**Required software fro Mockup Demo Application**

1. UI design Software
   1. Tomcat Server
   2. Apache Maven
   3. Boostrap 4.3
   4. AngularJS
   5. JDK 1.8 / JRE 1.8
2. GIS
   1. Openmaptile Server
      1. Docker Quickstart Terminal
      2. Kitematic
      3. VM Virtual Box Manager

**Note :** Docker comes with Kitematic & VM virtual Box

* 1. Geoserver
     1. GeoServer
     2. Postgre SQL
     3. GIS DB – “postgis-bundle-pg94x64-setup-2.5.1-1.exe”
  2. ArcGIS API for JavaScript 3.28

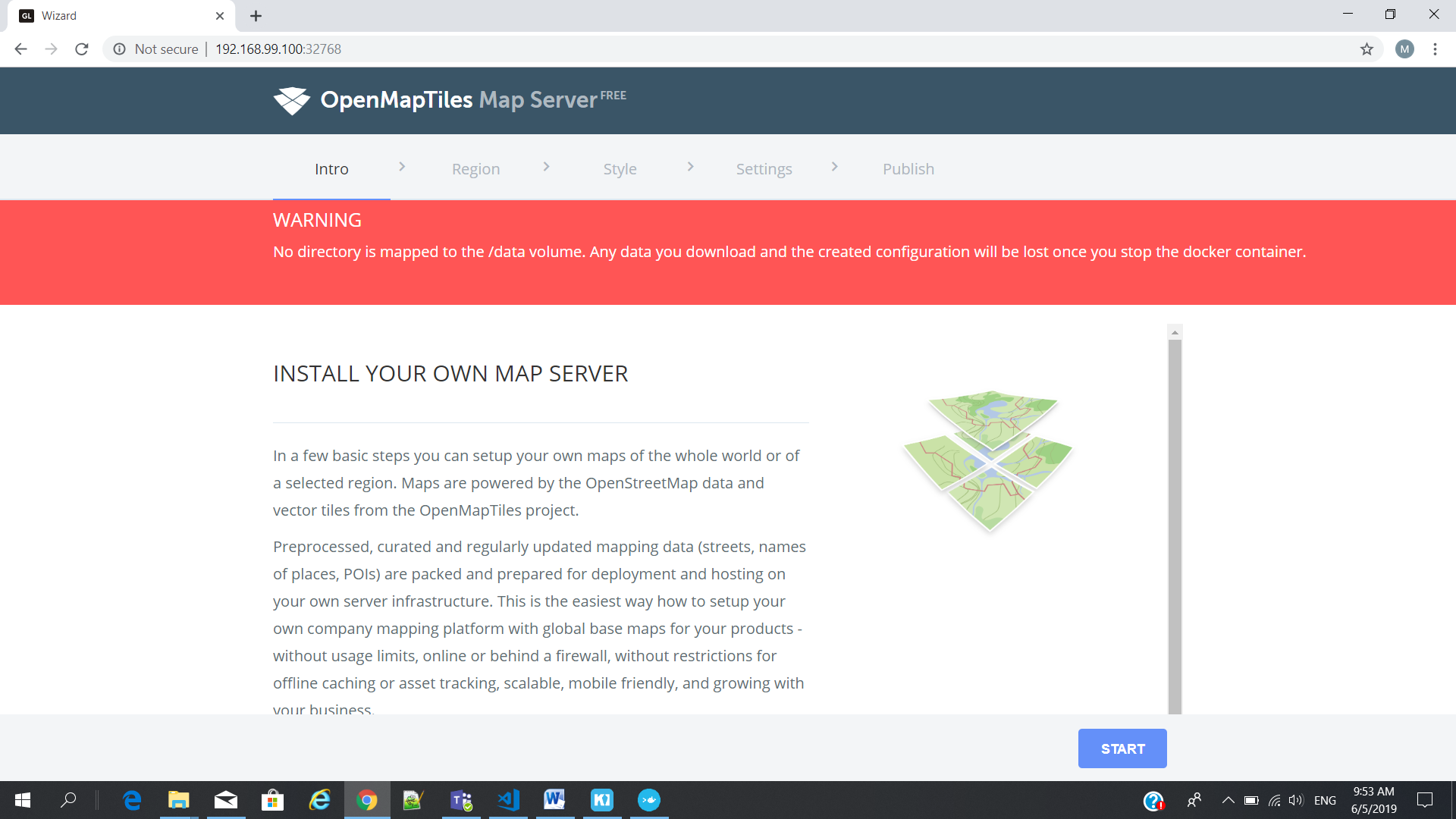
1. BIS

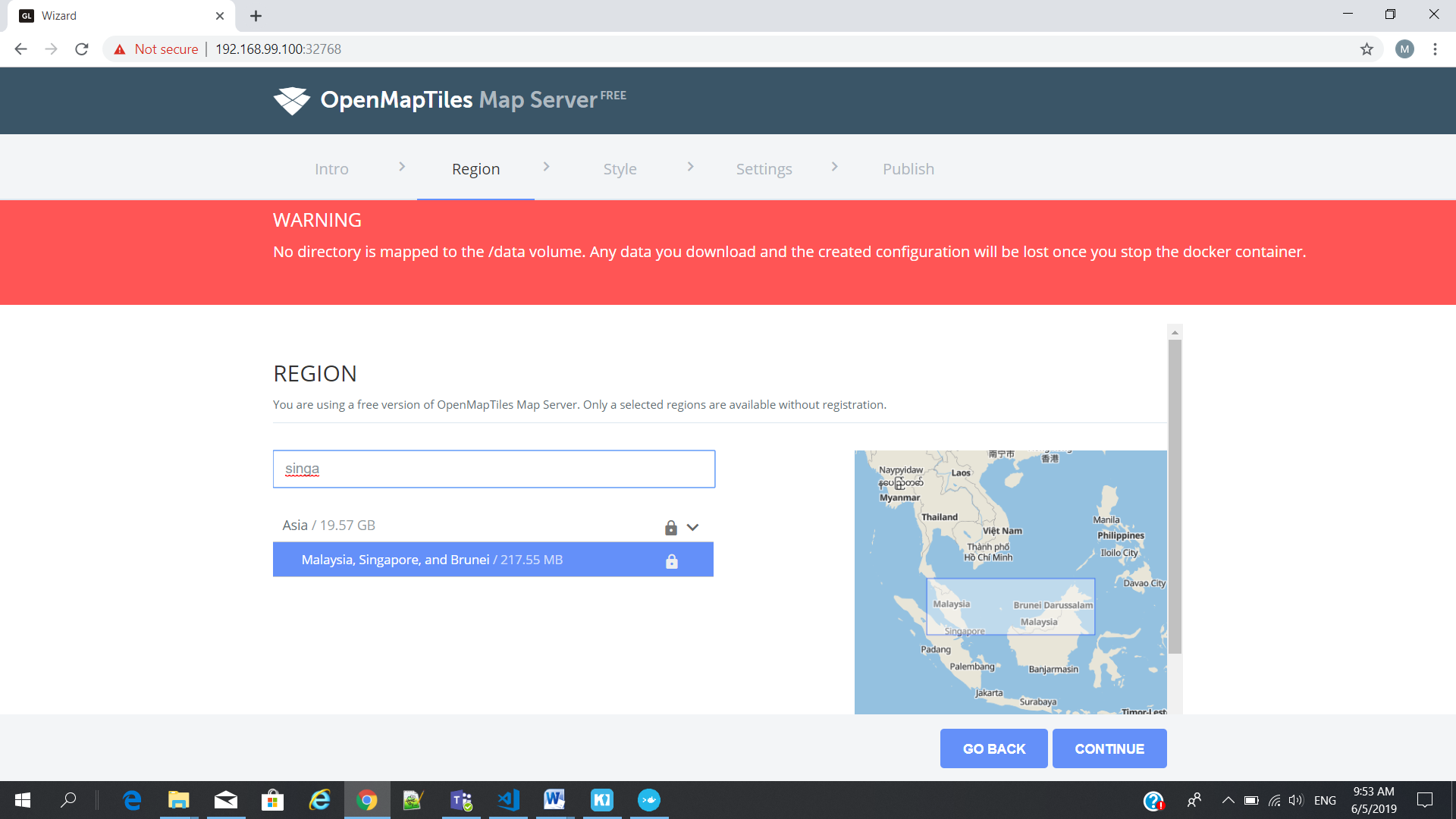
**To launch Mockup Demo**

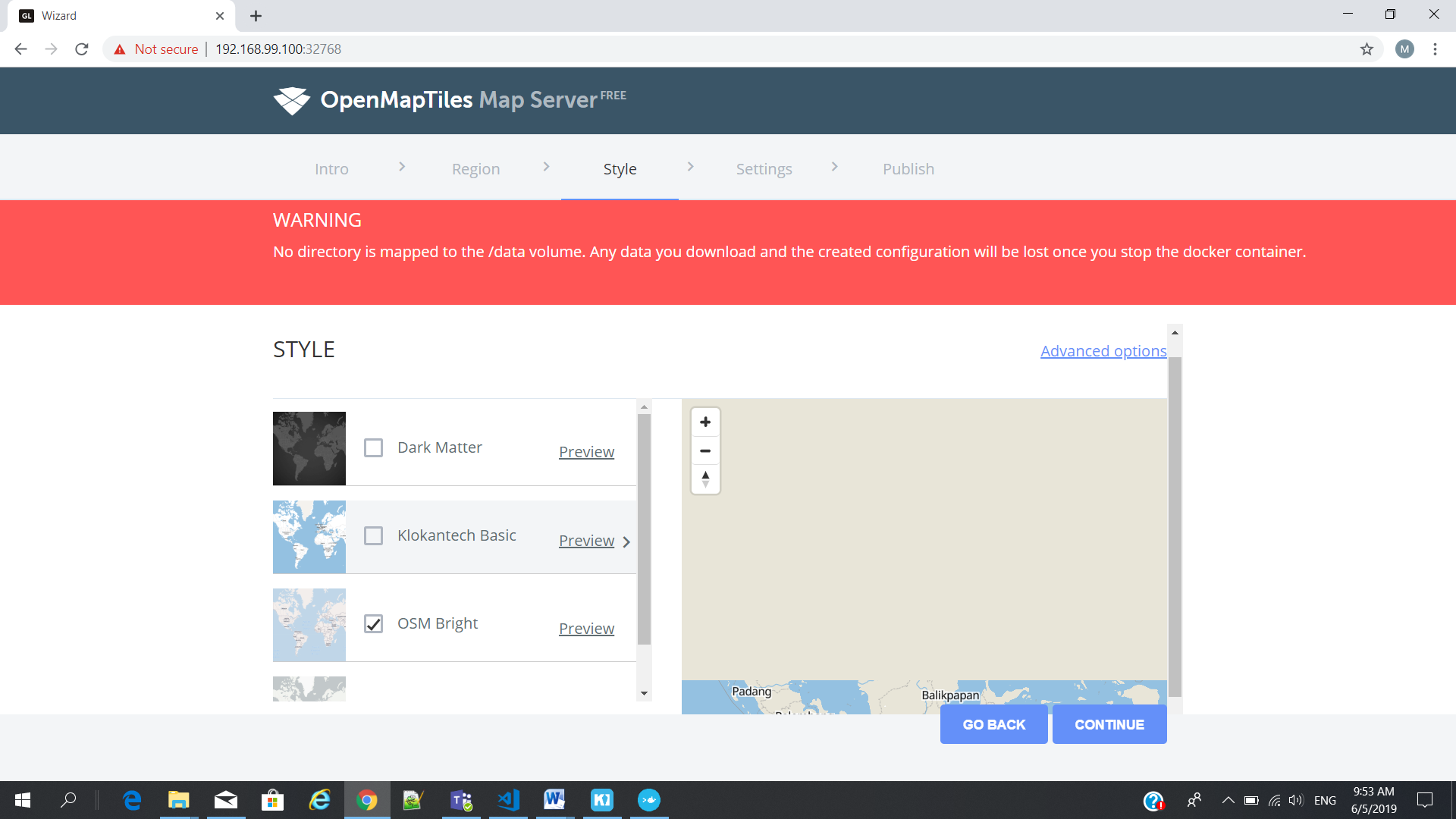
To start the following servers before launch the application.

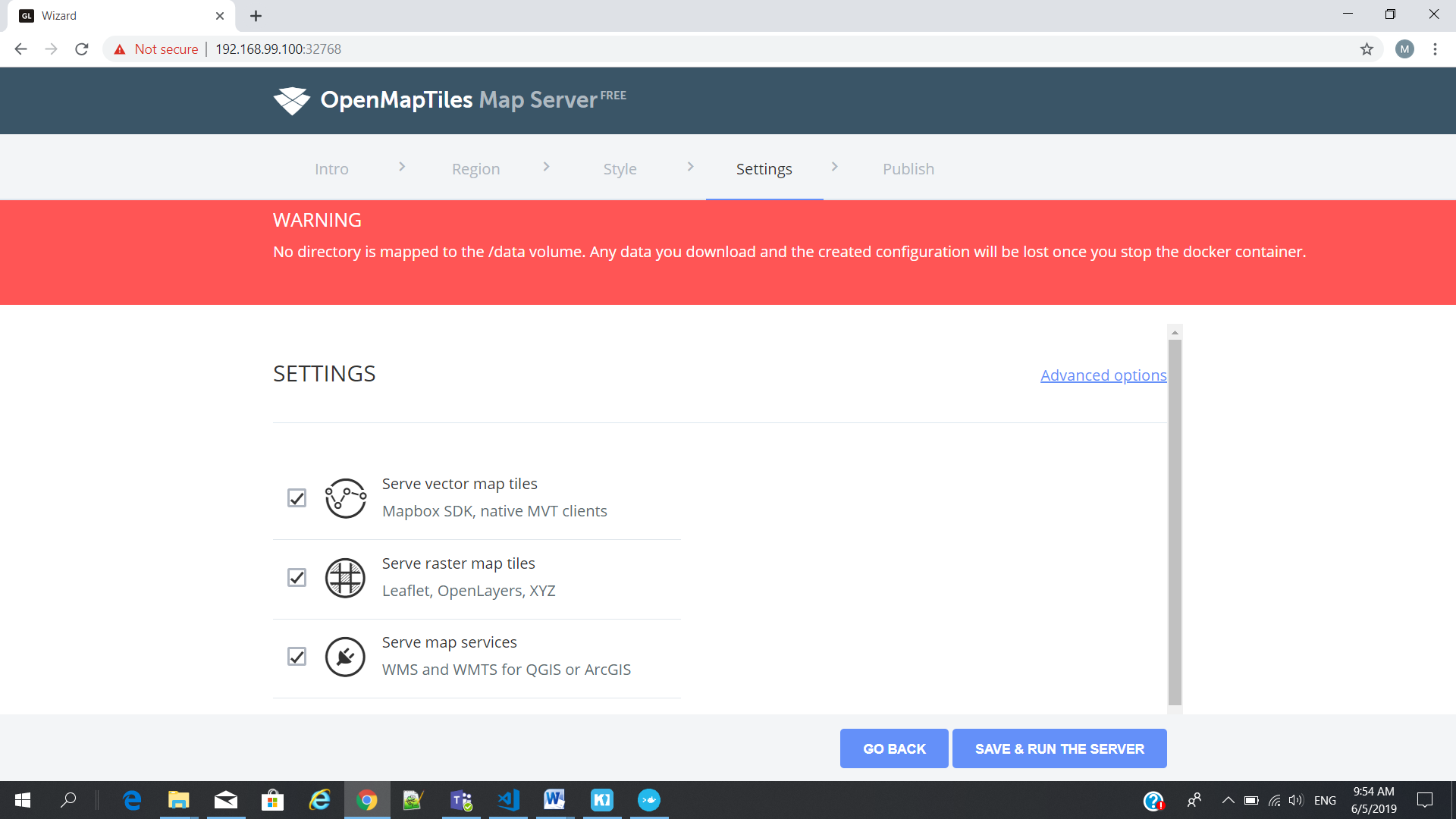
1. Tomcat
2. Docker
3. Kitematic
4. GeoServer
5. Copy **arcgis api java scriptfolder** to server folder where you deploy (tomcat /webapp/youfolder/ and paste **arcgis api java scriptfolder**

