SETTING UP A GEOPORTAL ON THE STATE GEOTHERMAL DATA SERVER

If you are planning on adding a new geoportal instance to USGIN, read Ryan’s documentation on Apache Ant for the Geoportal-Server in Github/usgin. Then read through the ESRI Linux documentation. You will need to understand that instead of config.xml files – Ryan has set up .properties files that do similar things. The Database permissions on this sever is also tricky but should be in keypass. A lot of conflicting work is present on the USGIN sever creating problems in certain places, just be aware of that as you move forward. The SGD server where the stategeothermaldata and the New Mexico Catalogs both live will be a hell of a whole lot easier to navigate. These Geoportals are set up exactly as descripted in the ESRI Documentation, with an exception of using Linux command line to set up the database scripts.

**IMPORTANT**: Anytime you step in and out of these directories while you set up a new geoportal-server instance, make sure that TOMCAT has permissions or you will get bizarre errors. When you set up a new lucene DIR, make sure tomcat has permissions. ALWAYS ALWAYS ALWAYS.

Note that placing geoportals on the server will be easier after doing this on a local machine. Try setting up your own first, using the ESRI documentation on how to set up a Geoportal-Server.

Get Familiar.

* <http://catalog.stategeothermaldata.org/manager/> (username: admin; password: BR2ZyIRM2obIvB) will let you know what java apps are being hosted out of the tomcat servlet. If you need to reset any Tomcat passwords, the password for this site will be in KeePass under Tomcat.
* On the server, all of the geoportal config file will live in the tomcat $DIR:

*/var/lib/tomcat7*

* The one exception to this is the lucene indexes for each of the geoportals, they live here:

*/home/ubuntu/web*

* A Context is what Tomcat calls a web application.

*/var/lib/tomcat7/webapps/geoportal/META-INF* has the postgres db, username and password; it also indicates the URL geoportal uses for this instance’s browser interface this file can exist at either location, and it works fine:

$CATALINA\_BASE/conf/[enginename]/[hostname]/[webappname].xml

$CATALINA\_BASE/webapps/[webappname]/META-INF/context.xml

1. Download the current version of Geoportal-Server on your local:

Reference: https://github.com/Esri/geoportal-server

<http://sourceforge.net/projects/geoportal/> {it might not be 1.2.5}

1. Unzip the files and hop on the server, I prefer to do this with WinSCP for this portion but you can always use PUTTY and Linux commands by following the Linux documentation. Using WinSCP, can connect to SGD server through ubuntu@repository.stategeothermaldata.org

*/var/lib/tomcat7/webapps*

1. RENAME and grab the geoportal.war file from the downloaded geoportal version on your desktop --> {*geoportal-1.2.5.zip\Web Applications\Geoportal\geoportal.war*}
2. Place the renamed geoportal.war file into the tomcat7/webapps folder.
3. Wait a moment while it builds a new geoportal Directory with the name you gave the geoportal.war file. If it does not do this automatically, restart tomcat in PUTTY – ‘sudo service tomcat7 restart”
4. Right click the new geoportal directory, select Properties and set the Group and Owner to Tomcat7 (recursively) if it is not already.
5. Navigate, on the server, to */home/ubuntu/web* and create a new folder using the name of your new geoportal instance.

* Create a ‘lucene’ folder within the new directory
* Create an ‘index’ folder within the new lucene directory
* Navigate back to the new geoportal directory; the only folder you should see is ‘lucene’
* Right click lucene and set the properties so that Tomcat7 has permissions to access it and ‘set group, owner and permissions recursively’.

1. Log onto the SGD server with Putty and run scripts for the new geoportal Database

*Remember when you do this to use the name of your new geoportal in place of ‘geoportal’ when listed in instructions. If you use ‘geoportal’ when setting up a new database you run a high risk of overwriting an existing geoportal database.*

* Place the [local machine location]\geoportal-1.2.5-2\Database Scripts directory found in your downloaded geoportal-server on your local machine on the SGD server in a location you can access it, like /home/ubuntu/common-scripts/DatabaseScripts, but not in your new Geoportal directory.
* Change to the DatabaseScripts dir in the command line.
* Change ownership and executability of scripts within the PostgreSQL directory.

$ sudo chown -R postgres:postgres

/home/ubuntu/common-scripts/DatabaseScripts/PostgreSQL

$ sudo chmod -R +x /home/ubuntu/common-scripts/DatabaseScripts/PostgreSQL

* Change to the PostgreSQL directory and verify changes; make sure they are all executable (green in this Linux veiw).

$ cd /home/ubuntu/common-scripts/DatabaseScripts/PostgreSQL

$ ls –l

* Switch to the postgres user.

