

# Jmeter User Guide

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.

This book, authored by project and documentation leads Fabien Potencier and François Zaninotto, serves as a complete guide to all aspects of Symfony. Readers are guided through fundamental concepts such as installation, configuration, and security, followed by thorough discussion of advanced concepts such as scaffolding, routing, caching, and internationalization. Bundled with numerous tools for helping document, debug, and test your applications, and developed in a manner encouraging agile development

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principles, Symphony is sparking the imagination of thousands of developers around the globe.

This practically-focused textbook provides a concise and accessible introduction to the field of software testing, explaining the fundamental principles and offering guidance on applying the theory in an industrial environment. Topics and features: presents a brief history of software quality and its influential pioneers, as well as a discussion of the various software lifecycles used in software development; describes the fundamentals of testing in traditional software engineering, and the role that static testing plays in building quality into a product; explains the process of software test planning, test analysis and design, and test management; discusses test outsourcing, and test metrics and problem solving; reviews the tools available to support software testing activities, and the benefits of a software process improvement initiative; examines testing in the Agile world, and the verification of safety critical systems; considers the legal and ethical aspects of software testing, and the importance of software configuration management; provides key learning topics and review questions in every chapter, and supplies a helpful glossary at the end of the book. This easy-to-follow guide is an essential resource for undergraduate students of computer science seeking to learn about software testing, and how to build high quality and reliable software on time and on budget. The work will also be of interest to industrialists including software engineers, software testers, quality professionals and software managers, as well as the motivated general reader.

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

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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

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

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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.

Practical Step by Step Hands-on book for developers, quality assurance engineers, testers, and test managers to learn Jmeter Each chapter introduces a unique feature of Jmeter with sample code with TROUBLESHOOTING guide. The book starts with an introduction to Jmeter and performance testing. Gives details steps to install Jmeter on various platforms. It proceeds to familiarize the reader with the Jmeter GUI. Then the book teaches to create performance test and enhance the test using Timer, Assertion, Controllers, and Processor. The cookbook also gives detailed steps to perform distributed testing using Jmeter software. Best Practices to successfully conduct your Jmeter test are include. Here is what you will learn in detail- Chapter 1: Introduction Chapter 2: Installation Guide Chapter 3: Complete Element Reference Thread Group Samplers Listeners Configuration Chapter 4: Hands on with JMeter GUI Chapter 5: Performance Testing using Jmeter Chapter 6: Timers Chapter 7: Assertions Response Assertion Duration Assertion Size Assertion XML Assertion HTML Assertion Chapter 8: Controllers Chapter 9: Processor Chapter 10: Distributed Testing in JMeter Chapter 11: HTTP Proxy Server Testing Chapter 12: Best Practices for your Jmeter Tests

It takes a book as versatile as its subject to cover Apache

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Tomcat, the popular open source Servlet and JSP container and high performance web server. Tomcat: The Definitive Guide is a valuable reference for administrators and webmasters, a useful guide for programmers who want to use Tomcat as their web application server during development or in production, and an excellent introduction for anyone interested in Tomcat. Updated for the latest version of Tomcat, this new edition offers a complete guide to installing, configuring, maintaining and securing this servlet container. In fact, with such a wealth of new information, this is essentially a new book rather than a simple revision. You will find details for using Tomcat on all major platforms, including Windows, Linux, OS X, Solaris, and FreeBSD, along with specifics on Tomcat configuration files, and step-by-step advice for deploying and running web applications. This book offers complete information for: Installation and startup procedures Configuring Tomcat-including realms, roles, users, servlet sessions, and JNDI resources including JDBC DataSources Deploying web applications-individual servlets and JSP pages, and web application archive files Tuning Tomcat to measure and improve performance Integrating Tomcat with Apache Web Server Securing Tomcat to keep online thugs at bay Tomcat configuration files-server.xml and web.xml, and more Debugging and Troubleshooting-diagnosing problems with Tomcat or a web application Compiling your own Tomcat, rather than using the pre-built release Running two or more Tomcat servlet containers in parallel This book also offers an overview of the Tomcat open source project's community resources, including docs, mailing lists, and more. Community interest fueled a strong demand for a Tomcat guide from O'Reilly. The result clearly exceeds expectations. 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

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.