# OpenMapTile Server – setup and region selection

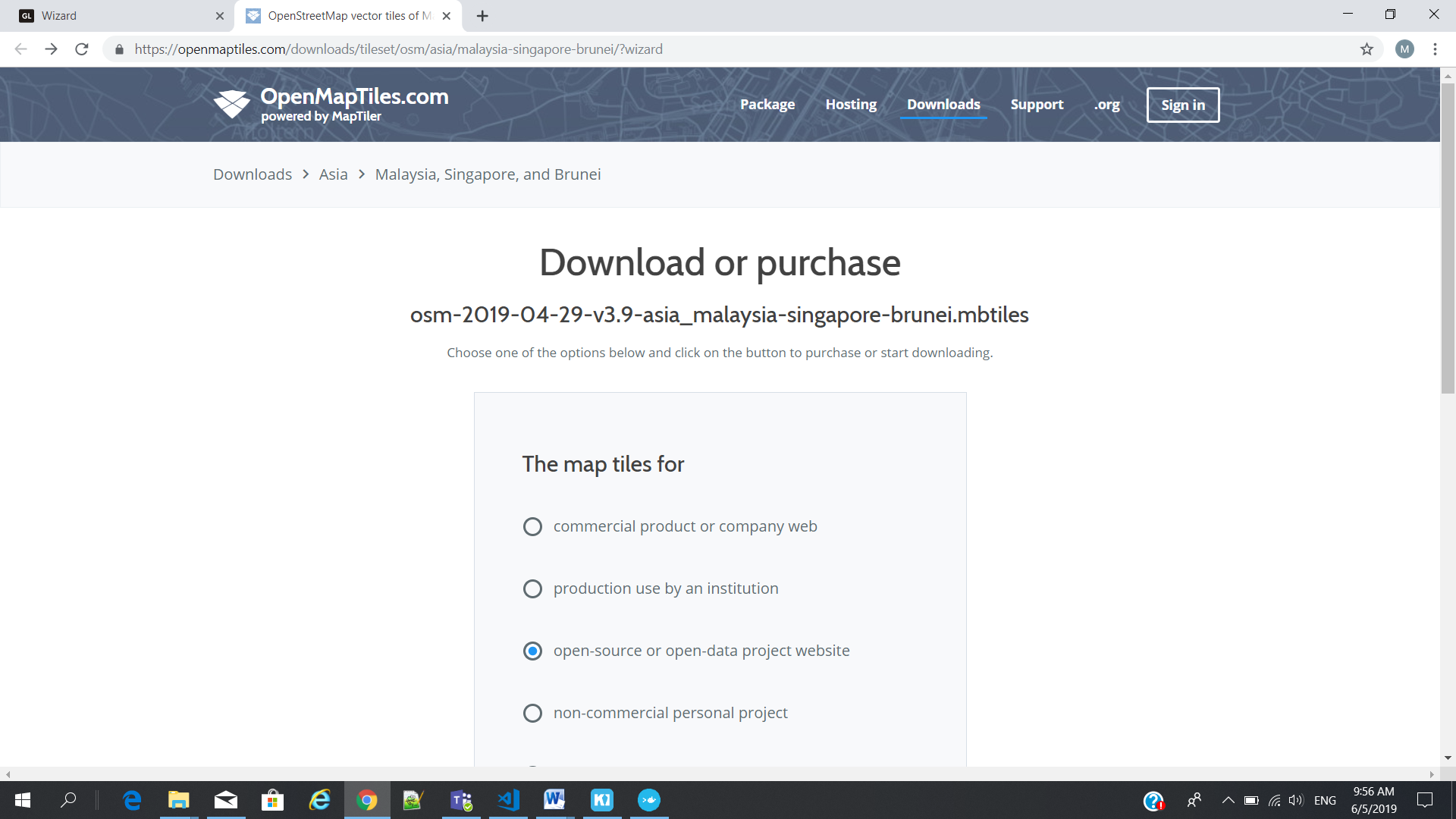


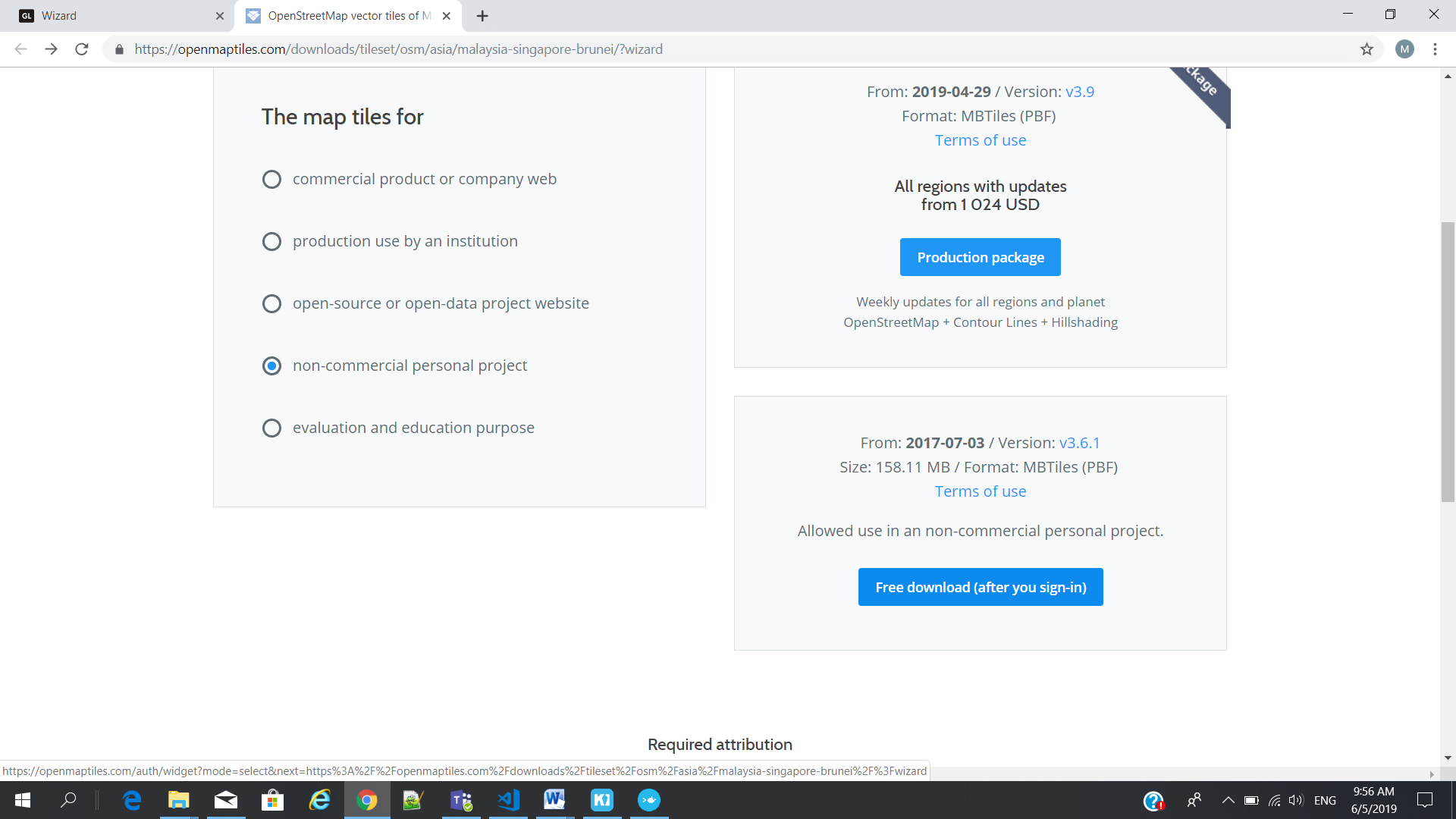


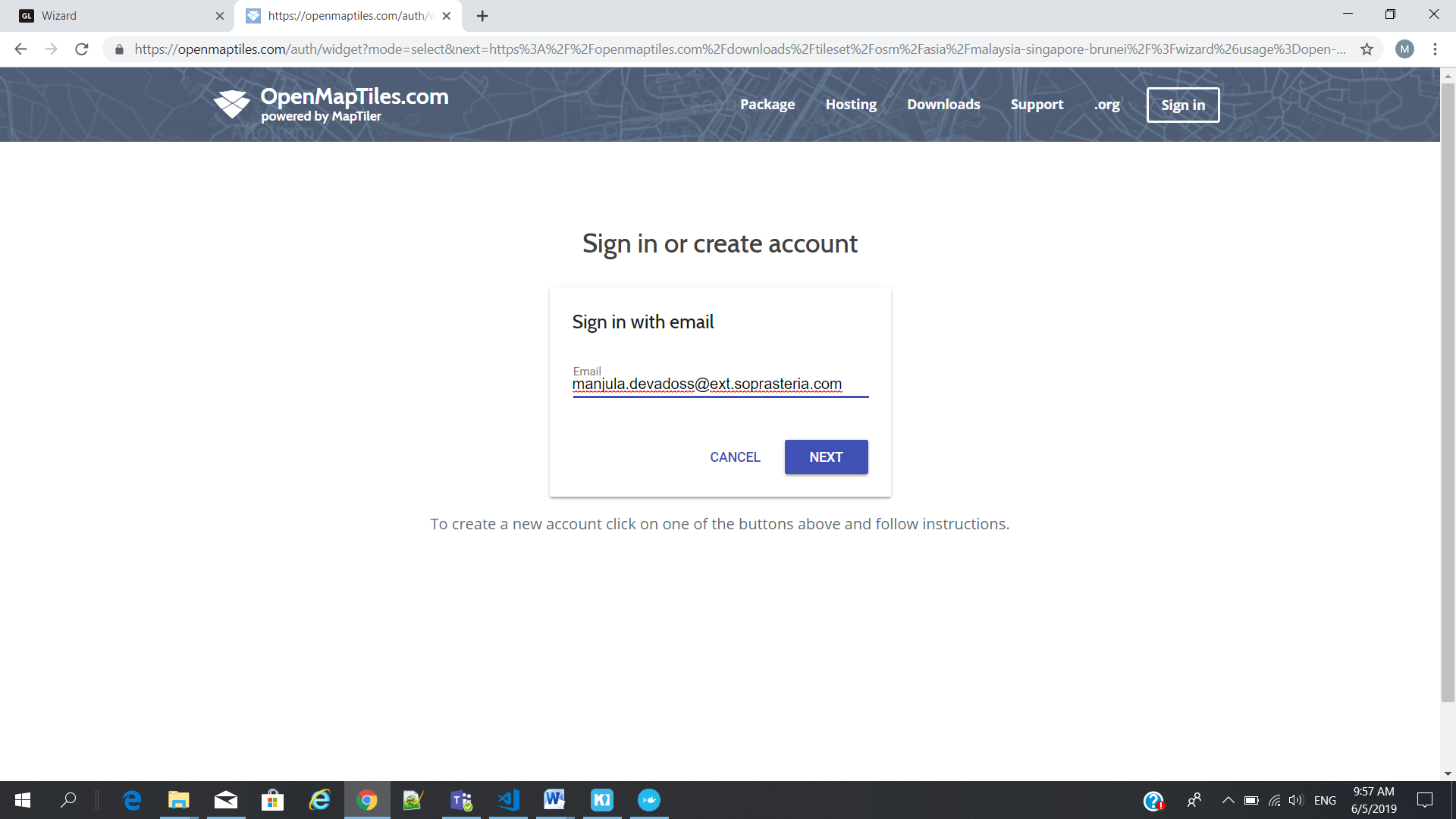






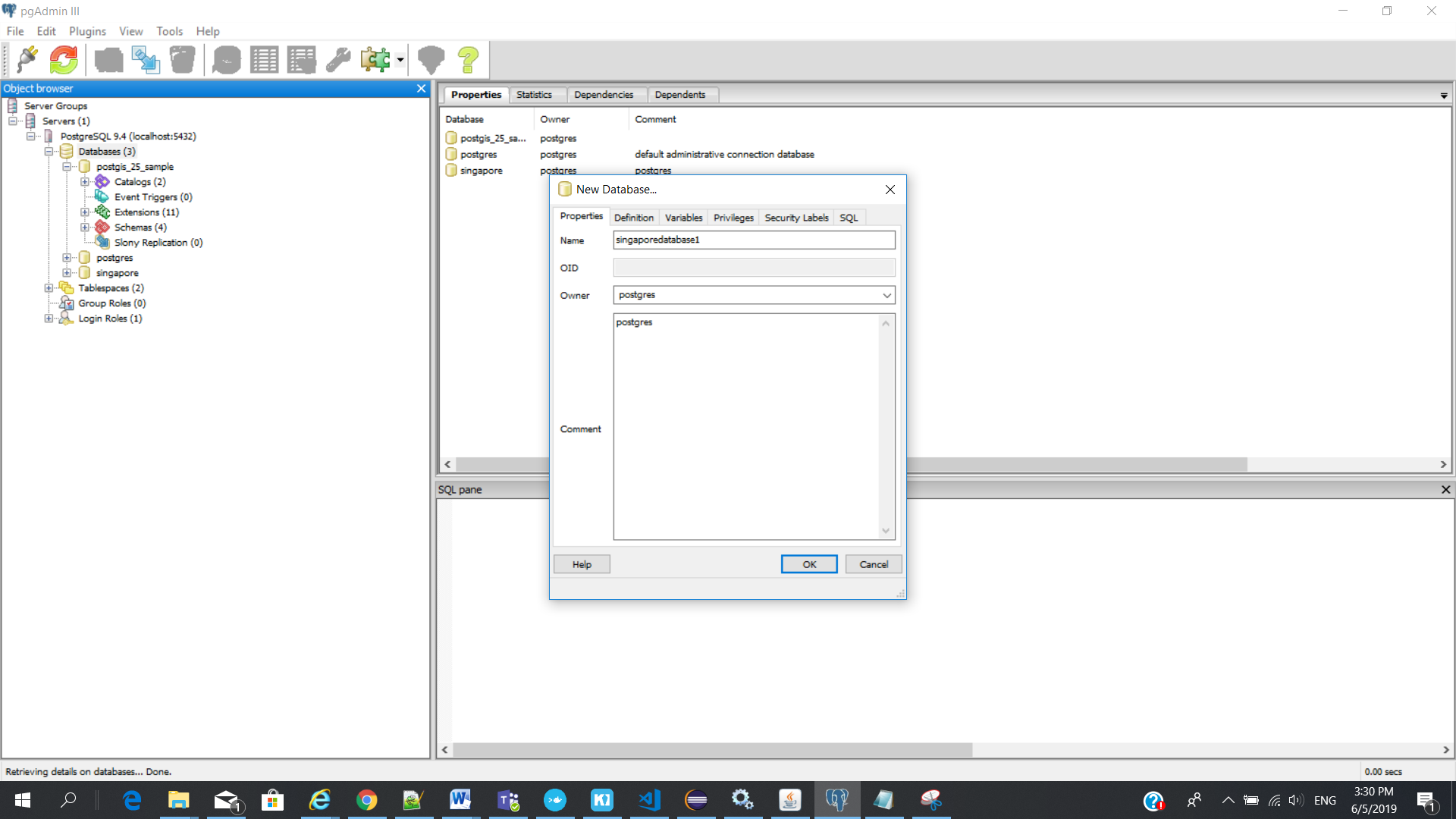






