itransport 2 Mockup Demo Application

# Required software

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

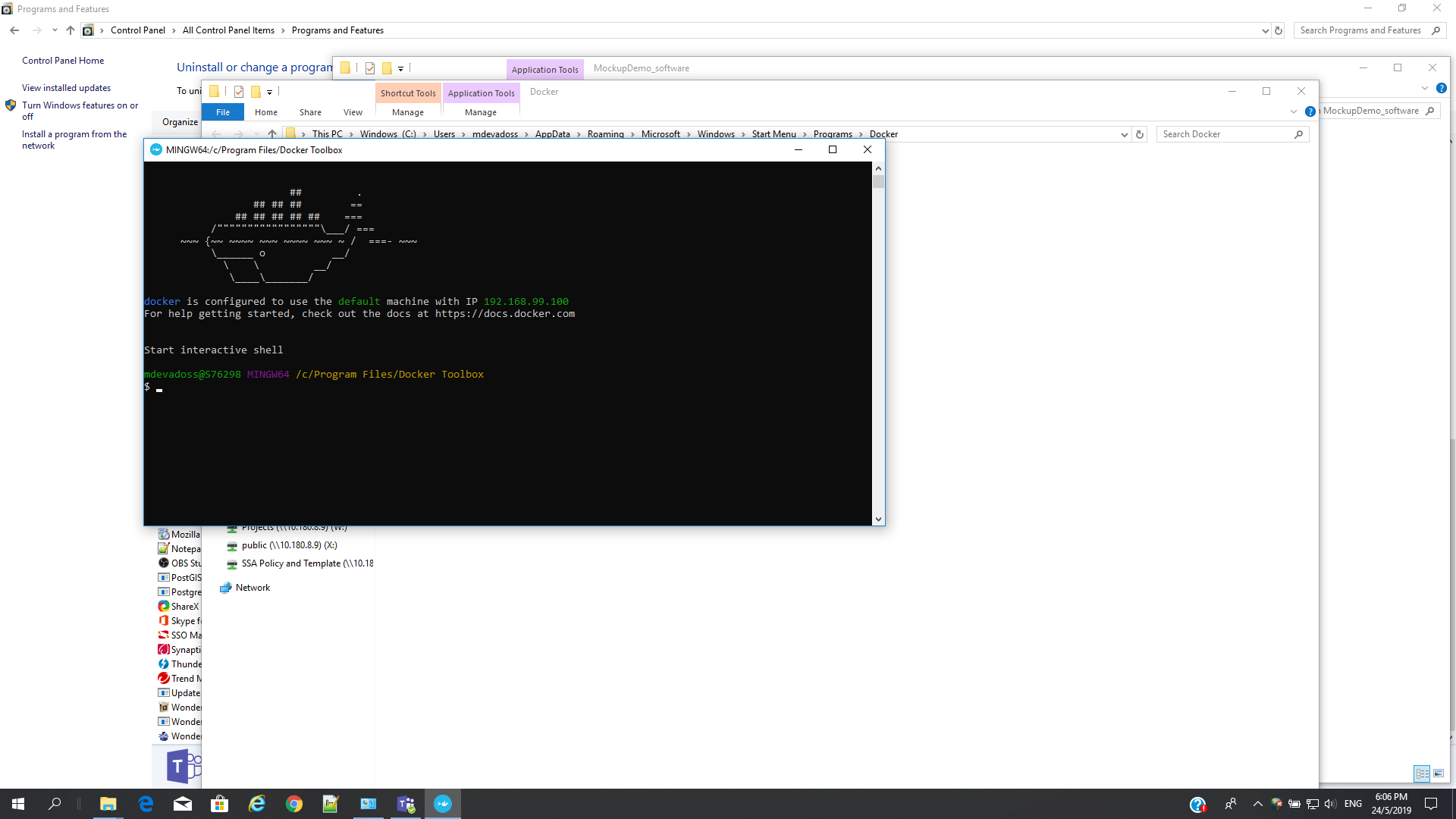
**To launch Mockup Demo**

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**

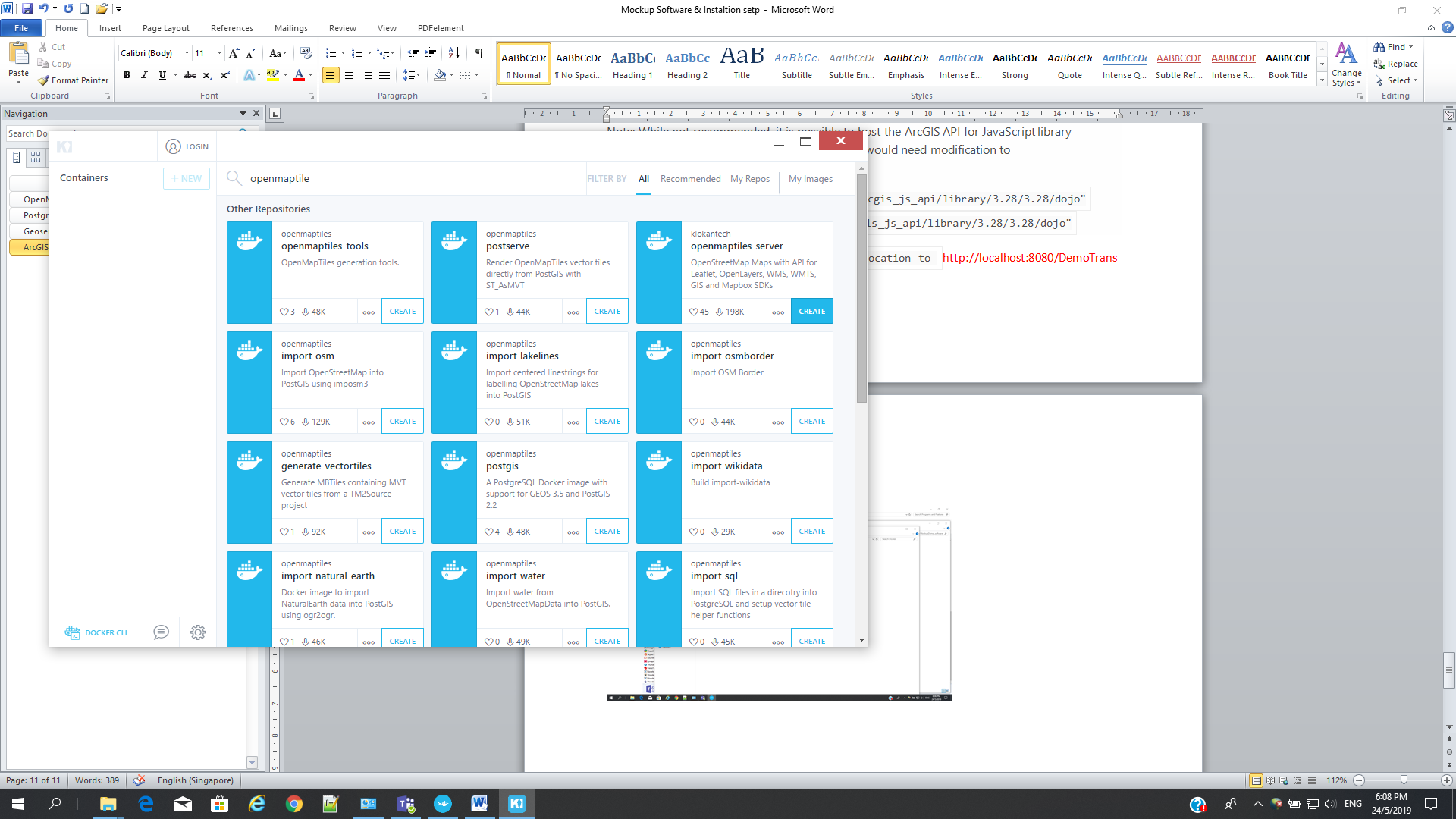
# Dockers installation

DockerToolbox.exe – Run as administrator mode