Streamline software development with Jenkins, the popular Java-based open source tool that has revolutionized the way teams think about Continuous Integration (CI). This complete guide shows you how to automate your build, integration, release, and deployment processes with Jenkins—and demonstrates how CI can save you time, money, and many headaches. Ideal for developers, software architects, and project managers, Jenkins: The Definitive Guide is both a CI tutorial and a comprehensive Jenkins reference. Through its wealth of best practices and real-world tips, you'll discover how easy it is to set up a CI service with Jenkins. Learn how to install, configure, and secure your Jenkins server Organize and monitor general-purpose build jobs Integrate automated tests to verify builds, and set up code quality reporting Establish effective team notification strategies and techniques Configure build pipelines, parameterized jobs, matrix builds, and other advanced jobs Manage a farm of Jenkins servers to run distributed builds Implement automated deployment and continuous delivery

Get a 360-degree view of digital project

management. Learn proven best practices from case studies and real-world scenarios. A variety of project management tools, templates, models, and frameworks are covered. This book provides an in-depth view of digital project management from initiation to execution to monitoring and maintenance. Covering end-to-end topics from pre-sales to post-production, the book explores project management from various dimensions. Each core concept is complemented by case studies and real-world scenarios. The Complete Guide to Digital Project Management provides valuable tools for your use such as: Frameworks: governance, quality, knowledge transfer, root cause analysis, digital product evaluation, digital consulting, estimation Templates: estimation, staffing, resource induction, RACI Models: governance, estimation, pricing, digital maturity continuous execution, earned value management and effort forecast Metrics: project management, quality What You'll Learn Study best practices and failure scenarios in digital projects, including common challenges, recurring problem themes, and leading indicators of project failures Explore an in-depth discussion of topics related to project quality and project governance Understand Agile and Scrum practices for Agile execution See how to apply Quality Management in digital projects, including a quality strategy, a quality framework, achieving quality in various project phases, and

quality best practices Be able to use proven metrics and KPIs to track, monitor, and measure project performance Discover upcoming trends and innovations in digital project management Read more than 20 real-world scenarios in digital project management with proven best practices to handle the scenarios, and a chapter on a digital transformation case study Who This Book Is For Software project managers, software program managers, account managers, software architects, lead developers, and digital enthusiasts

"Practical Applications of Intelligent Systems" presents selected papers from the 2013 International Conference on Intelligent Systems and Knowledge Engineering (ISKE2013). The aim of this conference is to bring together experts from different expertise areas to discuss the state-of-the-art in Intelligent Systems and Knowledge Engineering, and to present new research results and perspectives on future development. The topics in this volume include, but are not limited to: Intelligent Game, Intelligent Multimedia, Business Intelligence, Intelligent Bioinformatics Systems, Intelligent Healthcare Systems, User Interfaces and Human Computer Interaction, Knowledge-based Software Engineering, Social Issues of Knowledge Engineering, etc. The proceedings are benefit for both researchers and practitioners who want to learn more about the current practice, experience and

promising new ideas in the broad area of intelligent systems and knowledge engineering. Dr. Zhenkun Wen is a Professor at the College of Computer and Software Engineering, Shenzhen University, China. Dr. Tianrui Li is a Professor at the School of Information Science and Technology, Southwest Jiaotong University, Xi'an, China.

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.

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.

Apache JMeter A Practical Beginner's Guide to Automated Testing and Performance Measurement for Your Websites Packt Pub Limited

Imagine what you could do if scalability wasn't a problem. With this hands-on guide, you'll learn how the Cassandra database management system handles hundreds of terabytes of data while remaining highly available across multiple data centers. This third edition—updated for Cassandra 4.0—provides the technical details and practical examples you need to put this database to work in a production environment. Authors Jeff Carpenter and Eben Hewitt demonstrate the advantages of Cassandra's nonrelational design, with special attention to data modeling. If you're a developer, DBA, or application architect looking to solve a database scaling issue or future-proof your

application, this guide helps you harness Cassandra's speed and flexibility. Understand Cassandra's distributed and decentralized structure Use the Cassandra Query Language (CQL) and cqlsh—the CQL shell Create a working data model and compare it with an equivalent relational model Develop sample applications using client drivers for languages including Java, Python, and Node.js Explore cluster topology and learn how nodes exchange data

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.

