Postgres 11 install/setup walkthrough

Download necessary files

Postgres binary
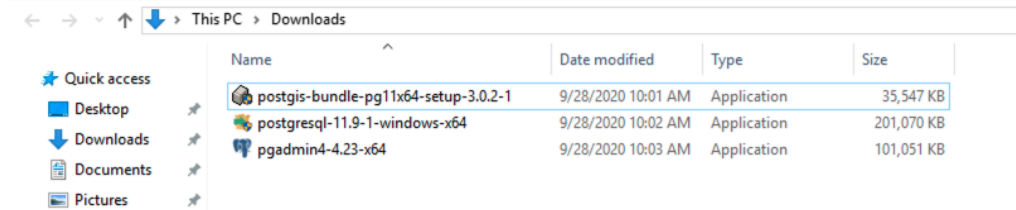
http://www.enterprisedb.com/postgresql-tutorial-resources-training?cid=55
Windows x86-64 + 11.9

Postgis package (postgis-bundle-pg11x64-setup-3.0.2-1.exe)
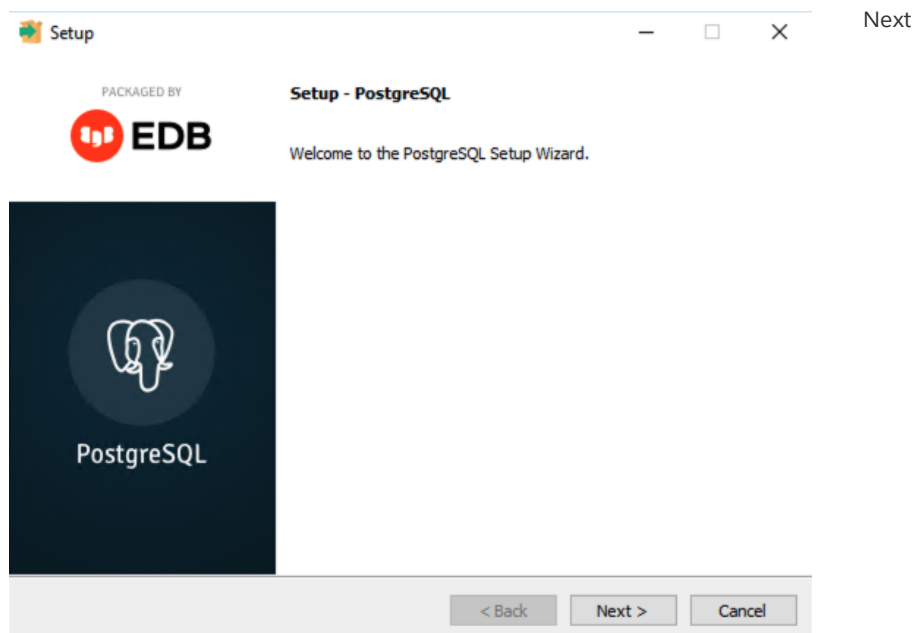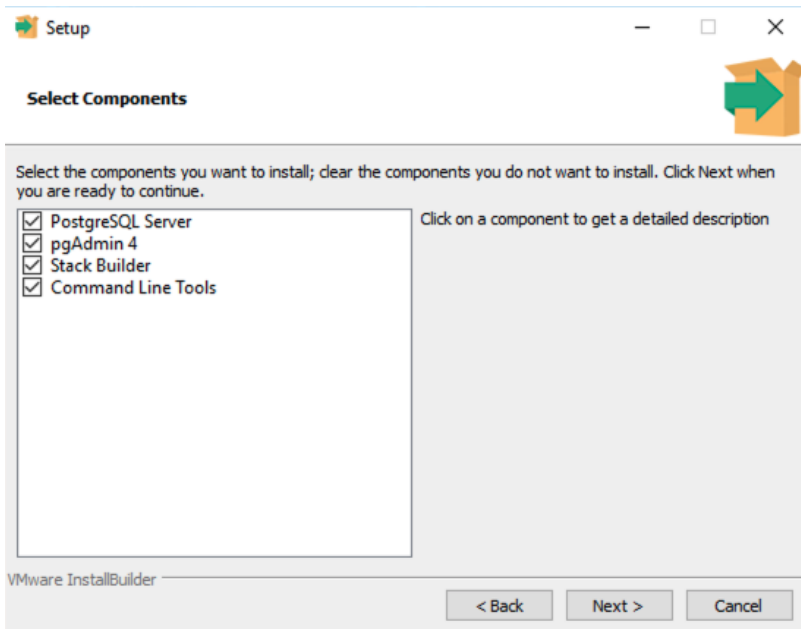
http://download.osgeo.org/postgis/windows/pg11/

