

# How Tomcat Works A To Developing Your Own Java Servlet Container

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## ANASTASIA WALSH

**Professional Apache Tomcat 5** Brainy Software Inc  
With literally hundreds of examples and thousands of lines of code, the Java Servlet and JSP Cookbook yields tips and techniques that any Java web developer who uses JavaServer Pages or servlets will use every day, along with full-fledged solutions to significant web application development problems that developers can insert directly into their own applications. Java Servlet and JSP Cookbook presents real-world problems, and provides concise, practical solutions to each. Finding even one tested code "recipe" that solves a gnarly problem in this comprehensive collection of solutions and best practices will save hours of frustration--easily justifying the cost of this invaluable book. But "Java Servlet and JSP Cookbook" is more than just a wealth of cut-and-paste code. It also offers clear explanations of how and why the code works, warns of potential pitfalls, and directs you to sources of additional information, so you can learn to adapt the problem-solving techniques to similar situations. These recipes include vital topics like the use of Ant to setup a build environment, extensive coverage of the WAR file format and web.xml deployment descriptor, file-uploading, error-handling, cookies, logging, dealing with non-HTML content, multimedia, request filtering, web services, I18N, web services, and a host of other topics that frustrate even the most seasoned developers. For Java web developers of all levels who are eager to put into practice the theory presented in other API-focused books, the solutions presented in this practical book will prove invaluable

over and over again. This is painless way for less experienced developers who prefer to learn by doing to expand their skills and productivity, while accomplishing practical solutions to the pressing problems they face every day. More experienced developers can use these recipes to solve time-consuming problems quickly, freeing up their time for the more creative aspects of their work.

*Apache Jakarta-Tomcat* Sams Publishing

Provides information on using Tomcat 4 and 5, covering such topics as developing Java web servers, containers, loaders, security, and configuration work.

*Tomcat Rio* John Wiley & Sons

This book is a step-by-step tutorial for anyone wanting to learn Apache Tomcat 7 from scratch. There are plenty of illustrations and examples to escalate you from a novice to an expert with minimal strain. If you are a J2EE administrator, migration administrator, technical architect, or a project manager for a web hosting domain, and are interested in Apache Tomcat 7, then this book is for you. If you are someone responsible for installation, configuration, and management of Tomcat 7, then too, this book will be of help to you.

**Apache Tomcat 7 Essentials** Apress

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 features affecting server administration and management. Explores the additional built-in tools of Tomcat, which help Java developers program more efficiently, and looks at how Apache's other open source servlet/JSP technologies are

designed to work with Tomcat. Features full coverage of Release 6, which supports the latest JSP and servlet specifications: JSP 2.1 and Servlets 2.5. Addresses solving real-world problems encountered during all phases of server administration, including managing class loaders and connectors, security, shared hosting and clustering, and system testing.

*Practical AWS Networking* Apress

& A comprehensive book that covers everything from Tomcat installation to advanced topics relating to deploying Tomcat at the enterprise level. & Shows the reader how to exploit new Tomcat 5.x capabilities to optimize performance and enhance scalability and reliability. & Author has deployed over one hundred complex Web applications on Tomcat.

*Tomcat 5 Unleashed* MMD-Squadron Signal

A CLASSIC FROM THE NEW YORK TIMES BESTSELLING AUTHOR OF THE THINGS THEY CARRIED In this wildly funny, brilliantly inventive novel, Tim O'Brien has created the ultimate character for our times. Thomas Chippering, a 6'6" professor of linguistics, is a man torn between two obsessions: the desperate need to win back his former wife, the faithless Lorna Sue, and a craving to test his erotic charms on every woman he meets. But there are complications, including Lorna Sue's brother, Herbie, with whom she has an all-too-close relationship, and the considerable charms of Chippering's new love, the attractive, and of course already married, Mrs. Robert Kooshof, who may at last satisfy Chippering's longing for intimacy. In *Tomcat in Love*, Tim O'Brien takes on the battle of the sexes with astonishing results. By turns hilarious, outrageous, romantic, and deeply moving, this is one of the most talked about novels in years: a novel for this and every age.