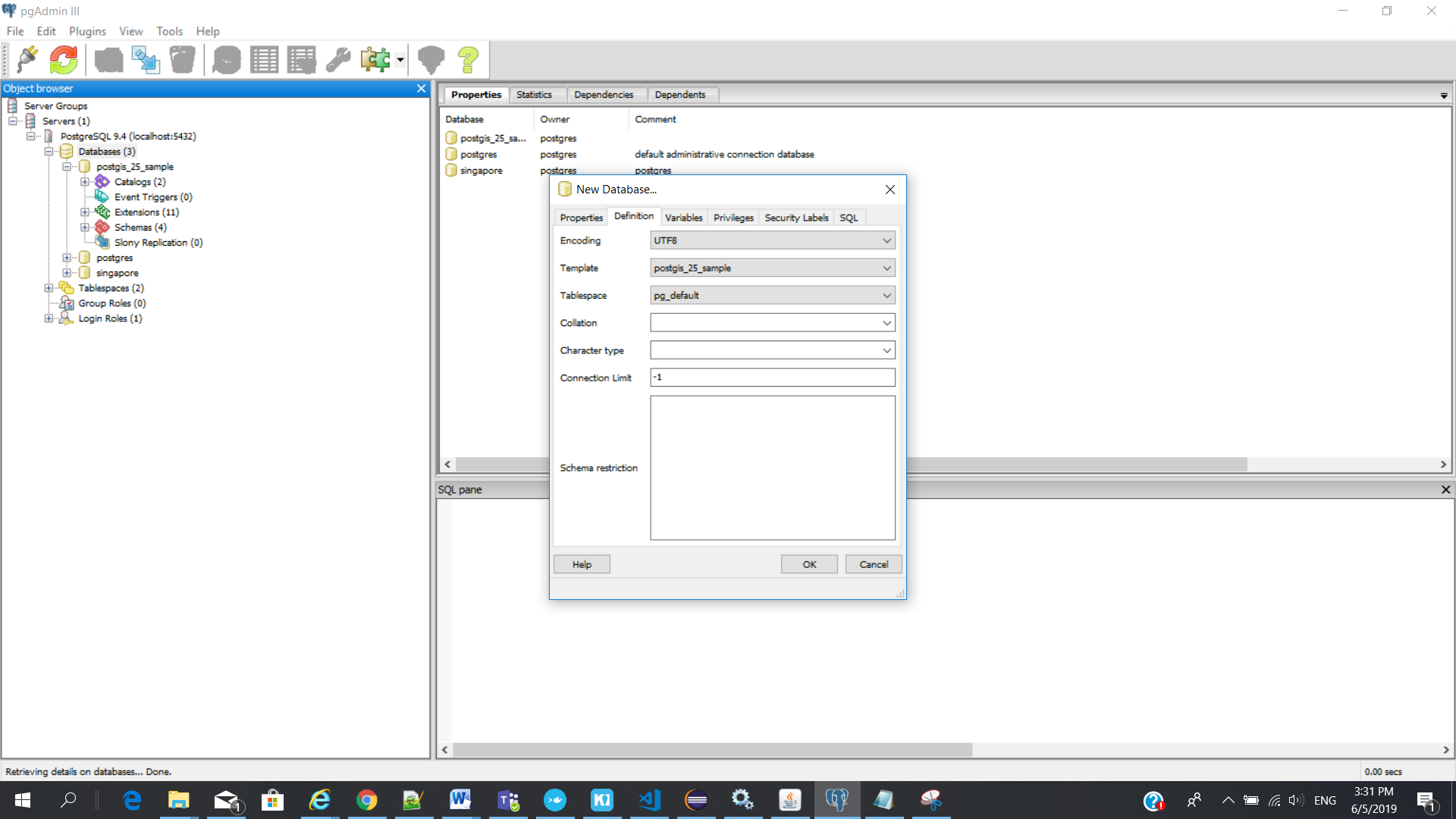
# Postgres Database Creation

1. Right click from Batabases(3)
2. Choose new Database

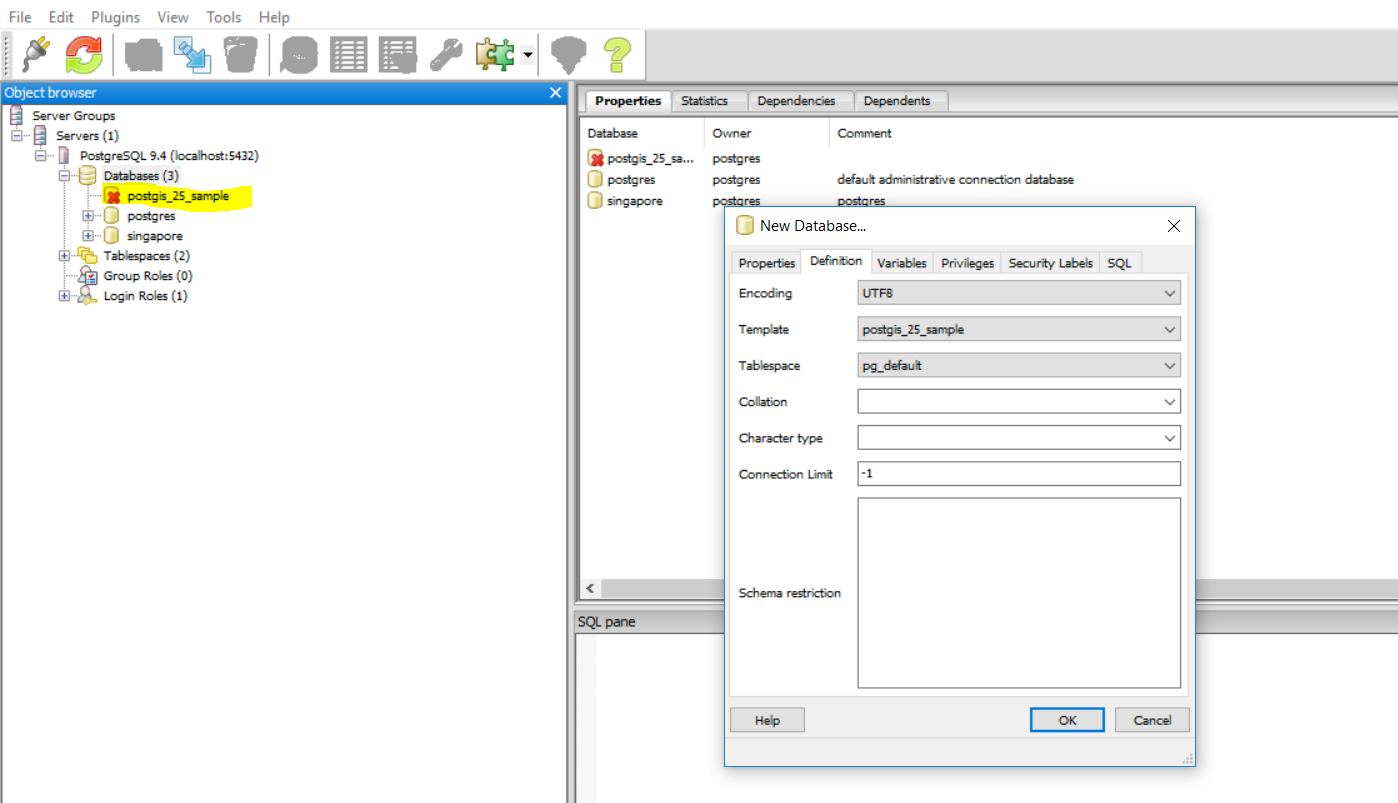


Template as - "postgis\_25\_sample"

