

MapServerPortlet

Requirements

A [MapServer](#) portlet requires the following elements:

- [MapServer](#) Software
- Geographic Data
- [MapServer](#) Configuration
- Apache Portlet Bridge for [MapServer](#)
- Jetspeed Configuration

MapServer Software

[MapServer](#) (Open source with a simplified BSD license) is a C program therefore you must obtain the proper version for your target operating system. Linux and Unix users will find that downloading the source and compiling it is the simplest alternative. Listed here are links to [MapServer](#) source and its required dependencies. Build each of these packages using the `./configure`, `make`, and `sudo make install` commands. Building [MapServer](#) will tell you which dependencies are missing on your system.

- [MapServer-4.6.1 source code](#)
- [GD-2.0.33 source code](#)
- [GDAL-1.3.1 source code](#)
- [Freetype-2.1.10 source code](#)
- [Jpeg-6b source code](#)
- [Png-1.2.10 source code](#)

Linux users can also use the [fgs](#) package provided by <http://www.maptools.org>.

Windows users can use the [ms4w](#) package provided by <http://www.maptools.org>.

Mac OS users will find help [here](#).

Geographic Data

The [MapServer demo](#) includes some sample geographic data.

MapServer Configuration

[MapServer](#) is configured using a [MapFile](#). The demo configuration file is `itasca.map`.

Apache Portal Bridge for MapServer

A contribution to the Apache Portal Bridges project yielded a component capable of executing the [MapServer](#) program. This bridge uses the portlet initialization parameters to determine the initial map. [MapScript](#) for Java JNI is on the roadmap.

Jetspeed Configuration

Running a [MapServer](#) portlet requires modification to the chosen portlet web application.

Add [MapServer](#) Bridge to project.xml

```

<project>
  <extend>${basedir}/../../project.xml</extend>
  <pomVersion>3</pomVersion>
  <artifactId>map-portlet</artifactId>
  <name>MapServer Portlet Demo</name>
  <package>org.apache.portals.webapp.example</package>
  <description>MapServer Portlet Demo</description>
  <shortDescription>MapServer Portlet Demo</shortDescription>

  <repository>
    <connection>scm:svn:http://svn.apache.org/repos/asf/portals/bridges/trunk/applications/map-portlet<
/connection>
    <developerConnection>
      scm:svn:https://svn.apache.org/repos/asf/portals/bridges/trunk/applications/map-portlet
    </developerConnection>
    <url>http://svn.apache.org/viewcvs.cgi/portals/bridges/trunk/applications/map-portlet/</url>
  </repository>

  <dependencies>
    <dependency>
      <id>portlet-api</id>
      <version>1.0</version>
      <properties>
        <war.bundle>false</war.bundle>
      </properties>
    </dependency>
    <dependency>
      <id>org.apache.portals.bridges:portals-bridges-mapserver</id>
      <version>${portals.bridges.mapserver.version}</version>
      <properties>
        <war.bundle>true</war.bundle>
      </properties>
    </dependency>
  </dependencies>

</project>

```

Install the **MapServer** demo and data

Copy the **MapServer** demo to your web application source.

```

cd $JETSPPEED2_SRC/applications/demo/src/webapp
unzip workshop.zip

```

NOTE: Some simple modification need to be made to the default itasca.map file.

Change this:

```

TEMPLATEPATTERN "itasca"

```

To This:

```

#TEMPLATEPATTERN "itasca"

```

Change this:

```

HEADER templates/header.html
FOOTER templates/footer.html

```

To This:

```
#HEADER templates/header.html
TEMPLATE "itasca_basic.html"
#FOOTER templates/footer.html
```

And the itasca_basic.html page should only contain a fragment of html. Keep all content from `<form>` to `</form>` and delete the rest of the template.

Add a fragment to an existing psml

Or create a new one.

```
<page id="mapserver">
  <defaults
    skin="orange"
    layout-decorator="tigris"
    portlet-decorator="gray-gradient"
  />
  <title>MapServer Demo</title>
  <metadata name="title" xml:lang="ja">MapServer </metadata>
  <metadata name="title" xml:lang="es">Demo de portlets de MapServer</metadata>
  <metadata name="short-title" xml:lang="es">Demo MapServer</metadata>
  <metadata name="title" xml:lang="hu">MapServer hírolvasó</metadata>
  <metadata name="title" xml:lang="zh">MapServer </metadata>
  <fragment id="mapserver-1" type="layout" name="jetspeed-layouts::VelocityTwoColumns">
    <fragment id="mapserver-101" type="portlet" name="demo::MapServerDemoPortlet">
      <property layout="TwoColumns" name="row" value="0" />
      <property layout="TwoColumns" name="column" value="0" />
    </fragment>
  </fragment>

  <security-constraints>
    <security-constraints-ref>public-view</security-constraints-ref>
  </security-constraints>
</page>
```

Add portlet definition to portlet.xml

Configure the parameters [MapServBinary](#), [MapFile](#), and Program according to your installation.

```

<?xml version="1.0" encoding="UTF-8"?>
<portlet-app id="msportlet" version="1.0">
  <portlet id="MapServerDemoPortlet">
    <init-param>
      <name>MapServBinary</name>
      <value>/home/opensource/soft/bin/httpd/cgi-bin/mapserv</value>
    </init-param>
    <init-param>
      <name>Layers</name>
      <value>lakespy2</value>
    </init-param>
    <init-param>
      <name>ZoomDirection</name>
      <value>1</value>
    </init-param>
    <init-param>
      <name>ZoomSize</name>
      <value>2</value>
    </init-param>
    <init-param>
      <name>MapFile</name>
      <value>/home/opensource/soft/bin/apache-tomcat-5.5.12/webapps/demo/workshop/itasca.map</value>
    </init-param>
    <init-param>
      <name>Program</name>
      <value>/jetspeed/portal/map.psm1</value>
    </init-param>
    <init-param>
      <name>RootURL</name>
      <value>/demo/workshop</value>
    </init-param>
    <init-param>
      <name>MapWebImagePath</name>
      <value>/home/opensource/soft/bin/apache-tomcat-5.5.12/webapps/demo/workshop/tmp/</value>
    </init-param>
    <init-param>
      <name>MapWebImageURL</name>
      <value>/demo/workshop/tmp/</value>
    </init-param>
    <init-param>
      <name>MapWebTemplate</name>
      <value>templates/itasca_basic.html</value>
    </init-param>
    <portlet-name>MapServerDemoPortlet</portlet-name>
    <display-name>MapServer Demo Portlet</display-name>
    <portlet-class>org.apache.portals.bridges.mapserver.MapServerPortlet</portlet-class>
    <expiration-cache>-1</expiration-cache>
    <supports>
      <mime-type>text/html</mime-type>
      <portlet-mode>VIEW</portlet-mode>
    </supports>
    <portlet-info>
      <title>Map Server Portlet</title>
      <short-title>MapServer Portlet Demo</short-title>
    </portlet-info>
  </portlet>
</portlet-app>

```

Rebuild and deploy Jetspeed

[QuickStartForTheImpatient](#)

References

See the Jira issue to integrate this into the Jetspeed2 source (<http://issues.apache.org/jira/browse/JS2-410>).

[MapServer Homepage](#)