Walkthrough jetty.xml

If you're new to jetty, please see **Syntax Reference** to get a good grasp on how the jetty configuration file works.

```
<?xml version="1.0"?>
<!DOCTYPE Configure PUBLIC "-//Mort Bay
Consulting//DTD Configure//EN"
"http://jetty.mortbay.org/configure.dtd">

<Configure id="Server"
class="org.mortbay.jetty.Server">

    <!--
=============================================
=============== -->
    <!-- Server Thread Pool
-->
    <!--
=============================================
=============== -->
    <Set name="ThreadPool">
      <New
class="org.mortbay.thread.QueuedThreadPool">
        <!-- initial threads set to 10 -->
        <Set name="minThreads">10</Set>

        <!-- the thread pool will grow only
up to 200 -->
        <Set name="maxThreads">200</Set>

        <!-- indicates that having 20 and
```

```
below, the pool will be considered low on
threads -->
        <Set name="lowThreads">20</Set>

        <!-- The number of queued jobs (or
idle threads) needed before the thread pool
is grown (or shrunk) -->
        <Set name="SpawnOrShrinkAt">2</Set>
      </New>
    </Set>



    <!--
=============================================
=============== -->
    <!-- Set connectors
-->
    <!--
=============================================
=============== -->

    <Call name="addConnector">
      <Arg>
          <New
class="org.mortbay.jetty.nio.SelectChannelCo
nnector">
            <!-- the ip address or domain to
bind -->
            <Set name="host"><SystemProperty
name="jetty.host" /></Set>
```

```
            <!-- the port to use/bind,
defaults to 8080 if property not set -->
            <Set name="port"><SystemProperty
name="jetty.port" default="8080"/></Set>

            <!-- the time in milliseconds
when a connection is considered idle -->
            <Set
name="maxIdleTime">300000</Set>

            <!-- the number of acceptors
(their job is to accept the connection and
dispatch to thread pool) -->
            <Set name="Acceptors">2</Set>

            <!-- should the connection
statistics be turned on? (Not advisable in
production) -->
            <Set name="statsOn">false</Set>

            <!-- the confidential port -->
            <Set
name="confidentialPort">8443</Set>

            <!-- indicates the minimum
number of connections when the server is
considered low on resources -->
     <Set
name="lowResourcesConnections">20000</Set>
```

```
            <!-- when low on resources, this
indicates the maximum time (milliseconds) a
connection must be idle to not be closed -->
     <Set
name="lowResourcesMaxIdleTime">5000</Set>
          </New>
      </Arg>
    </Call>

    <!-- - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -->
    <!-- To add a HTTPS SSL connector
-->
    <!-- mixin jetty-ssl.xml:
-->
    <!--   java -jar start.jar etc/jetty.xml
etc/jetty-ssl.xml           -->
    <!-- - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -->

    <!-- - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -->
    <!-- To add a HTTP blocking connector
-->
    <!-- mixin jetty-bio.xml:
-->
    <!--   java -jar start.jar etc/jetty.xml
etc/jetty-bio.xml           -->
    <!-- - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -->
```

```
    <!--
=============================================
=============== -->
    <!-- Set handler Collection Structure
-->
    <!--
=============================================
=============== -->
    <Set name="handler">
      <!-- the collection of handlers that
will handle the request -->
      <New id="Handlers"
class="org.mortbay.jetty.handler.HandlerColl
ection">
        <Set name="handlers">
         <Array
type="org.mortbay.jetty.Handler">
           <!-- primarily handles the
request and maps the request to a
ContextHandler -->
           <Item>
             <New id="Contexts"
class="org.mortbay.jetty.handler.ContextHand
lerCollection"/>
           </Item>

           <!-- The default handler ...
handles the request if not yet handled -->
           <Item>
             <New id="DefaultHandler"
```

```
class="org.mortbay.jetty.handler.DefaultHand
ler"/>
           </Item>

           <!-- The handler for your request
logs -->
           <Item>
             <New id="RequestLog"
class="org.mortbay.jetty.handler.RequestLogH
andler"/>
           </Item>
         </Array>
        </Set>
      </New>
    </Set>

    <!--
=========================================
=============== -->
    <!-- Configure the context deployer
-->
    <!-- A context deployer will deploy
contexts described in        -->
    <!-- configuration files discovered in a
directory.              -->
    <!-- The configuration directory can be
scanned for hot          -->
    <!-- deployments at the configured
scanInterval.                 -->
    <!--
-->
```

```
    <!-- This deployer is configured to
deploy contexts configured   -->
    <!-- in the $JETTY_HOME/contexts
directory                          -->
    <!--
-->
    <!--
============================================
=============== -->
    <Call name="addLifeCycle">
      <Arg>
        <New
class="org.mortbay.jetty.deployer.ContextDep
loyer">
          <!-- the ContextHandlerCollection
to modify once a webapp is added or removed
(Allows Hot Deployment) -->
          <Set name="contexts"><Ref
id="Contexts"/></Set>

          <!-- the directory which will
contain your context.xml files -->
          <Set
name="configurationDir"><SystemProperty
name="jetty.home"
default="."/>/contexts</Set>

          <!-- the interval in milliseconds
to periodically scan the configurationDir
-->
          <Set name="scanInterval">5</Set>
```

```
        </New>
      </Arg>
    </Call>

    <!--
============================================
=============== -->
    <!-- Configure the webapp deployer.
-->
    <!-- A webapp  deployer will deploy
standard webapps discovered  -->
    <!-- in a directory at startup, without
the need for additional  -->
    <!-- configuration files.    It does not
support hot deploy or   -->
    <!-- non standard contexts (see
ContextDeployer above).          -->
    <!--
-->
    <!-- This deployer is configured to
deploy webapps from the      -->
    <!-- $JETTY_HOME/webapps directory
-->
    <!--
-->
    <!-- Normally only one type of deployer
need be used.            -->
    <!--
-->
    <!--
============================================
```

```
================ -->
    <Call name="addLifeCycle">
      <Arg>
        <New
class="org.mortbay.jetty.deployer.WebAppDepl
oyer">
          <!-- the ContextHandlerCollection
to add the webapps to -->
          <Set name="contexts"><Ref
id="Contexts"/></Set>

          <!-- the directory where all the
webapps are located (can be exploded or
packaged as war -->
          <Set
name="webAppDir"><SystemProperty
name="jetty.home"
default="."/>/webapps</Set>

          <!-- indicates whether to
lookup/load from the parent class loader
first-->
   <Set
name="parentLoaderPriority">false</Set>

          <!-- indicates whether to extract
the webapp if it is packaged as a war -->
   <Set name="extract">true</Set>

          <!-- indicates whether a deployed
webapp on a certain contextPath should have
```

```
a duplicate webapp deployment -->
   <Set name="allowDuplicates">false</Set>

          <!-- the default descriptor to use
to be applied before a webapps' web.xml -->
          <Set
name="defaultsDescriptor"><SystemProperty
name="jetty.home"
default="."/>/etc/webdefault.xml</Set>
        </New>
      </Arg>
    </Call>

    <!--
=============================================
=============== -->
    <!-- Configure Authentication Realms
-->
    <!-- Realms may be configured for the
entire server here, or     -->
    <!-- they can be configured for a
specific web app in a context  -->
    <!-- configuration (see
$(jetty.home)/contexts/test.xml for an   -->
    <!-- example).
-->
    <!--
=============================================
=============== -->
    <Set name="UserRealms">
      <Array
```

```
type="org.mortbay.jetty.security.UserRealm">
        <Item>
          <!-- this realm uses a properties
file to store/read the user/password/roles
-->
          <New
class="org.mortbay.jetty.security.HashUserRe
alm">
            <!-- the name of the realm -->
            <Set name="name">Test
Realm</Set>

            <!-- the location of the
property file to load from -->
            <Set
name="config"><SystemProperty
name="jetty.home"
default="."/>/etc/realm.properties</Set>

            <!-- the interval in seconds to
periodically scan for any changes and
refresh/reload if changed -->
            <Set
name="refreshInterval">0</Set>
          </New>
        </Item>
      </Array>
    </Set>

    <!--
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```

