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Configuring the Tomcat 4.1/IIS 5 Connector

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BusinessObjects 6

Windows



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Manual abstract:

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Use restrictions Patents Configuring the Tomcat 4.1/IIS 5 Connector 3 Overview Tomcat is a basic HTTP server, not very efficient at processing files other than the JSP and servlets. That is the primary reason to link Tomcat to a server such as Apache 2 or the Microsoft Information Server (IIS). Tomcat can handle the JSP and servlets, and the industrial-strength HTTP server can handle the balance of the pages. The marriage allows for a mixture of Java and Perl, PHP, ASP and other technologies that the Tomcat server cannot offer by itself.

The Tomcat server must run parallel to IIS, which is linked to Tomcat by a connector. @@@@In detail, this is what happens: 1. @@2. The filter checks the requested URL against a list of URL paths listed in a file called `uriworkermmap.properties`. 3. If the request matches one of the entries in the list of URLs, the filter transfers the request to the extension. 4. The extension collects the request parameters and forwards them to the appropriate worker using the defined protocol, such as AJP 13. 5.

The extension receives the response from the worker and then returns it to the browser. How this white paper is organized Setting up this connector requires the following steps, each of which is described in a separate section: · Installing the connector · Configuring the ISAPI redirector with a default /examples context and checking that you can serve servlets with IIS · Adding additional contexts You will find a section on Troubleshooting at the very end of this paper.

Business Objects Documentation Supplement 4 Configuring the Tomcat 4.1/IIS 5 Connector Installing the connector The Tomcat redirector requires three components: · The IIS ISAPI redirector server plugin · The `worker.properties` file · The `uriworkermmap.properties` file You must make sure each of these files is present in the required directories in your Tomcat installation. The IIS ISAPI redirector server plugin You can obtain a pre-built DLL from the Jakarta website at <http://www.jakarta.apache.org>.

The names of the files to download vary according to the connector's version (in the following, x.y.z is the version number): · Version 1 connectors are usually called `isapi_redirect_x.y.z`.

dll. · Version 2 connectors are usually called `jakarta-tomcat-connectors-jkx.y.zwin32-IIS.zip`.

Once you've downloaded the file (and unzipped it if you're using a version 2 connector), rename it as `isapi_redirect.dll` and then save it to the `c:\jakartatomcat\bin\win32\i386` directory. The `worker.properties` file `Worker.properties` is a file that describes the host(s) and port(s) used by the Tomcat processes called workers. A sample `worker.properties` file should be located in the `\conf` directory of your Tomcat installation. If you can't find the file, create one using a standard text editor, copying and pasting the text provided beginning on page 12. Make sure there is a copy of this file in `c:\jakarta-tomcat\conf` directory. The `uriworkermmap`.

`properties` file `Uriworkermmap` is a file that maps URL-Path patterns to the Tomcat workers. A sample `uriworkermmap.properties` is located in the `\conf` directory of your Tomcat installation. If you can't find the file, create one using a standard text editor, copying and pasting the text provided beginning on page 14.

Make sure there is a copy of this file in `c:\jakarta-tomcat\conf` directory. Installing the connector Configuring the Tomcat 4.1/IIS 5 Connector 5 Configuring the ISAPI redirector To configure the ISAP redirector: 1. Copy the following text into a blank Notepad file:

```
-----Windows Registry Editor Version 5.00 [HKEY_LOCAL_MACHINE\SOFTWARE\Apache Software  
Foundation\Jakarta Isapi Redirector\1.0] "extension_uri"="/jakarta/isapi_redirect.  
dll" "log_file"="c:\TomCatRedirector\logs\isapi.log" "log_level"="error" "worker_file"="c:\TomCatRedirector\conf\workers.properties"  
"worker_mount_file"="c:\TomCatRedirector\conf\uriworkermmap. @ @ 3. 4.
```

5. @@@@Save the file as `isap_redirector_reg_entries.reg`. Double-click this file in the Windows Explorer. The registry entries are created automatically. @@@@Name the new directory `jakarta`. @@@@Make sure the filter is marked with a green arrow pointing up: 8. @@@@Insert the full path to `isapi_redirect.dll`. 9. Stop then restart the IIS service. @@@@You add a new context by: 1. @@@@Each context also has a commented out setting to have Tomcat handle all requests to the context. You can rename this file (so it won't be overwritten the next time Tomcat is started) and uncomment this setting or make other customizations. You can also use this file as is in your `worker_mount_file` setting.

Business Objects Documentation Supplement 8 Configuring the Tomcat 4.1/IIS 5 Connector Advanced context configuration Sometimes it's better to have IIS serve the static pages (HTML, GIF, JPEG, etc.), even if these files are part of a context served by Tomcat. For example, in the examples context, there is no need to serve the HTML and GIF files from the Tomcat process. IIS can handle this. To make IIS serve static files that are part of the Tomcat, you must: 1.

Add the Tomcat contexts to IIS 2. Configure the redirector to leave the statis files for IIS X Adding a Tomcat context to IIS To add a Tomcat context to IIS, you must add a new IIS virtual directory that covers the Tomcat context. For example, you can add an IIS virtual directory called `/example` that covers the `c:\jakarta-tomcat\webapps\examples` directory. X Configuring the redirector to leave the static files for IIS To configure the redirector, you must specify the exact URL-Path pattern(s) that you want Tomcat to handle (usually only JSP files and servlets).



