

Deployment plans

Deployment plans are the Geronimo version of the J2EE deployment descriptors. They are still XML files based on XML schemas and containing the configuration details for a specific application module. Via the deployment plans you can not only deploy application modules but also other configurations such as a security realm, see the [Deploying secure applications](#) and [Deploy the LDAP realm](#) sections for further details and examples.

The following table illustrates the deployment descriptors name and file location for both standard J2EE and Apache Geronimo specific.

File	Standard Deployment Descriptors in the J2EE specification	Apache Geronimo specific Deployment plan
Web Application Archive (WAR)	web.xml under the WEB-INF directory	geronimo-web.xml
Enterprise Web application archive (EAR)	application.xml	geronimo-application.xml
J2EE Connector resources archive (RAR)	ra.xml	geronimo-ra.xml
J2EE client application archive (JAR)	client.xml	geronimo-application-client.xml
JAR containing EJBs	ejb-jar.xml under the META-INF directory	openejb-jar.xml

Here are some Geronimo specific deployment plan examples:

geronimo-web.xml

```
<web-app xmlns="http://geronimo.apache.org/xml/ns/web"
  xmlns:naming="http://geronimo.apache.org/xml/ns/naming"
  configId="MDBDemoWebApp">

  <context-root>messaging-ejb</context-root>

  <ejb-ref>
    <ref-name>ejb/CustomerHome</ref-name>
    <target-name>geronimo.server:EJBModule=MDBDemo,J2EEApplication=null,J2EEServer=geronimo,
j2eeType=EntityBean,name=CustomerEJB</target-name>
  </ejb-ref>

  <resource-ref>
    <ref-name>jms/broker</ref-name>
    <resource-link>DefaultActiveMQConnectionFactory</resource-link>
  </resource-ref>

  <resource-env-ref>
    <ref-name>jms/queue/DefQueue</ref-name>
    <message-destination-link>SendReceiveQueue</message-destination-link>
  </resource-env-ref>

</web-app>
```

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geronimo-application.xml

```

<application xmlns="http://geronimo.apache.org/xml/ns/j2ee/application"
  configId="com/ibm/j2g/security">

  <security xmlns="http://geronimo.apache.org/xml/ns/security">
    <default-principal realm-name="j2g">
      <principal class="org.apache.geronimo.security.realm.providers.GeronimoUserPrincipal" name="system"
/>
    </default-principal>
    <role-mappings>
      <role role-name="authenticated">
        <realm realm-name="j2g">
          <principal class="org.apache.geronimo.security.realm.providers.GeronimoGroupPrincipal"
name="authenticated"/>
        </realm>
      </role>
      <role role-name="uploader">
        <realm realm-name="j2g">
          <principal class="org.apache.geronimo.security.realm.providers.GeronimoGroupPrincipal"
name="uploader"/>
        </realm>
      </role>
    </role-mappings>
  </security>

  <gb:gbean name="j2g-realm" class="org.apache.geronimo.security.realm.GenericSecurityRealm"
    xmlns:gb="http://geronimo.apache.org/xml/ns/deployment-1.0">
    <gb:reference name="ServerInfo">
      <gb:application>*/gb:application>
      <gb:module>org/apache/geronimo/System</gb:module>
      <gb:name>ServerInfo</gb:name>
    </gb:reference>
    <gb:reference name="LoginService">
      <gb:application>*/gb:application>
      <gb:module>org/apache/geronimo/Security</gb:module>
      <gb:name>JaasLoginService</gb:name>
    </gb:reference>
    <gb:attribute name="realmName">j2g</gb:attribute>
    <gb:xml-reference name="LoginModuleConfiguration">
      <l:login-config xmlns:l="http://geronimo.apache.org/xml/ns/loginconfig">
        <l:login-module control-flag="REQUIRED" server-side="true">
          <l:login-domain-name>j2g</l:login-domain-name>
          <l:login-module-class>
            org.apache.geronimo.security.realm.providers.
PropertiesFileLoginModule
          </l:login-module-class>
          <l:option name="usersURI">
            var/security/j2g_users.properties
          </l:option>
          <l:option name="groupsURI">
            var/security/j2g_groups.properties
          </l:option>
        </l:login-module>
      </l:login-config>
    </gb:xml-reference>
  </gb:gbean>
</application>

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geronimo-ra.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<connector xmlns="http://geronimo.apache.org/xml/ns/j2ee/connector" version="1.5"
    configId="com/ibm/j2g/jca.rar">

    <resourceadapter>
        <outbound-resourceadapter>
            <connection-definition>
                <connectionfactory-interface>com.ibm.j2g.jca.connector.FileRetrieverConnectionFactory<
/connectionfactory-interface>
                <connectiondefinition-instance>
                    <name>FileRetriever</name>
                    <!-- The following path refers to the Geronimo home directory -->
                    <config-property-setting name="RepositoryPath">..</config-property-setting>
                    <connectionmanager>
                        <no-transaction/>
                        <no-pool/>
                    </connectionmanager>
                </connectiondefinition-instance>
            </connection-definition>
        </outbound-resourceadapter>
    </resourceadapter>
</connector>

```

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geronimo-application-client.xml

ANY DONATIONS WOULD BE APPRECIATED HERE

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openejb-jar.xml

```

<openejb-jar
  xmlns="http://www.openejb.org/xml/ns/openejb-jar"
  xmlns:naming="http://geronimo.apache.org/xml/ns/naming"
  xmlns:security="http://geronimo.apache.org/xml/ns/security"
  xmlns:sys="http://geronimo.apache.org/xml/ns/deployment"
  configId="SessionBeanDemo" parentId="org/apache/geronimo/Server">
  <enterprise-beans>

    <entity>
      <ejb-name>CustomerEJB</ejb-name>
      <jndi-name>CustomerHomeRemote</jndi-name>
      <local-jndi-name></local-jndi-name>
      <resource-ref>
        <ref-name>jdbc/ibm-demo</ref-name>
        <resource-link>SystemDatasource</resource-link>
      </resource-ref>
    </entity>

    <session>
      <ejb-name>LoanManagerEJB</ejb-name>
      <jndi-name>LoanManagerHomeRemote</jndi-name>
      <ejb-ref>
        <ref-name>ejb/CustomerHomeRemote</ref-name>
        <ejb-link>CustomerEJB</ejb-link>
      </ejb-ref>
    </session>

    <session>
      <ejb-name>StatefulLoanManagerEJB</ejb-name>
      <jndi-name>StatefulLoanManagerHomeRemote</jndi-name>
      <ejb-ref>
        <ref-name>ejb/CustomerHomeRemote</ref-name>
        <ejb-link>CustomerEJB</ejb-link>
      </ejb-ref>
    </session>

  </enterprise-beans>
</openejb-jar>

```

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