



Community Experience Distilled

# Performance Testing with JMeter

## *Second Edition*

Test web applications using Apache JMeter with practical, hands-on examples

Bayo Erinle

# Performance Testing With Jmeter Second Edition

**Bayo Erinle**



## **Performance Testing With Jmeter Second Edition:**

*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 **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 **Practical DevOps, Second Edition** Joakim Verona, 2018-05-30 Understand the benefits of DevOps and continuous delivery and see how they support the agile software development process Key Features Learn how DevOps can accelerate your entire software development life cycle Improve your organization's performance to ensure the smooth production of software and services Get hands on experience in using efficient DevOps tools to better effect Book Description DevOps is a practical field that focuses on delivering business value as efficiently as possible DevOps encompasses all code workflows from testing

environments to production environments It stresses cooperation between different roles and how they can work together more closely as the roots of the word imply Development and Operations Practical DevOps begins with a quick refresher on DevOps and continuous delivery and quickly moves on to show you how DevOps affects software architectures You'll create a sample enterprise Java application that you'll continue to work with through the remaining chapters Following this you will explore various code storage and build server options You will then learn how to test your code with a few tools and deploy your test successfully In addition to this you will also see how to monitor code for any anomalies and make sure that it runs as expected Finally you will discover how to handle logs and keep track of the issues that affect different processes By the end of the book you will be familiar with all the tools needed to deploy integrate and deliver efficiently with DevOps What you will learn Understand how all deployment systems fit together to form a larger system Set up and familiarize yourself with all the tools you need to be efficient with DevOps Design an application suitable for continuous deployment systems with DevOps in mind Store and manage your code effectively using Git Gerrit Gitlab and more Configure a job to build a sample CRUD application Test your code using automated regression testing with Jenkins Selenium Deploy your code using tools such as Puppet Ansible Palletops Chef and Vagrant Who this book is for If you're a developer or system administrator looking to take on larger responsibilities and understand how the infrastructure that builds today's enterprises works this is the book for you This book will also help you greatly if you're an operations worker who would like to better support developers You do not need any previous knowledge of DevOps to understand the concepts in this book

**Guide to Advanced Software Testing, Second Edition** Anne Mette Hass, 2014-10-01 Software testing is a critical aspect of the software development process and this heavily illustrated reference takes professionals on a complete tour of this increasingly important multi dimensional area The book offers a practical understanding of all the most critical software testing topics and their relationships and inter dependencies This unique resource utilizes a wealth of graphics that support the discussions to offer a clear overview of software testing from the definition of testing and the value and purpose of testing through the complete testing process with all its activities techniques and documentation to the softer aspects of people and teams working with testing Practitioners find numerous examples and exercises presented in each chapter to help ensure a complete understanding of the material The book supports the ISTQB certification and provides a bridge from this to the ISO 29119 Software Testing Standard in terms of extensive mappings between the two this is a truly unique feature

**Creating Development Environments with Vagrant - Second Edition** Michael Peacock, 2015-03-12 If you are a developer who wants to have your development environment accurately reflect your live servers to tackle the ever increasing complexity of web and software projects this book is most certainly intended for you It's assumed that you know the basics of Linux systems in the context of web based projects

**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

### **Jira 8 Administration Cookbook** Patrick

Li,2019-06-27 Build customized solutions that fulfil your business requirements using the latest features of Jira 8 Key FeaturesLearn how to customize Jira applications to suit your organizational requirementsExtend Jira's capabilities for custom integrations with other products and services such as Slack and GitHubExplore practical recipes for troubleshooting and securing your Jira instances with best practicesBook Description Jira is a project management tool used widely by organizations to plan track and release software Jira administrators are at the heart of these processes and need to know how to successfully administer and customize Jira offerings This updated Jira 8 Administration Cookbook demonstrates how to efficiently work with Jira Core and Jira Service Desk The book starts with a variety of recipes to help you manage users and workflows You ll learn how to set up custom forms and capture important data with custom fields and screens Next you ll gain insights into the latest email capabilities which assist you with everything from managing outgoing email rules to processing incoming emails for automated issue creation Later you ll be guided through running scripts to automate tasks

getting easy access to logs and even working with tools to troubleshoot problems The book will also ensure you understand how to integrate Jira with Slack set up SSO with Google and delegate administrator permissions Finally the chapter on Jira Service Desk will enable you to set up and customize your own support portal work with internal teams to solve problems and achieve optimized services with Service Level Agreement SLA By the end of this book you ll have the skills to extend and customize your Jira implementation effectively What you will learn Learn how to delegate administrator permissions effectively Gain insights into integrating Jira with Bitbucket Cloud and GitHub Explore ways to collaborate with your internal teams on service requests Understand how to add permissions to fields Learn how to set up SSO with Google Discover how to copy over configuration settings between Jira instances Who this book is for This book is for administrators who are looking to customize support and maintain Jira for their organizations A good understanding of Jira s core concepts is a must to make the most out of this book For certain recipes some knowledge of HTML CSS JavaScript and basic programming will also be helpful