When you need quick answers for developing or debugging Java programs, this pocket guide provides a handy reference to standard features of the Java programming language and its platform. You'll find helpful programming examples, tables, figures, and lists, as well as Java 8 features such as Lambda Expressions and the Date and Time API. It's an ideal companion, whether you're in the office, in the lab, or on the road. This book also provides material to help you prepare for the Oracle Certified Associate Java Programmer exam. Quickly find Java language details, such as naming conventions, types, statements and blocks, and object-oriented programming Get details on the Java SE

platform, including development basics, memory management, concurrency, and generics Browse through information on basic input/output, NIO 2.0, the Java collections framework, and the Java Scripting API Get supplemental references to fluent APIs, third-party tools, and basics of the Unified Modeling Language (UML)

Your one stop guide to automating infrastructure security using DevOps and DevSecOps Key Features Secure and automate techniques to protect web, mobile or cloud services Automate secure code inspection in C++, Java, Python, and JavaScript Integrate security testing with automation frameworks like fuzz, BDD, Selenium and Robot Framework Book Description Security automation is the automatic handling of software security assessments tasks. This book helps you to build your security automation framework to scan for vulnerabilities without human intervention. This book will teach you to adopt security automation techniques to continuously improve your entire software development and security testing. You will learn to use open source tools and techniques to integrate security testing tools directly into your CI/CD framework. With this book, you will see how to implement security inspection at every layer, such as secure code inspection, fuzz testing, Rest API, privacy, infrastructure security, and web UI testing. With the help of practical examples, this book will teach you to implement the combination of automation and Security in DevOps. You will learn about the integration of security testing results for an overall security status for projects. By the end of this book, you will be confident

implementing automation security in all layers of your software development stages and will be able to build your own in-house security automation platform throughout your mobile and cloud releases. What you will learn Automate secure code inspection with open source tools and effective secure code scanning suggestions Apply security testing tools and automation frameworks to identify security vulnerabilities in web, mobile and cloud services Integrate security testing tools such as OWASP ZAP, NMAP, SSLyze, SQLMap, and OpenSCAP Implement automation testing techniques with Selenium, JMeter, Robot Framework, Gauntlt, BDD, DDT, and Python unittest Execute security testing of a Rest API Implement web application security with open source tools and script templates for CI/CD integration Integrate various types of security testing tool results from a single project into one dashboard Who this book is for The book is for software developers, architects, testers and QA engineers who are looking to leverage automated security testing techniques.

Build a Next-Generation Enterprise Digital Platform with Portals and UXP A Complete Guide to Portals and User Experience Platforms provides in-depth coverage of portal technologies and user experience platforms (UXPs), which form the key pillars of a modern digital platform. Drawing on his experience in various roles in numerous portal engagements, the author gives you different perspectives of the same technology platform. The first section introduces portal through multiple viewpoints to cater to a wide audience, including business, operations, development, integration,

performance, and architecture views. The book details many novel and practically proven models and frameworks, such as portal value realization framework, portal assessment framework, portal evaluation model, portal infrastructure planning techniques, and portal integration techniques. You also learn about effective digital program strategies, including portal roadmap strategy, collaboration strategy, portal security planning, portal testing strategy, SEO, and analytics planning concepts. The second section dives into UXP and advanced topics. It elaborates on UXP design concepts, including UXP reference architecture, customer touch point analysis, user experience mapping, and responsive web design. It also looks at advanced topics, such as next-generation portals, portal trends, portal user experience strategy, omni-channel strategy, portal KPI, portal pitfalls and best practices, portal security, portal governance, digital program management, and portal performance engineering. In the third section, the book presents four case studies related to intranet portals, retail portals, customer service portals, and portal content management. It discusses business drivers, challenges, portal solutions, and solution benefits for each of the case studies. Written by a seasoned practitioner, this book balances the core topics of modern portals along with emerging technologies in the digital space. Suitable for the entire digital technology community, including IT managers, digital architects, developers, and testers, it provides you with a practical guide for successfully building best practices-based digital platforms with forward-looking features.

