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Guide to install Augmented Maps on Windows

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Tested install on Windows 7, XP, 32 bit OS Versions of the installers/packages used

ms4w 3.0.1

\* Postgres 9.0.1 \* Python 2.6.2

\* OpenLayers 2.8

\* MapFish 1.1

Setting up machine for deployment: -

1. Install ms4w, picking the exe from Map server downloads page.
\* ms4w is designed to be installed in the root of a drive, like D:\ms4w

\* In windows 7, XP, there are problems with Permissions if we install ms4w in C drive.

2. Installing Apache

- \* Start your MS4W Apache Web Server by running /ms4w/apache-install.bat (at the command line or by double-clicking it). This file installs Apache as a Windows service (called "Apache Web Server") so that it starts whenever your machine is restarted
- \* To test that Apache is running properly, open your Web browser and find

- your local host Web service by entering http://localhost/
  \*\*NOTE for Win95, 98, ME users: \*\*

  \* You will not be able to install Apache as a service, so instead you will have to manually start Apache each time, by clicking on /ms4w/Apache/bin/httpd.exe. An empty DOS window will open, which means Apache is running. To stop Apache you will have to close this empty DOS window.

  \*\* Notes for Microsoft Vista \*\*
- \* In order to run the apache-install bat file, you must do the following:

  1. In Windows Explorer, goto the location of your cmd. exe file (C: /Wi ndows/System32)
- Right-click the cmd.exe executable and choose `Run as Administrator` 3. Navigate to your ms4w folder in the command prompt window and run apache-install.bat

- 3. MapScript configuration
   \* Unpack ``/ms4w/Apache/cgi -bi n/mapscript/python/mapscript\*wi n32. zi p`` in a safe location
- \* In the directory structure that results from the above step, navigate to ``\Python-2. 6. 2\Li b\si te-packages`

\* You should find three files there:

\* \_mapscri pt. pyd \* mapscri pt. py

\* mapscript.pyc \* Copy the three files into the site-packages directory of your Python 2.6.x installation (eg., ``C:\Python26\Lib\site-packages``)

\* Add ``<drive\_letter>:\ms4w\Apache\cgi-bin`` to your system's PYTHONPATH

environment variable.

- 4. Postgres installer can be downloaded from the Postgres site.
  \* In windows 7, XP, there are problems with Permissions/UAC if we install ms4w in C drive.
- \* Installing to some other drive easier, though by removing the permissions issue, one can install Postgres in C drive as well

Install Postgres with default options

\* After the installation of Postgres, a wizard will be launched to choose the packages on top of Postgres. Choose Postgis.

\* We need to speifically give permissions to use geometry\_column,

spatial\_ref\_sys columns

\* Open psql command prompt and grant all users permissions to insert, update geometry\_column, spatial\_ref\_sys columns

\* \C template\_postgis
\* GRANT ALL ON geometry\_columns TO PUBLIC;
\* GRANT ALL ON spatial\_ref\_sys TO PUBLIC;

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5. Configuration changes in Apache, Php, Postgres
* Enable mod_rewrite in Apache, configuration file is located at
ms4w//Apache/conf/httpd.conf
            * We need to uncomment the statement to load module mod_rewrite
* Enable php_pgsql.dll, php_pdo_pgsql.dll in php.ini, located at ms4w/Apache/cgi-bin/php.ini

* We need to uncomment the statements to Load these modules
7. Install Openlayers
     * Download the zip of latest release of OpenLayers from the website
* Unzip it in ms4w/Apache/htdocs/ or Keep it in a different location and add
this configuration in httpd.conf
                  Alias /openlayers "<path to OpenLayers directory>"
<Directory "<path to OpenLayers directory>">
                                      AĬlowÖverride Äll
                                      Options Indexes FollowSymLinks Multiviews
                                     Order allow, deny
                                     Allow from all
                   </Di rectory>
     * To confirm OpenLayers is installed open browser on server and go to
http://localhost/openlayers/. The contents of the OpenLayers directory should be
di spl ayed
8. Install MapFish
       Download MapFish 1.1 from the website
* Unzip it in ms4w/Apache/htdocs/ or Keep it in a different location and add this configuration in httpd.conf