Tablespace - pg\_default



Make sure when you choose “postgis\_25\_sample” - Disconnect Database – cross icon on the label name



New database : singaporedatabase1

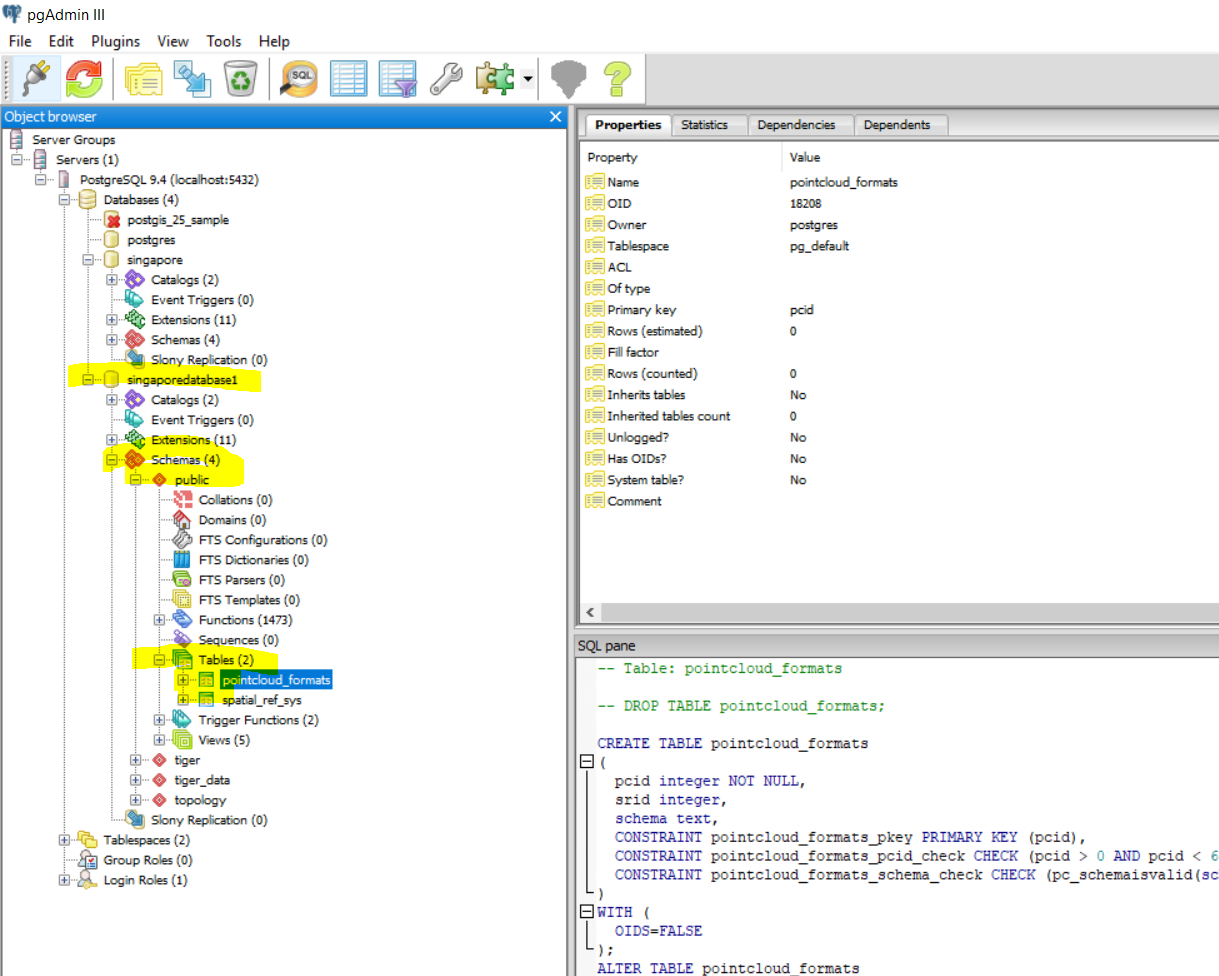
---- Singaporedatabase1

-------- Schemas

---------- Tables

--------- pointcloud\_frmats(table)

---------- saptial\_ref\_sys(table)