*.NET in Action, Second Edition* Dustin Metzgar, 2024-06-18 Based on the bestselling NET Core in Action the new NET in Action Second Edition has been completely rewritten and updated by original author Dustin Metzgar an industry veteran who helped develop both the original NET Framework and NET Core NET in Action Second Edition presents the big picture of NET application development introducing core concepts like Designing applications to take full advantage of NET 8 Integrating the latest C and NET features Building web services and applications with ASP NET Core Working with data in files and remote services and databases via Entity Framework Core Verifying code with unit and integration tests Make applications ready for internationalization Benchmarking and analyzing application performance NET in Action Second Edition offers a clear headed introduction to implementing full featured cross platform professional applications on the Microsoft NET platform It compiles the must know skills of NET into a format that s clear and easy to follow In each chapter you ll build new applications pick up essential NET skills and test your knowledge against handy exercises

*SYSTEMS INTEGRATION WITH PYTHON 2nd Edition 2024* Diego Rodrigues, 2024-11-03 Discover SYSTEMS INTEGRATION WITH PYTHON 2nd Edition 2024 A Quick and Practical Guide Essential for Students and Professionals your definitive resource for mastering system integration in a practical and efficient way Whether you are a beginner or an experienced professional this book is designed to be the indispensable tool that will take your skills to the next level Written by Diego Rodrigues a best selling author with over 1800 titles published in six languages this manual offers a comprehensive approach that covers everything from the fundamentals of integration to the most advanced practices With clear and direct language each chapter is structured to provide deep learning and immediate application You will learn how to connect systems through RESTful APIs integrate cloud services like AWS Google Cloud and Azure and manage both relational and non relational databases with Python Additionally the book explores messaging techniques process automation with CI CD and much more all aimed at preparing you to face the technological challenges of today and tomorrow Open the sample of this book and see how system

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cybersecurity landscape cloud security cybersecurity threats cybersecurity compliance cybersecurity research cybersecurity technology      **Intelligent Computing and Information and Communication** Subhash Bhalla,Vikrant Bhateja,Anjali A. Chandavale,Anil S. Hiwale,Suresh Chandra Satapathy,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      *Beginning JavaServer Pages* Vivek Chopra,Jon Eaves,Rupert Jones,Sing Li,John T. Bell,2005-02-08 JSP is one of the core technologies for server side Java applications and the 2 0 release which this book covers in detail makes JSP an even more powerful tool Walks Java programmers and Web developers through JSP fundamentals including JSP syntax and directives JSP Expression Language JSP Tag libraries JSTL and techniques for testing and debugging Shows how to use JSP in real world Web applications along with open source frameworks such as Struts WebWork and Turbine software design methodologies and developer tools like Ant junit and CVS as well as popular IDEs integrated development environments Each chapter has an exercise section with solutions on the companion Web site      *Learning Continuous Integration with Jenkins* Nikhil Pathania,2017-12-20 Speed up the software delivery process and software productivity using the latest features of Jenkins Key Features Take advantage of a Continuous Integration and Continuous Delivery solution to speed up productivity and achieve faster software delivery See all the new features introduced in Jenkins 2 x such as Pipeline as code Multibranch pipeline Docker Plugin and more Learn to implement Continuous Integration and Continuous Delivery by orchestrating multiple DevOps tools using Jenkins Book Description In past few years agile software development has seen tremendous growth There is a huge demand for software delivery solutions that are fast yet flexible to numerous amendments As a result Continuous Integration CI and Continuous Delivery CD methodologies are gaining popularity This book starts off by explaining the concepts of CI and its significance in the Agile Next you ll learn how to configure and set up Jenkins in many different ways The book exploits the concept of pipeline as code and various other features introduced in the Jenkins 2 x release to their full potential We also talk in detail about the new Jenkins Blue Ocean interface and the features that help to quickly and easily create a CI pipeline Then we dive into the various features offered by Jenkins one by one exploiting them for CI and CD Jenkins core functionality and flexibility allows it to fit in a variety of environments and can help streamline the development process for all stakeholders Next you ll be introduced to CD and will learn how to achieve it using Jenkins Through this book s wealth of best practices and real world tips you ll discover how easy it is to implement CI and CD using Jenkins What you will learn Get to know some of the most popular ways to set up Jenkins See all the new features introduced in the latest Jenkins such as pipeline as code