Alias /MapFish "<path to MapFish directory>"

<Directory "<path to MapFish directory>">

AllowOverride All

AllowOverride All

AllowOverride Al
                                     Options Indexes FollowSymLinks Multiviews
                                     Order allow, deny
                                     Allow from all
     http://localhost/MapFish/. The contents of the MapFish directory should be
di spl ayed
AllowOverride None
                                     Options +ExecCGI +Indexes
Order allow, deny
                                     Allow from all
                   </Di rectory>
11. Add projection for Google Maps to projection file.
              Append the following line to ms4w\proj\nad\epsg
              #added for google
 <900913> + \text{proj} = \text{merc} + \text{a} = 6378137 + \text{b} = 6378137 + \text{lat\_ts} = 0.0 + \text{lon\_0} = 0.0 + \text{x\_0} = 0.0 + \text{y\_0} = 0.0 + \text{k=1.0} + \text{units} = \text{m} + \text{nadgrids} = \text{mull} + \text{no\_defs} <> 
* After making changes in the configuration files of Apache or php, to see the
impacts, we need to restart the Apache web server.
Deployment, checking out source from GIT:
1. Checkout code from GIT repository
  * Inorder to checkout code from GIT, install a GIT client
          * Command to run in GIT client
                   git clone git@github.com: strandls/augmentedmaps.git
2. Configuration
           Inside the augmentedmaps directory, Open the 'Makefile' in a text editor
and change the following parameters:

SOURCE_PATH = location of downloaded augmentedmaps directory

DEPLOY_PATH = location where to install augmented maps

BACKUP_PATH = location where backup of the old installation will be made
                   DB_USERNAME = database user name
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DB\_PASSWORD = database password DATABASE\_NAME = database name

\* Save the 'Makefile' after making the changes. Use '\\' as path seperator. 3. Install.

Make sure that make utility is available for command prompt

\* After making the apropriate configuration changes as specified above. Run the following commands from command prompt.
\* To make backup of older installation.

make backup

- \* This will create backup of existing installation in the BACKUP\_PATH specified in the 'Makefile'
- To setup and populate database for Augumented Maps. This should not be required if the database is already setup for Augmented Maps.

\* make setupdb

\* To deploy the files,

\* make deploy

\* Current configuration in Makefile tries to set the Permissions, assuming Linux machine

\* Either those command can be modified in the Make file, before running make deploy, or Permissions can be set explicitly

After all the troops have been deployed successfully, generate maps.

make generate\_maps

\* This will generate map files and place them in MAP\_DATA directory (specified in Makefile)

4. Modifying Google maps API key

\* Get google Maps API key from google, depending on the website. For local host, register for http://local host

\* Get the key and replace the existing key in includemap.js
\* Instances of the URL of the website also needs to be replaced in includemap.js

5. Allow overriding by configuring in apache.

\* Adding the following lines in httpd.conf, enables .htaccess to override the configurations specified in Apache configuration. <Directory "D: \ms4w\Apache\htdocs\augmentedmaps">

AllowÖverride All

Options Indexes FollowSymLinks Multiviews

Order allow, deny

Allow from all

</Di rectory>

- 6. Edit the .htaccess file inside the deployed folder
  - Edit the .htaccess, uncomment and change the following line # RewriteBase /

To

RewriteBase /augmentedmaps

- \* This allows access to the pages stored in database.
- 7. Path Changes for windows

Open <deployment directory>/sites/all/modules/map/map.js

\* Path's specified in map.js file should be modified to use \\ as path seperator,

Mapserver URL needs to be modified to mapserver.exe.

8. Ensure that the db\_url in sites/default/settings.php is pointing to the right database.