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Chapter 1 : Professional Apache Tomcat 6 - Free download, Code examples, Book reviews, Online preview

Professional Apache Tomcat 6 (WROX Professional Guides) Book Title:Professional Apache Tomcat 6 (WROX Professional Guides) Tomcat is the official reference implementation of Sun's servlet and JSP specifications, and Java developers must test all Web applications on Tomcat to ensure they work as designed Boasting more than 40 percent new and updated material, this book covers all the major new.

Next page Tomcat also has a Web-based administration tool that you can use to administer the server and individual Web applications. In other words, it allows you to edit server. The following description, the discussion of realms in Chapter 12 will cover the drawbacks of the admin tool. Note The source distribution of Tomcat 5. Before you run the admin application, you must add an admin role and assign it to a user in tomcat-users. You can access it via the following URL: Listing shows the contents. Allow may be a comma-separated list of hosts or even regular expressions. As with the manager application, you can alter the security constraints and authentication settings for the admin application here. In this case, the admin application uses form-based authentication to protect the admin pages. Using the Administration Tool Each node in the left pane represents a setting you can edit. The next set of nodes after the Service node, under Resources, contains global settings for server. The final set of nodes corresponds to the settings in tomcat-users. You can add users, roles, and groups here. Each setting screen has a Save button and a Reset button. Therefore, you can make all your changes before writing to disk. This is important because when the admin application writes the changes to server. To make the changes permanent, click the Commit Changes button at the top of the admin application screen. This makes the write to server. However, the admin application creates a new server. It may be a good idea to copy the comments from the old file into the new one. The exception to the previous discussion is editing users in the default user database. As you can see, the admin tool has some drawbacks, the least of which are still to be discussed in the security chapter. Careful consideration should go into whether you need the admin tool. Remote access is its biggest advantage.

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Chapter 2 : Professional Apache Tomcat 6 by Vivek Chopra

Professional Apache Tomcat 6 (WROX Professional Guides) is aimed at the serious Tomcat user. It will be useful to people that do serious tinkering at home, but it is an absolute bible if you have Tomcat running production code or other critical uses.

Components[edit] Tomcat 4. In Tomcat, a Realm element represents a "database" of usernames, passwords, and roles similar to Unix groups assigned to those users. Different implementations of Realm allow Catalina to be integrated into environments where such authentication information is already being created and maintained, and then use that information to implement Container Managed Security as described in the Servlet Specification. At runtime, Jasper detects changes to JSP files and recompiles them. From Jasper to Jasper 2, important features were added: Tag handler class objects can be pooled and reused in the whole JSP servlet. Three new components were added with the release of Tomcat 7: Cluster[edit] This component has been added to manage large applications. It is used for load balancing that can be achieved through many techniques. Clustering support currently requires the JDK version 1. High availability[edit] A high-availability feature has been added to facilitate the scheduling of system upgrades e. This is done by dispatching live traffic requests to a temporary server on a different port while the main server is upgraded on the main port. It is very useful in handling user requests on high-traffic web applications. It also tries to manage sessions as well as applications across the network. Tomcat is building additional components. A number of additional components may be used with Apache Tomcat. These components may be built by users should they need them or they can be downloaded from one of the mirrors. Versions 5 through 6 saw improvements in garbage collection , JSP parsing, performance and scalability. Native wrappers, known as "Tomcat Native", are available for Microsoft Windows and Unix for platform integration. The minimum Java version and implemented specification versions remain unchanged. He later helped make the project open source and played a key role in its donation by Sun Microsystems to the Apache Software Foundation. He came up with Tomcat since he reasoned the animal represented something that could fend for itself.

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Chapter 3 : Free Code Downloads for Programmers -- ASP NET, C++, Javascript, and More! - Wrox