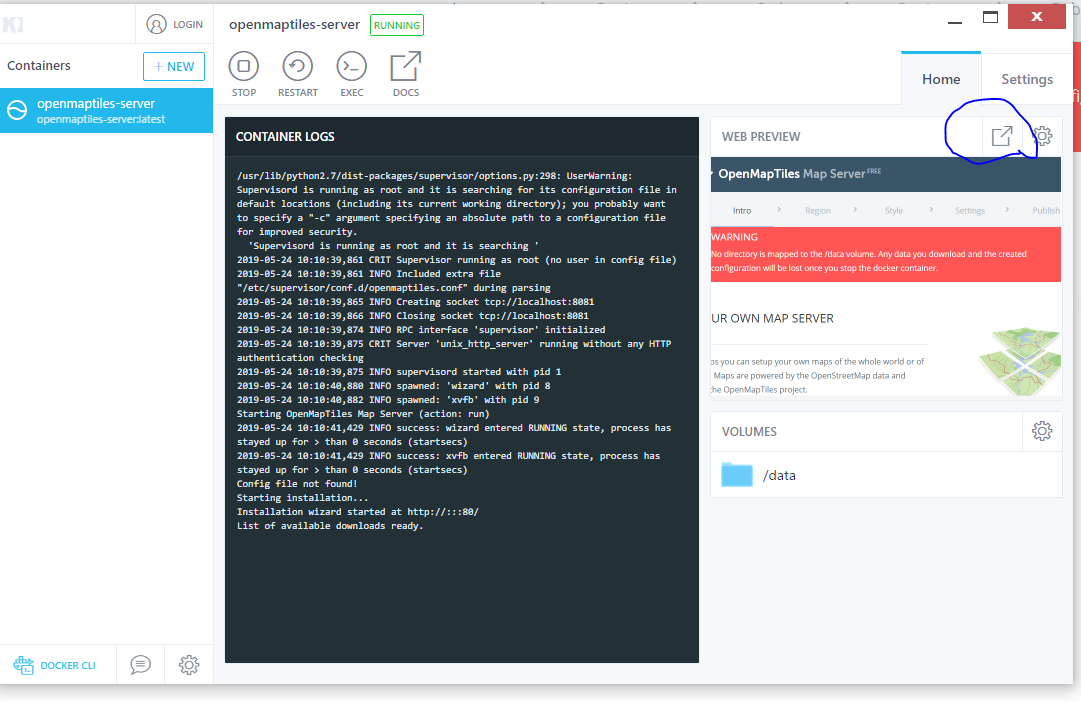


2. Kitematics from Start menu - Run as administrator mode

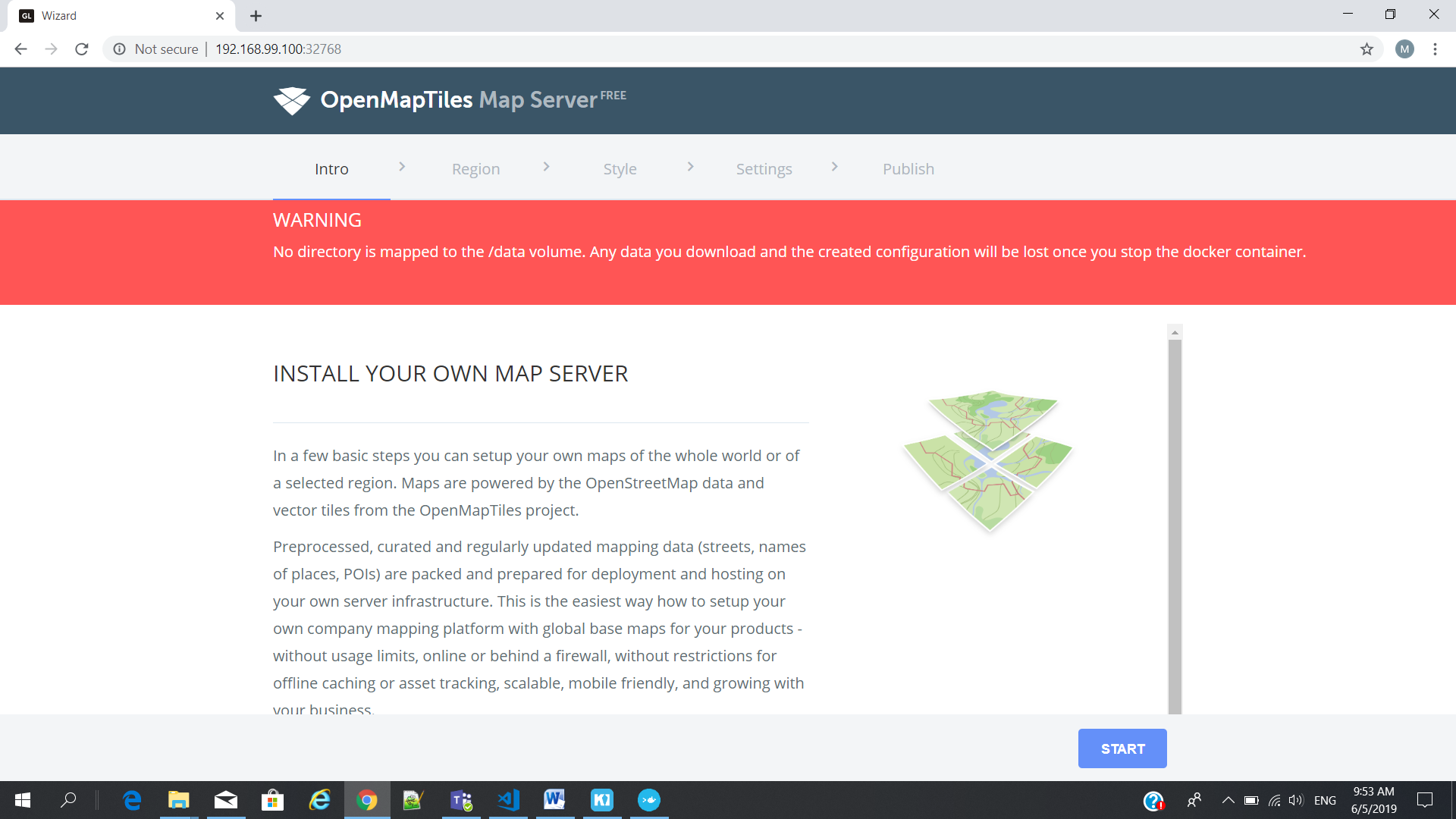
a. Look for openmaptile Server – create

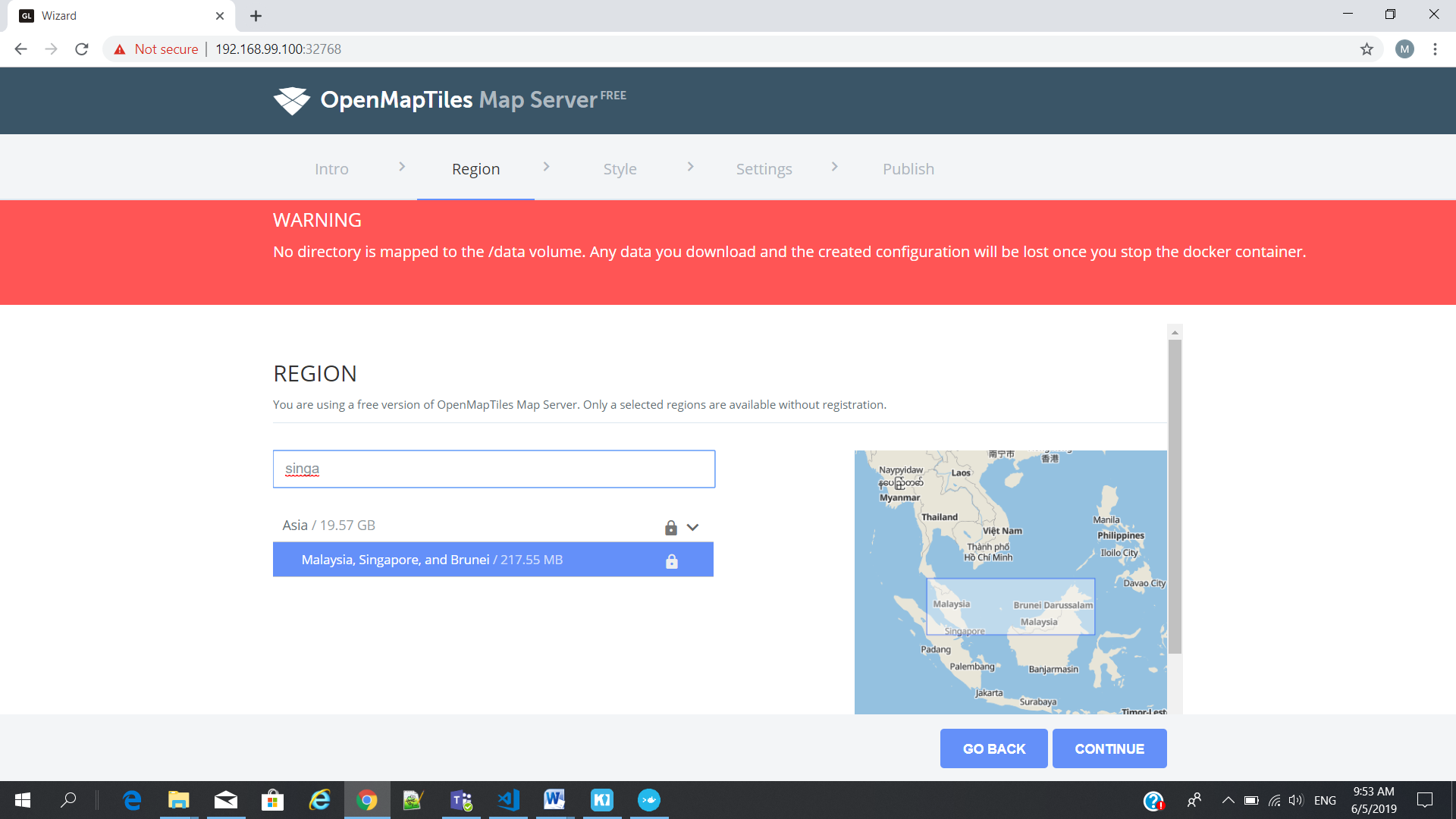


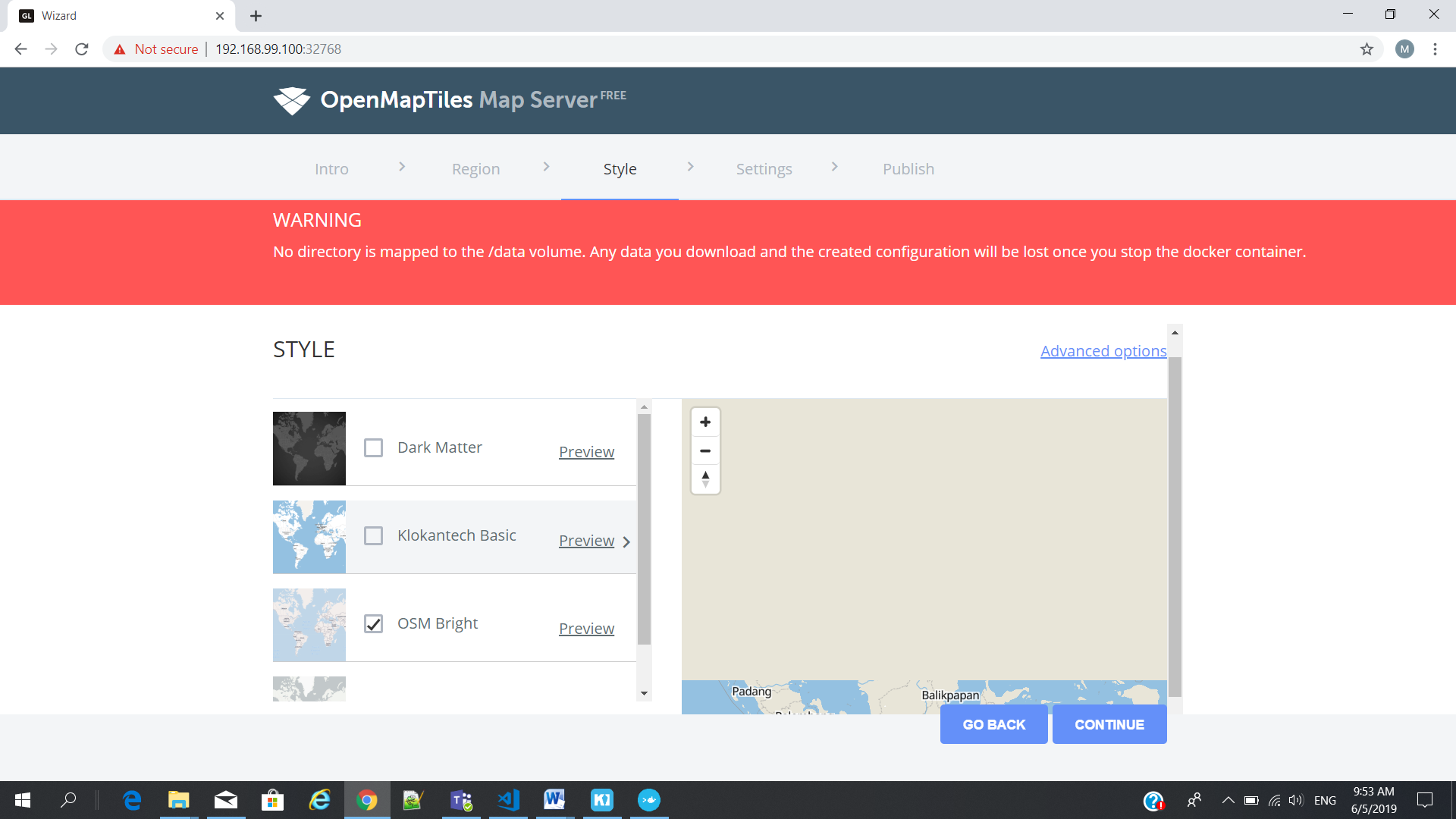
1. To launch in browser by click pointed image

