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-->  
  
<!--  
    General purpose build script for web applications and web services,  
    including enhanced support for deploying directly to a Tomcat  
    based server.  
  
    This build script assumes that the source code of your web application  
    is organized into the following subdirectories underneath the source  
    code directory from which you execute the build script:  
  
        docs                Static documentation files to be copied to  
                           the "docs" subdirectory of your distribution.  
  
        src                Java source code (and associated resource  
files)                   to be compiled to the "WEB-INF/classes"  
                           subdirectory of your web application.  
  
        web                Static HTML, JSP, and other content (such as  
subdirectory             image files), including the WEB-INF  
                           and its configuration file contents.  
-->  
  
<!-- A "project" describes a set of targets that may be requested  
    when Ant is executed.  The "default" attribute defines the  
    target which is executed if no specific target is requested,  
    and the "basedir" attribute defines the current working directory  
    from which Ant executes the requested task.  This is normally  
    set to the current working directory.  
-->  
  
<project name="My Project" default="compile" basedir=".">
```

```
<!-- ===== Property Definitions =====  
-->
```

```
<!--
```

Each of the following properties are used in the build script. Values for these properties are set by the first place they are defined, from the following list:

- * Definitions on the "ant" command line (ant -Dfoo=bar compile).*
- * Definitions from a "build.properties" file in the top level source directory of this application.*
- * Definitions from a "build.properties" file in the developer's home directory.*
- * Default definitions in this build.xml file.*

You will note below that property values can be composed based on the contents of previously defined properties. This is a powerful technique that helps you minimize the number of changes required when your development environment is modified. Note that property composition is allowed within "build.properties" files as well as in the "build.xml" script.

```
-->  
  
<property file="build.properties"/>  
<property file="${user.home}/build.properties"/>
```

```
<!-- ===== File and Directory Names =====  
-->
```

```
<!--
```

These properties generally define file and directory names (or paths) that affect where the build process stores its outputs.

<i>app.name</i>	<i>Base name of this application, used to construct filenames and directories. Defaults to "myapp".</i>
<i>app.path</i>	<i>Context path to which this application should be deployed (defaults to "/" plus the value of the "app.name" property).</i>
<i>app.version</i>	<i>Version number of this iteration of the application.</i>
<i>build.home</i>	<i>The directory into which the "prepare" and "compile" targets will generate their output. Defaults to "build".</i>

<i>catalina.home</i>	<i>The directory in which you have installed a binary distribution of Tomcat. This will be used by the "deploy" target.</i>
<i>dist.home</i>	<i>The name of the base directory in which distribution files are created. Defaults to "dist".</i>
<i>manager.password</i>	<i>The login password of a user that is assigned the "manager-script" role (so that he or she can execute commands via the "/manager" web application)</i>
<i>manager.url</i>	<i>The URL of the "/manager" web application on the Tomcat installation to which we will deploy web applications and web services.</i>
<i>manager.username</i>	<i>The login username of a user that is assigned the "manager-script" role (so that he or she can execute commands via the "/manager" web application)</i>

-->

```

<property name="app.name" value="myapp"/>
<property name="app.path" value="/${app.name}"/>
<property name="app.version" value="0.1-dev"/>
<property name="build.home" value="${basedir}/build"/>
<property name="catalina.home" value="../../../../"/> <!-- UPDATE THIS! -->
<property name="dist.home" value="${basedir}/dist"/>
<property name="docs.home" value="${basedir}/docs"/>
<property name="manager.url"
value="http://localhost:8080/manager/text"/>
<property name="src.home" value="${basedir}/src"/>
<property name="web.home" value="${basedir}/web"/>

```

<!-- ===== External Dependencies =====
-->

<!--

Use property values to define the locations of external JAR files on which your application will depend. In general, these values will be used for two purposes:

- * Inclusion on the classpath that is passed to the Javac compiler*
- * Being copied into the "/WEB-INF/lib" directory during execution of the "deploy" target.*

Because we will automatically include all of the Java classes that Tomcat exposes to web applications, we will not need to explicitly list any of those

dependencies. You only need to worry about external dependencies for JAR files that you are going to include inside your "/WEB-INF/lib" directory.