PG Admin 4 (not necessary if used on the same machine, pg install includes PG admin)

https://www.pgadmin.org/download/pgadmin-4-windows/

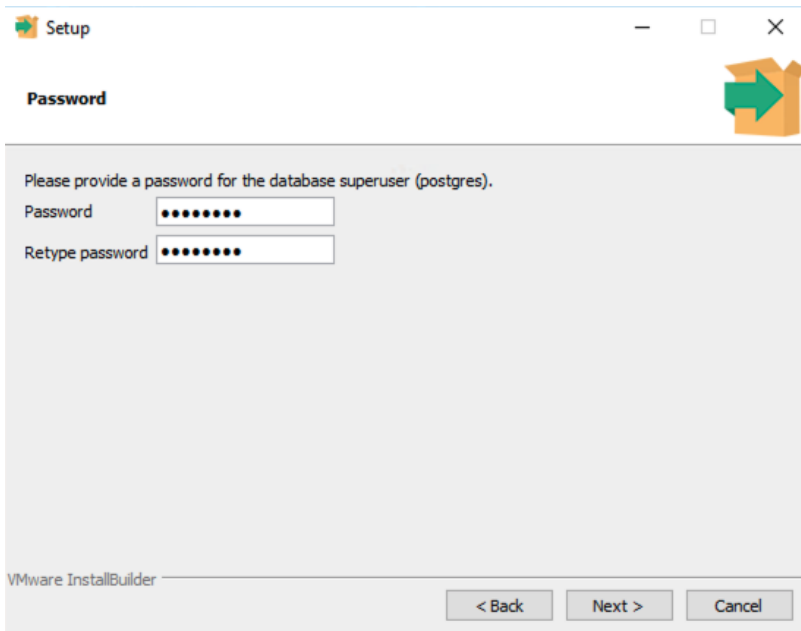## Install Postgres Server

run installer (admin rights required)

Next

Setup — □ ✕

Installation Directory

Please specify the directory where PostgreSQL will be installed.

Installation Directory C:\Program Files\PostgreSQL\11

VMware InstallBuilder

< Back   Next >   Cancel
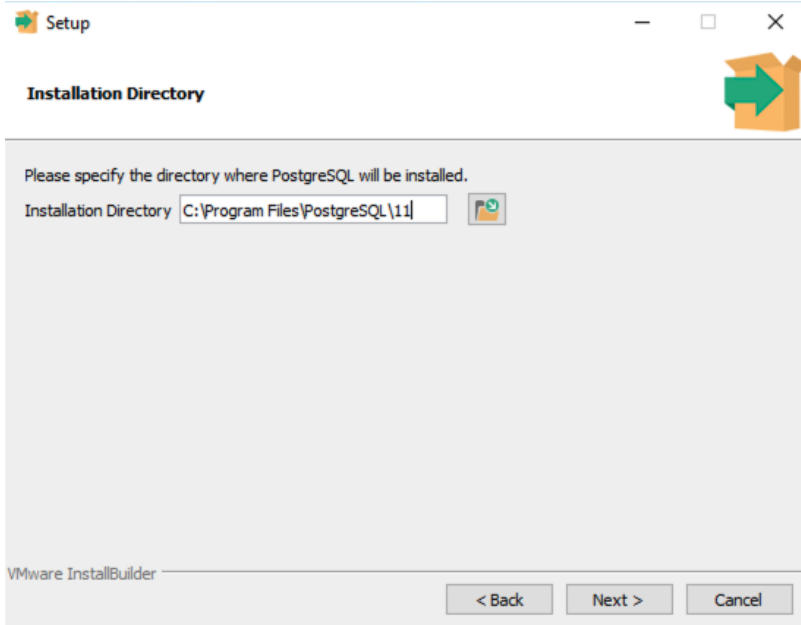
Stack Builder is not necessary

Setup — □ ✕

Select Components

Select the components you want to install; clear the components you do not want to install. Click Next when you are ready to continue.

