

Configuration Tables for gpt.xml and JDBC

How to Set Up an Esri Geoportal Server

Aggregate all your geospatial resources into a single geoportal repository

Table 1: Software Required in This Tutorial

| Component | Function | Version | URL |
|---|--|------------------------------|------------------------------|
| Esri Geoportal Server | Geoportal Software | 1.1 | geoportal.sourceforge.net |
| PostgreSQL | RDBMS | 8.4.7 | postgresql.org |
| Apache Tomcat | Web servlet | 6.0.32 | tomcat.apache.org |
| Java Development Kit with Runtime Environment | Java controller | SE 6 Update 24 JDK | oracle.com/java |
| JDBC Configuration File | Connects Tomcat to PostgreSQL database | Postgresql-8.5.701-jdbc4.jar | jdbc.postgresql.org/download |

Table 2: Configuring GPT.XML

| Lines | Modifications (changes highlighted) |
|--------------------|--|
| 50 – 56 (original) | <pre><interactiveMap jsapiUrl=http://serverapi.arcgisonline.com/jsapi/arcgis/?v=2.2 mapServiceUrl="REST_API_URL_to_MapService" mapServiceType="dynamic_or_tiled" geometryServiceUrl="http://sampleserver3.arcgisonline.com/ArcGIS/rest/services/Geometry/GeometryServer" locatorUrl="http://sampleserver1.arcgisonline.com/ArcGIS/rest/services/Locators/Esri_Geocode_USA/GeocodeServer" locatorSingleFieldParameter = "parameter_name_associated_with_single_field_locator"/></pre> |
| 50 – 56 (new) | <pre><interactiveMap jsapiUrl=http://serverapi.arcgisonline.com/jsapi/arcgis/?v=2.3 mapServiceUrl="http://server.arcgisonline.com/ArcGIS/rest/services/World_Imagery/MapServer" mapServiceType="dynamic" geometryServiceUrl="http://tasks.arcgisonline.com/ArcGIS/rest/services/Geometry/GeometryServer" locatorUrl="http://tasks.arcgisonline.com/ArcGIS/rest/services/Locators/TA_Streets_US/GeocodeServer" locatorSingleFieldParameter = "City"/></pre> |
| 69 – 73 (original) | <pre><lucene indexLocation="lucene_index_location" writeLockTimeout="60000" useNativeFSLockFactory="true" analyzerClassName="org.apache.lucene.analysis.standard.StandardAnalyzer"></pre> |
| 69 – 73 (new) | <pre><lucene indexLocation="C:\lucene" writeLockTimeout="60000" useNativeFSLockFactory="true" analyzerClassName="org.apache.lucene.analysis.standard.StandardAnalyzer"></pre> |

| | |
|-------------------------|---|
| 92 - 97 (original) | <pre> <parameter key="assertion.index.enabled" value="true"/> <parameter key="assertion.index.location" value="lucene_assertion_index_location"/> <parameter key="assertion.index.allowNonLocalResourceIds" value="false"/> <parameter key="assertion.rating.enabled" value="true"/> <parameter key="assertion.comment.enabled" value="true"/> <parameter key="assertion.comment.maxLength" value="2048"/> </pre> |
| 92 - 97 (new) | <pre> <parameter key="assertion.index.enabled" value="true"/> <parameter key="assertion.index.location" value="C:\lucene\assertion"/> <parameter key="assertion.index.allowNonLocalResourceIds" value="false"/> <parameter key="assertion.rating.enabled" value="true"/> <parameter key="assertion.comment.enabled" value="true"/> <parameter key="assertion.comment.maxLength" value="2048"/> </pre> |
| 291 - 398 (original) | <pre> <identity encKey="PtkESRI" realm="Geoportal"> <!-- <simpleAdapter> <account username="gptaccount" password="gpt.account" encrypted="false"/> <roles> <role key="gptRegisteredUser"/> <role key="gptPublisher"/> <role key="gptAdministrator"/> </roles> </simpleAdapter> --> <ldapAdapter> <ldapConnectionProperties providerURL="ldap://ldap_host_name:ldap_port" initialContextFactoryName="com.sun.jndi.ldap.LdapCtxFactory" securityAuthentication="simple" securityProtocol=""> <ldapServiceAccount securityPrincipal="ldap_admin_user" securityCredentials="ldap_admin_password" encrypted="false" catalogAdminDN="catalog_admin_distinguished_name"/> </ldapConnectionProperties> <singleSignOn active="false" credentialLocation="userPrincipal" anonymousValue="" logoutOutcome=""/> <selfCareSupport supportsLogin="true" supportsLogout="true" supportsUserRegistration="true" supportsUserProfileManagement="true" supportsPasswordChange="true" supportsPasswordRecovery="true"/> <roles authenticatedUserRequiresRole="true"> <role key="gptRegisteredUser" groupDN="group_distinguished_name_for_registered_user"/> <role key="gptPublisher" </pre> |

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        inherits="gptRegisteredUser"
        groupDN="group_distinguished_name_for_publisher"/>
    <role
        key="gptAdministrator"
        inherits="gptPublisher"
        groupDN="group_distinguished_name_for_administrator"/>
</roles>