```
-->

<!-- Dummy external dependency -->
<!--
  <property name="foo.jar"
            value="/path/to/foo.jar"/>
-->

<!-- ===== Compilation Classpath =====
-->

<!--
  Rather than relying on the CLASSPATH environment variable, Ant includes
  features that makes it easy to dynamically construct the classpath you
  need for each compilation. The example below constructs the compile
  classpath to include the servlet.jar file, as well as the other components
  that Tomcat makes available to web applications automatically, plus
  anything
  that you explicitly added.
-->

<path id="compile.classpath">
  <!-- Include all JAR files that will be included in /WEB-INF/lib -->
  <!-- *** CUSTOMIZE HERE AS REQUIRED BY YOUR APPLICATION *** -->
<!--
  <pathelement location="${foo.jar}"/>
-->

  <!-- Include all elements that Tomcat exposes to applications -->
  <fileset dir="${catalina.home}/bin">
    <include name="*.jar"/>
  </fileset>
  <pathelement location="${catalina.home}/lib"/>
  <fileset dir="${catalina.home}/lib">
    <include name="*.jar"/>
  </fileset>
</path>

<!-- ===== Custom Ant Task Definitions =====
-->

<!--
  These properties define custom tasks for the Ant build tool that interact
  with the "/manager" web application installed with Tomcat. Before they
  can be successfully utilized, you must perform the following steps:

  - Copy the file "lib/catalina-ant.jar" from your Tomcat
    installation into the "lib" directory of your Ant installation.

  - Create a "build.properties" file in your application's top-level
```

source directory (or your user login home directory) that defines appropriate values for the "manager.password", "manager.url", and "manager.username" properties described above.

For more information about the Manager web application, and the functionality

of these tasks, see

[<http://localhost:8080/tomcat-docs/manager-howto.html>](http://localhost:8080/tomcat-docs/manager-howto.html).

-->

```
<taskdef resource="org/apache/catalina/ant/catalina.tasks"
        classpathref="compile.classpath"/>
```

<!-- ===== Compilation Control Options =====

-->

<!--

These properties control option settings on the Javac compiler when it is invoked using the <javac> task.

compile.debug Should compilation include the debug option?

compile.deprecation Should compilation include the deprecation option?

compile.optimize Should compilation include the optimize option?

-->

```
<property name="compile.debug"        value="true"/>
```

```
<property name="compile.deprecation" value="false"/>
```

```
<property name="compile.optimize"     value="true"/>
```

<!-- ===== All Target =====

-->

<!--

The "all" target is a shortcut for running the "clean" target followed by the "compile" target, to force a complete recompile.

-->

```
<target name="all" depends="clean,compile"
        description="Clean build and dist directories, then compile"/>
```

<!-- ===== Clean Target =====

-->

<!--

The "clean" target deletes any previous "build" and "dist" directory, so that you can be ensured the application can be built from scratch.

-->

```
<target name="clean"
        description="Delete old build and dist directories">
    <delete dir="${build.home}"/>
    <delete dir="${dist.home}"/>
</target>
```

```
<!-- ===== Compile Target =====
-->

<!--
The "compile" target transforms source files (from your "src" directory)
into object files in the appropriate location in the build directory.
This example assumes that you will be including your classes in an
unpacked directory hierarchy under "/WEB-INF/classes".
-->
<target name="compile" depends="prepare"
description="Compile Java sources">

    <!-- Compile Java classes as necessary -->
    <mkdir dir="${build.home}/WEB-INF/classes"/>
    <javac srcdir="${src.home}"
        destdir="${build.home}/WEB-INF/classes"
        debug="${compile.debug}"
        deprecation="${compile.deprecation}"
        optimize="${compile.optimize}">
        <classpath refid="compile.classpath"/>
    </javac>

    <!-- Copy application resources -->
    <copy todir="${build.home}/WEB-INF/classes">
        <fileset dir="${src.home}" excludes="**/*.java"/>
    </copy>
</target>

<!-- ===== Dist Target =====
-->

<!--
The "dist" target creates a binary distribution of your application
in a directory structure ready to be archived in a tar.gz or zip file.
Note that this target depends on two others:
* "compile" so that the entire web application (including external
dependencies) will have been assembled
* "javadoc" so that the application Javadocs will have been created
-->

<target name="dist" depends="compile,javadoc"
description="Create binary distribution">

    <!-- Copy documentation subdirectories -->
    <mkdir dir="${dist.home}/docs"/>
    <copy todir="${dist.home}/docs">
        <fileset dir="${docs.home}"/>
    </copy>
```



```

    <!-- Create application JAR file -->
    <jar jarfile="${dist.home}/${app.name}-${app.version}.war"
        basedir="${build.home}"/>

    <!-- Copy additional files to ${dist.home} as necessary -->

</target>

<!-- ===== Install Target =====
-->

<!--
    The "install" target tells the specified Tomcat installation to
    dynamically
    install this web application and make it available for execution. It does
    *not* cause the existence of this web application to be remembered across
    Tomcat restarts; if you restart the server, you will need to re-install
    all
    this web application.