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You do this by editing the `uriworkermap.properties` file: For the examples context, replace: `/examples/*=defworker` with the following two lines:
`/examples/*.jsp=defworker /examples/servlet/*=defworker` As you can see, the second configuration is more explicit. It instructs the redirector to redirect only requests to resources under `/examples/servlet/` and resources under `/examples/` whose name ends with `.jsp`.

This is similar to the default settings for each context in the `uriworkermap.properties-auto` file. You can even be more explicit, by adding lines like this:
`/example/servletname=defworker` This instructs the redirector to redirect any requests with the URL path `/example/servletname` to the worker named `defworker`. Adding additional contexts
Configuring the Tomcat 4.1/IIS 5 Connector 9 Advanced worker configuration You may want to serve different contexts with different Tomcat processes (for example to spread the load among different machines).

@@@If you make any corrections during these steps, restart the IIS service as described above in the last step of the installation, th (type lb) worker perform weighted round-robin # load balancing with sticky sessions. @@Until then all work is redirected to peer # worker. Sample *.properties files
Configuring the Tomcat 4.1/IIS 5 Connector 13 `worker.loadbalancer.type=lb worker.loadbalancer.balanced_workers=ajp13 ## worker.tomcat_home` should point to the location where you # installed tomcat.

This is where you have your conf, webapps and lib # directories. # `worker.tomcat_home=D:\Program Files\Apache Group\Tomcat 4.1\` # # `worker.java_home` should point to your Java installation. Normally # you should have a bin and lib directories beneath it. # `worker.java_home=D:\jdk1.3.1_11` # # You should configure your environment slash.

.. `ps=\` on NT and `/` on UNIX # and maybe something different elsewhere. # `ps=\` # #----- ADVANCED MODE

-----#-----# #----- DEFAULT worker list

#-----# #-----# # The worker that your plugins should create and work with `worker.list=ajp13`

#----- DEFAULT ajp13 WORKER DEFINITION -----#----- Business Objects Documentation

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I/IIS 5 Connector # # # Defining a worker named `ajp13` and of type `ajp13` # Note that the name and the type do not have to match. # `worker.ajp13.port=8009`
`worker.ajp13.`

`host=UNICUM` Sample `uriworkermap.properties` file If you need to create your `worker.properties` file, copy the following text, then paste it in a new file in a text editor. # Simple worker configuration file # # Mount the Servlet context to the `ajp13` worker # `/servlet/*=ajp13` # Mount the examples context to the `ajp13` worker
`/examples=ajp13 /examples/*=ajp13` # Mount the examples context to the `ajp13` worker # `/doctera=ajp13 /doctera/*=ajp13` # `/uftp=ajp13`
`/uftp/*=ajp13` # Mount all jsp pages to the `ajp13` worker # `/*.jsp=ajp13` # Advanced mount of the examples context # `/examples/servlet/*=ajp13` #

***** End `uriworkermap.properties` ***** # # BusinessObjects E6.1b mounts # Added 21-04-04 by PAB Sample *.properties files Configuring the Tomcat 4.1/IIS 5 Connector 15 # If any modifications are made to this file, # restart IIS and Tomcat to rebind this file # # `wijsp` mounts # `/wijsp=ajp13`
`/wijsp/*.jsp=ajp13 /wijsp/servlet/*=ajp13 /wijsp/viewers/*.`

`jsp=ajp13` # `/wijsp/onlineguides=ajp13` # `/wijsp/onlineguides/*.jsp=ajp13` # `/wijsp/onlineguides/servlet/*=ajp13` # `/wijsp/help=ajp13` # `/wijsp/help/*.jsp=ajp13`
`/wijsp/help/servlet/*=ajp13` # `/wijsp/distribution=ajp13` # `/wijsp/distribution/*.jsp=ajp13` # `/wijsp/distribution/servlet/*=ajp13` # `wiadmin` mounts
`/wiadmin/onlineguides/*.jsp=ajp13` # `/wiadmin/onlineguides/servlet/*=ajp13` # `/wiadmin/help/*.jsp=ajp13` # `/wiadmin/help/servlet/*=ajp13`
`/wiadmin/*.jsp=ajp13` # `/wiadmin/servlet/*=ajp13` # `/wijspTest/*.jsp=ajp13` Business Objects Documentation Supplement 16 Configuring the Tomcat 4.1/IIS 5 Connector Sample *.properties files .

`jsp=ajp13` # `/wijsp/onlineguides=ajp13` # `/wijsp/onlineguides/*.jsp=ajp13` # `/wijsp/onlineguides/servlet/*=ajp13` # `/wijsp/help=ajp13` # `/wijsp/help/*.jsp=ajp13`
`/wijsp/help/servlet/*=ajp13` # `/wijsp/distribution=ajp13` # `/wijsp/distribution/*.jsp=ajp13` # `/wijsp/distribution/servlet/*=ajp13` # `wiadmin` mounts
`/wiadmin/onlineguides/*.jsp=ajp13` # `/wiadmin/onlineguides/servlet/*=ajp13` # `/wiadmin/help/*.jsp=ajp13` # `/wiadmin/help/servlet/*=ajp13`
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`jsp=ajp13` # `/wijsp/onlineguides=ajp13` # `/wijsp/onlineguides/*.jsp=ajp13` # `/wijsp/onlineguides/servlet/*=ajp13` # `/wijsp/help=ajp13` # `/wijsp/help/*.jsp=ajp13`
`/wijsp/help/servlet/*=ajp13` # `/wijsp/distribution=ajp13` # `/wijsp/distribution/*.jsp=ajp13` # `/wijsp/distribution/servlet/*=ajp13` # `wiadmin` mounts
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