

Pro Apache JMeter Web Application Performance Testing

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Pro Apache Struts with Ajax - Kunal Mittal 2007-05-02

In this book, the authors take an application-centric approach: the development of an application drives the Struts along with Ajax coverage, rather than the other way around. Chapter titles include: What We Do Wrong: Web Antipatterns Explained; Managing Business Logic with Struts; Architecting the Data Access Tier with ObjectRelationalBridge; Building Flexible Front-Ends with the Tiles Framework; Dynamic Forms using Ajax and the Struts Validator Framework; Speeding Struts Development with XDoclet, and Logging and Debugging. Appendices discuss JavaEdge setup, Struts development tools, and Apache Struts Ti/WebWork. The end result: you will learn to use Struts very effectively!

Microservices from Theory to Practice: Creating Applications in IBM Bluemix Using the Microservices Approach - Shahir Daya 2016-04-04

Microservices is an architectural style in which large, complex software applications are composed of one or more smaller services. Each of these microservices focuses on completing one task that represents a small business capability. These microservices can be developed in any programming language. They communicate with each other using language-

neutral protocols, such as Representational State Transfer (REST), or messaging applications, such as IBM® MQ Light. This IBM Redbooks® publication gives a broad understanding of this increasingly popular architectural style, and provides some real-life examples of how you can develop applications using the microservices approach with IBM Bluemix™. The source code for all of these sample scenarios can be found on GitHub (<https://github.com/>). The book also presents some case studies from IBM products. We explain the architectural decisions made, our experiences, and lessons learned when redesigning these products using the microservices approach. Information technology (IT) professionals interested in learning about microservices and how to develop or redesign an application in Bluemix using microservices can benefit from this book.

Professional Apache Tomcat 5 - Vivek Chopra 2004-05-28

What is this book about? The Apache Tomcat server and related technologies give Java developers a rich set of tools to quickly build more sophisticated Web applications. Tomcat version 5 supports the latest JSP and Servlet specifications, JSP 2.0, and Servlets 2.4. This completely updated volume offers you a thorough education in Tomcat 5 as well as 4.1.

What does this book cover? You will learn to solve the problems that arise with installation and configuration, security, system testing, and more. This edition also introduces you to Tomcat clustering for planning and deploying installations in mission-critical production environments, and explores the new support for Tomcat in popular IDEs, such as IntelliJ IDEA, Eclipse, NetBeans/Sun Java Studio, and JBuilder. You'll discover how to manage class loaders and Connectors, understand how to use IIS as a Web server front-end for Tomcat, examine JDBC-related issues in Tomcat, and be ready to put this technology to work. Here are some other things you'll learn from this book: Techniques and troubleshooting tips for installing JVM and Tomcat on Windows and UNIX/Linux systems Detailed Tomcat configuration, such as Access log administration, Single Sign-on across Web applications, request filtering, the Persistent Session Manager, and JavaMail session setup How to resolve JDBC connectivity issues, including connection pooling, JNDI emulation, configuring a data source, and alternative JDBC configurations How to use Web servers like Apache and IIS with Tomcat to serve static content A wide range of security issues, from securing Tomcat installations to configuring security policies for Web applications that run on them How to configure Tomcat for virtual hosting environments Procedures for load-testing Web applications deployed in Tomcat using the open source JMeter framework How to set up Tomcat clustering to provide scalability and high availability to Web applications How to embed Tomcat within custom applications Who is this book for? This book is for J2EE system administrators and Java developers with responsibilities for Tomcat configuration, performance tuning, system security, or deployment architecture.

Pro Apache Tomcat 6 - Matthew Moodie
2007-04-30

60-80% of Java developers require only simple Java Web applications. For these advanced, specialized users, the optimal deployment tool for simple Java-based Web applications is the open source Tomcat Web application server, which has graduated from Jakarta to become a topline Apache project, Apache Tomcat. *Pro Apache Tomcat 6* fills an important need in the

very large, very under-served Tomcat tech market. Unlike beginner manuals, this book wastes no time on Java or JSP introductions, and discusses JSP and Java code minimally. Instead, it gets right to the point and teaches you to use the newest Tomcat, version 6.

Pro Apache Tomcat 5/5.5 - Matthew Moodie
2007-03-01

*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.

