

Software to be installed before running the .exe file:

1. Qt-creator
2. PostgreSQL
3. GDAL.

Installing Qt Creator:

Install Qt Creator with the **default settings**.

Add "*C:\Qt\Qt5.6.1\Tools\mingw492_32\bin*" and "*C:\Qt\Qt5.6.1\5.6\mingw49_32\bin*" to PATH environment variable.

Then create a new variable named **QT5_ROOT_PATH** and set the value to "*C:\Qt\Qt5.6.1\5.6\mingw49_32\bin*".

Installing PostgreSQL and PostGIS:

Install PostgreSQL 9.3 into the **default path (please try to install it in the default path)**. While installing PostgreSQL, try to keep both **username and password as "postgres" and the port 5432** for convenience. After installing PostgreSQL, install only PostGIS2.2 bundle for your system from Stack Builder.

Add folders "*C:\Program Files\PostgreSQL\9.3\bin*" and "*C:\Program Files\PostgreSQL\9.3\lib*" to PATH environment variable.

Database Manual:

To run Dharohar application with the database, make sure the database server accepts remote connections. To access the database server remotely, the network address of the server must be mentioned in the **pg_hba.conf** file.

One more thing that you need to be sure of is that appropriate PostGIS Bundle for PostgreSQL database should be installed on the machine to make Dharohar work properly.

Create new database:

After creating a new database, run the SQL script "setupDatabase.sql" on the database. To run the script from command line, follow the syntax below.

```
psql -U "username" -d "database_name" -h "host_address" -p "port" < setupDatabase.sql
```

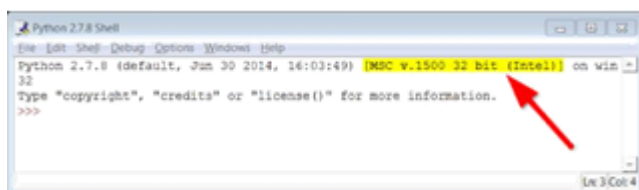
setupDatabase.sql file is attached with this document.

Provide the password of the user on prompt.

GDAL INSTALLATION:

Install the required gdal according to your processor requirements.

Gdal can be download from the website <http://gisinternals.com/>



Note: MSC v.1500 may differ if you are using a different Python installation, if it does then please make a note of that number. Note, if you installed the 64-bit version of Python, for the rest of the tutorial please remove the (x86) from the paths.

we are using the MSC v.1500 on a 32-bit system, the picture below illustrates how to match the version with your own python version. The blue highlight is where you should look for either 64-bit or 32-bit systems, and the green shows the release-1500 number which should match the number from IDLE in step 4 above.

Compiler	Arch.	Downloads	Package Info	Date	Revisions
MSVC 2005	win32	release-1400-gdal-1-11-1-mapserver-6-4-1	information	2015-01-07 13:45:35	44ac087 r27733
MSVC 2005	x64	release-1400-x64-gdal-1-11-1-mapserver-6-4-1	information	2015-01-07 13:43:56	44ac087 r27733
MSVC 2008	win32	release-1500-gdal-1-11-1-mapserver-6-4-1	information	2015-01-07 13:45:04	44ac087 r27733
MSVC 2008	x64	release-1500-x64-gdal-1-11-1-mapserver-6-4-1	information	2015-01-07 13:42:35	44ac087 r27733
MSVC 2010	win32	release-1600-gdal-1-11-1-mapserver-6-4-1	information	2015-01-07 13:44:41	44ac087 r27733
MSVC 2010	x64	release-1600-x64-gdal-1-11-1-mapserver-6-4-1	information	2015-01-07 13:46:02	44ac087 r27733
MSVC 2012*	win32	release-1700-gdal-1-11-1-mapserver-6-4-1	information	2015-01-18 20:19:56	0efde12 r28330
MSVC 2012*	x64	release-1700-x64-gdal-1-11-1-mapserver-6-4-1	information	2015-01-18 20:16:55	0efde12 r28330
MSVC 2013*	win32	release-1800-gdal-1-11-1-mapserver-6-4-1	information	2015-01-18 20:12:11	0efde12 r28330
MSVC 2013*	x64	release-1800-x64-gdal-1-11-1-mapserver-6-4-1	information	2015-01-18 20:08:43	0efde12 r28330