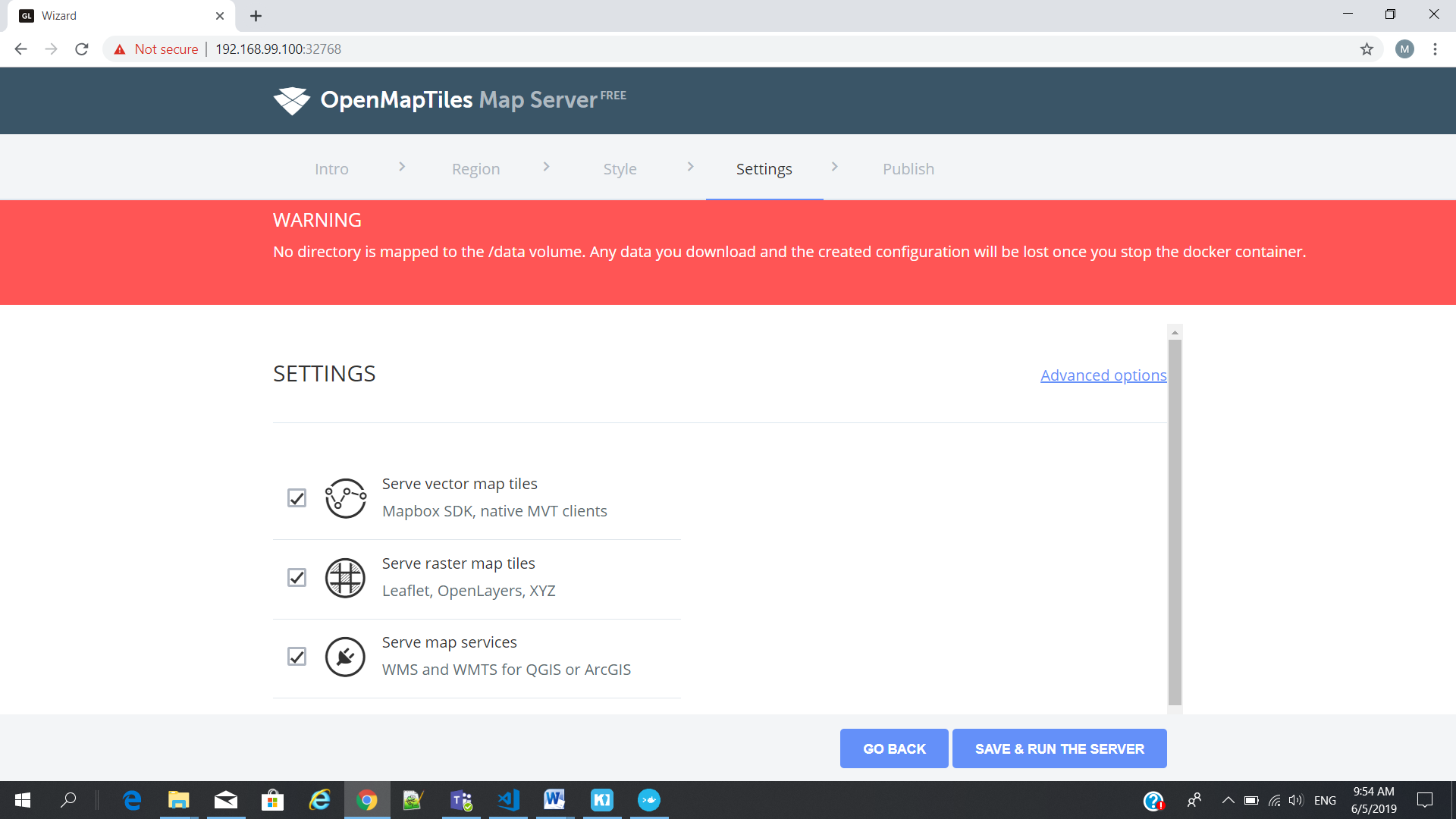


# OpenMapTile Server – setup and region selection

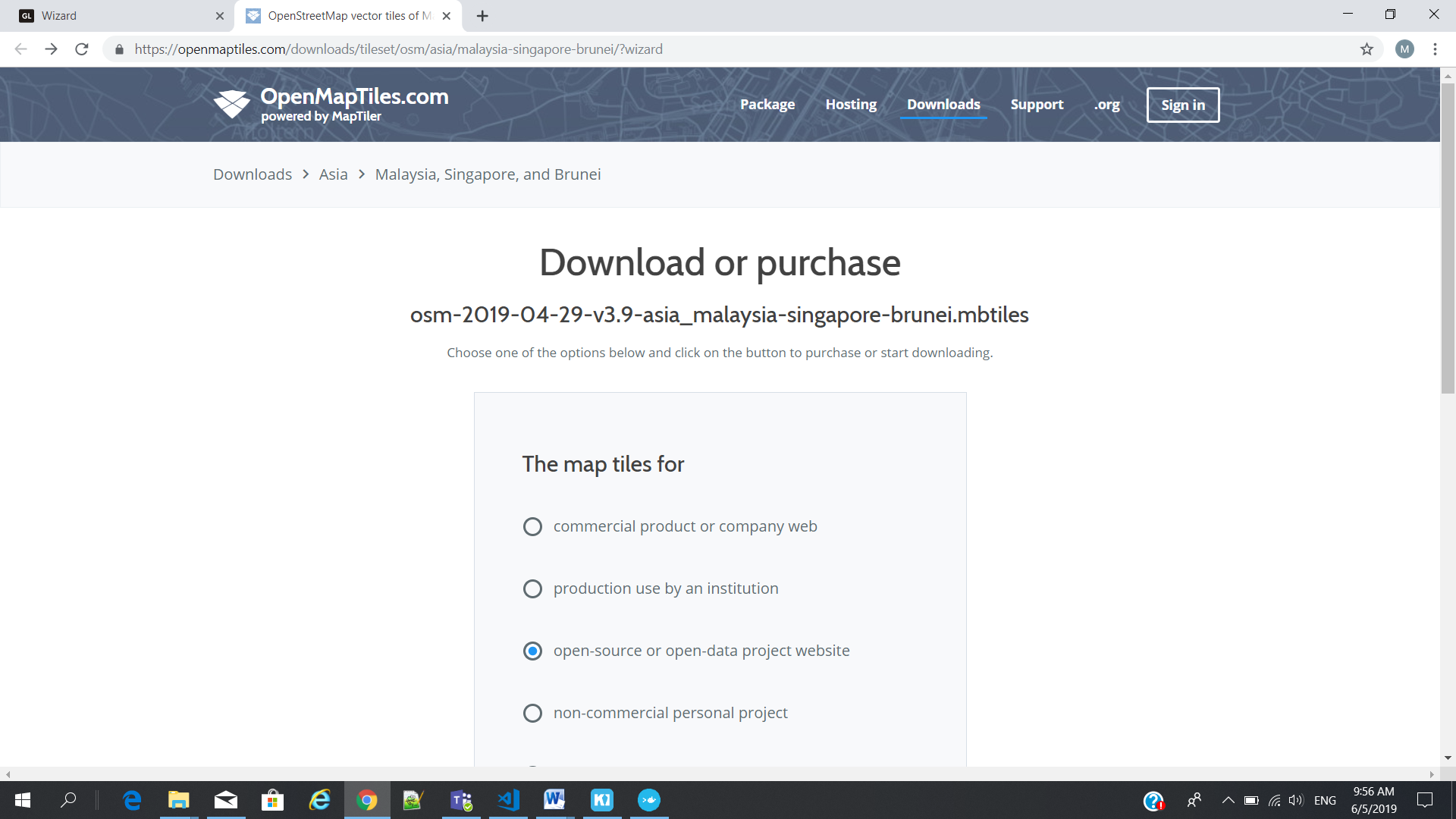


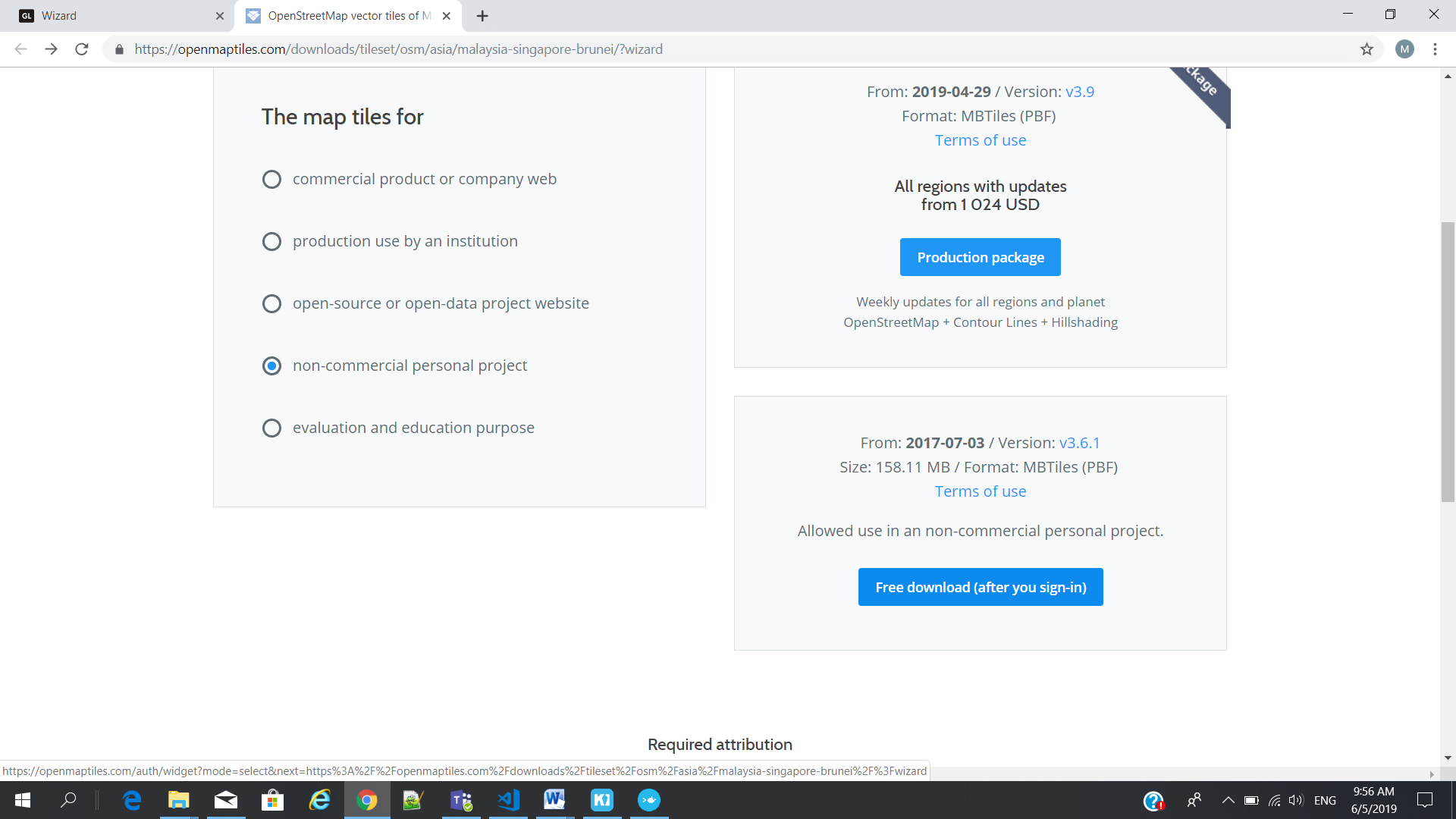


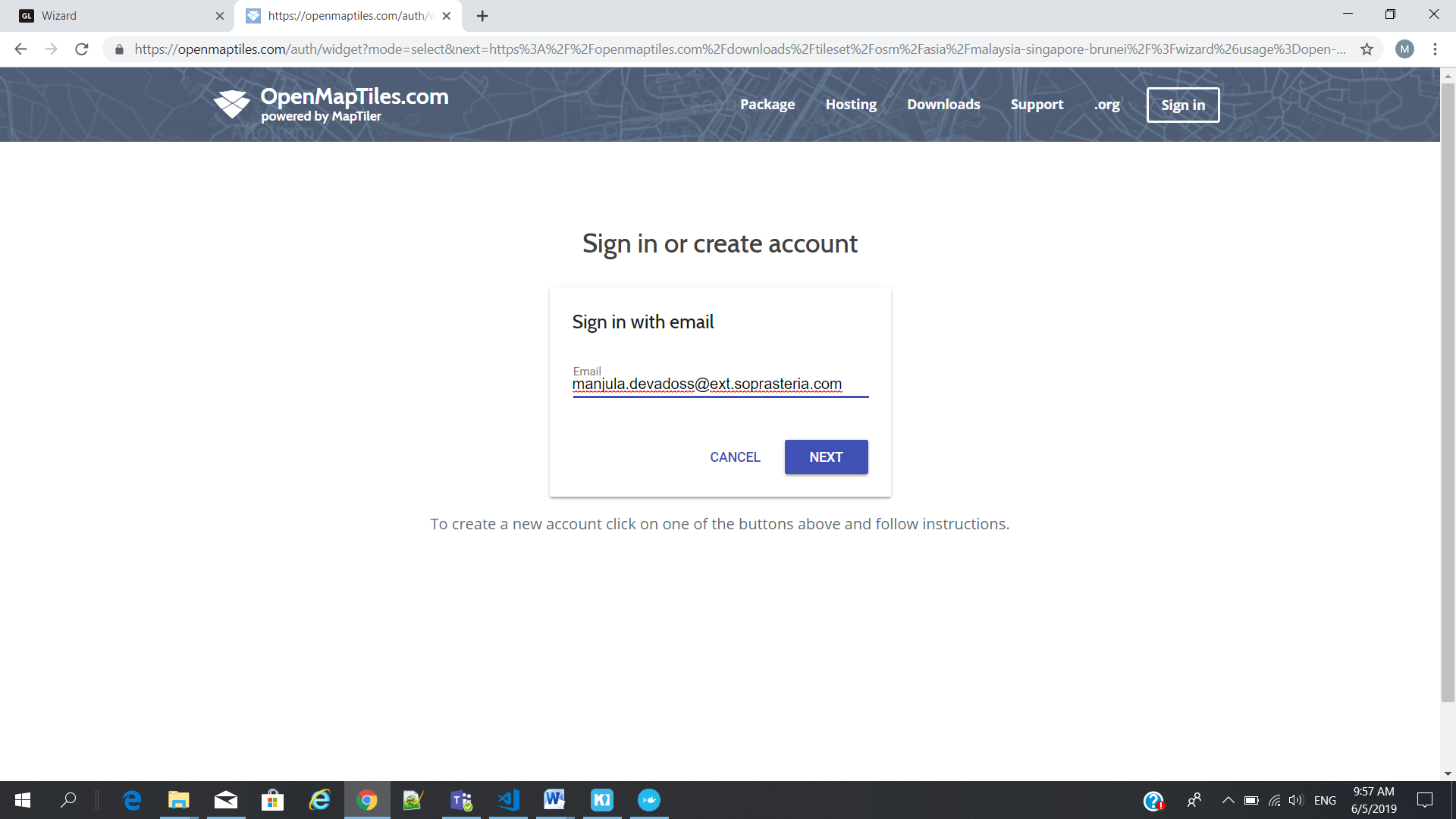












# Postgres Database Creation

## Installation

Username : postgres

Password : postgres