How do we measure improved Apache JMeter service perception, and satisfaction? Strategic planning -Apache JMeter relations In a project to restructure Apache JMeter outcomes, which stakeholders would you involve? What other jobs or tasks affect the performance of the steps in the Apache JMeter process? What are our Apache JMeter Processes? This easy Apache JMeter self-assessment will make you the principal Apache JMeter domain standout by revealing just what you need to know to be fluent and ready for any Apache JMeter challenge. How do I reduce the effort in the Apache JMeter work to be done to get problems solved? How can I ensure that plans of action include every Apache JMeter task and that every Apache JMeter outcome is in place? How will I save time investigating strategic and tactical options and ensuring Apache JMeter costs are low? How can I deliver tailored Apache JMeter advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Apache JMeter essentials are covered, from every angle: the Apache JMeter self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Apache JMeter outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Apache JMeter practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in

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Apache JMeter are maximized with professional results. Your purchase includes access details to the Apache JMeter self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard, and... - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation ...plus an extra, special, resource that helps you with project managing. **INCLUDES LIFETIME SELF ASSESSMENT UPDATES** Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

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](http://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.

The Grid computing concept, which allows users to integrate administratively and geographically dispersed computing resources, has been gaining traction in a number of application areas during the past few years. By interconnecting many – heterogeneous, though usually virtualized – computing resources, virtual computer centers or supercomputers can be created, providing a seamless supply of computing resources. Grid computing provides benefits not only for scientific computing (e.g., SETI@home, which interconnects one million computers across 226 countries with a total processing power of 711 TFLOPS) but also in a commercial environment. It is projected that computing Grids can lower the total IT costs of businesses by 30%. The report “Grid Computing: A Vertical Market Perspective 2005–2010” (by The Insight Research Corporation) estimates an increase of worldwide Grid

spending from \$714.9 million in 2005 to approximately \$19.2 billion in 2010. One of the most prominent activities in academia is the EGEE project being funded with 30 MEuro by the European Commission. EGEE brings together researchers from over 27 countries with the common aim of developing a service Grid infrastructure, which is suited for scientific computing with very high demand for processing power.

The 5th edition of the book covers the 2017 Solved Paper along with the 4 sections - English Language, Quantitative Aptitude, Reasoning & Professional Knowledge. The book provides well illustrated theory with exhaustive fully solved examples for learning. This is followed with an exhaustive collection of solved questions in the form of Exercise. The book incorporates fully solved 2013 to 2017 IBPS Specialist IT Officer Scale question papers. The USP of the book is the Professional Knowledge section, which has been divided into 11 chapters covering all the important aspects of IT Knowledge as per the pattern of questions asked in the question paper.

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. This IBM® Redbooks® publication provides operations teams with architectural design patterns and guidelines for the day-to-day challenges that they face when managing their IBM Business Process Manager (BPM) infrastructure. Today, IBM BPM L2 and L3 Support and SWAT teams are constantly advising customers how to deal with the following common challenges: Deployment options (on-premises, patterns, cloud, and so on) Administration DevOps Automation Performance monitoring and tuning Infrastructure management Scalability High Availability and Data Recovery Federation This publication enables customers to become self-sufficient, promote consistency and accelerate IBM BPM Support engagements. This IBM Redbooks publication is targeted toward technical professionals (technical support staff, IT Architects, and IT Specialists) who are responsible for meeting day-to-day challenges that they face when they are managing an IBM BPM infrastructure. Professional Java Tools for Extreme Programming is a practical, code-intensive guide to the tools that

Enterprise Java developers need when using Extreme Programming (XP) methods. It covers the key tools used to automate the most complex parts of the XP process: application integration, testing, and deployment.

This book constitutes the refereed proceedings of the 12th International Conference on Electronic Commerce and Web Technologies (EC-Web) held in Toulouse, France, in August/September 2011. The 25 papers accepted for EC-Web, selected from 60 submissions, are organized into eight topical sections on semantic services, business processes and services, context-aware recommender systems, intelligent agents and e-negotiation systems, collaborative filtering and preference learning, social recommender systems, agent interaction and trust management, and innovative strategies for preference elicitation and profiling.