☑ PostgreSQL Server
☑ pgAdmin 4
☑ Stack Builder
☑ Command Line Tools

Click on a component to get a detailed description

VMware InstallBuilder

< Back   Next >   Cancel

Setup

Data Directory

Please select a directory under which to store your data.

Data Directory C:\Program Files\PostgreSQL\11\data

VMware InstallBuilder

< Back   Next >   Cancel

Setup

Password

Please provide a password for the database superuser (postgres).

Password   ••••••••
Retype password ••••••••

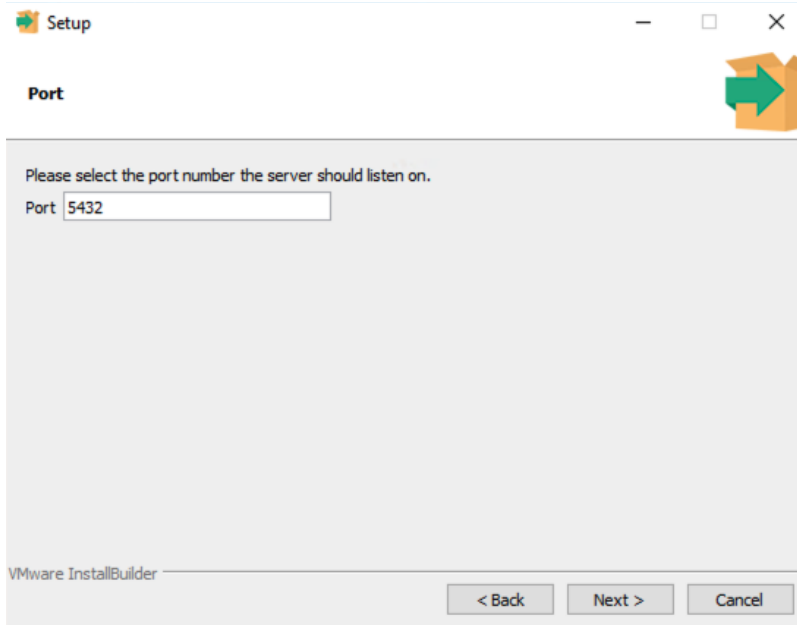VMware InstallBuilder

< Back   Next >   Cancel

DB super user will not be used for login

5432 is standard PG port
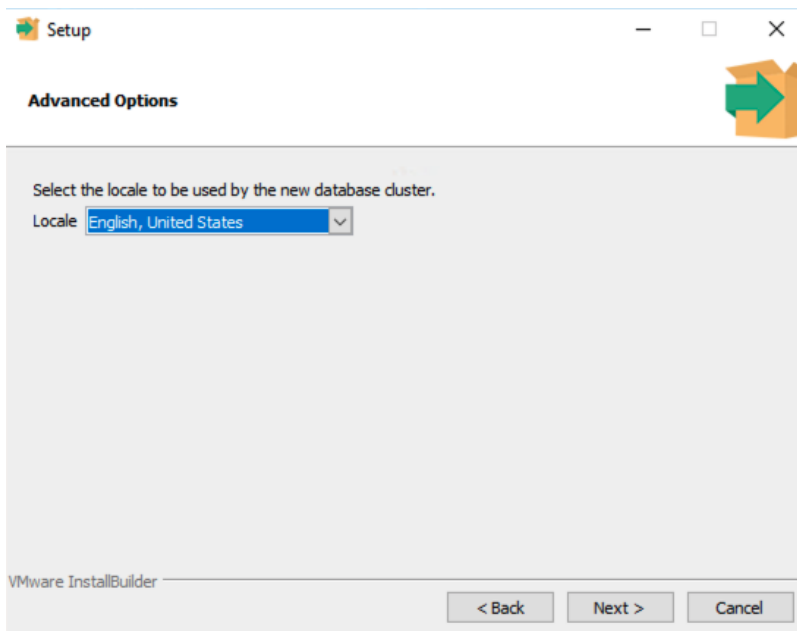
use English (US) for consistency

- OK to summary and click>> install
- Test DB-server is running (use password specified for postgres super user)
  `'C:\Program Files\PostgreSQL\11\bin\psql' -U postgres -l`

