

WMS
How To

Web Map Service

Publish your own Web Mapping Services without ArcGIS Server

AGOL from all Angles April 8, 2015

Ryan Miller - GIS Analyst/Programmer
ryan.miller@ameri-title.com



WMS
How To

Overview

Web Map Service (WMS) is an OGC OpenGIS® standard for delivering georeferenced map images from GIS database(s) via a http request.

A WMS GetMap request defines the geographic layer(s) and area of interest to be processed.

Related OGC Standards

WFS – Web Feature Service

WMTS – Web Map Tile Service

WCS – Web Coverage Service

WMS
How To

Setup Options

Minimal

Server OS – Linux, Windows, OSX

Web Server – Apache, IIS

WMS/GIS Server – MapServer, GeoServer, QGIS Server

GIS Data – 100's of raster or vector inputs

Time – To configure of all the above

Additional

Database – PostgreSQL/PostGIS

GIS Services – MapServer Suite: MapCache, TinyOWS

My Recommendations

Ubuntu – Apache – PHP – MapServer – GDAL & OGR - PostgreSQL



WMS
How To

Resources

<http://www.opengeospatial.org/standards/wms>

<http://mapserver.org/>

<http://httpd.apache.org/>

<http://www.gdal.org/>

<http://www.ubuntu.com/>

WMS
How To

MapServer Demo

The Map File

Points – Labels and Point Clusters

Lines – PostGIS Database

Polygons – Shapefiles using Tile Index

View the WMS in a browser using OpenLayers and ArcGIS Online