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Apache JMeter™



The Apache JMeter™ application is open source software, a 100% pure Java application designed to load test functional behavior and measure performance. It was originally designed for testing Web Applications but has since expanded to other test functions.

What can I do with it?

Apache JMeter may be used to test performance both on static and dynamic resources, Web dynamic applications. It can be used to simulate a heavy load on a server, group of servers, network or object to test its strength or to analyze overall performance under different load types.

Apache JMeter features include

- Ability to load and performance test many different applications/server/protocol types:
 - Web - HTTP, HTTPS (Java, NodeJS, PHP, ASP.NET, ...)
 - SOAP / REST Webservices
 - FTP
 - Database via JDBC
 - LDAP
 - Message-oriented middleware (MQM) via JMS
 - Mail - SMTP(S), POP3(S) and IMAP(S)
 - Native commands or shell scripts
 - TCP
 - Java Objects
- Full featured Test IDE that allows fast Test Plan recording (from Browsers or native applications), building and debugging
- [CLI mode \(Command-line mode, previously called Non-GUI mode\)](#) to load test from any Java compatible OS (Linux, Windows, Mac OSX, ...)
- A complete and ready to [present dynamic HTML report](#)
- Easy correlation through ability to extract data from most popular response formats, HTML, JSON, XML, or any textual format
- Complete portability and 100% Java purity
- Full multi-threading framework allows concurrent sampling by many threads and simultaneous sampling of different functions by separate thread groups.
- Caching and offline analysis/replaying of test results.
- Highly Extensible core:
 - Pluggable Samplers allow unlimited testing capabilities.
 - Scriptable Samplers (JSR223-compatible languages like Groovy and BeanShell)
 - Several load statistics may be chosen with pluggable timers.
 - Data analysis and visualization plugins allow great extensibility as well as personalization.
 - Functions can be used to provide dynamic input to a test or provide data manipulation.
 - Easy Continuous Integration through 3rd party Open Source libraries for Maven, Gradle and Jenkins.

How do I do it?

- [Using JMeter to understand how to use it](#)
- [Component reference](#) to have detailed information for every Test element
- [Functions reference](#) to have detailed information and examples for every function
- [Properties reference](#) for all properties that allow you to customize JMeter
- [JMeter API documentation](#)
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- [Building JMeter and Add-Ons](#) for advanced usage

User Manual Jmeter

Larne Pekowsky

User Manual Jmeter:

Test Automation Engineering Handbook Manikandan Sambamurthy,2023-01-13 Understand test automation and implement it in Web Mobile and APIs effectively Key FeaturesLearn how to automate your tests with the help of practical examplesUnderstand how to bridge the gap between testing and test automationExplore test automation strategies for different platformsBook Description This book helps you build a better understanding of test automation and aids in bridging the gap between testing and test automation The book has been divided into three sections with the first section focusing on preparing you for testing and test automation fundamentals By the end of this section you ll have an understanding of some common automation terms definitions and roles The second section covers the practical implementation of test automation for mobile web API and performance The third section will help you understand how test automation works with CI CD and explore the common issues and pitfalls when executing test automation By the end of this book you ll have a better understanding of automation addressing the common pain points and best practices around test automation What you will learnGain a solid understanding of test automationUnderstand how automation fits into a test strategyExplore essential design patterns for test automationDesign and implement highly reliable automated testsUnderstand issues and pitfalls when executing test automationDiscover the commonly used test automation tools frameworksWho this book is for This book is for manual testers who want to enter the field of test automation and developers who want to learn more about test automation

Developing Essbase Applications Cameron Lackpour,2015-09-17 Maintaining the advanced technical focus found in Developing Essbase Applications this second volume is another collaborative effort by some of the best Essbase practitioners from around the world The book explores technology areas that are much discussed but still very new including Exalytics and Hybrid Essbase It covers the latest improvements to the Essbase engine as well as the impact of new reporting and analysis tools It also presents advanced Essbase best practices across a variety of features functions and theories

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.

Predicting Fault Locations from Failures Using a Machine Learning Classifier

Geoffrey Compton Hulette, 2007 **Control Engineering**, 1974 Instrumentation and automatic control systems [Covert Java](#) Alex Kalinovsky, 2004 As a Java developer you may find yourself in a situation where you have to maintain someone else's code or use a third party's library for your own application without documentation of the original source code. Rather than spend hours feeling like you want to bang your head against the wall turn to **Covert Java Techniques for Decompiling Patching and Reverse Engineering**. These techniques will show you how to better understand and work with third party applications. Each chapter focuses on a technique to solve a specific problem such as obfuscation in code or scalability vulnerabilities outlining the issue and demonstrating possible solutions. Summaries at the end of each chapter will help you double check that you understood the crucial points of each lesson. You will also be able to download all code examples and sample applications for future reference from the publisher's website. Let **Covert Java** help you crack open mysterious codes.

