

# Geoserver configuration and installation

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## 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Create spatial index if missing/outdated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

EPSG:4326 GCS\_WGS\_1984...

Declared SRS

EPSG:4326 Find... EPSG:WGS 84...

SRS handling

Force declared ▼

## Bounding Boxes

Native Bounding Box

| Min X            | Min Y     | Max X      | Max Y     |
|------------------|-----------|------------|-----------|
| -124.73142200000 | 24.955967 | -66.969849 | 49.371735 |

[Compute from data](#)

[Compute from SRS bounds](#)

Lat/Lon Bounding Box

| Min X            | Min Y     | Max X      | Max Y     |
|------------------|-----------|------------|-----------|
| -124.73142200000 | 24.955967 | -66.969849 | 49.371735 |

[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

[+ Add a new layer](#)  
[- Remove selected layers](#)

<< < 1 > >> Results 1 to 22 (out of 22 items)

| 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.

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