Create Wafer DB

- Go to `C:\Program Files\PostgreSQL\11\pgAdmin 4\bin`
- launch pgadmin4 (IE not supported)
- set a pgadmin master password
- connect to Server (it will autodetect the pg11 install)
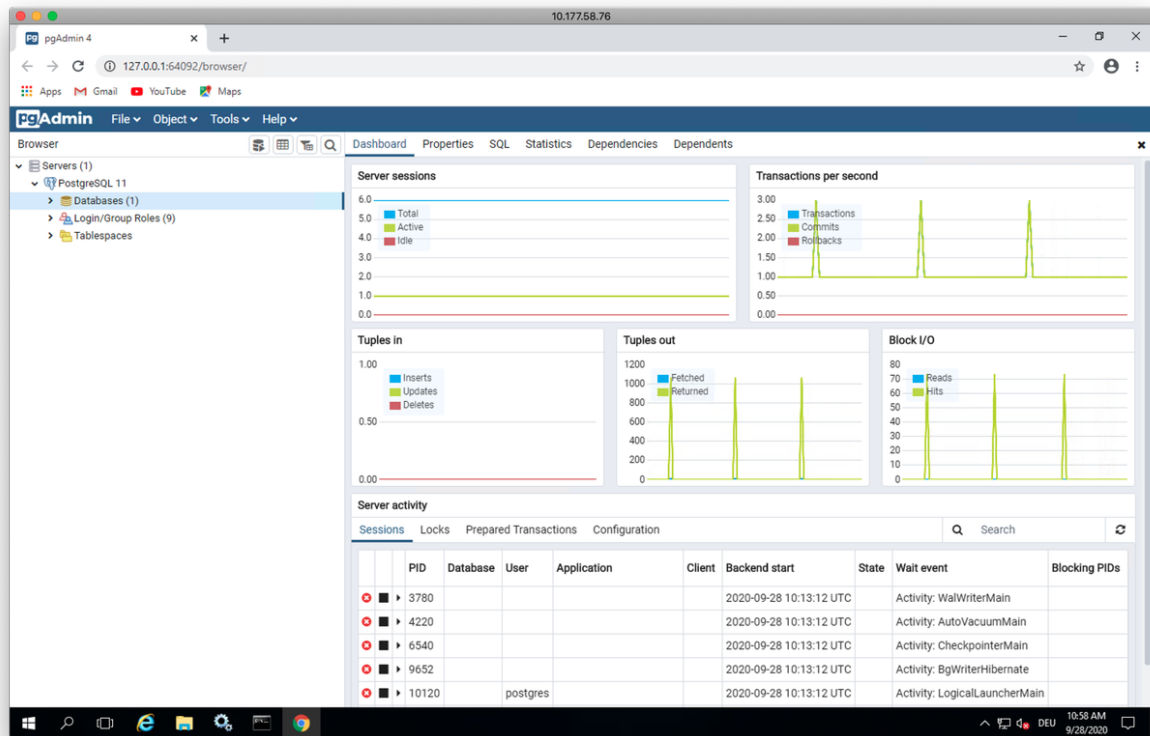
Create Readonly user

Servers (1)
  PostgreSQL 11
    Databases (1)
      postgres
        > Casts
        > Catalogs
        > Event Triggers
        > Extensions
        > Foreign Data Wrappers
        > Languages
        > Schemas
      Login/Group Roles (9)
        pg_execut   Create   >   Login/Group Role...
        pg_monito
        pg_read_a   Refresh...
        pg_read_all_stats
        pg_read_server_files
        pg_signal_backend
        pg_stat_scan_tables
        pg_write_server_files
        postgres
    > Tablespaces