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.

Practical Step by Step Hands-on book for

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developers, quality assurance engineers, testers, and test managers to learn Jmeter Each chapter introduces a unique feature of Jmeter with sample code with TROUBLESHOOTING guide. The book starts with an introduction to Jmeter and performance testing. Gives details steps to install Jmeter on various platforms. It proceeds to familiarize the reader with the Jmeter GUI. Then the book teaches to create performance test and enhance the test using Timer, Assertion, Controllers, and Processor. The cookbook also gives detailed steps to perform distributed testing using Jmeter software. Best Practices to successfully conduct your Jmeter test are include. Table Of Content

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This book aims at providing the necessary knowledge in understanding the concepts of software testing and software quality assurance so

that you can take any internationally recognized software testing / quality assurance certification examination and come out with flying colors. Also, equipped with this knowledge, you can do a great job as a testing and quality assurance professional in your career and contribute in developing reliable software for different applications, which in turn improves the quality of life of everyone on this earth.

· Introduction· Software Development Life Cycle and Quality Assurance· Fundamentals of Testing· Testing Levels and Types· Static Testing Techniques· Dynamic Testing and Test Case Design Techniques· Managing the Testing Process· Software Testing Tools· Code of Ethics for Software Professionals

Readers will learn how to automate their build, integration, release, and deployment processes with Jenkins, the popular Java-based open source tool that has revolutionized the way teams think about continuous integration (CI).

Getting started with the processes and the tools to continuously deliver high-quality software About This Book Incorporate popular development practices to prevent messy code Automate your build, integration, release, and deployment processes with Jenkins, Git, and Gulp?and learn how continuous integration (CI) can save you time and money Gain an end-to-end overview of Continuous Integration using different languages (JavaScript and C#) and tools (Gulp and Jenkins) Who This Book Is For This book is for developers who want to understand and implement Continuous

Integration and Delivery in their daily work. A basic knowledge of at least JavaScript and HTML/CSS is required. Knowing C# and SQL will come in handy. Most programmers who have programmed in a (compiled) C-like language will be able to follow along. What You Will Learn Get to know all the aspects of Continuous Integration, Deployment, and Delivery Find out how Git can be used in a CI environment Set up browser tests using Karma and Selenium and unit tests using Jasmine Use Node.js, npm, and Gulp to automate tasks such as linting, testing, and minification Explore different Jenkins jobs to integrate with Node.js and C# projects Perform Continuous Delivery and Deployment using Jenkins Test and deliver a web API In Detail The challenge faced by many teams while implementing Continuous Deployment is that it requires the use of many tools and processes that all work together. Learning and implementing all these tools (correctly) takes a lot of time and effort, leading people to wonder whether it's really worth it. This book sets up a project to show you the different steps, processes, and tools in Continuous Deployment and the actual problems they solve. We start by introducing Continuous Integration (CI), deployment, and delivery as well as providing an overview of the tools used in CI. You'll then create a web app and see how Git can be used in a CI environment. Moving on, you'll explore unit testing using Jasmine and browser testing using Karma and Selenium for your app. You'll also find out how to automate tasks using Gulp and Jenkins. Next, you'll get acquainted with database integration for different platforms, such as MongoDB and PostgreSQL. Finally, you'll set up different Jenkins jobs to integrate with Node.js and C# projects, and Jenkins pipelines to make branching easier. By the end of the book, you'll have implemented Continuous Delivery and deployment from scratch. Style and approach This practical book takes a step-by-step approach to

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explaining all the concepts of Continuous Integration and delivery, and how it can help you deliver a high-quality product.

Spring Web Flow is an exciting open-source framework for developing Java web applications. The framework improves productivity by addressing three major pain-points facing web application developers: user interface navigation control, state management, and modularity. The Definitive Guide to Spring Web Flow covers Spring Web Flow in detail by explaining its motivation and feature set, as well as providing practical guidance for using the framework to develop web applications successfully in a number of environments.

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

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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.