Dynatrace Performance Monitoring Tool and Real Time Performance Issues - Surya Narayanaraju Kosuri
2017-01-02

This book gives the quality and best product released into the market and becoming the product so successful we can discuss about the product very interestingly but the product success key factor is depends upon on how well the performance of application is handled. Basic understanding of Dynatrace tool for Application performance management usage for identifying the performance issues Introduction to HP sitescope and Wily Introscope. Introduction to Splunk and its certification questions LoadRunner performance issues [The Art of Application Performance Testing](#) - Ian Molyneaux
2009-01-23

This practical book provides a step-by-step approach to testing mission-critical applications for scalability and performance before they're deployed -- a vital topic to which other books devote one chapter, if that. Businesses today live and die by network applications and web services. Because of the increasing complexity of these programs, and the pressure to deploy them quickly, many professionals don't take the time to ensure that they'll perform well and scale effectively. [The Art of Application Performance Testing](#) explains the complete life cycle of the testing process, and demonstrates best practices to help you plan, gain approval for, coordinate, and conduct performance tests on your applications. With this book, you'll learn to: Set realistic performance testing goals Implement an effective application performance testing strategy Interpret performance test

results Cope with different application technologies and architectures Use automated performance testing tools Test traditional local applications, web-based applications, and web services (SOAs) Recognize and resolves issues that are often overlooked in performance tests Written by a consultant with 30 years of experience in the IT industry and over 12 years experience with performance testing, this easy-to-read book is illustrated with real-world examples and packed with practical advice. The Art of Application Performance Testing thoroughly explains the pitfalls of an inadequate testing strategy and offers you a robust, structured approach for ensuring that your applications perform well and scale effectively when the need arises. "Ian has maintained a vendor-agnostic methodology beautifully in this material. The metrics and graphs, along with background information provided in his case studies, eloquently convey to the reader, 'Methodology above all, tools at your discretion...' Ian's expertise shines through throughout the entire reading experience."-- Matt St. Onge, Enterprise Solution Architect, HCL Technologies America / Teradyne

Pro JSP 2 - Simon Brown 2006-11-05

* J2EE 5 compliant - Pro JSP 2 will be latest/first book that contains JSP 2.1 that's in the new J2EE 5 platform. * Covers integration and use with open source projects such as Apache Struts, Ant, XDoclet, JUnit, and Cactus. It also includes all the rich features of JSP 2 as well as adds JavaServer Faces (JSF) interoperability and integration with JSP. * Shows the reader best persistence options, security means, performance optimization, and design patterns and best practices.

Performance Testing with JMeter - Second Edition - Bayo Erinle 2015-04-24

This book is great for developers, quality assurance engineers, testers, and test managers new to Apache JMeter, or those who are looking to get a good grounding in how to effectively use and become proficient with JMeter. No prior testing experience is required.

The HitchHiking Guide to Load Testing Projects - Leandro Melendez 2021-09

SOFTWARE TESTING : A Practical Approach - SANDEEP DESAI 2016-01-30

This thoroughly revised and updated book, now in its second edition, intends to be much more comprehensive book on software testing. The treatment of the subject in the second edition maintains to provide an insight into the practical aspects of software testing, along with the recent technological development in the field, as in the previous edition, but with significant additions. These changes are designed to provide in-depth understanding of the key concepts. Commencing with the introduction, the book builds up the basic concepts of quality and software testing. It, then, elaborately discusses the various facets of verification and validation, methodologies of both static testing and dynamic testing of the software, covering the concepts of structured group examinations, control flow and data flow, unit testing, integration testing, system testing and acceptance testing. The text also focuses on the importance of the cost-benefit analysis of testing processes, test automation, object-oriented applications, client-server and web-based applications. The concepts of testing commercial off-the-shelf (COTS) software as well as object-oriented testing have been described in detail. Finally, the book brings out the underlying concepts of usability and accessibility testing. Career in software testing is also covered in the book. The book is intended for the undergraduate and postgraduate students of computer science and engineering for a course in software testing.

Professional Knowledge for IBPS & SBI Specialist IT Officer Exam with 15 Practice Sets 4th Edition - Disha Experts 2018-11-19

The new edition of Disha's bestseller Professional Knowledge for IBPS & SBI Specialist IT Officer Exam 4th edition is updated with 2018 Solved Paper, new questions in each test + 5 New Practice Sets. The book contains 11 chapters and each chapter provides theory as per the syllabi of the recruitment examination. The chapters in the book provides exercises to help aspirants practice the concepts discussed in the chapters. Each chapter in the book contains ample number of questions designed on the lines of questions asked in previous years' Specialist IT Officer Exams. The book covers 2000+ useful questions for Professional Knowledge. The new edition also contains 15 Practice Sets designed

exactly as per the latest pattern to boost the confidence of the students.