$ sudo su – postgres

* Go to pgAdmin and connect to the server. Create a new database, with owner as geoportal. Connection information is in KeePass.
* Back in the command line, the grants\_linuxpg.sh script creates the geoportal schema and indicates users for the new postgres database (here, geoDE).

Usage : grants\_linuxpg.sh [host] [port] [database] [schema] [postgres user] [geoportal user]

$ sh ./grants\_linuxpg.sh localhost 5432 geoDE public postgres geoportal

When prompted, enter the password for geoportal, *IE8PpW2vfYVtfz*.

When prompted, enter the password for the postgres, *password*.

The message with CREATE SCHEMA should appear in the text file.

* The create\_schema\_linuxpg.sh script populates geoportal schema in Postgres with the new database.

Usage : create\_schema\_pg.cmd [host] [port] [geoportal database] [geoportal user]

$ sh ./create\_schema\_linuxpg.sh localhost 5432 geoDE geoportal

When prompted, enter the password for the geoportal, *IE8PpW2vfYVtfz*.

The messages CREATE TABLE should appear.

When script is all done, exit by Control+Z.

* To see the database tables created, check them out in pgAdmin.
* If you need more information, see the Linux documentation for setting up a geoportal; the below have proven helpful:

<http://rocky.umeoce.maine.edu/wiki/index.php/ESRI_Geoportal_install>

<http://www.docstoc.com/docs/167299665/Geoportal-Server-122-Installation-Guide-For-Linux---GitHub>

1. Updating the configuration files in the Geoportal-Server. *Again, remember when you do this to use the name of your new geoportal in place of ‘geoportal’ where highlighted.*

* **gpt.xml :** */webapps/geoportal/WEB-INF/classes/gpt/config* for your new Geoportal on the SGD Server.
* Locate the <lucene> section and add your newly created lucene index (absolute) $dir path as below; can use nano or change in a text editor:

<lucene

indexLocation " */home/ubuntu/web/geoportal-name/lucene/index*”

writeLockTimeout="60000"

useNativeFSLockFactory="true"

analyzerClassName=" ">

* Locate the <identity> section and uncomment the simpleAdapter section, so that it looks like the text below. Select the username and password to use for this geoportal. Move down to the ldapAdapter section and comment everything from <ldapAdapter> to </ldapAdapter>. Keep </identity> uncommented:

<identity encKey="PtkESRI" realm="Geoportal">

<simpleAdapter>

<account username="gptuser" password="gptuser"

encrypted="false"/>

<roles>

<role key="gptRegisteredUser"/>

<role key="gptPublisher"/>

<role key="gptAdministrator"/>

</roles>

</simpleAdapter>

* Save file and exit.

Note: If you cannot login at the Geoportal home page (see 10 below) you may want to check this file again, and possibly delete the ldapAdapter section completely.

* **This user name and password is for the Geoportal web interface.**
* Save the username and password in KeePass.
* **GeoportalName.xml** : */var/lib/tomcat7/conf/Catalina/localhost* on SGD Server.

Currently there should be no file with your new Geoportal name in this directory; you will need to create one. It’s likely easier to create this file on your local machine and paste into the correct SGD directory.

* Copy and modify this text to create a connection from the Geoportal to your database. Name the file the same thing you named your geoportal.

<?xml version="1.0" encoding="UTF-8"?>

<Context docBase=" geoportal-name” path="/geoportal-name" debug="0" reloadable="true" crossContext="true">

<Resource name="jdbc/gpt" auth="Container" type="javax.sql.DataSource"

driverClassName="org.postgresql.Driver"

url="jdbc:postgresql://localhost:5432/geoNM"

username=”database user name"

password="database user password"

maxActive="60"

maxIdle="60"

maxWait="-1" />

</Context>

* **This user name and password is for the postgres user (geoportal) and password.**
* Save and Close File.

1. Restart Tomcat and sign into the geoportal.

* The location of the new geoportal should be (case sensitive):

http://catalog.stategeothermaldata.org/YourGeoportalName/catalog/main/home.page

1. If you want to add the USGIN package to the new Geoportal Server, follow the information located on the GitHub Repo for just that.

<https://github.com/usgin/usgin-geoportal-specs>

For simply transferring metadata back to the states from the AASG State Geothermal Data Repository, this is not necessary.

1. Grab one of the Stategeothermaldata repository WAFS into the geoportal

* WAFS for each collection of metadata are set up like this:

http://repository.stategeothermaldata.org/metadata/collection/66bb6bbde013946035700d274f141446/records.iso.xml

http://repository.stategeothermaldata.org/metadata/collection/

* The collection id you pull from these pages http://repository.stategeothermaldata.org/repository/collection/dc2950e94fd12022579c7307b626bda3/