



Geoserver configuration and installation



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Geoserver configuration and installation

Geoserver installation for its use with Pandora FMS

This documentation has been tested with GeoServer version 2.13.0.

This guide is designed to provide a minimal test environment. To set up a production environment, review the [GeoServer documentation](#).

Start

GeoServer is an application written in Java, so a JRE v8 is required to run it. It can also be launched using a Java application server such as Tomcat.

Run `./bin/startup.sh` in the root of the GeoServer directory.

After starting the server, you will be able to access the web console configuration from <http://localhost:8080/geoserver> with the admin user and the password geoserver.

Adding your own maps

In the welcome screen, there are 3 options that will be necessary to add your own maps:

- Adding workspaces
- Adding stores
- Adding layers

Adding a workspace

Here it is necessary only to enter a name (with no spaces) under which the work stores and layers are to be found later. In the URI field, anything can be entered.

New Workspace

Configure a new workspace

Name

Namespace URI

The namespace uri associated with this workspace

Default Workspace

Isolated Workspace

Adding stores

First, choose the type of data, which will depend on the file to be used. Depending on the type, more options may appear, but the most basic is to choose the previously created workspace, assign a name to this store, and add the file path.

New Vector Data Source

Add a new vector data source

Shapefile

ESRI(tm) Shapefiles (*.shp)

Basic Store Info

Workspace *

My-custom-map ▾

Data Source Name *

Sample map

Description

Sample Europe map

Enabled

Connection Parameters

Shapefile location *

file:data/example.extension

[Browse...](#)

DBF charset

ISO-8859-1 ▾

Create spatial index if missing/outdated

Use memory mapped buffers (Disable on Windows)

Cache and reuse memory maps (Requires 'Use Memory mapped buffers' to be enabled)

Save

Cancel

Adding layers

Once the store is created, a layer must be published to expose the file through the service. After selecting the store previously created, access a form with information about the layer. The first step is to enter the name of the layer. Next, enter the coordinate reference system, which varies depending on the file you wish to publish. Finally, the layer frame must be added. The values of the frame can be retrieved from the used file (Compute from data) or from the chosen coordinate reference system (Compute from SRS bounds).

Coordinate Reference Systems

Native SRS

GCS_WGS_1984...

Declared SRS

EPSG:WGS 84...

SRS handling

Bounding Boxes

Native Bounding Box

Min X

Min Y

Max X

Max Y

[Compute from data](#)
[Compute from SRS bounds](#)

Lat/Lon Bounding Box

Min X

Min Y

Max X

Max Y

[Compute from native bounds](#)

After adding the layer successfully, [create a connection](#) in the Pandora FMS GIS maps. To that end, use the identifier of the new added layer.

Layers

Manage the layers being published by GeoServer

Results 1 to 22 (out of 22 items)

<input type="checkbox"/>	Type	Title	Name	Store	Enabled	Native SRS
<input type="checkbox"/>		Europe	My-custom-map:Europe map	Sample map	✓	EPSG:4326
<input type="checkbox"/>		World rectangle	tiger:giant_polygon	nyc	✓	EPSG:4326
<input type="checkbox"/>		Manhattan (NY) points of interest	tiger:poi	nyc	✓	EPSG:4326
<input type="checkbox"/>		Manhattan (NY) landmarks	tiger:poly_landmarks	nyc	✓	EPSG:4326
<input type="checkbox"/>		Manhattan (NY) roads	tiger:tiger_roads	nyc	✓	EPSG:4326
<input type="checkbox"/>		A sample ArcGrid file	nurc:Arc_Sample	arcGridSample	✓	EPSG:4326
<input type="checkbox"/>		North America sample imagery	nurc:Img_Sample	worldImageSample	✓	EPSG:4326
<input type="checkbox"/>		Pk50095	nurc:Pk50095	img_sample2	✓	EPSG:32633

To add new map files, repeat the same steps from data store and adding new layer.

[Go back to Pandora FMS documentation index](#)