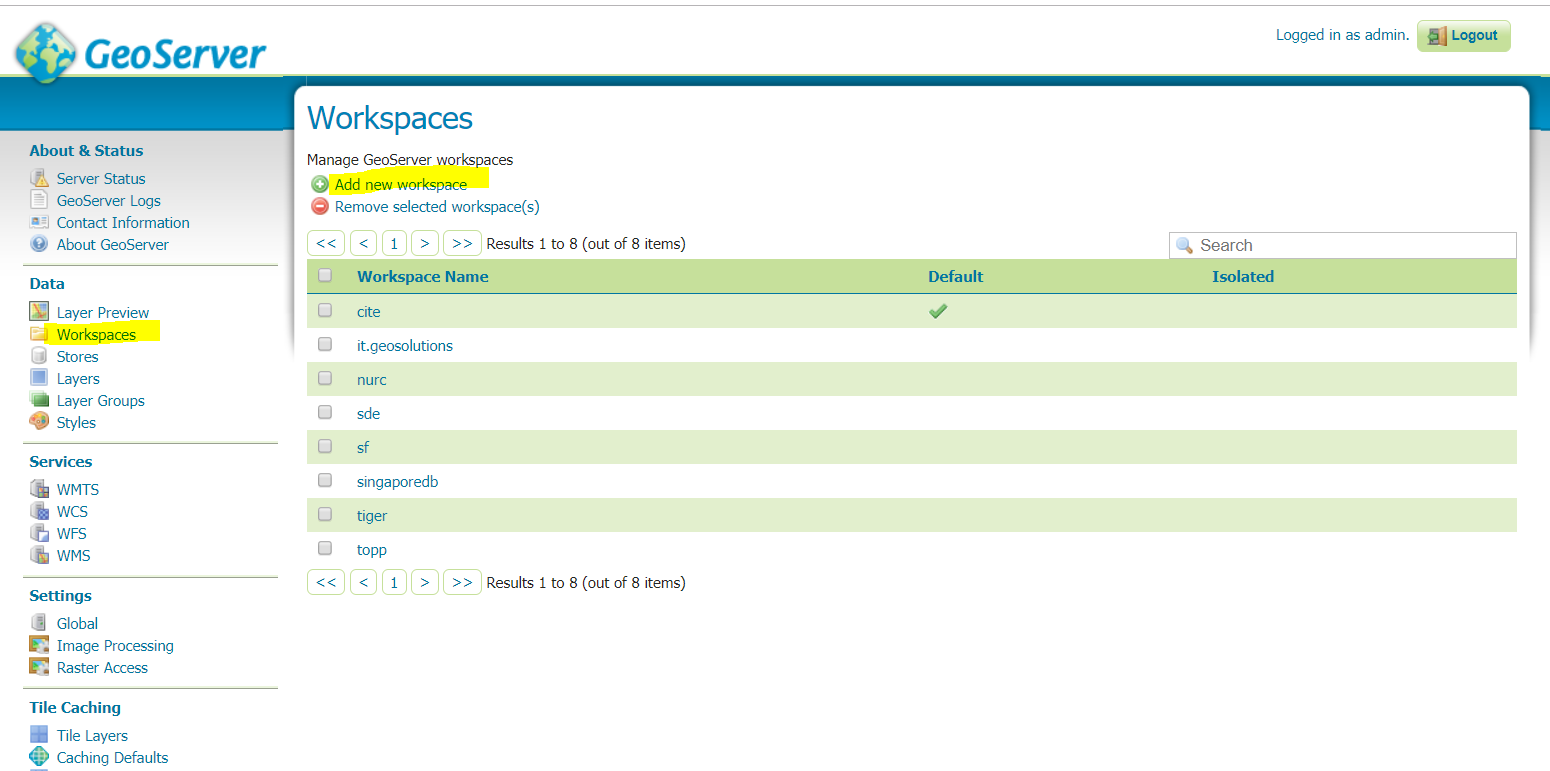


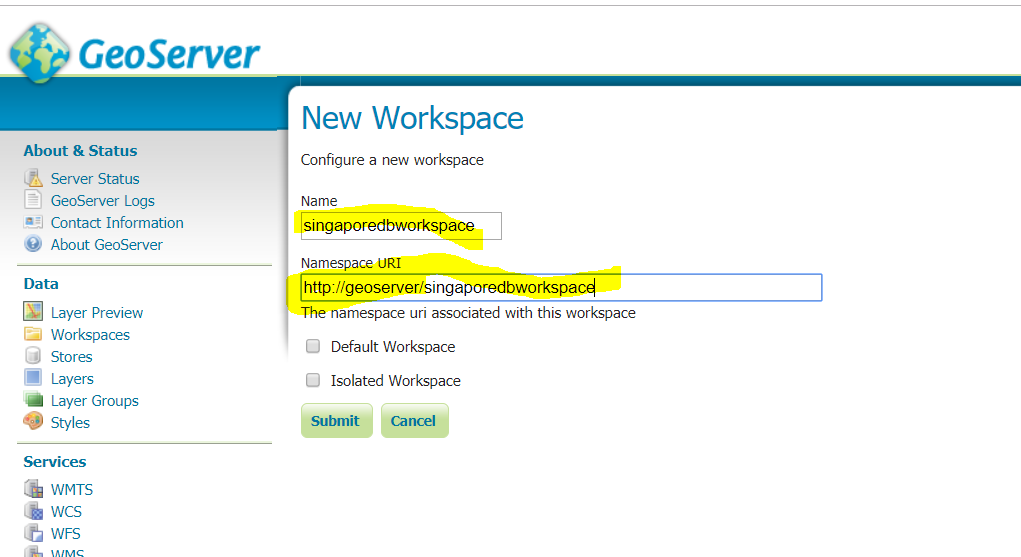
# Geoserver and database setup

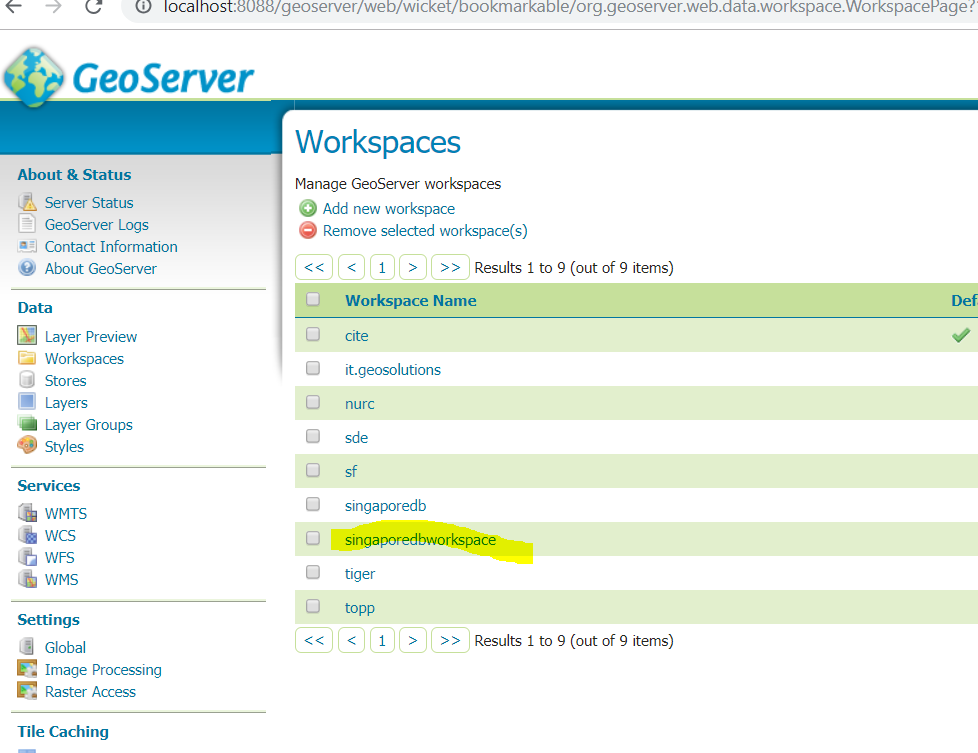
Login to Geoserver ()

1. Click Workspace

Add new workspace







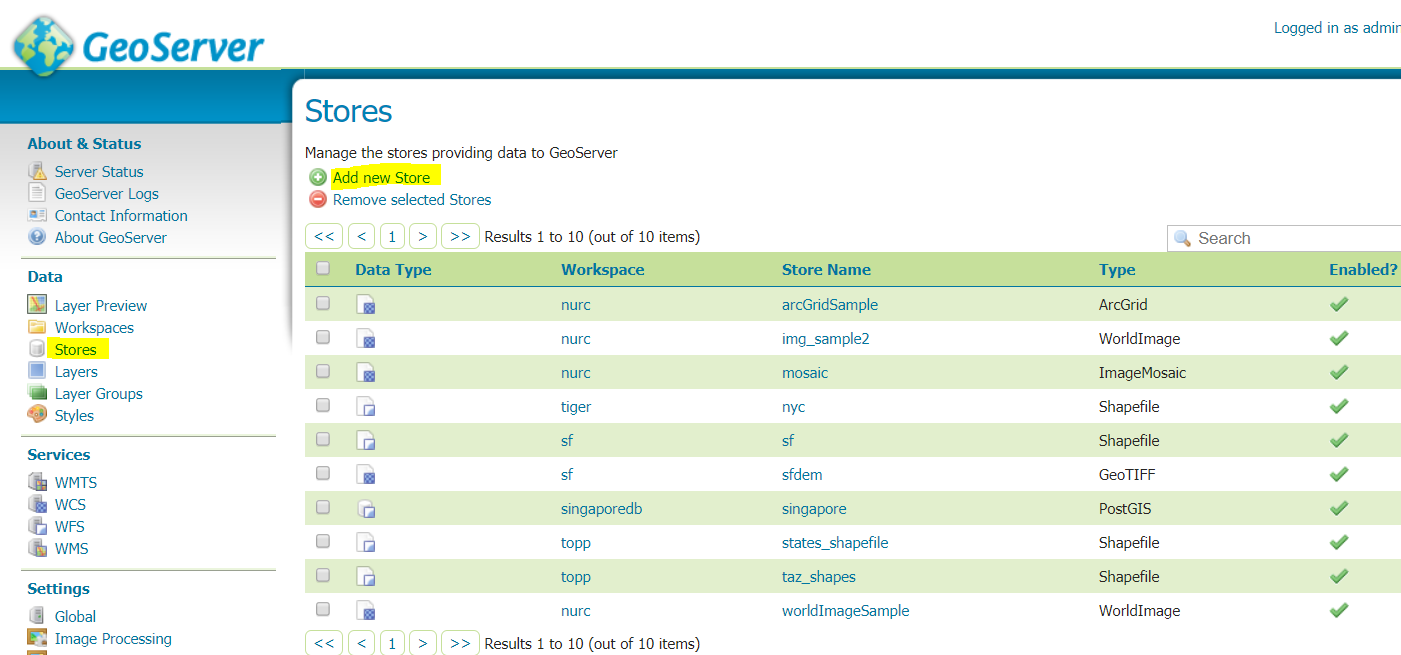
Services :

WMTS – Basemap (openmaptile server)

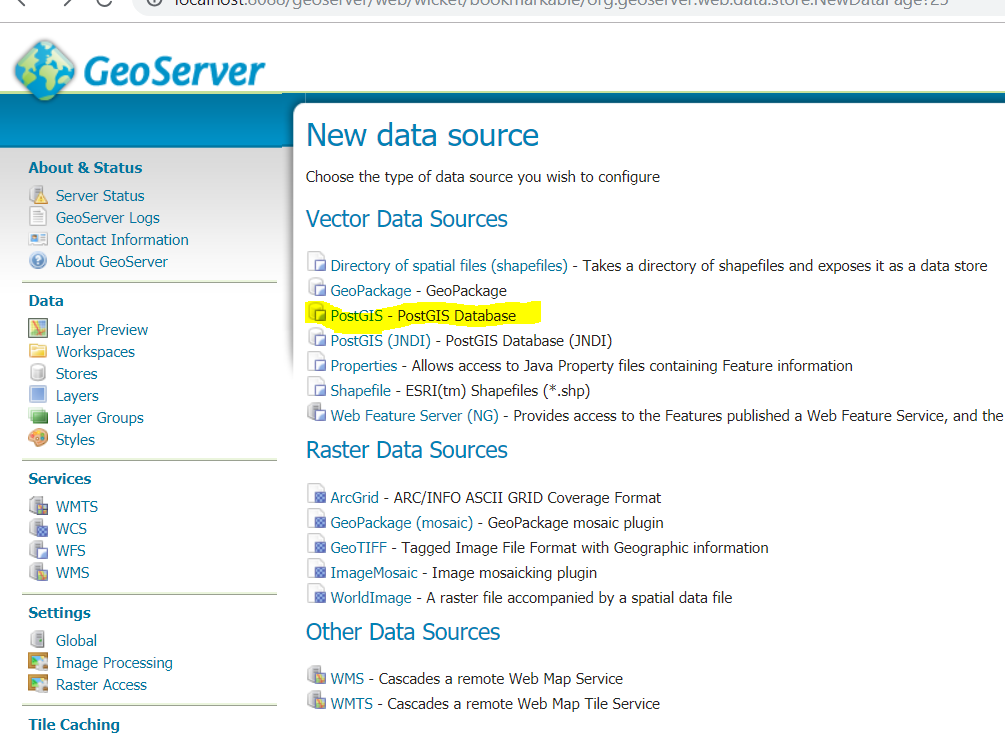
WMS – Additional layer (geoserver)