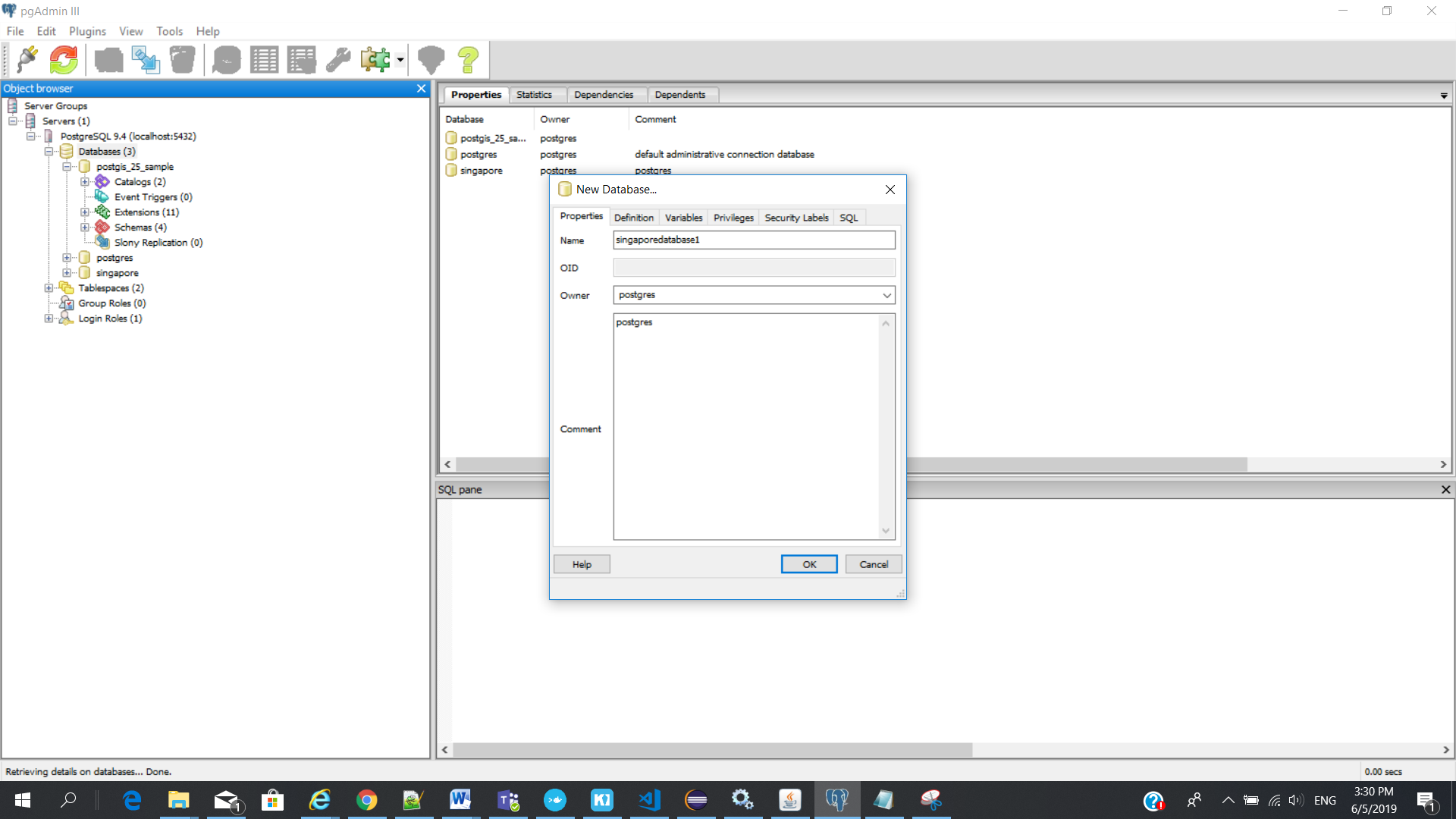
port : 5432

## Open Postgres DB

Pdadmin III – from start menu

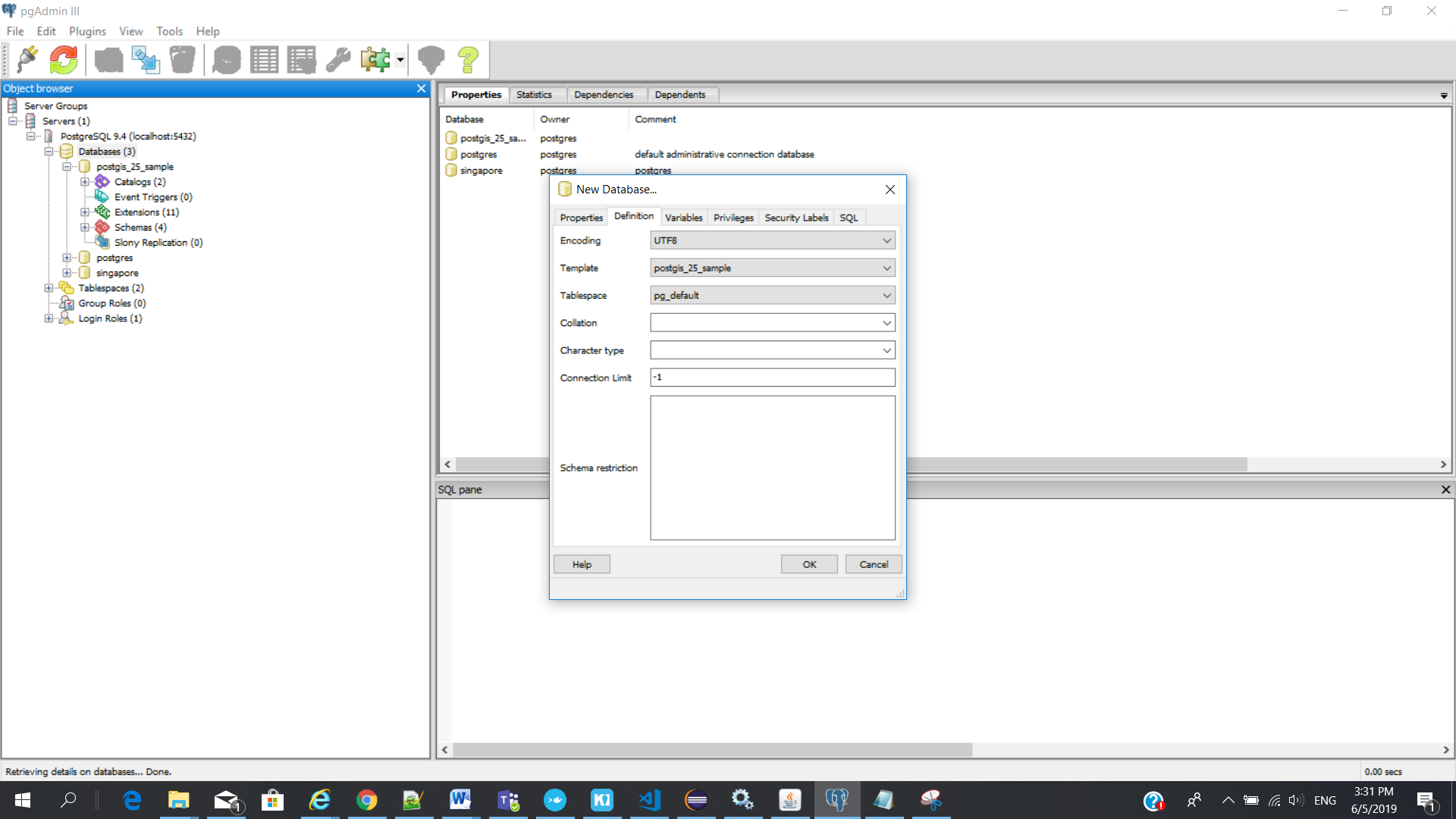
## Create Database

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

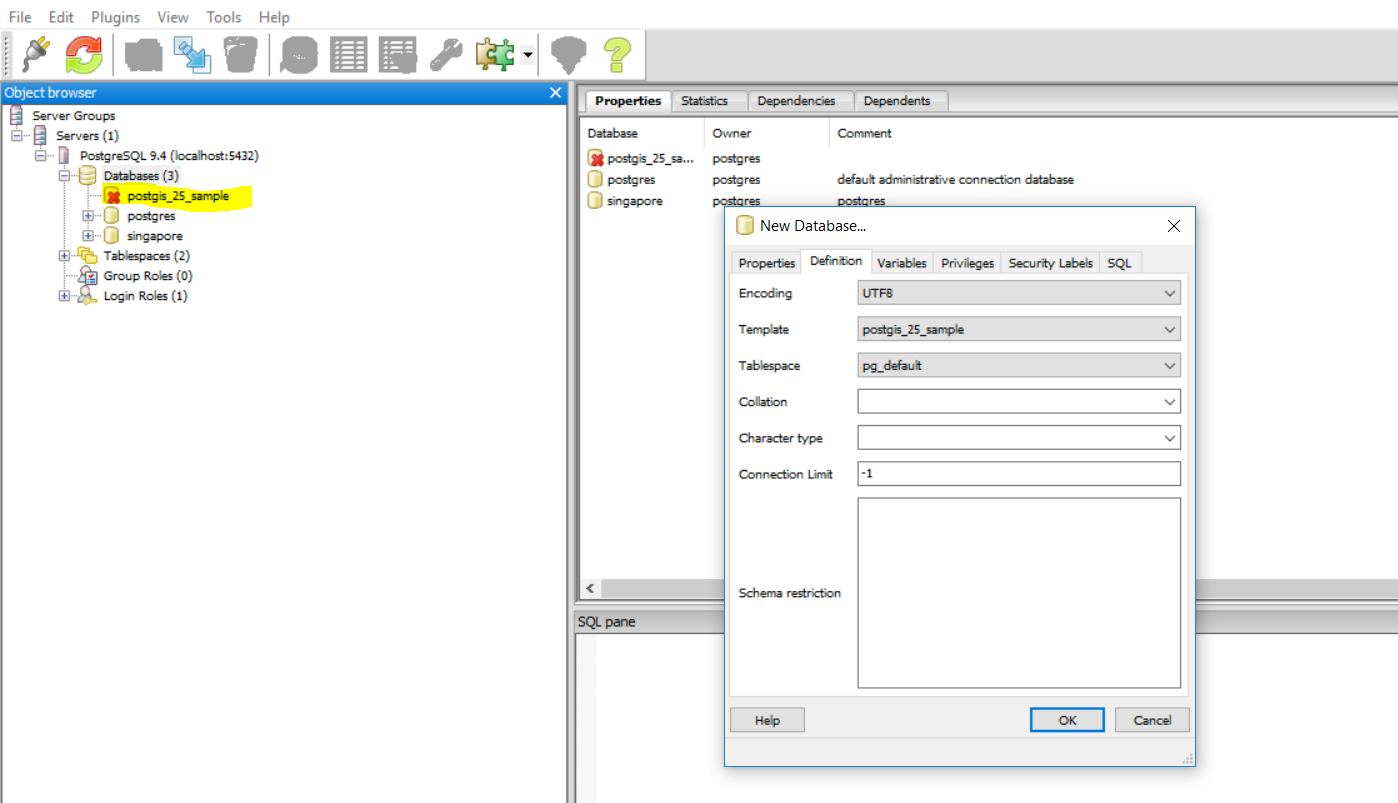


Template as - "postgis\_25\_sample"