### **Sams Teach Yourself JavaServer Pages 2.0 with Apache Tomcat in 24 Hours, Complete Starter Kit** Apress

Get your RPG or COBOL applications on the Web in Under One Day! Get WebFacing up and running, using Tomcat on your iSeries. There is no software to buy, no recoding, no Java, no HTML, no JavaScript, and no CGI or complicated APIs. Many iSeries shops want to get started with WebFacing, but don't have a version of WebSphere Application Server (WAS) on their iSeries. Fortunately, there is a no-charge alternative to WAS that ships with OS/400: the Tomcat server. Tomcat is provided as part of the IBM HTTP Server for iSeries Licensed Program Product. Using Tomcat, you can run the servlets and JavaServer Pages (JSP) that are generated from WebSphere Development Studio Client for iSeries when you create a WebFacing application. WebFacing Now! Tomcat Edition takes you step-by-step through the installation and configuration process. It covers converting DDS screens into WebFacing code in the Tomcat Test Environment on your PC. You'll then see how to configure, start and test Tomcat on your iSeries and bring up your new web apps served from your iSeries in your PC browser. Your users will stand up and applaud! What you need: OS/400 V5R1M0, OS/400 V5R2M0, or OS/400 V5R3M0 and Tomcat 3.2.4 (shipped as part of Licensed Program Product 5722-DG1, IBM HTTP Server). You will also need one of the following IBM development tools for your PC: WebSphere Development Studio Client for iSeries, version 5.0, WebSphere Development Studio Client Advanced Edition for iSeries, version 5.0, WebSphere Development Studio Client for iSeries, version 5.1, or WebSphere Development Studio Client Advanced Edition for iSeries, version 5.1. Note: WDSCi 5.0 or WDSCi 5.1 are shipped with the IBM Licensed Program Product, 5722-WDS WebSphere Development ToolSet. If you have the RPG or COBOL compiler installed on your iSeries, you should also have a copy of the PC tools. You will get a step-by-step manual with these sections: 1. Install WDSCi on your PC - complete instructions to install and configure the toolset you'll use for WebFacing. 2. Install and configure the Java Development Kit and Tomcat on your PC. This configuration provides the support for testing your WebFacing application in the WDSCi test environment. 3. Convert DDS screens to WebFacing applications - a step-by-step guide to using the WebFacing tool in WDSCi to convert the sample DDS screens. 4. Configure an HTTP Server (powered by Apache) and Tomcat on

the iSeries - a "how-to" guide to configure Tomcat on the iSeries to run your WebFacing application. 5. Export and run your WebFacing application - how to copy (export) your WebFacing code from your PC to Tomcat on the iSeries, and how to get your WebFacing application up and running on the iSeries. You will get a CD-ROM with example source code and other required code: Complete RPG and DDS source code for the examples, Sun Java Development Kit (version 1.3.1.11), used for the Tomcat test environment, and Tomcat server (version 3.2.4) for Windows so that you can quickly configure your PC test environment. You will need to: Install and configure WDSCi on your PC, connect to your iSeries from WDSCi, convert DDS screens to WebFacing applications, install and work with the Tomcat test environment on your PC, export (copy) your WebFacing application from your PC to your iSeries IFS, configure and run Tomcat on your iSeries, and install and work with your WebFacing application, served from your iSeries. Upon completion you'll be able to: work with WDSCi on your PC to create WebFacing applications, configure and work with the HTTP server and Tomcat on your iSeries, create WebFacing applications using your programs and DDS display files, work with WDSCi and the IFS to export your WebFacing applications from the PC to your iSeries, and run your programs as WebFacing applications in your browser, served from Tomcat on your iSeries.

#### Apache Tomcat 7 John Wiley & Sons

Jakarta Tomcat is not only the most commonly used open source servlet engine today, it's become the de facto standard by which other servlet engines are measured. Powerful and flexible, it can be used as a stand-alone web server or in conjunction with another server, like Apache or IIS, to run servlets or JSPs. But mastery of Tomcat is not easy: because it's as complex as it is complete. Tomcat: The Definitive Guide answers vexing questions that users, administrators, and developers alike have been asking. This concise guide provides much needed information to help harness Tomcat's power and wealth of features. Tomcat: The Definitive Guide offers something for everyone who uses Tomcat. System and network administrators will find detailed instructions on installation, configuration, and maintenance. For users, it supplies insightful information on how to deploy Tomcat. And seasoned enterprise Java developers will have a complete reference to setting up, running, and using this powerful software

The book begins with an introduction to the Tomcat server and includes an overview of the three types of server configurations: stand-alone, in-process, and out-of-process. The authors show how directories are laid out, cover the initial setup, and describe how to set the environment variables and modify the configuration files, concluding with common errors, problems, and solutions. In subsequent chapters, they cover: The server.xml configuration file Java Security manager Authentication schemes and Tomcat users The Secure Socket Layer (SSL) Tomcat JDBC Realms Installing servlets and Java Server Pages Integrating Tomcat with Apache Advanced Tomcat configuration and much more. Tomcat: The Definitive Guide covers all major platforms, including Windows, Solaris, Linux, and Mac OS X, contains details on Tomcat configuration files, and has a quick-start guide to get developers up and running with Java servlets and JavaServer Pages. If you've struggled with this powerful yet demanding technology in the past, this book will provide the answers you need.