Pro Apache JMeter - Sai Matam 2017-08-17

Quickly ramp up your practical knowledge of Apache JMeter for software performance testing and focus on actual business problems. This step-by-step guide covers what you will need to know to write and execute test scripts, and verify the results. *Pro Apache JMeter* covers almost every aspect of Apache JMeter in detail and includes helpful screenshots and a case study. A performance primer chapter provides a high-level summary of terms used in performance testing on a day-to-day basis that also is useful for non-technical readers. A sample web application Digital Toys has been developed and test scripts are provided for you to try while progressing through the chapters. What You'll Learn Create and execute an Apache JMeter test plan Interpret the results of your test plan Understand distributed testing using Apache JMeter Use Apache JMeter advanced features such as JDBC, REST, FTP, AJAX, SOAP, and mobile performance testing Read a sample case study covering end-to-end planning and execution of a performance testing project Generate and analyze a performance dashboard Who This Book Is For Software performance testing professionals, quality assurance professionals, architects, engineers, project managers, product managers

Hands-On Microservices - Monitoring and Testing - Dinesh Rajput 2018-10-30

Learn and implement various techniques related to testing, monitoring and optimization for microservices architecture. Key Features Learn different approaches for testing microservices to design and implement, robust and secure applications Become more efficient while working with microservices Explore Testing and Monitoring tools such as JMeter, Ready API, and AppDynamics Book Description Microservices are the latest "right" way of developing web applications. Microservices architecture has been gaining momentum over the past few years, but once you've started down the microservices path, you need to test and optimize the services. This book focuses on exploring various testing, monitoring, and optimization techniques for microservices. The book starts with the evolution of software

architecture style, from monolithic to virtualized, to microservices architecture. Then you will explore methods to deploy microservices and various implementation patterns. With the help of a real-world example, you will understand how external APIs help product developers to focus on core competencies. After that, you will learn testing techniques, such as Unit Testing, Integration Testing, Functional Testing, and Load Testing. Next, you will explore performance testing tools, such as JMeter, and Gatling. Then, we deep dive into monitoring techniques and learn performance benchmarking of the various architectural components. For this, you will explore monitoring tools such as Appdynamics, Dynatrace, AWS CloudWatch, and Nagios. Finally, you will learn to identify, address, and report various performance issues related to microservices. What you will learn Understand the architecture of microservices and how to build services Establish how external APIs help to accelerate the development process Understand testing techniques, such as unit testing, integration testing, end-to-end testing, and UI/functional testing Explore various tools related to the performance testing, monitoring, and optimization of microservices Design strategies for performance testing Identify performance issues and fine-tune performance Who this book is for This book is for developers who are involved with microservices architecture to develop robust and secure applications. Basic knowledge of microservices is essential in order to get the most out of this book.

Performance Testing With JMeter 2.9 - Bayo Erinle 2013-01-01

Performance Testing With JMeter 2.9 is a standard tutorial that will help you polish your fundamentals, guide you through various advanced topics, and along the process help you learn new tools and skills. This book is for developers, quality assurance engineers, testers, and test managers new to Apache JMeter, or those who are looking to get a good grounding in how to effectively use and become proficient with it. No prior testing experience is required.

Beginning JavaServer Pages - Vivek Chopra 2005-02-18

"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.

The All New Professional Knowledge for IBPS & SBI Specialist IT Officer Exams with 15 Practice Sets 7th Edition - Disha Experts

The thoroughly Revised & Updated new 7th edition of Professional Knowledge for IBPS & SBI Specialist IT Officer Exam is updated as per the new pattern and with latest Solved Papers and 15 Practice Sets. # The book contains 12 chapters and each chapter provides theory as per the syllabi of the recruitment examination. # The new edition also contains 15 Practice Sets designed exactly as per the latest pattern to boost the confidence of the students. # The chapters in the book provides exercises to help aspirants practice the concepts discussed in the chapters. # Each chapter in the book contains ample number of questions designed on the lines of questions asked in previous years' Specialist IT Officer Exams. # The book covers 2500+ useful questions for Professional Knowledge.