Tablespace - pg\_default



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



New database : singaporedatabase1

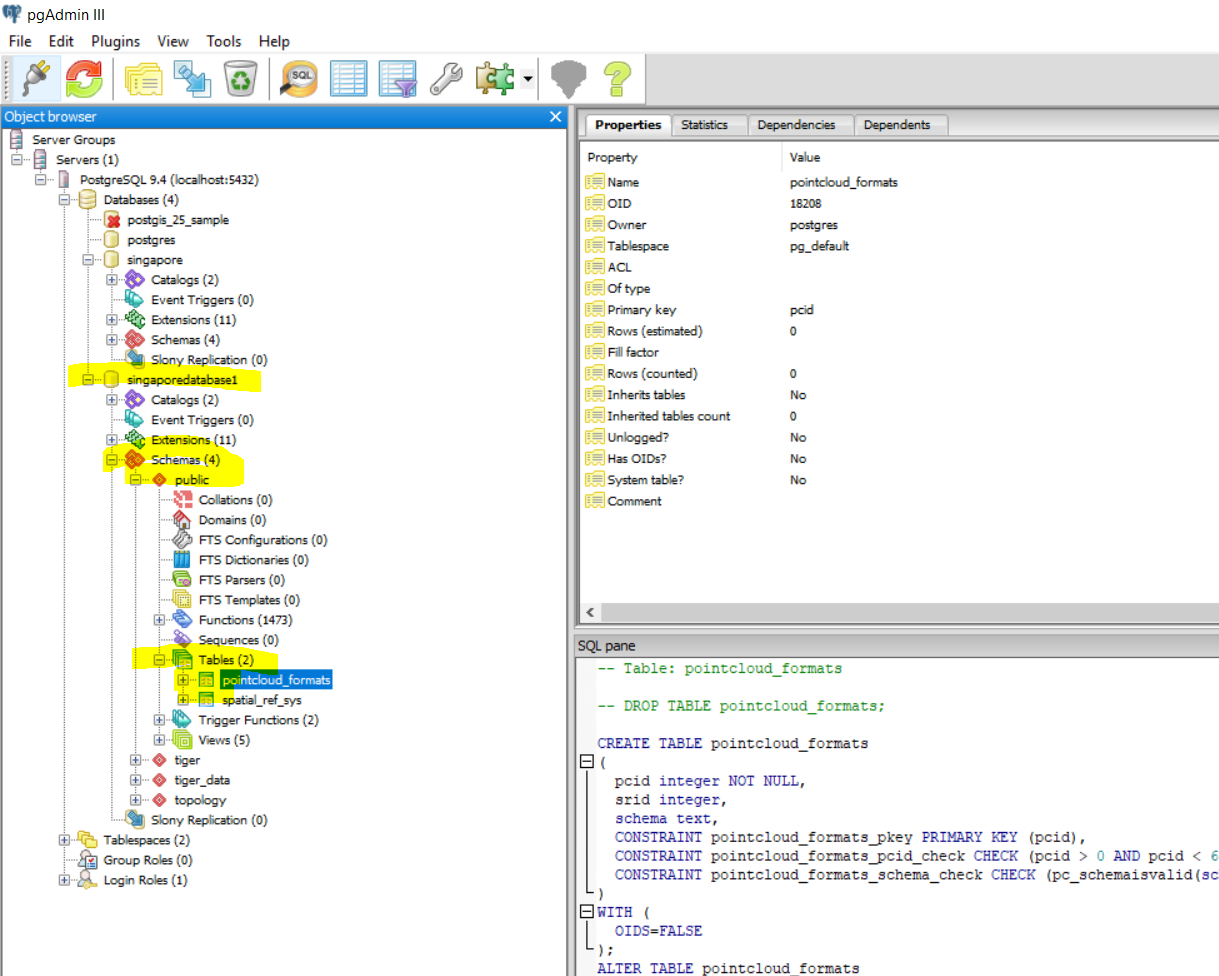
---- Singaporedatabase1

-------- Schemas

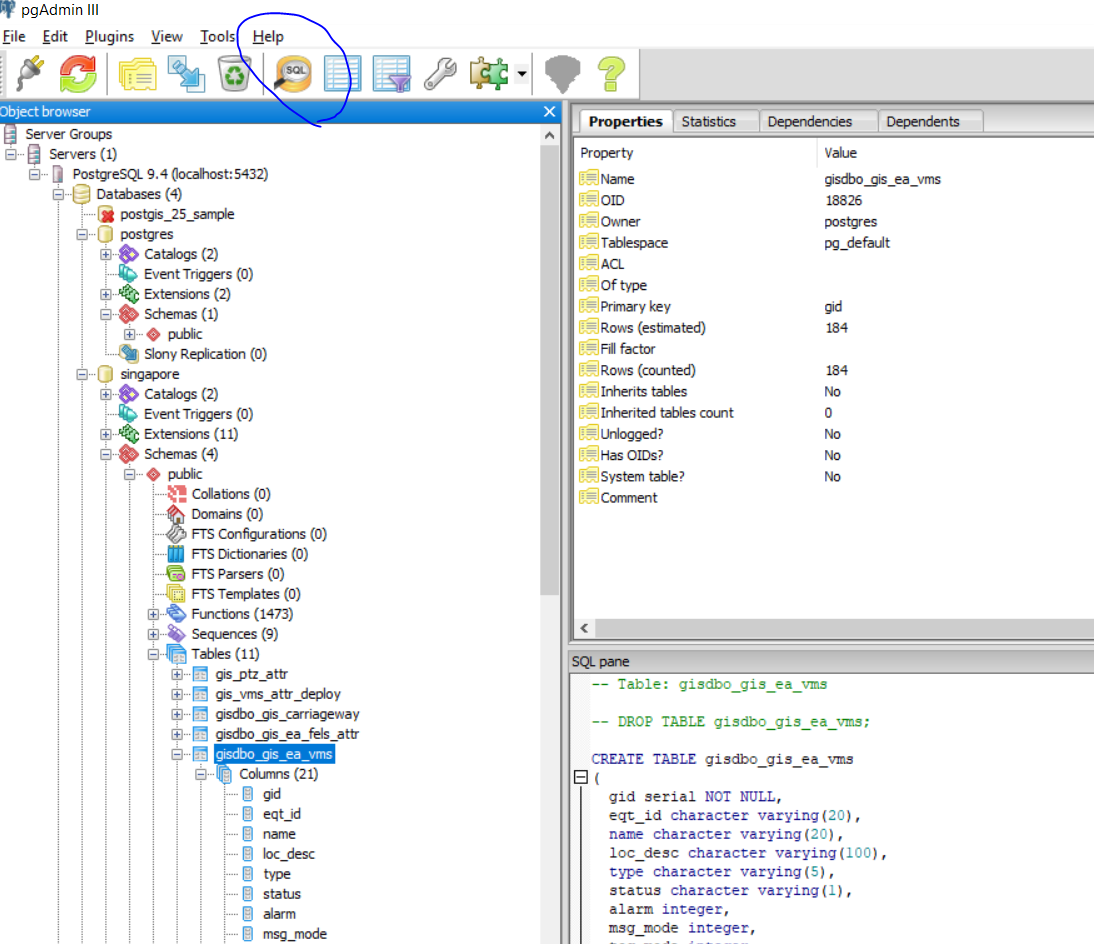
---------- Tables

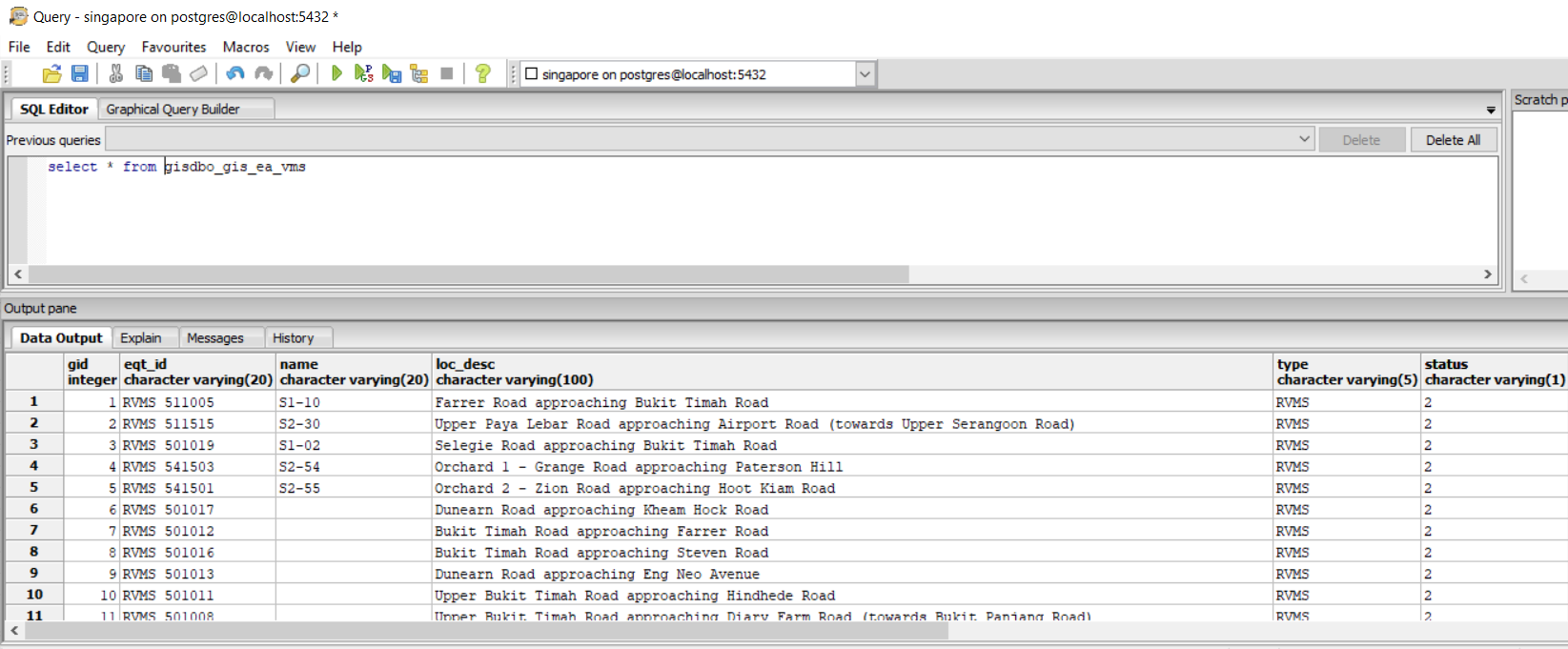
--------- pointcloud\_frmats(table)

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

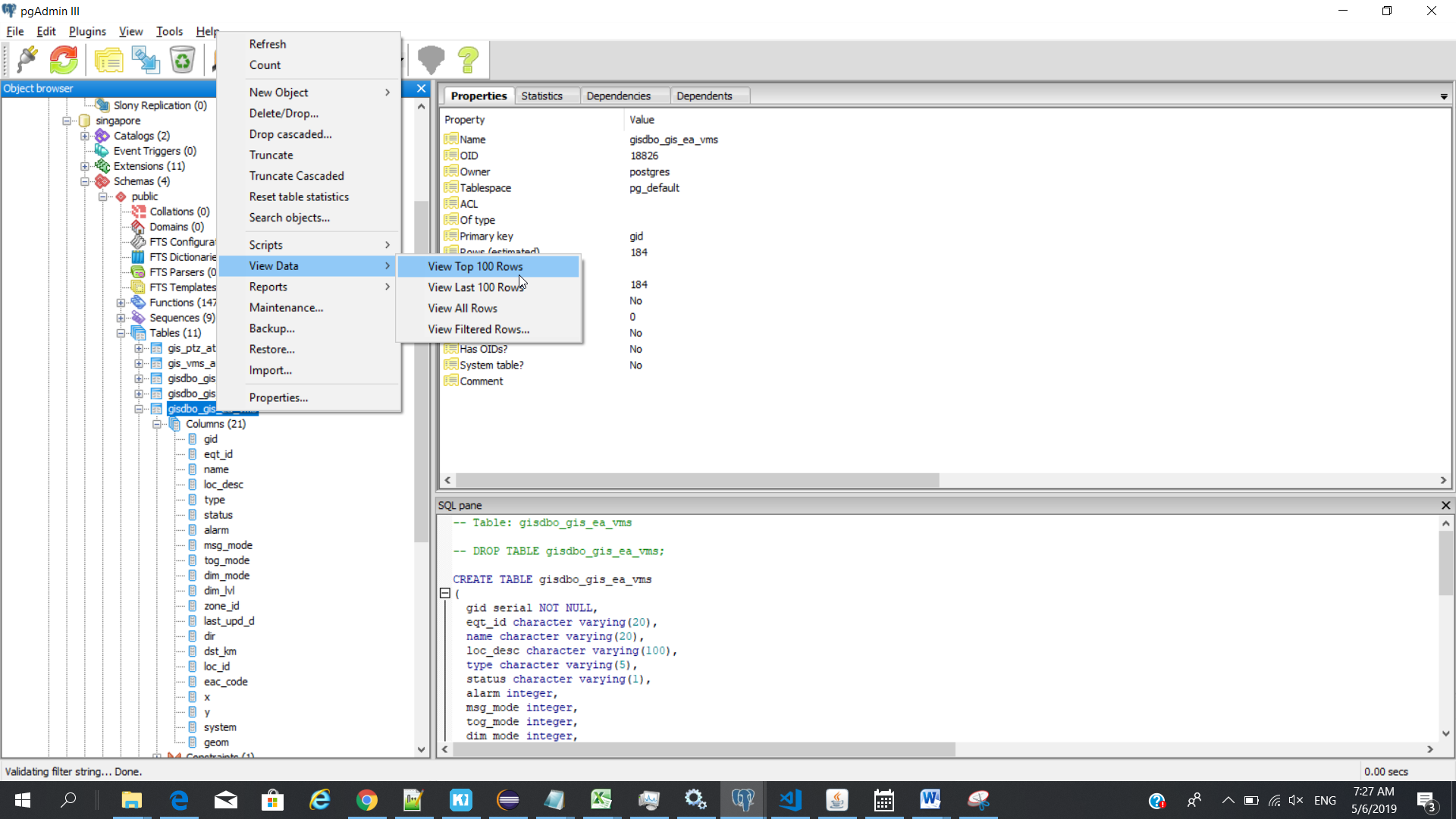


To Run SQL Query use the SQL option





To get the row



# Geoserver and database setup

### Local Folder Location:

C:\Program Files (x86)\GeoServer 2.15.1\data\_dir\workspaces

(Layer and style xml file available in this location)

### Online URL

<http://localhost:8088/geoserver/web/;jsessionid=node0x97hx74vffs713topd1s3g0ry13.node0>