**Beginning JSP, JSF and Tomcat** Sams Publishing  
Servlet and JavaServer Pages (JSP) are the underlying technologies for developing web applications in Java. They are essential for any programmer to master in order to effectively use frameworks such as JavaServer Faces, Struts 2, or Spring MVC. Covering Servlet 3.1 and JSP 2.3, this book explains the important programming concepts and design models in Java web development as well as related technologies and new features in the latest versions of Servlet and JSP. With comprehensive coverage and a lot of examples, this book is a guide to building real-world applications.

#### *F-14 Tomcat in Action* Simon and Schuster

\*Covers only Tomcat 5/5.5 release without explaining tasks on older versions; competitors still only offer Tomcat 4. \*Focuses on administration, while competing books rehash JSP and Servlet development. \*Solo author means a single voice. Competitors are all collaborations.

#### **Hands-On Web Penetration Testing with Metasploit**

"O'Reilly Media, Inc."

Equipped with well-balanced air wings, huge aircraft carriers have formed the backbone of the United States Navy's doctrine and strategy since the Second World War. Packing an enormous punch, their purpose is to exercise control over enormous

portions of airspace - in the offence or defence. From the mid-1970s until the mid-2000s, the spear tip of the USN air wings was the famous Grumman F-14 Tomcat - widely considered one of the finest air superiority systems in the world. Originally designed as a fast, manoeuvrable and well-armed fighter, the Tomcat entered service as the ultimate long-range fleet defender and became the biggest, most complex and most expensive naval aircraft of its time. Including a unique and exceptional combination of flight characteristics, detection systems and weapons, it earned itself the status of a legend by the mid-1980s. The F-14 Tomcats of the US Navy achieved their first aerial victories during freedom of navigation exercises off Libya in 1981. However, the period during which they saw most combat followed several years later, during Operations Earnest Will and then Desert Storm, from 1987 until 1991. To date, very little has been published about the operations in question. Indeed, the widespread belief is that USN F-14s saw next to no air combat against Iran, and even less so during Operation Desert Storm in 1991. As so often, the reality is entirely different: Tomcats engaged dozens of opponents, often on the verge of the engagement envelope of their powerful AWG-9 radars and AIM-54 Phoenix long-range air-to-air missiles, and sometimes at such close ranges that their pilots selected 'guns'. Weather- and communications-related problems, but also the incredible discipline of their crews prevented them from scoring up to a dozen aerial victories: however, it is perfectly possible that they scored at least one, perhaps more previously entirely unknown aerial victories - and also lost one of their own to an enemy fighter. Richly illustrated by over 100 photographs and authentic colour profiles, 'Tomcats of the Storm' is an exclusive source of reference about some of the least-well known air combats fought by US Navy's fighter crews in recent history.

[Beginning Jakarta EE Web Development](#) Apress

The one-stop-source powering Apache Tomcat success, jam-packed with ready to use insights for results, loaded with all the data you need to decide how to gain and move ahead. Based on extensive research, this lays out the thinking of the most successful Apache Tomcat knowledge experts, those who are adept at continually innovating and seeing opportunities. This is the first place to go for Apache Tomcat innovation - INCLUDED are numerous real-world Apache Tomcat blueprints, presentations

and templates ready for you to access and use. Also, if you are looking for answers to one or more of these questions then THIS is the title for you: How does Apache Tomcat work internally? What is Apache Tomcat? How do I use Apache Tomcat? What are the largest Apache Tomcat deployments? What's the difference between Glassfish and Apache Tomcat? Does WebLogic use Apache Tomcat? How? What are the differences between JBoss, GlassFish, and Apache Tomcat servers? How does Apache Tomcat work? What do you dislike about Apache Tomcat? Does Apache Tomcat require Apache? Why? In Apache Tomcat, where did the name Catalina come from? Explain the big picture: How do Apache Tomcat, MySQL database, Servlets and JSP's, HTML/CSS/Javascript and jQuery work together? Can the Apache Tomcat server handle a large number of users? What do you find most annoying about Apache Tomcat? What website has some intuitive apache tomcat tutorials? How well does the Apache Tomcat server scale? Can I call Apache tomcat as a software? What's the best way to integrate nginx with Apache Tomcat? What tools can I use to mine data from large Apache Tomcat log files? ...and much more...