1. Click stores

Add new store



Choose :  [PostGIS](javascript:;)- PostGIS Database



Click stores

Workspace – choose your workspace

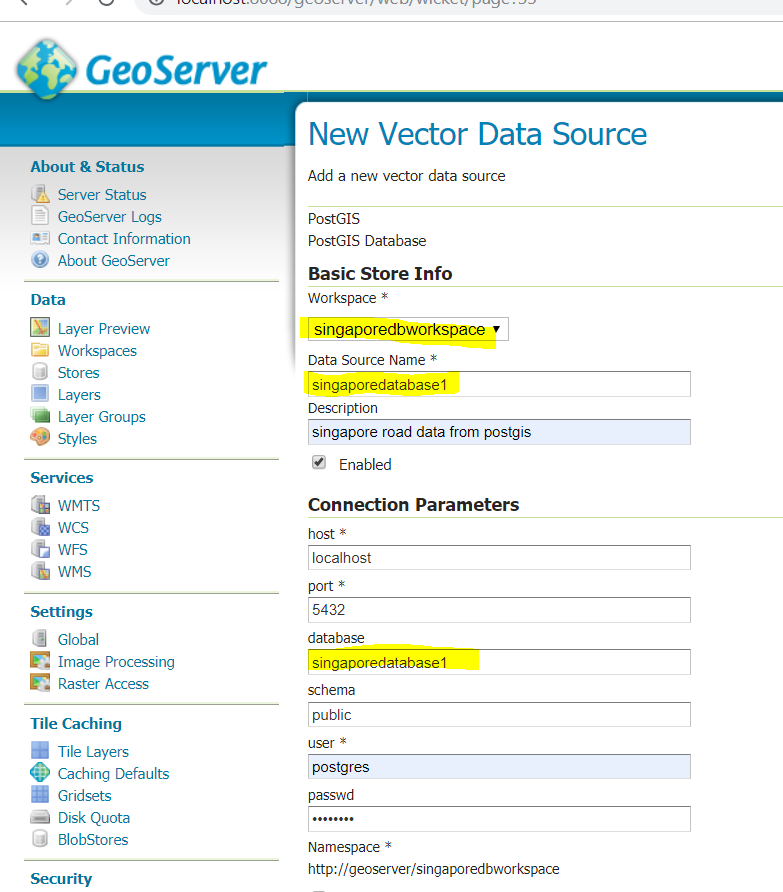
Data Source Name – choose your data base name