    If you have already installed this application, and simply want Tomcat to
    recognize that you have updated Java classes (or the web.xml file), use
    the
    "reload" target instead.

    NOTE: This target will only succeed if it is run from the same server
    that
    Tomcat is running on.

    NOTE: This is the logical opposite of the "remove" target.
-->

<target name="install" depends="compile"
    description="Install application to servlet container">

    <deploy url="${manager.url}"
        username="${manager.username}"
        password="${manager.password}"
        path="${app.path}"
        localWar="file://${build.home}"/>
</target>

<!-- ===== Javadoc Target =====
-->

<!--
    The "javadoc" target creates Javadoc API documentation for the Java
    classes included in your application. Normally, this is only required
    when preparing a distribution release, but is available as a separate
    target in case the developer wants to create Javadocs independently.
-->

```

```
<target name="javadoc" depends="compile"
description="Create Javadoc API documentation">

    <mkdir          dir="${dist.home}/docs/api"/>
    <javadoc sourcepath="${src.home}"
              destdir="${dist.home}/docs/api"
              packagenames="*">
        <classpath refid="compile.classpath"/>
    </javadoc>
</target>

<!-- ===== List Target =====
-->

<!--
The "list" target asks the specified Tomcat installation to list the
currently running web applications, either loaded at startup time or
installed dynamically. It is useful to determine whether or not the
application you are currently developing has been installed.
-->

<target name="list"
description="List installed applications on servlet container">

    <list      url="${manager.url}"
              username="${manager.username}"
              password="${manager.password}"/>
</target>

<!-- ===== Prepare Target =====
-->

<!--
The "prepare" target is used to create the "build" destination directory,
and copy the static contents of your web application to it. If you need
to copy static files from external dependencies, you can customize the
contents of this task.

Normally, this task is executed indirectly when needed.
-->

<target name="prepare">
    <!-- Create build directories as needed -->
    <mkdir dir="${build.home}"/>
    <mkdir dir="${build.home}/WEB-INF"/>
    <mkdir dir="${build.home}/WEB-INF/classes"/>

    <!-- Copy static content of this web application -->
    <copy todir="${build.home}">
        <fileset dir="${web.home}"/>
    </copy>
</target>
```

```

    </copy>

    <!-- Copy external dependencies as required -->
    <!-- *** CUSTOMIZE HERE AS REQUIRED BY YOUR APPLICATION *** -->
    <mkdir dir="${build.home}/WEB-INF/lib"/>
<!--
    <copy todir="${build.home}/WEB-INF/lib" file="${foo.jar}"/>
-->

    <!-- Copy static files from external dependencies as needed -->
    <!-- *** CUSTOMIZE HERE AS REQUIRED BY YOUR APPLICATION *** -->
</target>

<!-- ===== Reload Target =====
-->

<!--
    The "reload" signals the specified application Tomcat to shut itself down
    and reload. This can be useful when the web application context is not
    reloadable and you have updated classes or property files in the
    /WEB-INF/classes directory or when you have added or updated jar files in
    the
    /WEB-INF/lib directory.

    NOTE: The /WEB-INF/web.xml web application configuration file is not
    reread
    on a reload. If you have made changes to your web.xml file you must stop
    then start the web application.
-->

<target name="reload" depends="compile"
    description="Reload application on servlet container">

    <reload url="${manager.url}"
        username="${manager.username}"
        password="${manager.password}"
        path="${app.path}"/>
</target>

<!-- ===== Remove Target =====
-->

<!--
    The "remove" target tells the specified Tomcat installation to dynamically
    remove this web application from service.

    NOTE: This is the logical opposite of the "install" target.
-->

<target name="remove"

```

```
description="Remove application on servlet container">
```

```
<undeploy url="${manager.url}"
  username="${manager.username}"
  password="${manager.password}"
  path="${app.path}"/>
```

```
</target>
```

```
</project>
```

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Last update: **2022/12/03 07:45**