Automation in Offshore Oil Field Operation Frode L. Galtung, Kåre Røsandhaug, Theodore Joseph Williams, 1976

Hacking Exposed Web Applications, Second Edition Joel Scambray, Mike Shema, Caleb Sima, 2006-06-05 Implement bulletproof e business security the proven **Hacking Exposed** way. Defend against the latest Web based attacks by looking at your Web applications through the eyes of a malicious intruder. Fully revised and updated to cover the latest Web exploitation techniques. **Hacking Exposed Web Applications Second Edition** shows you step by step how cyber criminals target vulnerable

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Linux: The Complete Reference, Sixth Edition Richard

Petersen,2007-12-10 Your one stop guide to Linux fully revised and expanded Get in depth coverage of all Linux features tools and utilities from this thoroughly updated and comprehensive resource designed for all Linux distributions Written by Linux expert Richard Petersen this book explains how to get up and running on Linux use the desktops and shells manage applications deploy servers implement security measures and handle system and network administration tasks With full coverage of the latest platform Linux The Complete Reference Sixth Edition includes details on the very different and popular Debian Ubuntu and Red Hat Fedora software installation and service management tools used by most distributions This is a must have guide for all Linux users Install configure and administer any Linux distribution Work with files and folders from the BASH TCSH and Z shells Use the GNOME and KDE desktops X Windows and display managers Set up office database Internet and multimedia applications Secure data using SELinux netfilter SSH and Kerberos Encrypt network transmissions with GPG LUKS and IPsec Deploy FTP Web mail proxy print news and database servers Administer system resources using HAL udev and virtualization KVM and Xen Configure and maintain IPv6 DHCPv6 NIS networking and remote access Access remote files and devices using NFSv4 GFS PVFS NIS and SAMBA

Instruments & Control Systems ,1964 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 *Learn Jmeter in 24 Hours* Alex Nordeen,2020-09-15 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 Table Of Content Chapter 1 Introduction Chapter 2 Installation Guide Chapter 3 Complete Element Reference 1 Thread Group 2 Samplers 3 Listeners 4 Configuration Chapter 4 Hands on with JMeter GUI Chapter 5 Performance Testing using Jmeter Chapter 6 Timers Chapter 7 Assertions 1 Response Assertion 2 Duration Assertion 3 Size Assertion 4 XML Assertion 5 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 **Dr. Dobb's Journal** ,2002 **Apache Jakarta and Beyond** Larne Pekowsky,2005 If you're a Java developer interested in leveraging open source tools to build multitier applications Larne Pekowsky can help this book will walk you all the way through development build testing and deployment This soup to nuts coverage is a rare find Angela Yochum author of J2EE Applications and BEA WebLogic Server Second Edition Prentice Hall 2004 The Jakarta project consists of many powerful open source tools for the Java platform but most lack tutorials or clear online help documentation Apache Jakarta and Beyond is the definitive guide to using Jakarta and other Java open source tools to develop Web applications more efficiently and effectively In this example packed book readers will find An introduction to the philosophy behind the Jakarta project Details on many ready to use Java toolkits including Ant JUnit Cactus Log4J POI Tomcat James Struts and more In depth guidelines on how to develop with multiple toolkits A guide to splitting work along lines of what is available and what must be written Best practices for development such as the model view controller paradigm Numerous examples that can serve as templates for readers own projects The accompanying CD ROM contains templates and complete code examples from the book Whether you are developing client applications Web applications or Web services Apache

Jakarta and Beyond will help you use existing code to simplify the task at hand **Hibernate Search in Action** Emmanuel Bernard, John Griffin, 2009-01-07 Enterprise and web applications require full featured Google quality search capabilities but such features are notoriously difficult to implement and maintain. Hibernate Search builds on the Lucene feature set and offers an easy-to-implement interface that integrates seamlessly with Hibernate, the leading data persistence solution for Java applications. Hibernate Search in Action introduces both the principles of enterprise search and the implementation details a Java developer will need to use Hibernate Search effectively. This book blends the insights of the Hibernate Search lead developer with the practical techniques required to index and manipulate data, assemble and execute search queries and create smart filters for better search results. Along the way the reader masters performance boosting concepts like using Hibernate Search in a clustered environment and integrating with the features already in your applications. This book assumes you're a competent Java developer with some experience using Hibernate and Lucene. Purchase of the print book comes with an offer of a free PDF, ePUB and Kindle eBook from Manning. Also available is all code from the book *Learn JMeter in 1 Day* Krishna Rungta, 2017-05-09 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 included. 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 *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.

Advanced JMeter Susan Sharp, 2023-08-05 Advanced JMeter From Load Testing to Performance Engineering is an indispensable resource for tech professionals aiming at conquering the challenges of today's digital landscape. This report is a finely curated manual aimed at demystifying complex concepts of JMeter and guiding professionals in the transition from basic load testing to performance engineering. This comprehensive guide not only presents simplified explanations of highly technical concepts but also ensures their practical applicability. By the time you finish reading you'll be ready to design

robust systems capable of handling unforeseen traffic spikes thereby improving the end user experience Main Highlights In depth understanding of JMeter A seamless transition from testing to engineering Easy to follow guide to scripting in JMeter Mastering various JMeter elements Simulating real world scenarios using JMeter Embark on a rigorous journey of methodical insights practical examples and exploring industry best tools with Susan Sharp a seasoned IT professional with over two decades of experience in software testing and performance engineering Her outputs based on vast professional experience and impressive knack for didactics engage educate and empower In a world competing for speed and efficiency staying ahead is pivotal This report serves as your trusted companion throughout this journey [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 0Who This Book Is ForThis 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 JMeterIn DetailJMeter 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 approachThe 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 [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

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