### Installation

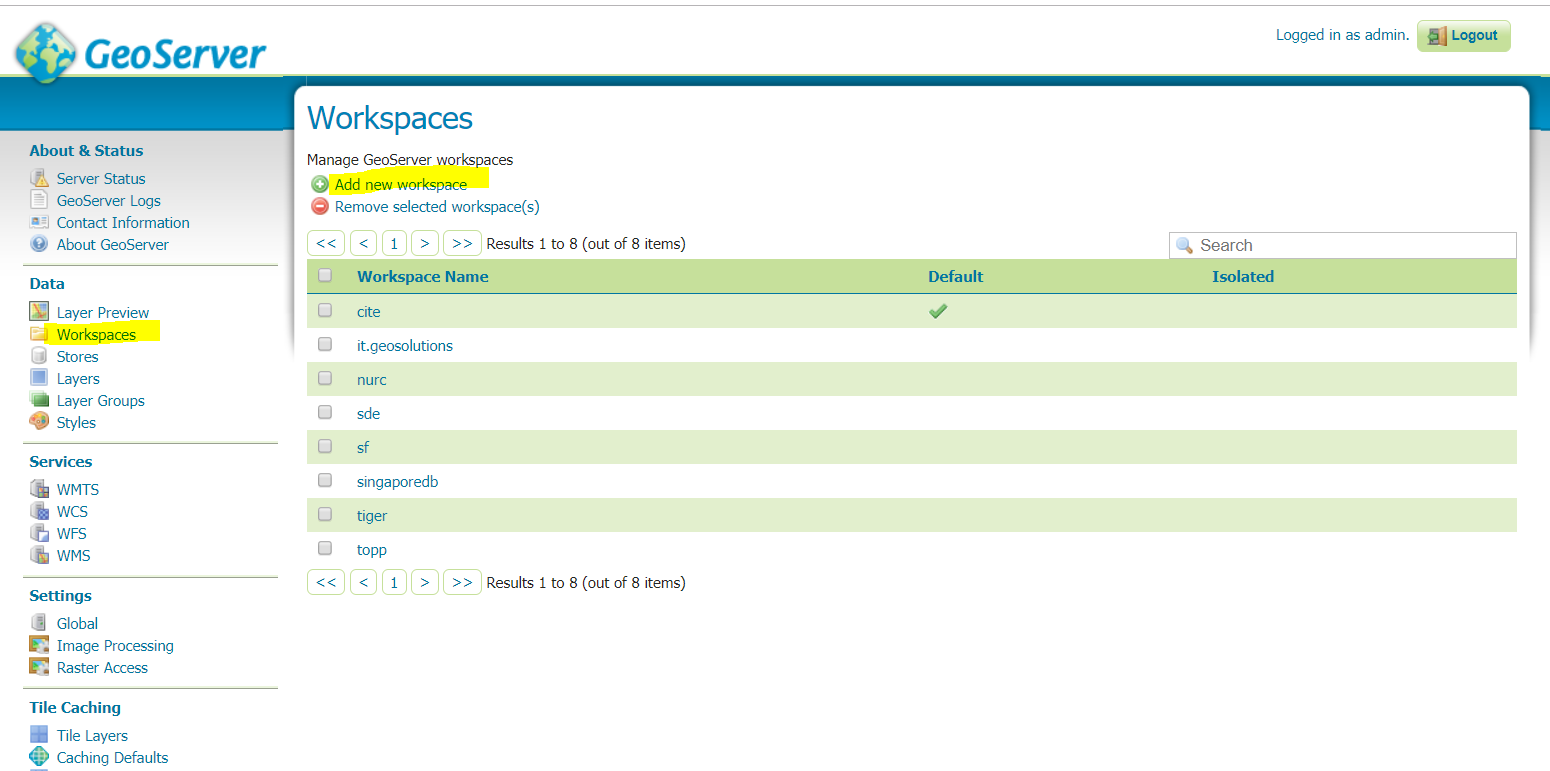
1. Install the server
2. Got service
3. Choose – geo server – start
4. Change port : 8088

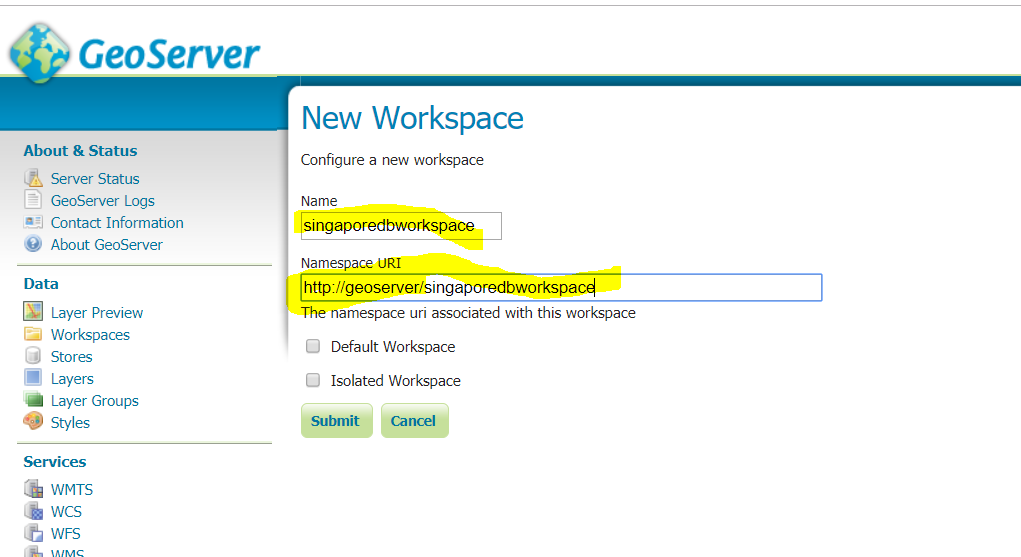
Configure layers in geo server :

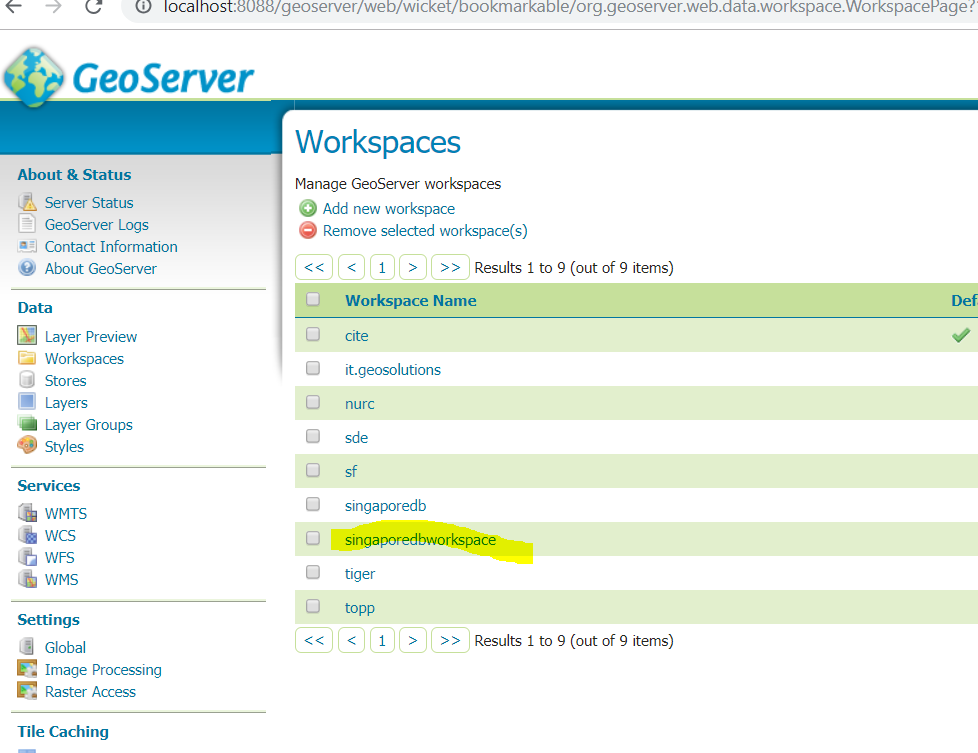
Login to Geoserver ()

Click Workspace

Add new workspace







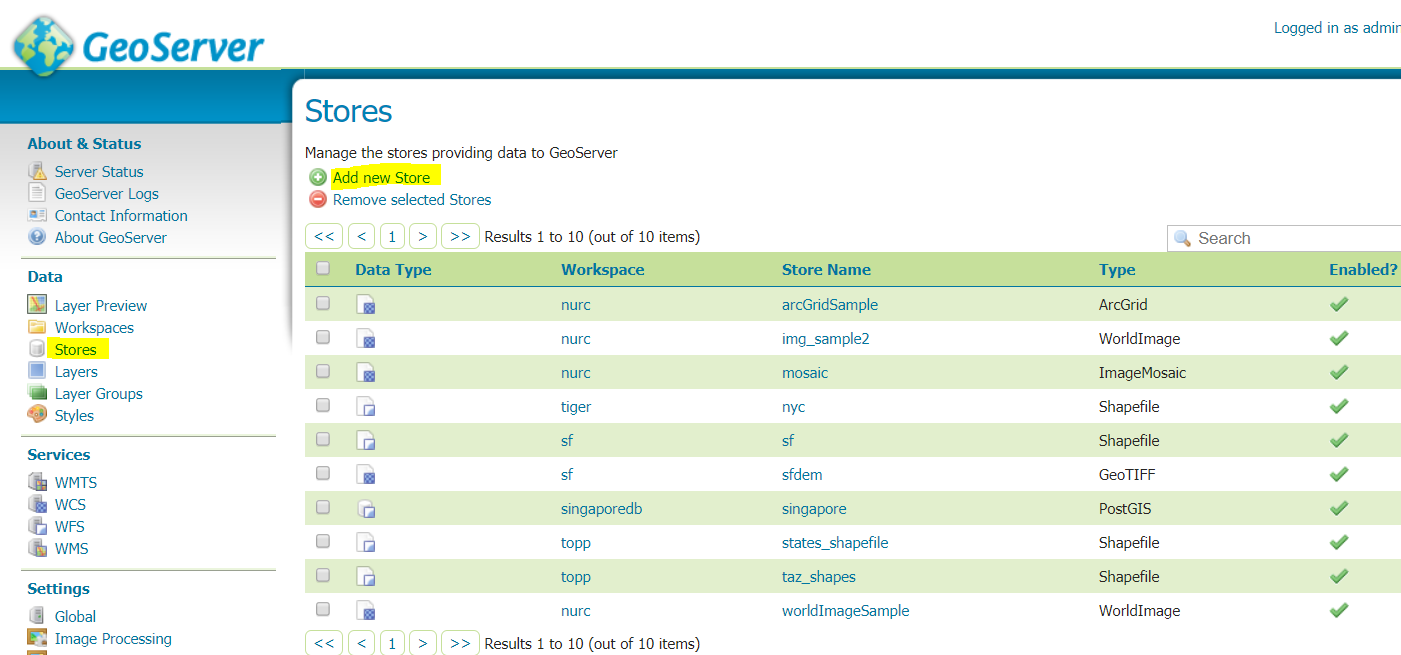
Services :

WMTS – Basemap (openmaptile server)

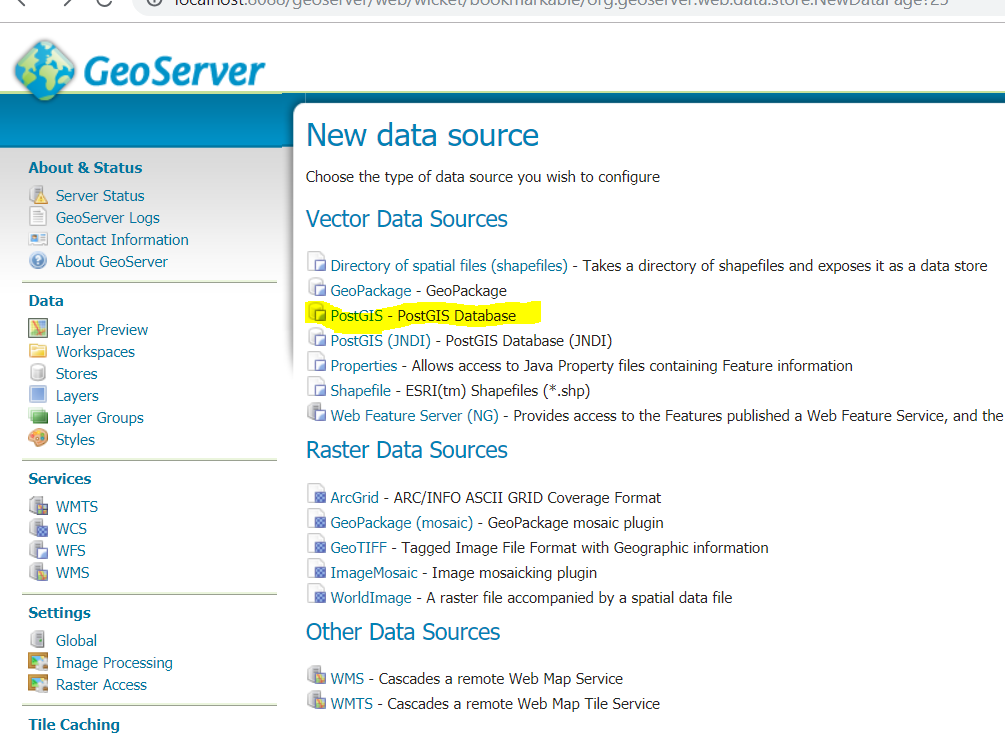
WMS – Additional layer (geoserver)