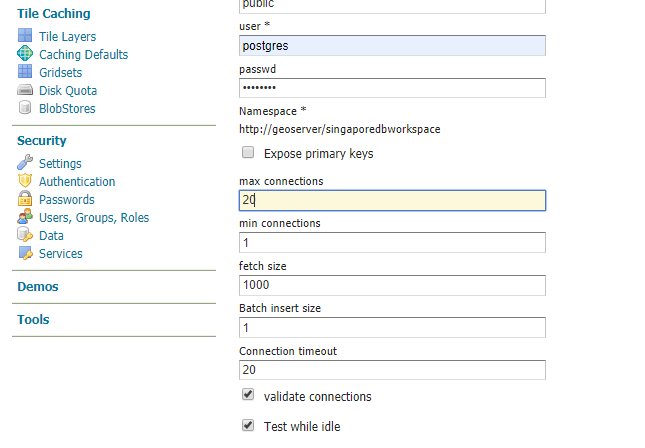
Database – name of your database

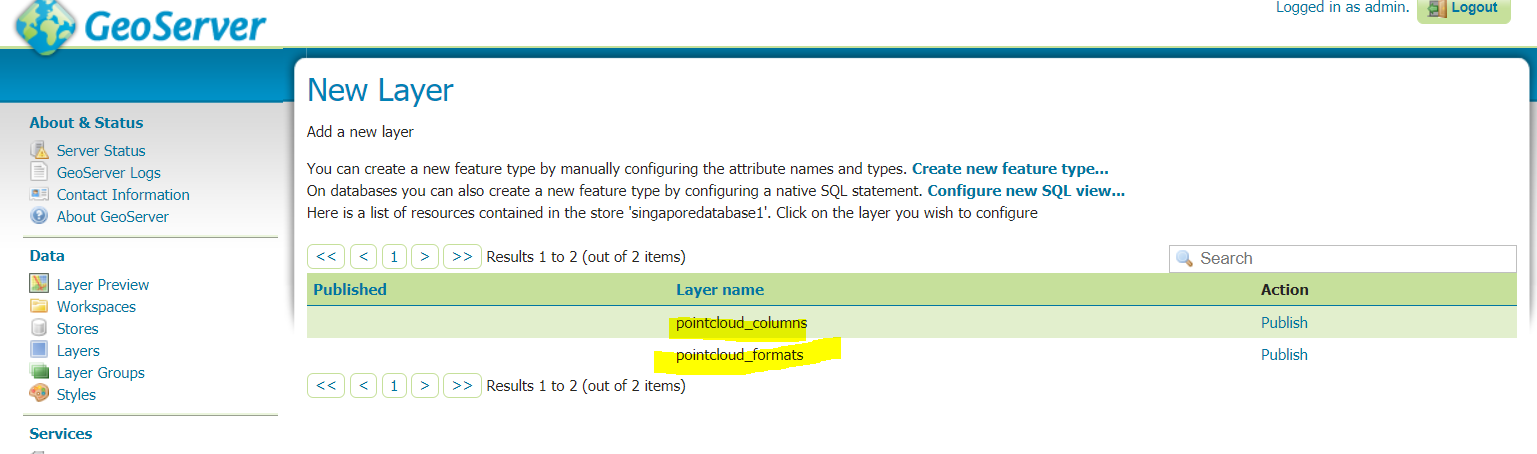
User : postgres

password : postgres

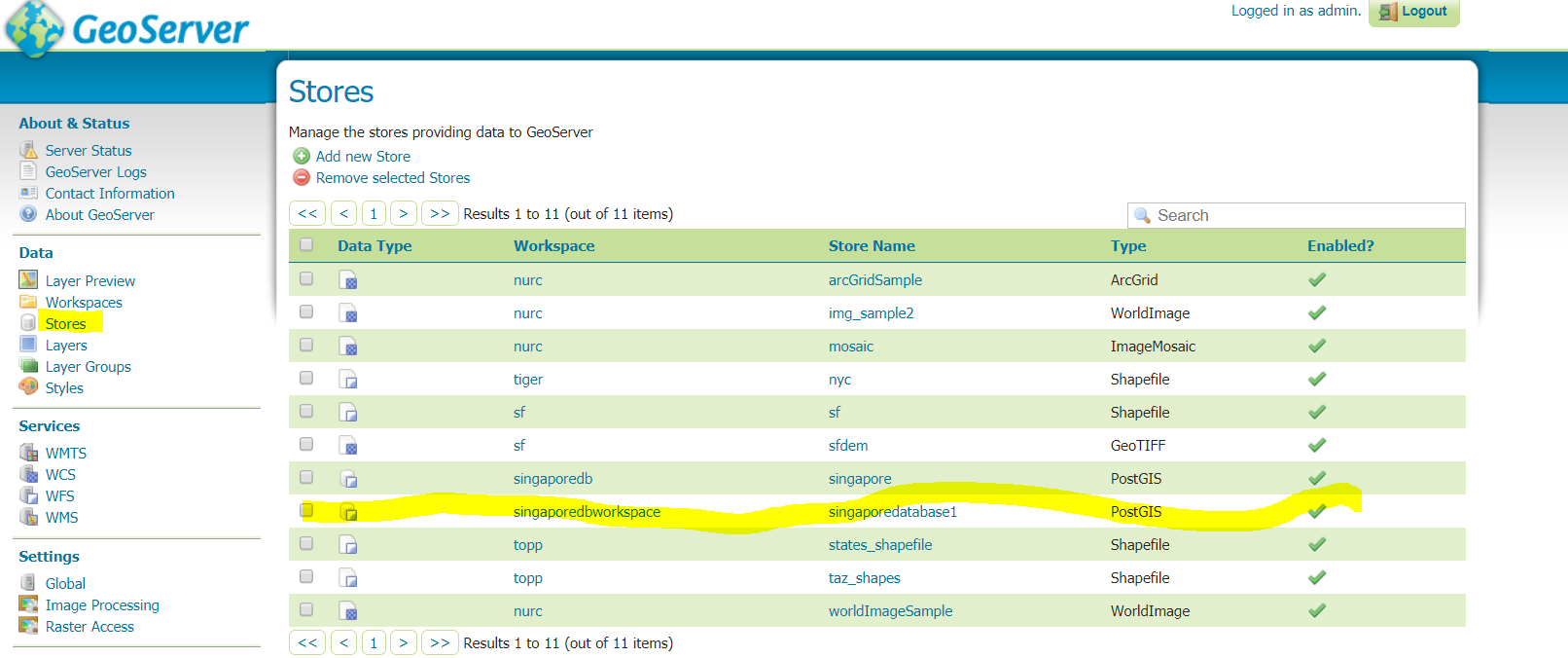
maxconnection : 20





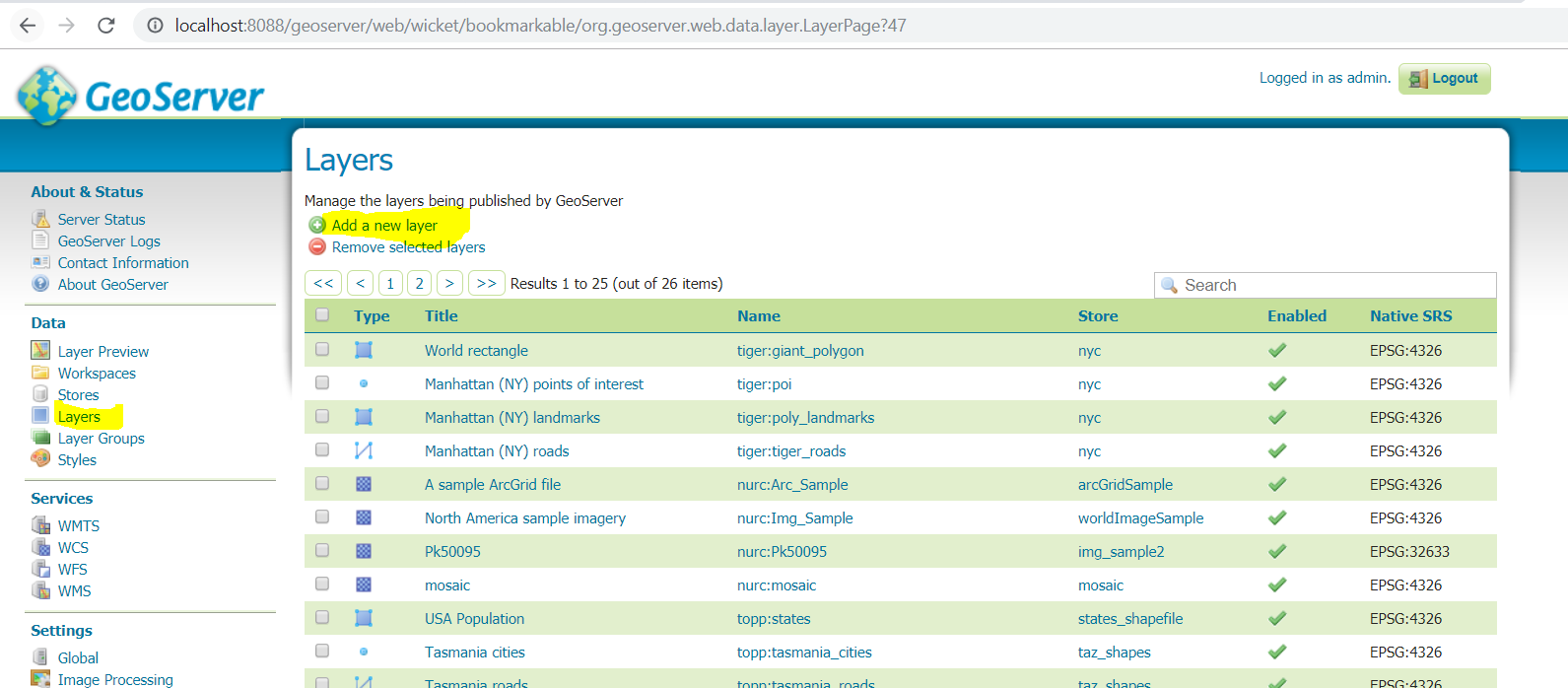