Server sessions
6.0
5.0   ■ Total
4.0   ■ Active
3.0   ■ Idle
2.0
1.0
0.0

Tuples in

        □ Updates
        ■ Deletes
0.50

0.00

Server activity
Sessions   Lock
            PID

Create - Login/Group Role   ✕

General   Definition   Privileges   Membership   Parameters   Security   SQL

Name   admin

Comments

[i] [?]   ✖ Cancel   ⟳ Reset   💾 Save

Create - Login/Group Role   ✕

General   Definition   Privileges   Membership   Parameters   Security   SQL

Password   ••••••••

Account expires   YYYY-MM-DD HH:mm:ss Z   📅

Connection limit   -1

[i] [?]   ✖ Cancel   ⟳ Reset   💾 Save

User must be able to login and create db

Create - Login/Group Role   ✕

General   Definition   Privileges   Membership   Parameters   Security   SQL

Can login?   Yes

Superuser?   No

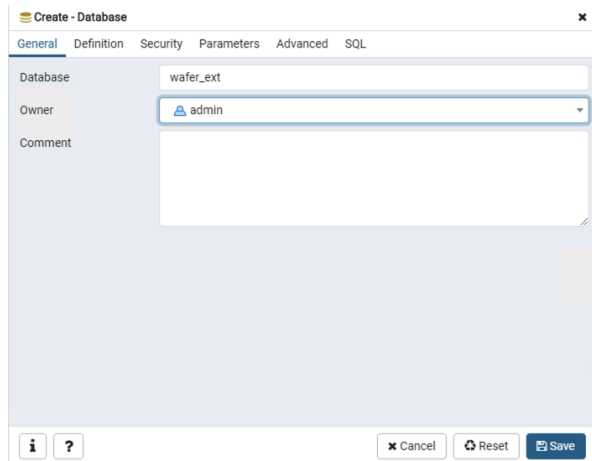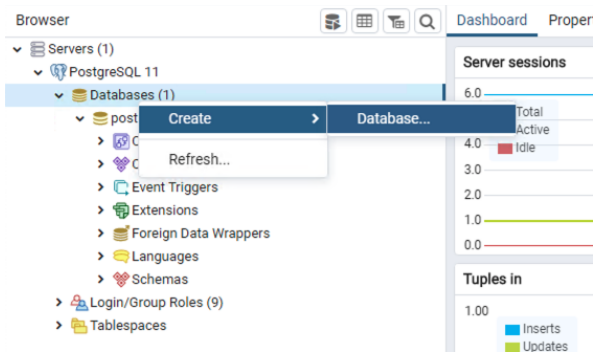Create roles?   No

Create databases?   Yes

Update catalog?   No

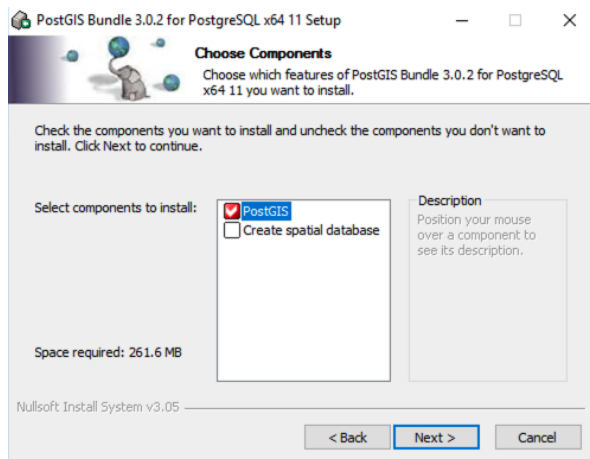Inherit rights from the parent   Yes
roles?

