

Apache + PHP + PostgreSQL + PostGIS

BitNami WAPPStack Windows Installation & Configuration (1/27/11)

1. Download BitNami WAPPStack: <http://bitnami.org/stack/wappstack>
 - WAPPStack 1.2-4 download link: <http://bitnami.org/files/stacks/wappstack/1.2-4/bitnami-wappstack-1.2-4-windows-installer.exe>
 - Note: WAPPStack 1.2-4 ships with the following components:
 - Apache 2.2.17
 - PostgreSQL 9.0.1
 - PHP 5.2.15
 - PHPPgAdmin 5.0.1
2. Install BitNami WAPPStack
 - Accept default install settings
 - C:\Program Files\BitNami WAPPStack
 - Apache defaults to port 80
 - PostgreSQL defaults to port 54321
 - Pick a password for the “postgres” user and write it down
 - When the install is complete, chose to start using the BitNami WAPPStack
3. Install BitNami WAPPStack as a service
 - Click Start > All Programs > BitNami WAPPStack > BitNami WAPPStack Service > Install BitNami WAPPStack Service
 - Verify services by clicking Start > Right click on Computer > Manage > Services and Applications > Services
 - wappstackApache (Started)
 - wappstackPostgreSQL (Started)
4. Download PostGIS for Windows: <http://postgis.refractorions.net/download/windows/>
 - PostGIS 1.5.2 release for PostgreSQL 9.0 download link:
<http://postgis.refractorions.net/download/windows/pg90/postgis-pg90-setup-1.5.2-3.exe>
 - Note: The version of PostGIS must be compatible with the version of PostgreSQL installed with WAPPStack

- Change install directory to match WAPPStack PostgreSQL install directory:
C:\Program Files\BitNami WAPPStack\postgresql
- When prompted, enter the password you wrote down when installing the BitNami WAPPStack
- Accept defaults and when prompted to enable the shp2pgsql loader in PgAdmin III, chose Yes.
- Verify the “postgis” database has been successfully created by pointing your browser to <http://127.0.0.1/phppgadmin>
 - Login with the username ‘administrator’ and the password you wrote down earlier
 - Click on the PostgreSQL server in the upper left of the screen
 - Login with the username ‘postgres’ and the password you wrote down earlier
 - There should be 2 databases installed: ‘postgis’ and ‘postgres’
 - Expand the ‘postgis’ database and look under Functions- there should be many new PostGIS functions listed

5. **(OPTIONAL)** Modify the default PostgreSQL configuration settings to allow outside IP's to access the databases on your server

- C:\Program Files\BitNami WAPPStack\postgresql\data\postgresql.conf
 - Add the line: *listen_addresses = '*'*
 - #listen_addresses = 'localhost' should be commented out- leave it alone
- C:\Program Files\BitNami WAPPStack\postgresql\data\pg_hba.conf
 - Add the line: *host all all 0.0.0.0 0.0.0.0 md5*
- Restart the PostgreSQL windows service to accept changes
 - Start > Computer (right click) > Manage > Services and Applications > Services
 - Restart the wappstackPostgreSQL service

6. **(OPTIONAL)** Modify the default phpPgAdmin configuration settings to allow outside IP's to access it

- C:\Program Files\BitNami WAPPStack\apps\phppgadmin\conf
 - Change *Allow from 127.0.0.1* to *Allow from all*
 - Restart the Apache windows service to accept changes
 - Start > Computer (right click) > Manage > Services and Applications > Services
Restart the wappstackApache service