Professional Portal Development with Open Source Tools - W. Clay Richardson 2004-02-27

What is this book about? Open source technology enables you to build customized enterprise portal frameworks with more flexibility and fewer limitations. This book explains the fundamentals of a powerful set of open source tools and shows you how to use them. An outstanding team of authors provides a complete tutorial and reference guide to Java Portlet API, Lucene, James, and Slide, taking you step-by-step through constructing and deploying portal applications. You trace the anatomy of a search engine and understand the Lucene query syntax, set up Apache James configuration for a variety of servers, explore object to relational mapping concepts with Jakarta OJB, and acquire many other skills necessary to create J2EE portals uniquely suited to the needs of your

organization. Loaded with code-intensive examples of portal applications, this book offers you the know-how to free your development process from the restrictions of pre-packaged solutions. What does this book cover? Here's what you will learn in this book: How to evaluate business requirements and plan the portal How to develop an effective browser environment How to provide a search engine, messaging, database inquiry, and content management services in an integrated portal application How to develop Web services for the portal How to monitor, test, and administer the portal How to create portlet applications compliant with the Java Portlet API How to reduce the possibility of errors while managing the portal to accommodate change How to plan for the next generation application portal Who is this book for? This book is for professional Java developers who have some experience in portal development and want to take advantage of the options offered by open source tools.

JMeter Cookbook - Bayo Erinle 2014-10-29

This book is great for you if you are a developer, quality assurance engineer, tester, or test manager who is looking to get a firmer grasp of elementary, deep, and advanced testing concepts using Apache JMeter. It's assumed you have access to a computer and an Internet connection. No prior testing or programming experience is required, but would be helpful.

[Professional Java Tools for Extreme Programming](#) - Richard Hightower 2004-04-28

What is this book about? The Extreme Programming (XP) methodology enables you to build and test enterprise systems quickly without sacrificing quality. In the last few years, open source developers have created or significantly improved a host of Java XP tools, from XDoclet, Maven, AntHill, and Eclipse to Ant, JUnit, and Cactus. This practical, code-intensive guide shows you how to put these tools to work — and capitalize on the benefits of Extreme Programming. Using an example pet store application, our expert Java developers demonstrate how to harness the latest versions of Ant and XDoclet for automated building and continuous integration. They then explain how to automate the testing process using JUnit, Cactus,

and other tools, and to enhance project management and continuous integration through Maven and AntHill. Finally, they show you how to work with XP tools in the new Eclipse IDE. Complete with real-world advice on how to implement the principles and practices of effective developers, this book delivers everything you need to harness the power of Extreme Programming in your own projects. What does this book cover? Here are some of the things you'll find out about in this book: How to automate the building of J2EE apps and components with Ant and XDoclet Techniques for automating Java testing using JUnit Procedures for automating servlet, JSP, and other J2EE testing using Cactus Ways to automate Swing testing with Jemmy, JFCUnit, and Abbot How to manage projects using Maven Techniques for automating continuous integration with AntHill and Cruise Control How to harness plugins for JUnit, Cactus, and Ant in the Eclipse IDE Ways to implement Extreme Programming best practices Who is this book for? This book is for enterprise Java developers who have a general familiarity with the XP methodology and want to put leading Java XP tools to work in the development process.

Performance Testing Guidance for Web Applications - Microsoft Corporation 2007

Performance Testing Guidance for Web Applications provides an end-to-end approach for implementing performance testing. Whether you are new to performance testing or looking for ways to improve your current performance-testing approach, you will gain insights that you can tailor to your specific scenarios.

Pro JSP - Simon Brown 2003

* New edition of the proven Professional JSP - best selling JSP title at the moment. This is the title that others copy. * This title will coincide with the release of the latest version of the Java 2 Enterprise Edition, version 1.4. JavaServer Pages 2.0 is a core component of this new release. * One single text gives comprehensive coverage of JavaServer Pages, the enhancements in version 2.0, and the most popular associated technologies, including Servlets, JSTL and Apache Tomcat 5.