Layer will display : pointcloud\_columns table (check with postgres db)

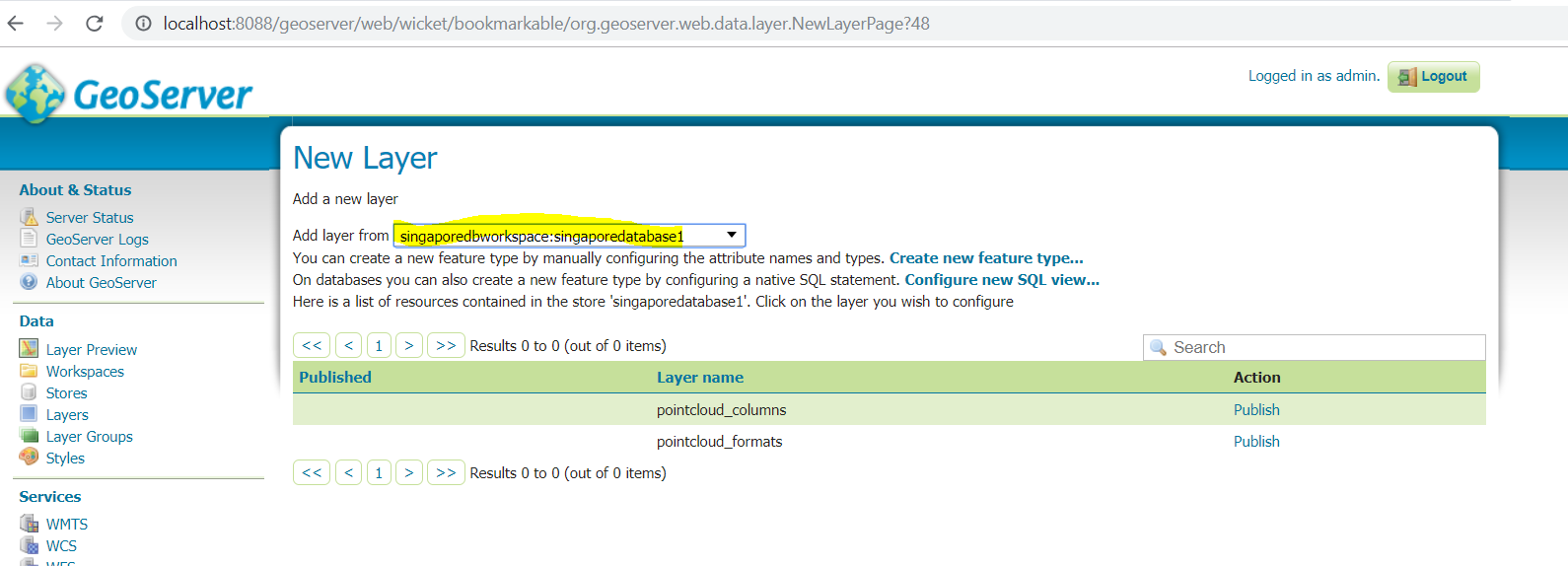


1. Click Layer

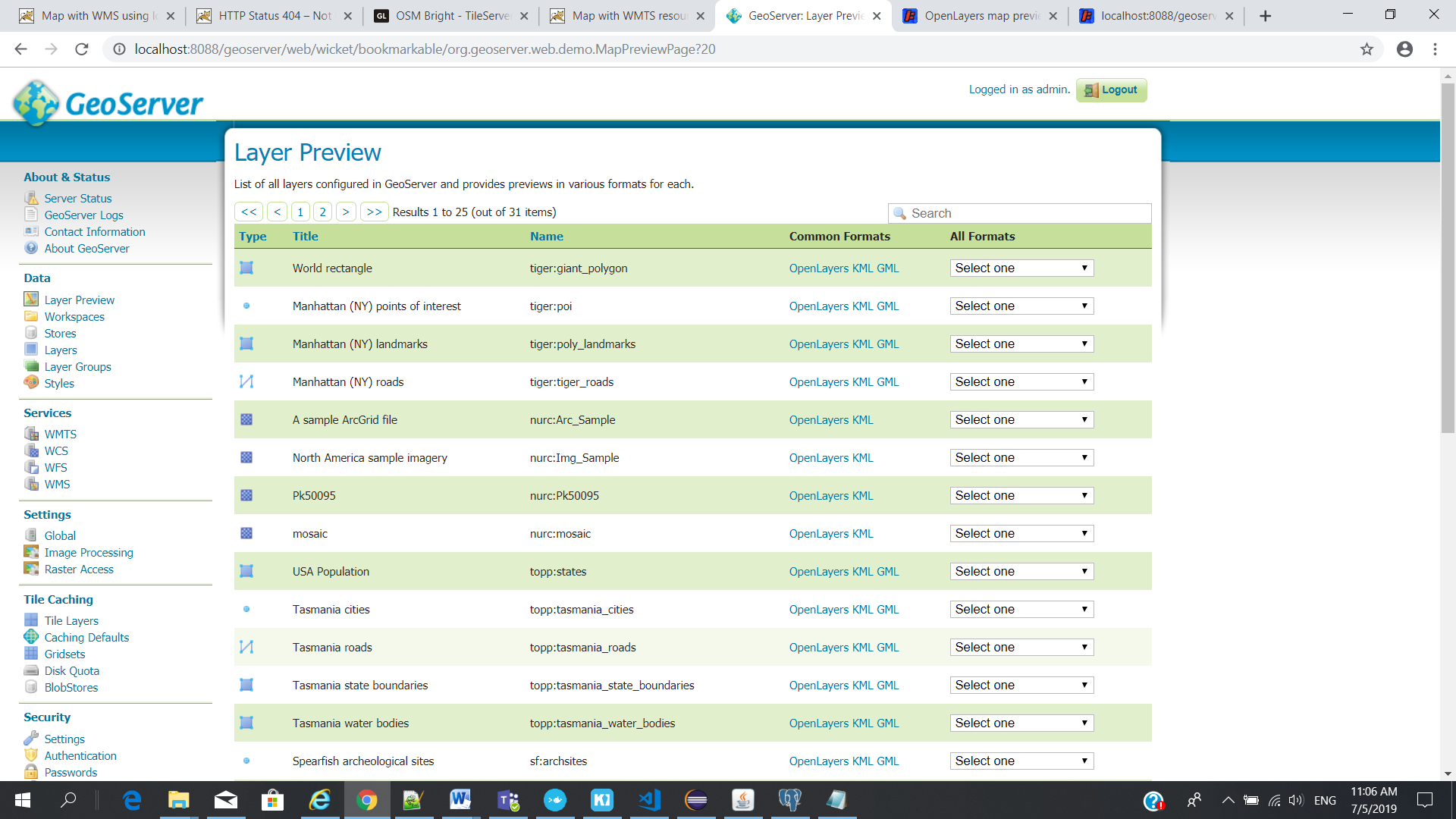
Add a new layer



Choose you workspacename



1. Click Layer Preview – to view the layer on the map



Top of Form