Can initiate streaming   No
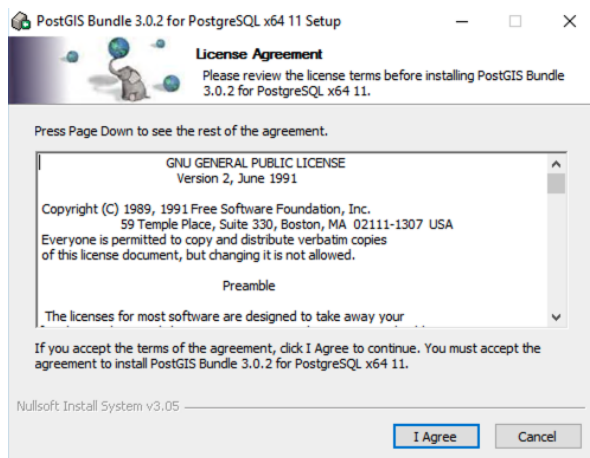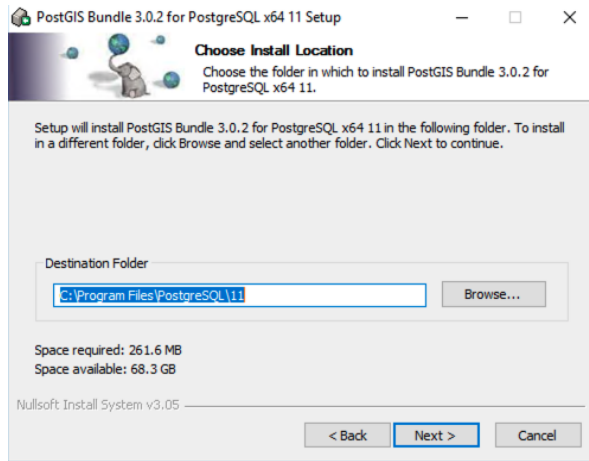replication and backups?
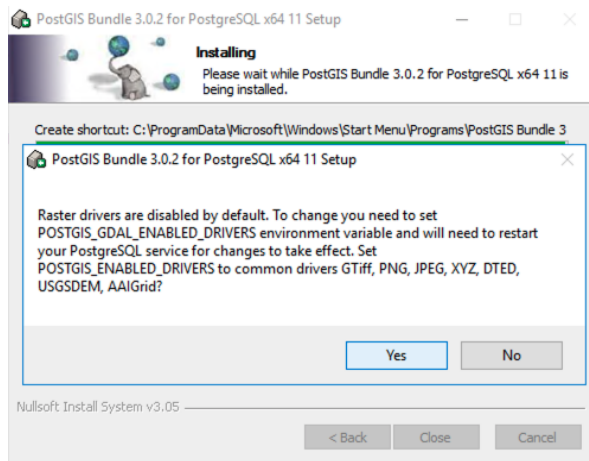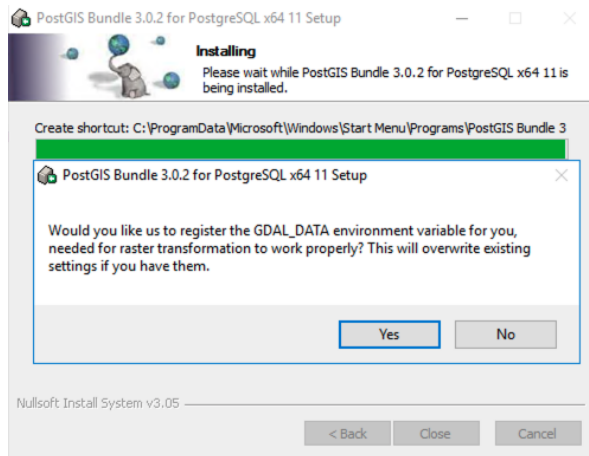