Professional Knowledge for IBPS/ SBI Specialist IT Officer Exam 2nd Edition - Disha Experts 2017-08-01

Disha's bestseller Professional Knowledge for IBPS/SBI Specialist IT Officer Exam is the thoroughly revised and updated 2nd edition of the book. In the new edition the past solved papers of 2012-16 from IBPS and SBI exams have been integrated in the starting of the book to help aspirants get an insight into the examination pattern and the types of questions asked in the past years exams. The book contains 11 chapters and each chapter provides theory as per the syllabi of the recruitment examination. The chapters in the book provides exercises to help aspirants practice the concepts discussed in the chapters. Each chapter in the book contains ample number of questions designed on the lines of questions asked in previous years' Specialist IT Officer Exams. The book covers 2000+ useful questions for Professional Knowledge. The new edition also contains 3 Practice Sets Professional Knowledge (IT) designed exactly as per the latest pattern to boost the confidence of the students. As the book contains enough study material as well as questions, it for sure will act as the ideal and quick resource guide for IBPS/SBI and other nationalised Bank Specialist Officers' Recruitment Examination.

The Way of the Web Tester - Jonathan Rasmusson 2016-09-22

This book is for everyone who needs to test the web. As a tester, you'll automate your tests. As a developer, you'll build more robust solutions. And as a team, you'll gain a vocabulary and a means to coordinate how to write and organize automated tests for the web. Follow the testing pyramid and level up your skills in user interface testing, integration testing, and unit testing. Your new skills will free you up to do other, more important things while letting the computer do the one thing it's really good at: quickly running thousands of repetitive tasks. This book shows you how to do three things: How to write really good automated tests for the web. How to pick and choose the right ones. * How to explain, coordinate, and share your efforts with others. If you're a traditional software tester who has never written an automated test before, this is the perfect book for getting started. Together, we'll go through everything you'll need to start writing your own tests. If you're a developer, but haven't thought

much about testing, this book will show you how to move fast without breaking stuff. You'll test RESTful web services and legacy systems, and see how to organize your tests. And if you're a team lead, this is the Rosetta Stone you've been looking for. This book will help you bridge that testing gap between your developers and your testers by giving your team a model to discuss automated testing, and most importantly, to coordinate their efforts. The Way of the Web Tester is packed with cartoons, graphics, best practices, war stories, plenty of humor, and hands-on tutorial exercises that will get you doing the right things, the right way.

Professional Apache Tomcat 6 - Vivek Chopra
2011-01-21

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.

Selenium 2 Testing Tools - David Burns 2012
This book is written in Beginner's Guide style which emphasizes the concept of learning by doing. The book is packed with examples and code so that you can get the best out of this book. If you are a Software Quality Assurance professional, Software Project Manager, or a Software Developer interested in automated testing using Selenium, this book is for you. Web-based application developers will also benefit from this book.

JMeter by Example - Sai Matam 2016-03-29
JMeter is the tool of choice when it comes to performance testing. While there is plenty of reference material on the Internet, there is no

proper book to guide you through all the steps of creating, running and interpreting the results of performance testing using JMeter. This book aims to address this need. This book discusses the basics and presents a framework for performance testing. You will be able to create performance testing plan that is relevant based on your requirements. This book follows step by step approach and guides you through the installation, configuration, test plan creation, execution and result interpretation using JMeter tool. This also presents a case study which explains, in great detail, on how JMeter can be used in all the aspects of performance testing in a typical project.

Java Performance: The Definitive Guide - Scott Oaks 2014-04-10

Coding and testing are often considered separate areas of expertise. In this comprehensive guide, author and Java expert Scott Oaks takes the approach that anyone who works with Java should be equally adept at understanding how code behaves in the JVM, as well as the tunings likely to help its performance. You'll gain in-depth knowledge of Java application performance, using the Java Virtual Machine (JVM) and the Java platform, including the language and API. Developers and performance engineers alike will learn a variety of features, tools, and processes for improving the way Java 7 and 8 applications perform. Apply four principles for obtaining the best results from performance testing. Use JDK tools to collect data on how a Java application is performing. Understand the advantages and disadvantages of using a JIT compiler. Tune JVM garbage collectors to affect programs as little as possible. Use techniques to manage heap memory and JVM native memory. Maximize Java threading and synchronization performance features. Tackle performance issues in Java EE and Java SE APIs. Improve Java-driven database application performance.

