

# 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

create role (user)

```
-- User: gianoauth
DROP USER gianoauth;

CREATE USER gianoauth WITH
  LOGIN
  NOSUPERUSER
  INHERIT
  NOCREATEDB
  NOCREATEROLE
  NOREPLICATION;

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

GRANT ALL PRIVILEGES ON SCHEMA gianoauth TO gianoauth;
GRANT ALL PRIVILEGES ON ALL TABLES IN SCHEMA gianoauth TO gianoauth;
GRANT ALL PRIVILEGES ON ALL SEQUENCES IN SCHEMA gianoauth TO gianoauth;
```

## 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-alpha

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

# runtime dependencies
sudo apt install qt5-default libqt5svg5 postgresql-server-dev-*
cd /user/local/src
sudo apt install wget
wget https://github.com/pgmodeler/pgmodeler/archive/v${PG_VERSION}.tar.gz
sudo apt install qt5-default libqt5svg5 postgresql-server-dev-all
tar xvzf v${PG_VERSION}.tar.gz
cd pgmodeler-0.9.1-alpha/
qmake pgmodeler.pro
make
make install
sudo mkdir /usr/local/lib/pgmodeler/plugins
cd ..
rm *.tar.gz
apt clean
```

if in container enable remote connection on host <file ini /etc/gdm3/custom.conf> [security]  
DisallowTCP=false

```
[xdmcp] Enable=true </code>
```

run pgmodeler in container

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

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