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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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