### **Beginning JSP , JSF and Tomcat Web Development**

Createspace Independent Publishing Platform

"Packed with real-world code examples and in-depth case studies accompanied by fully working applications, this book introduces the many new features of JSP 2.0 while emphasizing good Web development practices. - Along the way, you'll examine how JSP interacts with other Enterprise Java technologies and you'll be challenged to apply your new JSP programming skills to real-world projects. - "This book is for novice programmers who have basic programming experience either in Java or a Web scripting language and want to become fluent in JSP."--BOOK JACKET.

*Apache Tomcat Complete Self-Assessment Guide* Crown

What is Apache Tomcat's impact on utilizing the best solution(s)? Is the Apache Tomcat process severely broken such that a re-design is necessary? What's the best design framework for Apache Tomcat organization now that, in a post industrial-age if the top-down, command and control model is no longer relevant? Does the Apache Tomcat task fit the client's priorities? How do we improve Apache Tomcat service perception, and satisfaction? Defining, designing, creating, and implementing a process to solve a business challenge or meet a business objective is the

most valuable role... In EVERY company, organization and department. Unless you are talking a one-time, single-use project within a business, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' For more than twenty years, The Art of Service's Self-Assessments empower people who can do just that - whether their title is marketer, entrepreneur, manager, salesperson, consultant, business process manager, executive assistant, IT Manager, CxO etc... - they are the people who rule the future. They are people who watch the process as it happens, and ask the right questions to make the process work better. This book is for managers, advisors, consultants, specialists, professionals and anyone interested in Apache Tomcat assessment. All the tools you need to an in-depth Apache Tomcat Self-Assessment. Featuring 486 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Apache Tomcat improvements can be made. In using the questions you will be better able to: - diagnose Apache Tomcat projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Apache Tomcat and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Apache Tomcat Scorecard, you will develop a clear picture of which Apache Tomcat areas need attention. Included with your purchase of the book is the Apache Tomcat Self-Assessment downloadable resource, which contains all questions and Self-Assessment areas of this book in a ready to use Excel dashboard, including the self-assessment, graphic insights, and project planning automation - all with examples to get you started with the assessment right away. Access instructions can be found in the book. You are free to use the Self-Assessment contents in your presentations and materials for customers without asking us - we are here to help. [In the Claws of the Tomcat](#) O'Reilly Media The first book that shows how to harness the full power of open-



source tools to build a free J2EE development platform without using any commercial products. Tools covered include Apache Tomcat, Struts, Jetspeed, MySQL, Joram, and jBoss. Shows developers how to integrate all of the most popular open-source tools into a single, integrated platform. Companion Web site provides source code plus a fully working example of the development platform created in the book.

*MySQL and JSP Web Applications* John Wiley & Sons  
Start building Java-based web applications now, even if you're a complete newcomer to Java. Comprehensive and example-driven, this book is all you need to develop dynamic Java-based web applications using JSP, connect to databases with JSF, and put them into action using the popular open source Java web server, Apache Tomcat. Beginning Jakarta EE Web Development is a comprehensive introduction to building Java-based web applications using JavaServer Pages (JSP) using Jakarta Server Pages, JavaServer Faces (JSF) using Jakarta Server Faces, and the Apache Tomcat web application server. Other APIs including JSON and the XML-based job specification language (JSL) are covered along the way. Key concepts are made easy to grasp with numerous working examples and a walk-through of the development of a complete ecommerce project. This book is written for professionals by practicing Java web application professionals and experts. What You Will Learn Build Java-based web applications using JSP and JSF with Eclipse Jakarta EE Use the new Jakarta Server Faces APIs to create JSF applications Work with the new Jakarta Server Pages APIs to create JSPs Integrate and implement JSF and JSP together Build an online ecommerce web application along the way Who This Book Is For Programmers new to programming in Java and programming in general.