<users
    displayNameAttribute="cn"
    passwordEncryptionAlgorithm="SHA"
    newUserDNPattern="cn={0},Users_Node_DN"
    usernameSearchPattern="(& (objectclass=person) (cn={0}))"
    searchDIT="Users_Node_DN">
    <requiredObjectClasses>
        <objectClass name="top"/>
        <objectClass name="person"/>
        <objectClass name="organizationalPerson"/>
        <objectClass name="inetOrgPerson"/>
    </requiredObjectClasses>
    <userAttributeMap>
        <attribute key="username" ldapName="uid"/>
        <attribute key="password" ldapName="userPassword"/>
        <attribute key="email" ldapName="mail"/>
        <attribute key="firstName" ldapName="givenName"/>
        <attribute key="lastName" ldapName="sn"/>
        <attribute key="organization" ldapName="o"/>
        <attribute key="affiliation" ldapName="businessCategory"/>
        <attribute key="street" ldapName="street"/>
        <attribute key="city" ldapName="l"/>
        <attribute key="stateOrProv" ldapName="st"/>
        <attribute key="postalCode" ldapName="postalCode"/>
        <attribute key="country" ldapName=""/>
        <attribute key="phone" ldapName="telephoneNumber"/>
    </userAttributeMap>
</users>

<groups
    displayNameAttribute="cn"
    dynamicMemberOfGroupsAttribute=""
    dynamicMembersAttribute=""
    memberAttribute="uniquemember"
    memberSearchPattern="(& (objectclass=groupOfUniqueNames) (uniquemember={0}))"
    searchDIT="Groups_Node_DN">

    <!--
    <metadataManagementGroup
        name="Region 1"
        groupDN="group_distinguished_name"/>
    <metadataManagementGroup
        name="Region 2"
        groupDN="group_distinguished_name"/>
    -->
</groups>
</ldapAdapter>
</identity>

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<identity encKey="PtkESRI" realm="Geoportal">
  <simpleAdapter>
    <account username="gptadmin" password="gptadmin" encrypted="false"/>
    <roles>
      <role key="gptRegisteredUser"/>
      <role key="gptPublisher"/>
      <role key="gptAdministrator"/>
    </roles>
  </simpleAdapter>
  <!--
  <ldapAdapter>

    <ldapConnectionProperties
      providerURL="ldap://ldap_host_name:ldap_port"
      initialContextFactoryName="com.sun.jndi.ldap.LdapCtxFactory"
      securityAuthentication="simple"
      securityProtocol="">
      <ldapServiceAccount
        securityPrincipal="ldap_admin_user"
        securityCredentials="ldap_admin_password"
        encrypted="false"
        catalogAdminDN="catalog_admin_distinguished_name"/>
    </ldapConnectionProperties>

    <singleSignOn
      active="false"
      credentialLocation="userPrincipal"
      anonymousValue=""
      logoutOutcome=""/>

    <selfCareSupport
      supportsLogin="true"
      supportsLogout="true"
      supportsUserRegistration="true"
      supportsUserProfileManagement="true"
      supportsPasswordChange="true"
      supportsPasswordRecovery="true"/>

    <roles authenticatedUserRequiresRole="true">
      <role
        key="gptRegisteredUser"
        groupDN="group_distinguished_name_for_registered_user"/>
      <role
        key="gptPublisher"
        inherits="gptRegisteredUser"
        groupDN="group_distinguished_name_for_publisher"/>
      <role
        key="gptAdministrator"
        inherits="gptPublisher"
        groupDN="group_distinguished_name_for_administrator"/>
    </roles>

    <users
      displayNameAttribute="cn"
      passwordEncryptionAlgorithm="SHA"
      newUserDNPattern="cn={0},Users_Node_DN"
      usernameSearchPattern="( &#amp; (objectclass=person) (cn={0})) "
      searchDIT="Users_Node_DN">
      <requiredObjectClasses>
```

```
<objectClass name="top"/>
<objectClass name="person"/>
<objectClass name="organizationalPerson"/>
<objectClass name="inetOrgPerson"/>
</requiredObjectClasses>
<userAttributeMap>
  <attribute key="username"      ldapName="uid"/>
  <attribute key="password"      ldapName="userPassword"/>
  <attribute key="email"         ldapName="mail"/>
  <attribute key="firstName"     ldapName="givenName"/>
  <attribute key="lastName"     ldapName="sn"/>
  <attribute key="organization"  ldapName="o"/>
  <attribute key="affiliation"   ldapName="businessCategory"/>
  <attribute key="street"        ldapName="street"/>
  <attribute key="city"          ldapName="l"/>
  <attribute key="stateOrProv"   ldapName="st"/>
  <attribute key="postalCode"    ldapName="postalCode"/>
  <attribute key="country"       ldapName=""/>
  <attribute key="phone"        ldapName="telephoneNumber"/>
</userAttributeMap>
</users>

<groups
  displayNameAttribute="cn"
  dynamicMemberOfGroupsAttribute=""
  dynamicMembersAttribute=""
  memberAttribute="uniquemember"
  memberSearchPattern="( & (objectclass=groupOfUniqueNames) (uniquemember={0})) "
  searchDIT="Groups_Node_DN">

  <metadataManagementGroup
    name="Region 1"
    groupDN="group_distinguished_name"/>
  <metadataManagementGroup
    name="Region 2"
    groupDN="group_distinguished_name"/>
</groups>
</ldapAdapter>
-->
</identity>
```

Table 3: Configuring JDBC

| Lines | Modifications (changes highlighted) |
|----------|---|
| Original | <pre> <!-- Context configuration file for the Geoportal Web App --> <Context docBase="<Geoportal Server web app name>" path="/<Geoportal Server web app name>" debug="0" reloadable="true" crossContext="true"> <Resource name="jdbc/gpt" auth="Container" type="javax.sql.DataSource" driverClassName="<jdbc driver name>" url="<jdbc connection string>" username="<Geoportal database user>" password="<Geoportal database user password>" maxActive="20" maxIdle="10" maxWait="-1" /> </Context> </pre> |
| New | <pre> <!-- Context configuration file for the Geoportal Web App --> <Context docBase="geoportal" path="/geoportal" 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/postgres" username="geoportal" password="geoportal" maxActive="20" maxIdle="10" maxWait="-1" /> </Context> </pre> |