1. Click stores

Add new store



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



Click stores

Workspace – choose your workspace

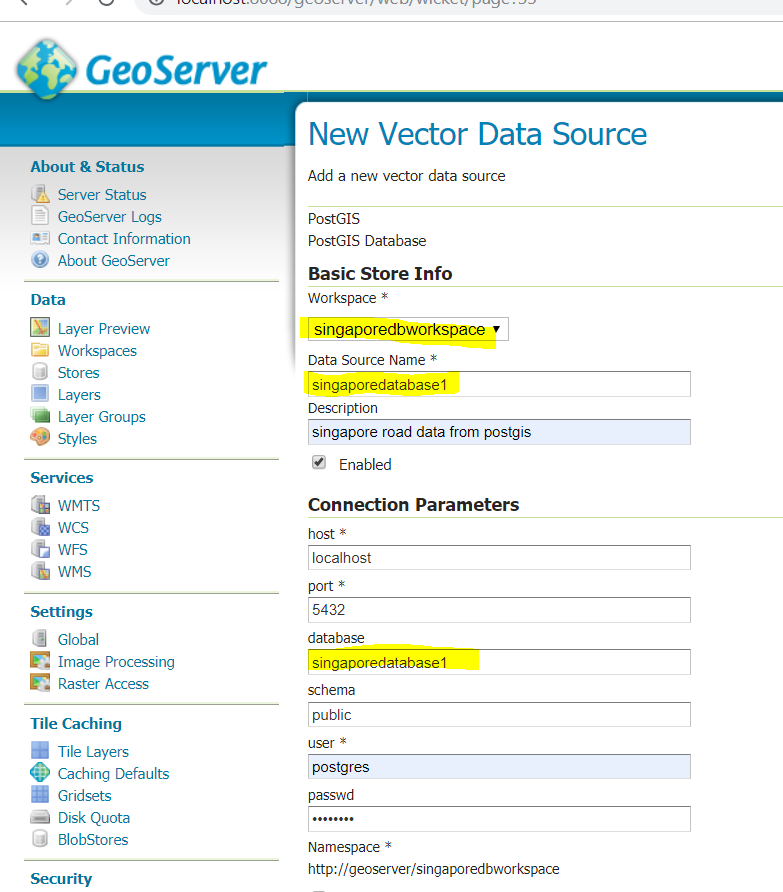
Data Source Name – choose your data base name

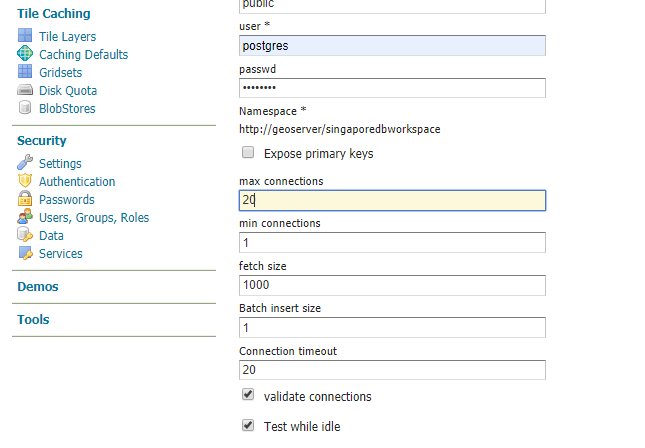
Database – name of your database

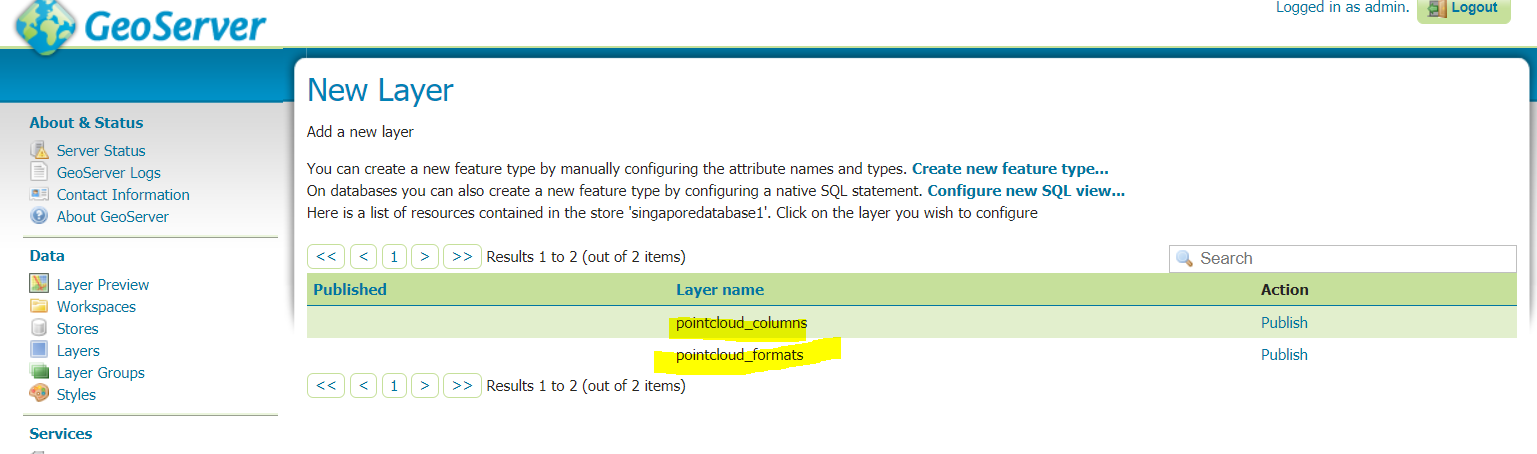
User : postgres

password : postgres

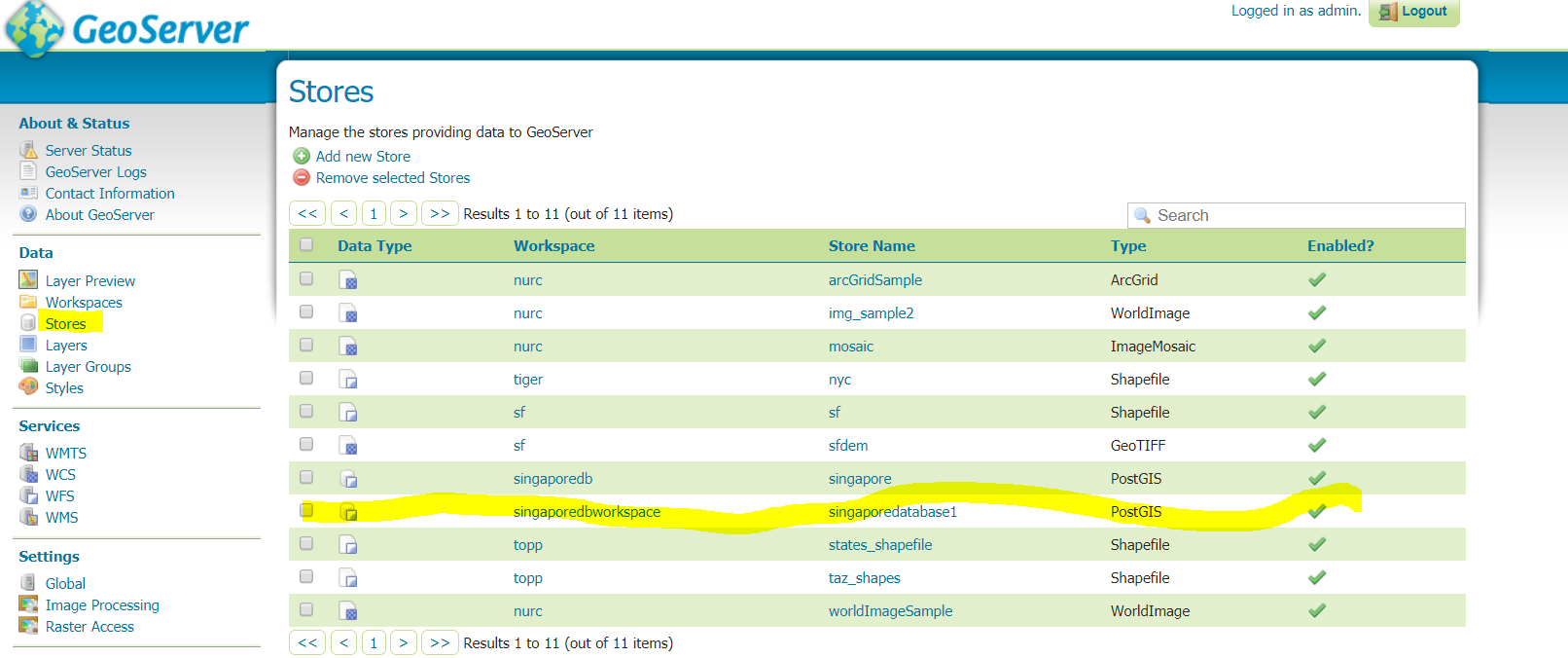
maxconnection : 20





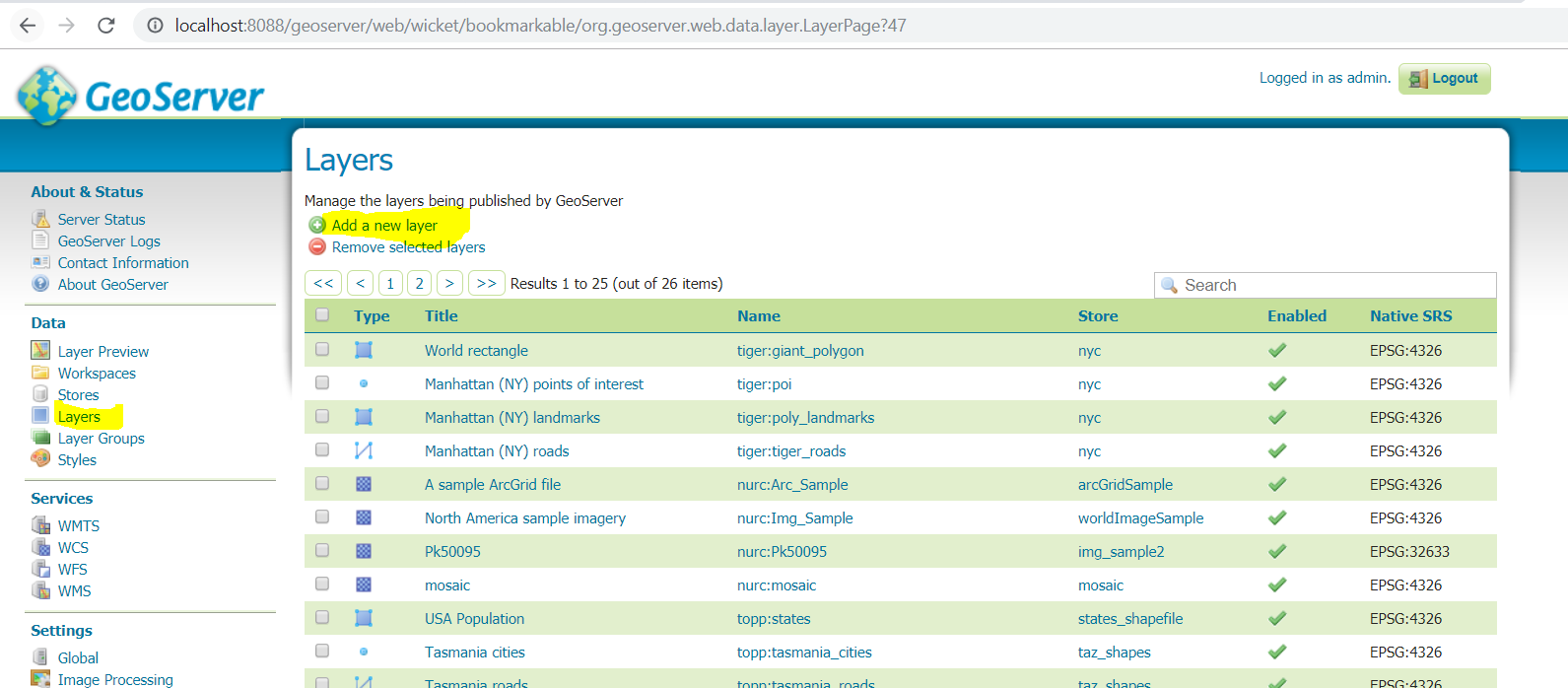


Layer will display : pointcloud\_columns table (check with postgres db)

