

# Webapp tasks

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## 1. Webapp tasks

These tasks relate to Ant eater's ability to deploy webapps on an internal Tomcat server.

### 1.1. servletContainer

Ant eater has the ability to listen for incoming HTTP requests, which is useful in testing asynchronous SOAP. Advanced SOAP applications interact by sending asynchronous SOAP requests to each other. After the request is sent, the other party responds later with a SOAP request to the initiating party.

Listening for incoming HTTP requests is achieved by embedding the Tomcat 3.3 servlet container inside Ant eater.

servletContainer is used in conjunction with the [listener](#) element, which registers *handlers* with the servlet container. The servlet container should be started before any [listener](#) task is to be executed. Usually this is achieved by placing the servletContainer task inside an *init* target, on which all the other tasks depend upon:

```
<target name="init">
  <servletContainer port="8100, 8101"/>
</target>

<target name="my-test" depends="init">
  <listener path="/foo" ... /> <!-- Register a listener -->
  <httpRequest request="/foo" .. > <!-- Call the listener -->
</target>
```

Attribute name	Type	Default value	Description
port	Integer	8080	Defines the ports on which the servlet container should listen on. Multiple ports can be specified by enumerating them with comma or space in between.
action	String	start	What action you wish the servlet container to take. If not specified, defaults to starting the container. Possible values are start and stop.
maxThreads	Integer		Defines the maximum number of threads that can be spawned off by the servlet container when handling incoming HTTP requests.
maxSpareThreads	Integer		Defines the maximum number of spare threads that can be alive at any time.
minSpareThreads	Integer		Defines the minimum number of spare threads that should be available at all times.

Table 1: Attributes

Elements allowed inside `servletContainer`: none

## 1.2. deploy

Because Ant eater embeds a full blown servlet container in it, you can use Ant eater to quickly deploy and test your Web application. This testing is not a replacement for testing how your Web application behaves when deployed on your preferred application server however. It is provided just as a quick way for you test the features of your application much faster.

## Webapp tasks

In future, Ant eater will add the ability to deploy a Web application on external servlet containers and application servers. And since Ant eater is based on Ant, you can write a target which will start your application server right before the tests, run them and then shut it down at the end of the tests.

Attribute name	Type	Default value	Description
path	String		Specifies the <i>context</i> path where the new Web application will be accessible in the URL space of the servlet container.
webapp	String		The path to the location on the file system of the Web application. This path should point to either a .war file or to the expanded directory of the Web application.

**Table 1: Attributes**

**Elements allowed inside `deploy`:** none

### Examples

The following example shows how to deploy [Apache Cocoon](#) on Ant eater's internal servlet container.

```
<target name="deploy" depends="init" description="Run Cocoon">
  <deploy path="/cocoon" webapp="../xml-cocoon2/build/cocoon/webapp" />
  ...
</target>
```