

# Postgres

## Install

container xenial 16.04 (optional)

```
lxc image copy images:ubuntu/xenial/amd64 local: --alias xenial
lxc launch xenial postgres
lxc exec postgres bash
```

```
sudo apt install postgresql
```

eventually open network for remote connections

</etc/postgresql/9.5/main/postgresql.conf>

```
listen_addresses = '*'
```

## Basic operations

drop role gianoauth

```
REASSIGN OWNED BY gianoauth TO postgres;
DROP OWNED BY gianoauth;
DROP USER IF EXISTS gianoauth;
```

create role gianoauth

```
CREATE USER gianoauth WITH
  ENCRYPTED PASSWORD 'xxx'
  LOGIN
  NOSUPERUSER
  INHERIT
  NOCREATEDB
  NOCREATEROLE
  NOREPLICATION;
```

... create database and schemas ...

grant operations on schema auth to role gianoauth

```
GRANT ALL PRIVILEGES ON SCHEMA auth TO gianoauth;
ALTER DEFAULT PRIVILEGES FOR USER postgres IN SCHEMA auth GRANT SELECT ON
TABLES TO gianoauth;
```

```
ALTER DEFAULT PRIVILEGES FOR USER postgres IN SCHEMA auth GRANT SELECT,
USAGE ON SEQUENCES TO gianoauth;
```

on database giano set search path on user gianoauth to search first in schema auth

```
ALTER USER gianoauth SET search_path TO auth;
ALTER ROLE gianoauth IN DATABASE giano SET search_path TO auth;
```

## developer containers

- pgadmin:
  - user: admin@admin
  - pass: admin@admin

set static IP on containers

```
/var/lib/lxd/networks/lxdbr0/dnsmasq.hosts
├─ pgmodeler
└─ postgres
```

```
cat > /var/lib/lxd/networks/lxdbr0/dnsmasq.hosts/pgmodeler <<EOF
00:16:3e:9d:ad:d2,10.8.120.205,pgmodeler
EOF
```

```
cat > /var/lib/lxd/networks/lxdbr0/dnsmasq.hosts/postgres <<EOF
00:16:3e:ce:41:53,10.8.120.228,postgres
EOF
```

## pgadmin

```
apt install wget python3-pip
pip3 install -U pip
cd /tmp
wget
https://ftp.postgresql.org/pub/pgadmin/pgadmin4/v2.0/pip/pgadmin4-2.0-py2.py
3-none-any.whl
pip install ./pgadmin4-2.0-py2.py3-none-any.whl

# define ip binding
CONFIG=/usr/local/lib/python3.5/dist-packages/pgadmin4/config.py
sed -i -e "s/DEFAULT_SERVER\s*=\s*/DEFAULT_SERVER = '0.0.0.0'/" $CONFIG

# define pgadmin admin user
python3 /usr/local/lib/python3.5/dist-packages/pgadmin4/pgAdmin4.py
```

[/etc/systemd/system/pgadmin.service](#)

[Unit]

```
Description=pgadmin Service
After=network.target

[Service]
User=root
ExecStart=/usr/bin/python3 /usr/local/lib/python3.5/dist-
packages/pgadmin4/pgAdmin4.py

[Install]
WantedBy=multi-user.target
```

```
systemctl daemon-reload
systemctl start pgadmin
systemctl enable pgadmin
```

define admin user in postgresql to use from pgadmin

```
su - postgres
createuser --pwprompt --superuser admin
```

## pgmodeler

- [reference](#)

```
PG_VERSION=0.9.1-beta1

# for building, can remove after install
sudo apt install -y make g++ qt5-qmake libxml2-dev libpq-dev pkg-config
libqt5svg5-dev

# runtime dependencies
sudo apt install -y qt5-default libqt5svg5 postgresql-server-dev-all
cd /usr/local/src
sudo apt install -y wget
wget https://github.com/pgmodeler/pgmodeler/archive/v${PG_VERSION}.tar.gz
tar xvzf v${PG_VERSION}.tar.gz
cd pgmodeler-${PG_VERSION}/
qmake pgmodeler.pro
make -j 4
make install
sudo mkdir /usr/local/lib/pgmodeler/plugins
cd ..
rm *.tar.gz
apt clean
```

desktop launcher

```
mkdir -p ~/.local/share/applications/
```

```
cat > ~/.local/share/applications/pgmodeler.desktop <<EOF
#!/usr/bin/env xdg-open

[Desktop Entry]
Type=Application
Terminal=false
Exec=/usr/local/bin/pgmodeler
Name=pgmodeler
EOF
```

if in container enable remote connection on host

</etc/gdm3/custom.conf>

```
[security]
DisallowTCP=false

[xdmcp]
Enable=true
```

run pgmodeler in container

```
xhost +
lxc exec pgmodeler -- pgmodeler
```

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Permanent link: <https://wiki.csgalileo.org/tips/db/postgres?rev=1525352079>

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