Apache JMeter - Emily H. Halili 2008

This book is focussed on learning and understanding JMeter. It starts with a basic introduction and installation, followed by using JMeter to test web applications. It proceeds to show how to use JMeter to perform load testing and also to test the functional behavior of the target web application. The discussion continues

to include testing servers other than web application servers, and demonstrates the use of some of JMeter's built-in functions. This book aims to give readers an introductory view of JMeter, and gives a brief and realistic overview to those researching for an ideal testing tool to use in testing projects. The book is written in a straightforward, clear way, with plenty of step-by-step instructions and illustrative screenshots. The ideal readers or users of this book are experienced or novice testers who have been testing manually and now would like to automate their tests. Those testers who are already automating their testing using other tools or testing software may also want to use this book as they look for alternatives. This book would also be a good point for test Managers/Leaders to start doing research on the test automation tool that may best suit their testing needs and of course, their budget JMeter's target audience is the testing community, which is generally not the hangout of developers or technical people. Almost anything one would like to do in HTTP testing will be supported by JMeter without requiring any programming. The user need not have much technical knowledge to work with JMeter. It has a simple-to-use and intuitive drag-and-drop style GUI that helps any non-technical user to get started.

Advanced Joomla! - Dan Rahmel 2013-06-25
Advanced Joomla! teaches you advanced techniques for customizing a Joomla! CMS, including creating templates, administration, and building extensions. It will provide the technical know-how and a bonanza of information that will allow you to take your Joomla! sites to the next level. Written by bestselling Beginning Joomla! author Dan Rahmel, Advanced Joomla! picks up right where Beginning Joomla! left off. Amongst other things, it shows you how to integrate advanced features into your Joomla! site, including social networking, blogging, and Google and Yahoo! web services; construct advanced Joomla! templates that use multiple stylesheets; use advanced administration techniques; and employ MySQL data reporting, remote deployment, and quality control using automated testing. Advanced Joomla! assists content providers and web developers in all aspects of Joomla! content creation. For graphic artists and web designers,

the professional template techniques and site organization information will prove invaluable. For developers who are weary of the often Byzantine documentation and hunger for clear organized information, Advanced Joomla! holds the key to unlocking the treasures of this advanced CMS system.

The Challenges of the Digital Transformation in Education - Michael E. Auer 2019-03-15

This book offers the latest research and new perspectives on Interactive Collaborative Learning and Engineering Pedagogy. We are currently witnessing a significant transformation in education, and in order to face today's real-world challenges, higher education has to find innovative ways to quickly respond to these new needs. Addressing these aspects was the chief aim of the 21st International Conference on Interactive Collaborative Learning (ICL2018), which was held on Kos Island, Greece from September 25 to 28, 2018. Since being founded in 1998, the conference has been devoted to new approaches in learning, with a special focus on collaborative learning. Today the ICL conferences offer a forum for exchanging information on relevant trends and research results, as well as sharing practical experiences in learning and engineering pedagogy. This book includes papers in the fields of: * Collaborative Learning * Computer Aided Language Learning (CALL) * Educational Virtual Environments * Engineering Pedagogy Education * Game based Learning * K-12 and Pre-College Programs * Mobile Learning Environments: Applications It will benefit a broad readership, including policymakers, educators, researchers in pedagogy and learning theory, school teachers, the learning industry, further education lecturers, etc.

Performance Testing with JMeter 3 - Bayo Erinle 2017-07-21

A practical guide to help you understand the ability of Apache jMeter to load and performance test various server types in a more efficient way. About This Book Use jMeter to create and run tests to improve the performance of your webpages and applications Learn to build a test plan for your websites and analyze the results Unleash the power of various features and changes introduced in Apache jMeter 3.0 Who

This Book Is For This book is for software professionals who want to understand and improve the performance of their applications with Apache jMeter. What You Will Learn See why performance testing is necessary and learn how to set up JMeter Record and test with JMeter Handle various form inputs in JMeter and parse results during testing Manage user sessions in web applications in the context of a JMeter test Monitor JMeter results in real time Perform distributed testing with JMeter Get acquainted with helpful tips and best practices for working with JMeter In Detail JMeter is a Java application designed to load and test performance for web application. JMeter extends to improve the functioning of various other static and dynamic resources. This book is a great starting point to learn about JMeter. It covers the new features introduced with JMeter 3 and enables you to dive deep into the new techniques needed for measuring your website performance. The book starts with the basics of performance testing and guides you through recording your first test scenario, before diving deeper into JMeter. You will also learn how to configure JMeter and browsers to help record test plans. Moving on, you will learn how to capture form submission in JMeter, dive into managing sessions with JMeter and see how to leverage some of the components provided by JMeter to handle web application HTTP sessions. You will also learn how JMeter can help monitor tests in real-time. Further, you will go in depth into distributed testing and see how to leverage the capabilities of JMeter to accomplish this. You will get acquainted with some tips and best practices with regard to performance testing. By the end of the book, you will have learned how to take full advantage of the real power behind Apache JMeter. Style and approach The book is a practical guide starting with introducing the readers to the importance of automated testing. It will then be a beginner's journey from getting introduced to Apache jMeter to an in-detail discussion of more advanced features and possibilities with it.