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The Java class of the valve. This must be org. Yes condition Turns conditional logging on. If set, the access log valve logs requests only if ServletRequest. For example, if this value is set to userId, then a particular request will be logged only if ServletRequest. No directory The directory where the log files will be placed. The default is logs. No fileDateFormat Allows a customized date format in the access log filename. The date format also decides how often the file is rotated. If you want to rotate every hour, then set this value to yyyy-MM-dd. No pattern Specifies the format used in the log. You can customize the format, or you can use common or combined as the format the common format plus the referrer and user-agent are logged. To customize the format, you can use any of the following patterns interspersed with a literal string: Inserts remote IP address. Inserts bytes sent count, excluding HTTP headers, shows - if zero. Inserts bytes sent count, excluding HTTP headers. Time taken to process the request, in milliseconds. Inserts remote hostname or IP address if the resolveHosts attribute is set to false. Inserts the request protocol HTTP. Inserts the local TCP port where this request is received. Inserts the query string of this request. Inserts the first line of the request. Inserts the HTTP status code of the response. Inserts the user session ID. Inserts the date and time in common log file format. Time taken to process the request, in seconds. Inserts the URL path of the request. Inserts the name of the local virtual host from the request. Use this for incoming headers, where xxx is the header. Use this for a specific cookie, where xxx is the name of the cookie. Use this for ServletRequest attributes, where xxx is the attribute. Use this for HttpSession attributes, where xxx is the attribute. No The prefix added to the name of the log file. This can take significant time if enabled. The default is false. No rotatable Determines if log rotation should occur. If false, then this file is never rotated and the fileDateFormat attribute is ignored. Use this attribute with caution because the log file could grow very large indeed. The default is true. No The extension added to the name of the log file. No Examining an Example Access Log Valve This section contains an example access log valve to demonstrate the attributes listed in Table By default, the access log valves in server. This does, however, make it easy to activate them. The access log valve is configured after the large comment section see Listing The Access Log Valve in server. As noted in Chapter 6, the admin application rewrites a new server. This means that comments are lost, even if they contain useful default components. The good news is that the old server. You should see the default Tomcat welcome page. You should experiment with other access log valve configurations, such as valves at the context level, which you configure in the appropriate context XML file, and valves at the engine level. This way you can use tools to analyze access at various levels of the server. You can use this facility to block access to admin resources except for users who are on the local machine or an admin-only machine. Other options can include blocking denial-of-service DoS attacks or denying access to sales data for nonsales personnel, and so on. Two types of request filter valves exist: Table shows the attributes of the remote address valve. No The Java class of the valve. Listing shows the scenario where both conditions are allowed assuming the admin machine has You should see the page as usual. Now remove the Visit the same page, and you should be blocked, as shown in Figure These are part of a Web application and can be used to show custom error pages. You can also achieve this effect by denying access to the localhost: The only differences between the two are the class that implements the valve and the values of the regular expressions. In the case of the remote host request filter valve, the class is org. RemoteHostValve, and the regular expressions are hostnames instead of IP addresses. Request Dumper Valve The request dumper valve allows you to debug Web applications by dumping the headers and cookies of requests and responses to a log. You can use it for the following: Checking how the scope of a valve affects the requests that are processed Debugging other valves and any other

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request-processing components that are configured on the server To configure a request dumper valve, modify server. Each line of the log has INFO priority. Once your request has been processed, open the appropriate log file. You should see something similar to Listing The version of Tomcat and the settings of your logger will affect this, though the messages will be the same. A word of warning, though: This may affect Web applications on the server because calls to request. The valve then associates the new request with the existing user credentials and allows the user to visit protected resources. This is one of the main reasons for having a common realm for the host. Table describes the attributes of the single sign-on valve.

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Professional Apache Tomcat 6 has 23 ratings and 1 review. Tomcat is the official reference implementation of Sun's servlet and JSP specifications, and Ja.

General Back cover copy The Apache Tomcat server and related technologies give Java™ developers a rich set of tools to quickly build more sophisticated Web applications. This completely updated volume offers you a thorough education in Tomcat 5 as well as 4. You will learn to solve the problems that arise with installation and configuration, security, system testing, and more. This book is for J2EE™ system administrators and Java developers with responsibilities for Tomcat configuration, performance tuning, system security, or deployment architecture. Wrox Professional guides are planned and written by working programmers to meet the real-world needs of programmers, developers, and IT professionals. Focused and relevant, they address the issues technology professionals face every day. They provide examples, practical solutions, and expert education in new technologies, all designed to help programmers do a better job. Apache and Jakarta Tomcat. Tomcat and Apache Server. He has worked and consulted at a number of Silicon Valley companies including Hewlett-Packard, Sun, and currently Sony and startups. Sing Li, bitten by the microcomputer bug since , has grown up with the Microprocessor Age. Currently, Sing is a consultant, system designer, open-source software contributor, and freelance writer specializing in Java technology, as well as embedded and distributed systems architecture. He writes for several popular technical journals and e-zines, and is the creator of the "Internet Global Phone," one of the very first Internet telephones available. Ben Galbraith was introduced to Java in , and has since become something of a Java enthusiast. He actively tinkers on several open-source projects and participates in the Java Community Process. Jon Eaves is the Chief Technology Officer of ThoughtWorks Australia and has more than 15 years of software development experience in a wide variety of application domains and languages. He can be reached at jon.eaves. Amit Bakore is a Sun-certified Web component developer and Java programmer. His areas of interest include open-source technologies and satellite-launching vehicles. He can be reached at bakoreamit@yahoo. Amit dedicates this work to his parents, Dr. He previously worked as a technical architect with Wrox Press, editing, architecting, and contributing to Java books.

Chapter 5 : BOOK: Professional Apache Tomcat

Helps you uncover the ins-and-outs of installing, configuring, and running the Apache Tomcat server. This book provides a line-by-line analysis of configuration options.

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