```
=============== -->
    <!-- Configure Request Log
-->
    <!-- Request logs  may be configured for
the entire server here, -->
    <!-- or they can be configured for a
specific web app in a       -->
    <!-- contexts configuration (see
$(jetty.home)/contexts/test.xml -->
    <!-- for an example).
-->
    <!--
=============================================
=============== -->
    <Ref id="RequestLog">
      <Set name="requestLog">
        <New id="RequestLogImpl"
class="org.mortbay.jetty.NCSARequestLog">
          <!-- the output file name of the
log file. Name of the file will be date
formatted -->
          <Set
name="filename"><SystemProperty
name="jetty.logs"
default="./logs"/>/yyyy_mm_dd.request.log</S
et>

          <!-- the date format -->
          <Set
name="filenameDateFormat">yyyy_MM_dd</Set>
```

```
          <!-- the days to retain the log
file -->
          <Set name="retainDays">90</Set>

          <!-- indicates if the new lines
should be appended on an existing log file
-->
          <Set name="append">true</Set>

          <!-- indicates if the lines logged
to the file will be in extended format -->
          <Set name="extended">true</Set>

          <!-- Indicates if the cookie logs
should be included in the log file -->
          <Set name="logCookies">false</Set>

          <!-- the timezone of the log -->
          <Set name="LogTimeZone">GMT</Set>
        </New>
      </Set>
    </Ref>

    <!--
=================================================
================ -->
    <!-- extra options
-->
    <!--
=================================================
================ -->
```

```
    <!-- Stops the server when ctrl+c is
pressed (registers to
Runtime.addShutdownHook)
    <Set name="stopAtShutdown">true</Set>

    <!-- send the server version in the
response header? -->
    <Set name="sendServerVersion">true</Set>

    <!-- send the date header in the
response header? -->
    <Set name="sendDateHeader">true</Set>

    <!-- allows requests(prior to shutdown)
```

```
to finish gracefully -->
    <Set name="gracefulShutdown">1000</Set>
</Configure>
```