Intelligent Computing and Information and Communication - Subhash Bhalla 2018-01-19

The volume presents high quality research papers presented at Second International Conference on Information and Communication

Technology for Intelligent Systems (ICICC 2017). The conference was held during 2-4 August 2017, Pune, India and organized communally by Dr. Vishwanath Karad MIT World Peace University, Pune, India at MIT College of Engineering, Pune and supported by All India Council for Technical Education (AICTE) and Council of Scientific and Industrial Research (CSIR). The volume contains research papers focused on ICT for intelligent computation, communications and audio, and video data processing.

Hard Problems in Software Testing - Scott Tilley 2022-05-31

This book summarizes the current hard problems in software testing as voiced by leading practitioners in the field. The problems were identified through a series of workshops, interviews, and surveys. Some of the problems are timeless, such as education and training, while others such as system security have recently emerged as increasingly important. The book also provides an overview of the current state of Testing as a Service (TaaS) based on an exploration of existing commercial offerings and a survey of academic research. TaaS is a relatively new development that offers software testers the elastic computing capabilities and generous storage capacity of the cloud on an as-needed basis. Some of the potential benefits of TaaS include automated provisioning of test execution environments and support for rapid feedback in agile development via continuous regression testing. The book includes a case study of a representative web application and three commercial TaaS tools to determine which hard problems in software testing are amenable to a TaaS solution. The findings suggest there remains a significant gap that must be addressed before TaaS can be fully embraced by the industry, particularly in the areas of tester education and training and a need for tools supporting more types of testing. The book includes a roadmap for enhancing TaaS to help bridge the gap between potential benefits and actual results. Table of Contents: Introduction / Hard Problems in Software Testing / Testing as a Service (TaaS) / Case Study and Gap Analysis / Summary / Appendix A: Hard Problems in Software Testing Survey / Appendix B: Google App Engine Code Examples / Appendix C: Sauce

Labs Code Examples / References / Author Biographies

Agile Testing - Lisa Crispin 2009

Crispin and Gregory define agile testing and illustrate the tester's role with examples from real agile teams. They teach you how to use the agile testing quadrants to identify what testing is needed, who should do it, and what tools might help. The book chronicles an agile software development iteration from the viewpoint of a tester and explains the seven key success factors of agile testing.

Troubleshooting Java Performance - Erik Ostermueller 2017-09-30

Troubleshoot the most widespread and pernicious Java performance problems using a set of open-source and freely-available tools that will make you dramatically more productive in finding the root causes of slow performance.

This is a brief book that focuses on a small number of performance anti-patterns, and you'll find that most problems you encounter fit into one of these anti-patterns. The book provides a specific method in a series of steps referred to as the "P.A.t.h. Checklist" that encompasses persistence, alien systems, threads, and heap management. These steps guide you through a troubleshooting process that is repeatable, that you can apply to any performance problem in a Java application. This technique is especially helpful in 'dark' environments with little monitoring. Performance problems are not always localized to Java, but often fall into the realms of database access and server load. This book gives attention to both of these issues through examples showing how to identify repetitive SQL, and identify architecture-wide performance problems ahead of production rollout. Learn how to apply load like an expert, and determine how much load to apply to determine whether your system scales. Included are walk-throughs of a dozen server-side performance puzzles that are ready to run on your own machine. Following these examples helps you learn to: Assess the performance health of four main problems areas in a Java system: The P.A.t.h. Checklist presents each area with its own set of plug-it-in-now tools Pinpoint the code at fault for CPU and other bottlenecks without a Java profiler Find memory leaks in just minutes using heapSpank, the

author's open-source leak detector utility that is freely available from heapSpank.org The repeatable method provided in this book is an antidote to lackluster average response times that are multi-second throughout the industry.