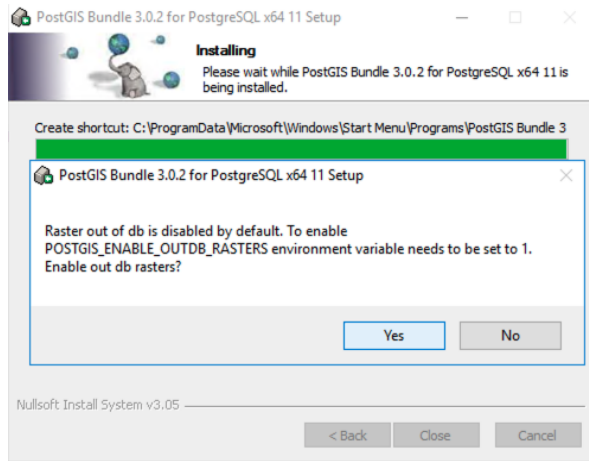[i] [?]   ✖ Cancel   ⟳ Reset   💾 Save
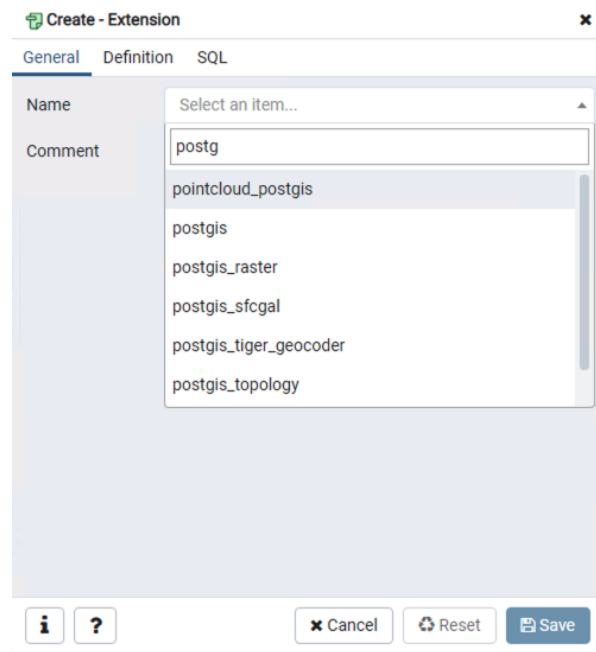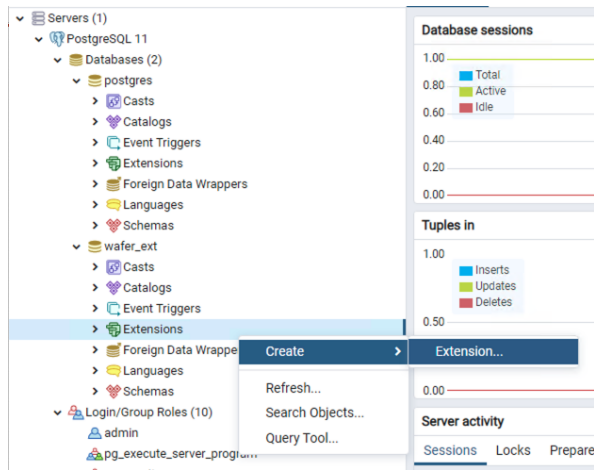
Create DB
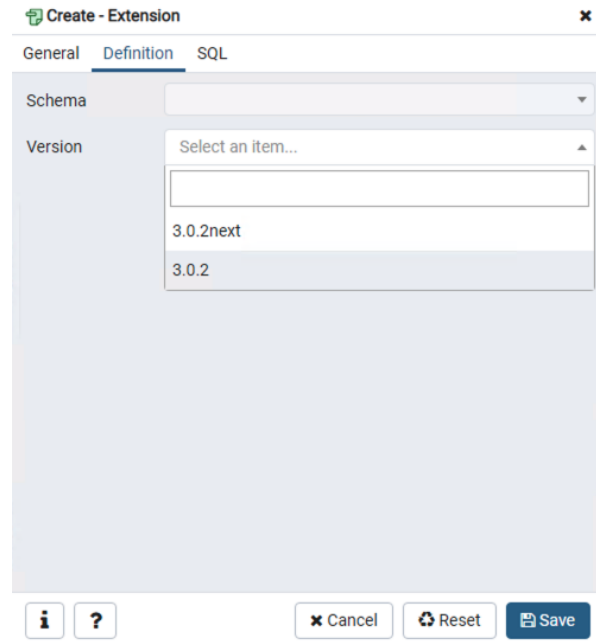
Install Postgis