*Tomcat in Love* John Wiley & Sons  
Java for Web with Servlets, JSP and EJB is the one book you need to master Java web programming. It covers all the technologies needed to program web applications in Java using Servlets 2.3, JSP 1.2, EJB 2.0 and client-side programming with JavaScript. These technologies are explained in the context of real-world projects, such as an e-commerce application, a document management program, file upload and programmable file download, and an XML-based online book project. In addition to excellent content, this book includes licenses to two Java web components from BrainySoftware.com. You receive a full license

of the Programmable File Download component for commercial and non-commercial deployment. You are also granted to a license to deploy the author's popular File Upload bean for non-commercial use, which has been licensed by the Fortune 500 company Commerce One and purchased by major corporations such as Saudi Business Machine, Ltd. and Baxter Healthcare Corporation.

*Java for the Web with Servlets, JSP, and EJB* Packt Publishing Ltd  
JavaServer Pages (JSP) has built a huge following since the release of JSP 1.0 in 1999, providing Enterprise Java developers with a flexible tool for the development of dynamic web sites and web applications. While new point releases over the years, along with the introduction of the JSP Standard Tag Library (JSTL), have incrementally improved the rough areas of the first version of the JSP specification, JSP 2.0 takes this technology to new heights. JavaServer Pages, Third Edition, is completely revised and updated to cover the JSP 2.0 and JSTL 1.1 specifications. It includes detailed coverage of the Expression Language (EL) incorporated into JSP 2.0, the JSTL 1.1 tag libraries and the new function library, the new tag file format that enables custom tag library development without Java code, the simplified Java tag library API, improvements in the JSP XML syntax, and more. Further, it details setup of the Apache Tomcat server, JSP and JSTL syntax and features, error handling and debugging, authentication and personalization, database access, XML processing, and internationalization. This book recognizes the different needs of the two groups of professionals who want to learn JSP: page authors interested in using JSP elements in web pages, and programmers concerned with learning the JSP API and using JSP effectively as a part of an enterprise application. If you're in the first group, you'll learn from the practical web application examples in the second part of the book. If you're in the latter group, you'll appreciate the detailed coverage of advanced topics in the third part, such as how to integrate servlets and JavaBeans components with JSP using the popular Apache Struts MVC framework, and how to develop custom tag libraries using the JSP API, with realistic examples that you can use as a springboard for your own libraries." Hans Bergsten, a JSP expert group veteran and one of our most active contributors, has thoroughly and accurately captured the new features of JSP 2.0

and JSTL 1.1 in a way that is well-organized and easy to understand. With excellent, to-the-point examples, this book is a 'must have' for any serious JSP 2.0 developer."--Mark Roth, JSP 2.0 Specification Lead, Sun Microsystems, Inc. Hans Bergsten is the founder of Gefion Software, a company focused on Java services and products based on J2EE technologies. Hans has been an active participant in the working groups for both the servlet and JSP specifications since their inception and contributes to other related JCP specifications, such as JSP Standard Tag Library (JSTL) and JavaServer Faces (JSF), and, as one of the initial members of the Apache Jakarta Project Management Committee, helped develop the Apache Tomcat reference implementation for the servlet and JSP specifications.

*J2EE Open Source Toolkit* Apress  
Learn how to use Tomcat to quickly build more sophisticated Web applications. This comprehensive introduction to developing complex Web applications using Tomcat and related Apache Jakarta technologies examines everything you need to know about Tomcat 4—the popular, award-winning server for implementing and deploying servlets and JavaServer Pages. Tomcat helps developers create dynamic Web content without the problems associated with other methods, like CGI scripts. Author Peter Harrison has written the first book to cover Tomcat from a developer's perspective. He shows you how to use Tomcat by itself as well as with related Apache Jakarta technologies to develop dynamic Web applications, and you'll also learn techniques for improving your programming productivity. This practical, guide is packed with source code and examples of real-world Web applications. Plus, you'll discover other exciting features of Tomcat, including: A code-intensive guide to building Web applications that run on Tomcat. Details on using other Apache Jakarta technologies—including Struts, Taglibs, Velocity, and CVS—with Tomcat to form a comprehensive Java Web development process. Complete guidelines for installing, configuring, and administering Tomcat, including coverage of the new Manager application and Web application deployment process. The companion Web site contains: All source code from the book. Working demonstrations. Links to additional resources.

**Mastering Tomcat Development** 5starcooks  
Build better web applications by learning how a servlet container actually works.