

## Table of Contents

<b>ArcSDE + PostGIS on UBUNTU 20.04</b> .....	1
<b>Install extensions</b> .....	1
<b>Deploy DB Schema in ArcGIS Pro</b> .....	1
<b>Default PostGIS format</b> .....	1

# 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
----------	------------------	-------------

From:  
<https://wiki.janforman.com/> - **wiki.janforman.com**

Permanent link:  
<https://wiki.janforman.com/arcSDE?rev=1689254195>

Last update: **2023/07/13 15:16**