Run installer

Yes to the next prompts (3x)

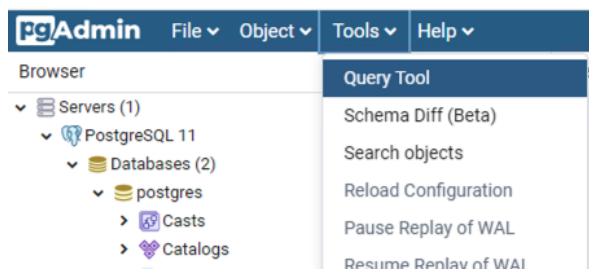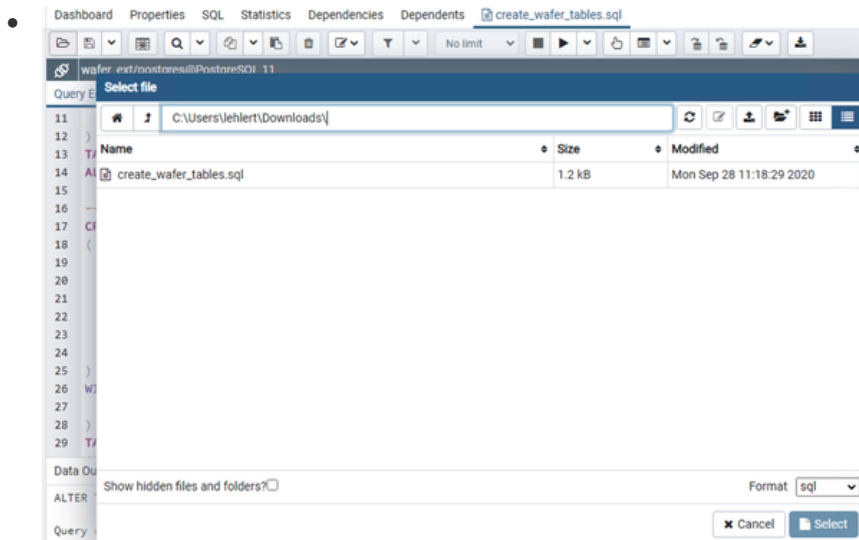## Add Postgis to our DB
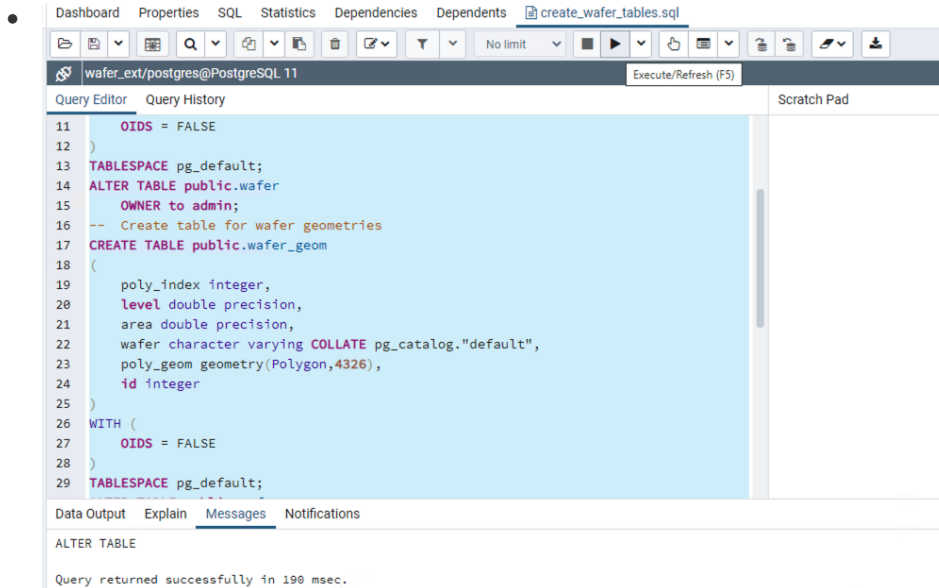
Create Tables

Launch Query tool

Run Queries

- make sure you are connected to the DB we just created
- open sql file https://github.com/LuEsincostan/Tableau-Extendibility-Framework/blob/main/create_wafer_tables.sql

- Select alle text and run the query

- Check if tables were created (sometimes a refresh is necessary)

- ∨ 🛢 wafer_ext
  - › 🔷 Casts
  - › 🍇 Catalogs
  - › 🔗 Event Triggers
  - ∨ 🗂 Extensions (2)
    - 🗂 plpgsql
    - 🗂 postgis
  - › 🛢 Foreign Data Wrappers
  - › 🗨 Languages
  - ∨ 🍇 Schemas (1)
    - ∨ 🔶 public
      - › A↓ Collations
      - › 🏠 Domains
      - › 📄 FTS Configurations
      - › 📖 FTS Dictionaries
      - › Aa FTS Parsers
      - › 🔲 FTS Templates
      - › 🗂 Foreign Tables
      - › 🔣 Functions
      - › 🗂 Materialized Views
      - › { } Procedures
      - › 1..3 Sequences
      - ∨ 🗂 Tables (4)
        - › 🗂 spatial_ref_sys
        - › 🗂 wafer
        - › 🗂 wafer_geom
        - 🗂 wafer_grid

Connect to DB

!!Attention!!
The Postgres Server is by default only accessible from localhost. To change this you need to edit some files as described here: https://blog.bigbinary.com/2016/01/23/configure-postgresql-to-allow-remote-connection.html