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# ArcSDE + PostGIS on UBUNTU 20.04

* note ⇐ ArcGIS Pro 2.5 and Arcmap 10.8 cant connect to Postgres 12

```
wget --quiet -O - https://www.postgresql.org/media/keys/ACCC4CF8.asc | sudo apt-key add -
RELEASE=$(lsb_release -cs)
echo "deb http://apt.postgresql.org/pub/repos/apt/ ${RELEASE}"-pgdg main | sudo tee
/etc/apt/sources.list.d/pgdg.list

sudo apt update
sudo apt -y install postgresql-11
```

```
sudo pg_dropcluster 11 main

mkdir /var/lib/postgresql/11/main
chown postgres:postgres /var/lib/postgresql/11/main
su postgres
/usr/lib/postgresql/11/bin/initdb -D /var/lib/postgresql/11/main --locale=cs_CZ.UTF8 -E UTF-8
exit
systemctl enable postgresql
systemctl start postgresql
```

```
CREATE ROLE sde LOGIN PASSWORD '{PASSWORD}' superuser noinherit createdb;

CREATE TABLESPACE sde OWNER sde LOCATION '/var/lib/postgresql/12/main/sde';

CREATE DATABASE company OWNER sde ENCODING 'UTF8' TABLESPACE sde;
GRANT ALL ON DATABASE company TO sde;

\c company
CREATE EXTENSION IF NOT EXISTS postgis WITH SCHEMA public;
CREATE EXTENSION IF NOT EXISTS postgis_topology;

CREATE SCHEMA sde AUTHORIZATION sde;
GRANT ALL ON SCHEMA sde TO sde;

GRANT SELECT, INSERT, UPDATE, DELETE ON TABLE public.geometry_columns TO sde;
GRANT SELECT ON TABLE public.spatial_ref_sys TO sde;
```

# Install extensions

```
st_geometry.so -> /usr/lib/postgresql/12/lib
```

# Deploy DB Schema in ArcGIS Pro

Connect to server and select “Enable Geodatabase”

# Default PostGIS format

Table sde_dbtune

| | | |
|---|---|---|
| DEFAULTS | GEOMETRY_STORAGE | PG_GEOMETRY |

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