Harness the power of Magento 2 – The most recent version of the world's favourite e-Commerce platform for your online store About This Book Set up, configure, and power up your Magento environment from development to production Master the use of Web API to communicate with the Magento system and create custom services Create custom modules from scratch to extend the core functionality of the Magento system Who This Book Is For This book is intended primarily for intermediate to professional-level PHP developers who are interested in Magento development. For backend developers, several topics are covered that will enable you to modify and extend your Magento 2 store. Frontend developers will also find some coverage on how to customize

the look of the site in the frontend. What You Will Learn Set up the development and production environment of Magento 2 Understand the new major concepts and conventions used in Magento 2 Build a miniature yet fully-functional module from scratch to manage your e-commerce platform efficiently Write models and collections to manage and search your entity data Dive into backend development such as creating events, observers, cron jobs, logging, profiling, and messaging features Get to the core of frontend development such as blocks, templates, layouts, and the themes of Magento 2 Use token, session, and OAuth token-based authentication via various flavors of API calls, as well as creating your own APIs Get to grips with testing Magento modules and custom themes, which forms an integral part of development In Detail Magento is one of the most exciting, flexible, and customizable e-commerce systems. It offers you an extensive suite of powerful tools for creating and managing an online store. After years of development, Magento 2 introduces itself with a strong emphasis on modularity, Web API's, automated testing and overall new technology stack platform. The long-awaited Magento 2 release introduces a whole new e-commerce platform to develop online stores. The all new Magento 2 architecture, Web APIs, and a host of other features are equally challenging to master as much as they are exciting to use. This book will ease the learning curve by offering step-by-step guidance on how to extend the core functionality of your Magento 2 store. This book is your one-stop guide to build and customize a quality e-commerce website from the latest version of one of the largest, fastest growing, and most popular e-commerce platforms—Magento 2. We start off with an introduction to the fundamental concepts of Magento to give you a foundation to work from. We then move on to configure the development and basic production environment

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for Magento. After this, you'll get to grips with the major concepts and conventions that are new to the Magento 2 platform. We then delve deeper to get to the core of automated deployments, persisting data, writing data fixture scripts and applying various backend and frontend modifications. As we near the end of the book, you will learn to make API calls and write automated tests. Finally, you will be guided through building a full-blown helpdesk module from scratch. By the end of this book, you will have learned a wide range of techniques to extend and customize your Magento 2 store to fit the requirements of your business. Style and approach This book is a mix of theoretical and step-by-step approaches, explained in a conversational and easy-to-follow style. Topics are explained sequentially, giving detailed explanations of the basic and advanced features to get you working on Magento 2.

Users of IBM® z/OS® for the past several years had a choice of two HTTP Servers that they can use. Now, one server became strategic while the other is no longer supported with z/OS V2.2. IHS powered by Apache supports IPv6 and 64-bit execution and includes security authentication and authorization capabilities that are similar to those capabilities that are provided in IHS powered by IBM Domino®. This IBM Redpaper™ publication is aimed at technicians who are responsible for planning and deploying system software. It provides information about the various features that are available in IBM HTTP Server powered by Apache. It also provides guidance about how to upgrade from the old product to the new product.

NGINX is one of the most common free, open source web servers. Its performance-oriented architecture and small footprint makes it an ideal choice for high-traffic websites. NGINX offers great performance and optimal resource utilization to its administrators. This practical guide walks you

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through how to tune one of the leading free open source web servers to attain optimal performance for high-traffic sites. It also explores ways to improve network utilization for high loads. The tour starts with an overview of the NGINX architecture. You will build and configure NGINX for optimal utilization of the hardware available. The book demonstrates various practices to improve last mile content delivery by using timeouts, caching, and compression. You'll also discover various free open source tools to test and benchmark web server performance, allowing you to verify NGINX performance at every step.

Written in an engaging, easy-to-follow style, this practical guide will teach you to create test suites and automated acceptance Tests with the Robot Framework. If you are an automation engineer, QA engineer, developer or tester who is looking to get started with Robot Framework, as well as find a standardized testing solution, this book is ideal for you. No prior knowledge of Robot Framework or acceptance testing is required, although a basic knowledge of Python is required for few sections of the book.

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