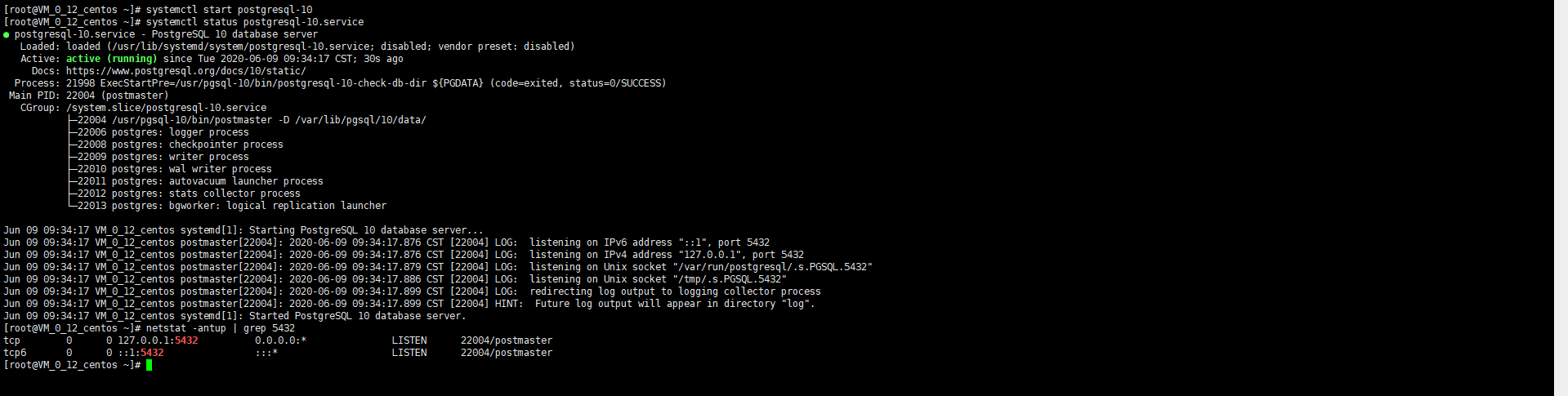


### **启动数据库，并检查启动情况**

systemctl start postgresql-10

systemctl status postgresql-10.service

netstat -antup | grep 5432



### **设置开机启动**

systemctl enable postgresql-10

\*services文件路径：/usr/lib/systemd/system/postgresql-10.service.

### **修改数据库文件目录**

停止服务

systemctl stop postgresql-10.service

systemctl status postgresql-10.service

创建目录

mkdir cd /app/soft/postgresql

复制文件

cp -R /var/lib/pgsql/10/ /app/soft/postgresql

调整属性

chown -R postgres:postgres /app/soft/postgresql

修改postgres用户的环境变量

vim /var/lib/pgsql/.bash\_profile

|  |
| --- |
| 注释原路径  #PGDATA=/var/lib/pgsql/10/data  添加新路径  PGDATA=/app/soft/postgresql/10/data |

使之生效

source .bash\_profile

修改services 文件

vim /usr/lib/systemd/system/postgresql-10.service

|  |
| --- |
| 注释原路径  #Environment=PGDATA=/var/lib/pgsql/10/data  添加新路径  Environment=PGDATA=/data/postgres/db/10/data/ |

重启

systemctl daemon-reload

systemctl start postgresql-10

如果不能重新启动，执行

setenforce 0

### **设置postgers用户密码**

su - postgres

psql

|  |
| --- |
| postgres=# \password  Enter new password: 输入密码  Enter it again: 输入密码  Passwords didn't match.  postgres=#\q 退出 |

### **设置远程访问**

vim /app/soft/postgresql/10/data/pg\_hba.conf

|  |
| --- |
| 添加一行  host all all 0.0.0.0/0 md5  并原  host all all 127.0.0.1/32 ident  改为  host all all 127.0.0.1/32 md5 |

vim  /app/soft/postgresql/10/data/postgresql.conf

|  |
| --- |
| 添加一行  listen\_addresses = '\*' |

修改完成后重启服务

systemctl restart postgresql-10.service

防火墙根据实际情况自行处理

测试

psql -U postgres -h 192.168.242.11

1. 常用命令

psql

使用postgers用户登陆时，可使用此命令进入数据库工作台

psql -U postgres -h 192.168.242.11

可使用此命令进入数据库工作台

CREATE USER test WITH PASSWORD 'hhx123456';

CREATE DATABASE test OWNER test;

创建用户

rpm -qa | grep postgresql

yum remove postgresql96-libs-9.6.10-1PGDG.rhel7.x86\_64

卸载数据库