This book provides a long absent, easy-to-follow, performance training regimen that will benefit anyone programming in Java. What You'll Learn Avoid the 6 most common ways to mess up a load test Determine the exact number of threads to dial into the load generator to test your system's scalability Detect the three most common SQL performance anti-patterns Measure network response times of calls to back-end systems ('alien systems') Identify whether garbage collection performance is healthy or unhealthy and whether delays are caused by problems in the old or new generation, so you know which generation needs to be adjusted Who This Book Is For

Intermediate and expert Java developers and architects. Java experts will be able to update their skill set with the latest and most productive, open-source Java performance tools. Intermediate Java developers are exposed to the most common performance defects that repeatedly show up in Java applications, ones that account for the bulk of slow-performing systems. Experts and intermediates alike will benefit from the chapters on load generation.

Model-Driven Engineering and Software Development - Slimane Hammoudi 2017-09-08

This book constitutes thoroughly revised and selected papers from the 4th International Conference on Model-Driven Engineering and Software Development, MODELSWARD 2016, held in Rome, Italy, in February 2016. The 17 thoroughly revised and extended papers presented in this volume were carefully reviewed and selected from 118 submissions. They are organized in topical sections named: modeling languages, tools and architectures; methodologies, processes and platforms; applications and software development.

Professional Java Tools for Extreme Programming - Richard Hightower 2004-04-23

What is this book about? The Extreme Programming (XP) methodology enables you to build and test enterprise systems quickly without sacrificing quality. In the last few years, open source developers have created or

significantly improved a host of Java XP tools, from XDoclet, Maven, AntHill, and Eclipse to Ant, JUnit, and Cactus. This practical, code-intensive guide shows you how to put these tools to work — and capitalize on the benefits of Extreme Programming. Using an example pet store application, our expert Java developers demonstrate how to harness the latest versions of Ant and XDoclet for automated building and continuous integration. They then explain how to automate the testing process using JUnit, Cactus, and other tools, and to enhance project management and continuous integration through Maven and AntHill. Finally, they show you how to work with XP tools in the new Eclipse IDE. Complete with real-world advice on how to implement the principles and practices of effective developers, this book delivers everything you need to harness the power of Extreme Programming in your own projects. What does this book cover? Here are some of the things you'll find out about in this book: How to automate the building of J2EE apps and components with Ant and XDoclet Techniques for automating Java testing using JUnit Procedures for automating servlet, JSP, and other J2EE testing using Cactus Ways to automate Swing testing with Jemmy, JFCUnit, and Abbot How to manage projects using Maven Techniques for automating continuous integration with AntHill and Cruise Control How to harness plugins for JUnit, Cactus, and Ant in the Eclipse IDE Ways to implement Extreme Programming best practices Who is this book for? This book is for enterprise Java developers who have a general familiarity with the XP methodology and want to put leading Java XP tools to work in the development process. [Master Apache JMeter - From Load Testing to DevOps](#) - Antonio Gomes Rodrigues 2019-08-01 Learn how to get the most out of JMeter, improve the productivity of your apps, and integrate JMeter with your Agile and DevOps processes. Key Features Gain insights into preparing test environments and selecting the correct use cases to load test Learn to analyze a

load test with Backend Listener, HTML Report Dashboard, and View Results Tree Explore how to integrate JMeter in the software factory Book Description Load tests help identify the maximum number of requests a software system can handle. One popular open source tool for load testing is JMeter. By leveraging the features and capabilities of JMeter, you can perform extensive load testing and fix issues in your application before they become problematic. This book is written by JMeter developers and begins by discussing the whole process, including recording a script, setting it up, and launching it, enabling you to almost immediately start load testing. You'll learn the best practices that you must follow while designing test cases. You'll also explore the different protocols offered by JMeter through various real-world examples. Finally, you'll see how to integrate JMeter into the DevOps approach and create professional reports. You'll discover ways to use the ecosystem of JMeter to integrate new protocols, enrich its monitoring, and leverage its power through the use of the cloud. By the end of this book, you'll know all that's needed to perform comprehensive load testing on your applications by using all the best practices and features of JMeter. What you will learn Explore various JMeter concepts, including Timers scope and Assertions scope Discover the types of test protocols and load tests that JMeter supports Design a realistic test scenario using various tips and best practices Prepare your test environment with injectors and the system under test Learn and apply good practices when recording a script Integrate JMeter with Jenkins using Maven Who this book is for This book contains all the valuable information you need in one place and is a must for everybody who is seriously working with JMeter. It might be a little condensed for absolute beginners, but this book is the best you can find if you already have some performance testing experience and want to get further. In particular, it would be invaluable to developers who want to expand their JMeter knowledge into advanced topics or switch to JMeter from other load testing tools.