Clicking the link will take you to the list of binaries (installers) to download

Available downloads (release-1500-gdal-1-11-1-mapserver-6-4-1):			
File name	File date	Size	Description
release-1500-gdal-1-11-1-mapserver-6-4-1.zip	2015-01-07 13:45:04	26032 kB	Compiled binaries in a single .zip package
release-1500-gdal-1-11-1-mapserver-6-4-1-src.zip	2015-01-07 13:44:20	15033 kB	GDAL and MapServer sources
release-1500-gdal-1-11-1-mapserver-6-4-1-libs.zip	2015-01-07 13:44:47	15656 kB	Compiled libraries and headers
gdal-111-1500-ecw.msi	2014-12-14 21:15:57	2594 kB	Installer for the GDAL ECW plugin (must be installed to the same directory as the GDAL core)
GDAL-1.11.1.win32-py3.3.msi	2014-12-14 21:15:48	416 kB	Installer for the GDAL python bindings (requires to install the GDAL core)
gdal-111-1500-mrsid.msi	2014-12-14 21:15:59	2641 kB	Installer for the GDAL MrSID plugin (must be installed to the same directory as the GDAL core)
gdal-111-1500-core.msi	2014-12-14 21:15:56	19846 kB	Generic installer for the GDAL core components
mapserver-6.4.1-1500-core.msi	2014-12-14 21:16:07	22314 kB	MapServer installer with IIS registration support
gdal-111-1500-oracle.msi	2014-12-14 21:15:59	912 kB	Installer for the GDAL Oracle plugin (must be installed to the same directory as the GDAL core)
GDAL-1.11.1.win32-py3.2.msi	2014-12-14 21:15:48	432 kB	Installer for the GDAL python bindings (requires to install the GDAL core)
GDAL-1.11.1.win32-py3.1.msi	2014-12-14 21:15:47	432 kB	Installer for the GDAL python bindings (requires to install the GDAL core)
gdal-111-1500-filegdb.msi	2014-12-14 21:15:57	1876 kB	Installer for the GDAL FileGDB plugin (must be installed to the same directory as the GDAL core)
GDAL-1.11.1.win32-py2.7.msi	2014-12-14 21:15:47	432 kB	Installer for the GDAL python bindings (requires to install the GDAL core)

Locate the “core” installer, which has most of the components for GDAL.

Available downloads (release-1500-gdal-1-11-1-mapserver-6-4-1):			
File name	File date	Size	Description
release-1500-gdal-1-11-1-mapserver-6-4-1.zip	2015-01-07 13:45:04	26032 kB	Compiled binaries in a single .zip package
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release-1500-gdal-1-11-1-mapserver-6-4-1-libs.zip	2015-01-07 13:44:47	15656 kB	Compiled libraries and headers
gdal-111-1500-ecw.msi	2014-12-14 21:15:57	2594 kB	Installer for the GDAL ECW plugin (must be installed to the same directory as the GDAL core)
GDAL-1.11.1.win32-py3.3.msi	2014-12-14 21:15:48	416 kB	Installer for the GDAL python bindings (requires to install the GDAL core)
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gdal-111-1500-core.msi	2014-12-14 21:15:56	19846 kB	Generic installer for the GDAL core components
mapserver-6.4.1-1500-core.msi	2014-12-14 21:16:07	22314 kB	MapServer installer with IIS registration support
gdal-111-1500-oracle.msi	2014-12-14 21:15:59	912 kB	Installer for the GDAL Oracle plugin (must be installed to the same directory as the GDAL core)
GDAL-1.11.1.win32-py3.2.msi	2014-12-14 21:15:48	432 kB	Installer for the GDAL python bindings (requires to install the GDAL core)
GDAL-1.11.1.win32-py3.1.msi	2014-12-14 21:15:47	432 kB	Installer for the GDAL python bindings (requires to install the GDAL core)
gdal-111-1500-filegdb.msi	2014-12-14 21:15:57	1876 kB	Installer for the GDAL FileGDB plugin (must be installed to the same directory as the GDAL core)
GDAL-1.11.1.win32-py2.7.msi	2014-12-14 21:15:47	432 kB	Installer for the GDAL python bindings (requires to install the GDAL core)

After downloading your version, install GDAL with standard settings.

Add C:\Program Files\GDAL\gdal-data to PATH environment variable.

Then create a new variable named **GDAL_DATA** and set the value to C:\Program Files\GDAL\gdal-data.

NOTE: Proper installation of postgresql, postgis and gdal is required for saving purpose. Without these softwares saving will not happen.