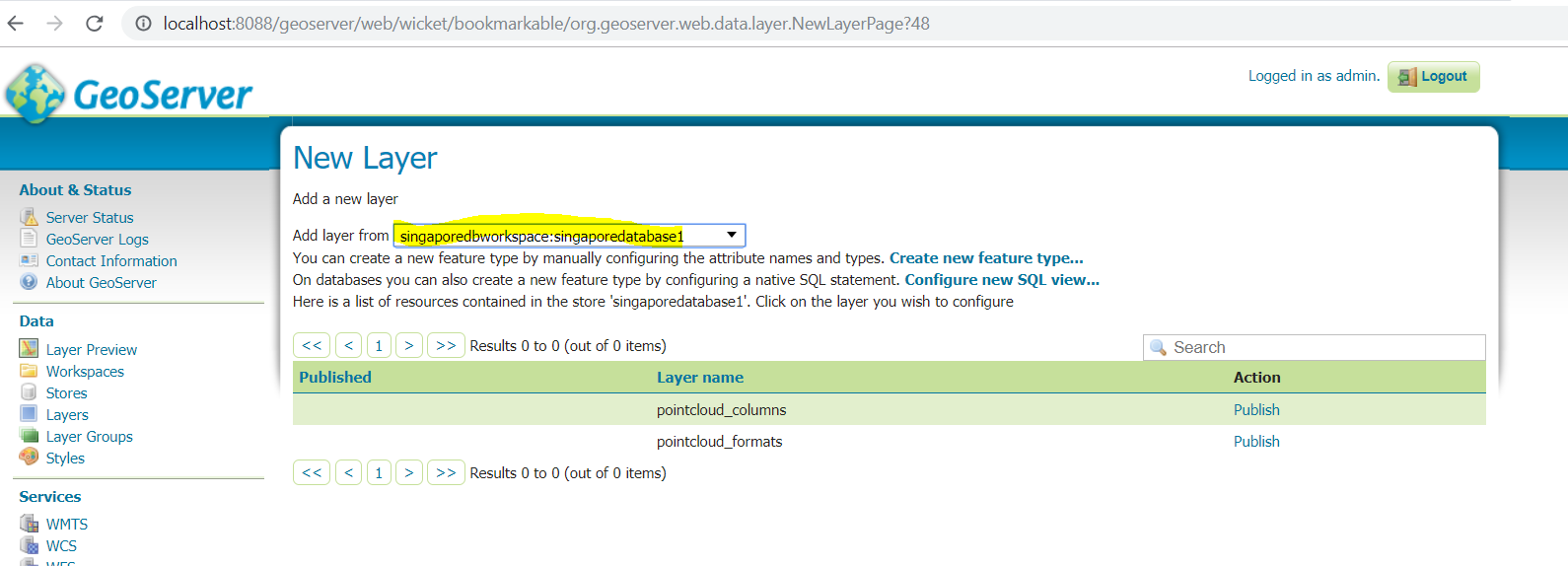


1. Click Layer

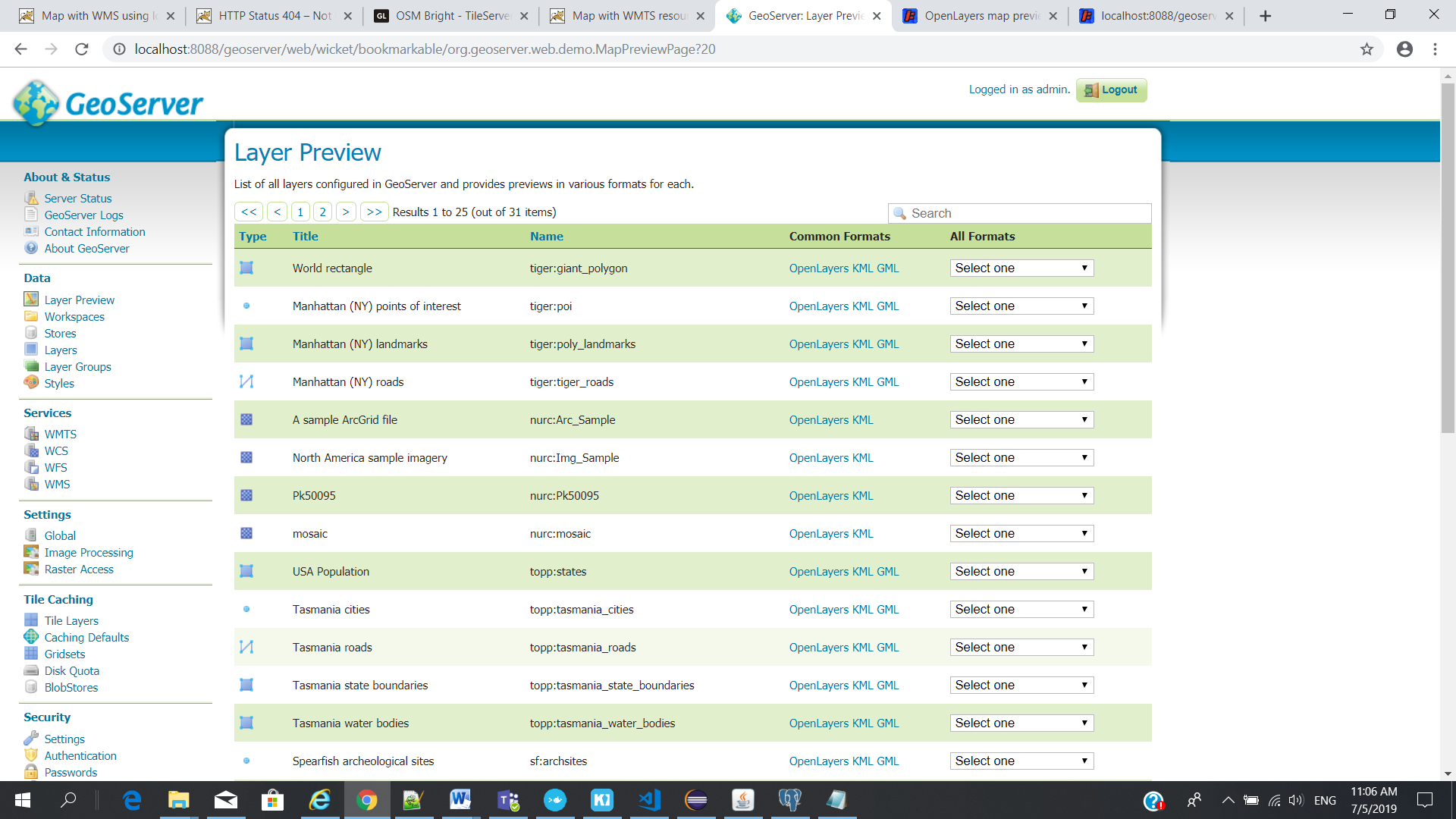
Add a new layer



Choose you workspacename



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



# GeoServer Working Notes

GeoServer

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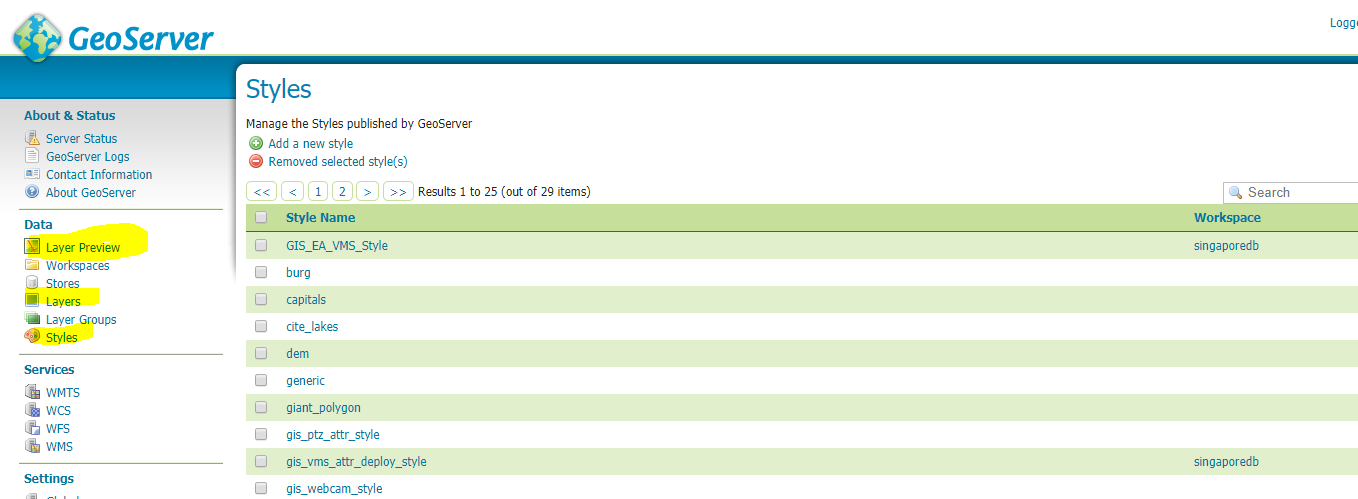
1. "Layer Preview" : see all the layer name, common formats

2. "Layer Preview"-"OpenLayer" - from the particular layer to view the layer display

3. "Layers" - Add a new layer

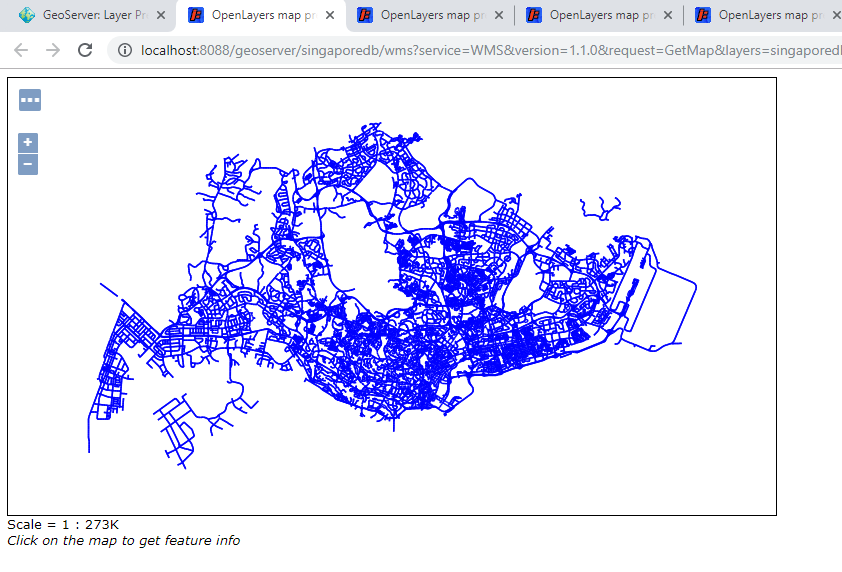
4. "Styles" : Mrt\_Line\_style - to show line

5. "Styles" : Mrt\_station\_style - to show station (image)



To view the layer view





# [ArcGIS API for JavaScript 3.28](https://developers.arcgis.com/javascript/3/)

1. Download ArcGIS arcgis\_js\_v328\_api. Choose the correct version and download
2. Installation html file available inside the zip file. Open and follow the instruction.
3. The ArcGIS API for JavaScript library can be copied in its entirety to your web server directory
4. you will need to edit some files to specify the baseUrl (www.example.com/arcgis\_js\_api/library/3.28/) for the default Dojo configuration.
5. Copy folder Library/3.28/ and paste it into your application main folder
6. Modify your file init.js/dojo.js

Using HTTP

Note: While not recommended, it is possible to host the ArcGIS API for JavaScript library using http. The dojo.js and init.js files would need modification to update https to http.  
Before: baseUrl:"https://www.example.com/arcgis\_js\_api/library/3.28/3.28/dojo"  
After: baseUrl:"http://www.example.com/arcgis\_js\_api/library/3.28/3.28/dojo"

<https://www.example.com/> - local folder location to http://localhost:8080/DemoTrans

Dockers installation

DockerToolbox.exe – Run as administrator mode

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