Multibranch pipeline and more Manage users projects and permissions in Jenkins to ensure better security Leverage the power of plugins in Jenkins Learn how to create a CI pipeline using Jenkins Blue Ocean Create a distributed build farm using Docker and use it with Jenkins Implement CI and CD using Jenkins See the difference between CD and Continuous Deployment Understand the concepts of CI Who this book is for The book is for those with little or no previous experience with Agile or CI and CD It s a good starting point for anyone new to this field who wants to leverage the benefits of CI and CD to increase productivity and reduce delivery time It s ideal for Build and Release engineers DevOps engineers SCM Software Configuration Management engineers developers testers and project managers If you re already using Jenkins for CI you can take your project to the next level CD

**Proceedings of the 2023 2nd International Conference on Educational Innovation and Multimedia Technology (EIMT 2023)** Chew Fong Peng, Adelina Asmawi, Chuanjun Zhao, 2023-07-04 This is an open access book As a leading role in the global megatrend of scientific innovation China has been creating a more and more open environment for scientific innovation increasing the depth and breadth of academic cooperation and building a community of innovation that benefits all Such endeavors are making new contributions to the globalization and creating a community of shared future To adapt to this changing world and China s fast development in the new era 2023 2nd International Conference on Educational Innovation and Multimedia Technology to be held in March 2023 This conference takes bringing together global wisdom in scientific innovation to promote high quality development as the theme and focuses on cutting edge research fields including Educational Innovation and Multimedia Technology EIMT 2023 encourages the exchange of information at the forefront of research in different fields connects the most advanced academic resources in China and the world transforms research results into industrial solutions and brings together talent technology and capital to drive development The conference sincerely invites experts scholars business people and other relevant personnel from universities scientific research institutions at home and abroad to attend and exchange

**Pro JSP** Matt Raible, Sing Li, David Johnson, Daniel Jepp, Sam Dalton, Charles Brown, 2008-01-01 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

*Software Testing*, **Systems, Software and Services Process Improvement** Xabier Larrucea, Izaskun Santamaria, Rory V. O'Connor, Richard Messnarz, 2018-08-22 This volume constitutes the refereed proceedings of the 25th European Conference on Systems Software and Services Process Improvement EuroSPI conference held in Bilbao Spain in September 2018 The 56 revised full papers presented were carefully reviewed and selected from 95 submissions They are organized in topical sections on SPI context and agility SPI and safety testing SPI and management issues SPI and assessment SPI and safety critical gamifySPI SPI in industry 4 0 best

practices in implementing traceability good and bad practices in improvement safety and security experiences with agile and lean standards and assessment models team skills and diversity strategies SPI in medical device industry empowering the future infrastructure

Mastering ASP.NET Web API Mithun Pattankar, Malendra Hurbuns, 2017-08-11 Leverage ASP Net Web API to build professional web services and create powerful applications About This Book Get a comprehensive analysis of the latest specification of ASP NET Core and all the changes to the underlying platform that you need to know to make the most of the web API See an advanced coverage of ASP NET Core Web API to create robust models for your data create controllers and handle routing and security This book is packed with key theoretical and practical concepts that can be instantly applied to build professional applications using API with Angular 4 Ionic and React Who This Book Is For This book is for Net developers who wants to Master ASP NET Core Web API and have played around with previous ASP NET Web API a little but don t have in depth knowledge of it You need to know Visual Studio and C and have some HTML CSS and JavaScript knowledge What You Will Learn Acquire conceptual and hands on knowledge of ASP NET Core MVC Web API Learn about HTTP methods the structure of HTTP content internet media types and how servers respond to HTTP requests and their associated HTTP codes Explore middleware filters routing and unit testing Optimize Web API implementations Develop a secure Web API interface Deploy Web API projects to various platforms Consume your web API in front end application based on Angular 4 Bootstrap and Ionic Implement and explore the current trends in service architecture In Detail Microsoft has unified their main web development platforms This unification will help develop web applications using various pieces of the ASP NET platform that can be deployed on both Windows and LINUX With ASP NET Core Web API it will become easier than ever to build secure HTTP services that can be used from any client Mastering ASP NET Web API starts with the building blocks of the ASP NET Core then gradually moves on to implementing various HTTP routing strategies in the Web API We then focus on the key components of building applications that employ the Web API such as Kestrel Middleware Filters Logging Security and Entity Framework Readers will be introduced to take the TDD approach to write test cases along with the new Visual Studio 2017 live unit testing feature They will also be introduced to integrate with the database using ORMs Finally we explore how the Web API can be consumed in a browser as well as by mobile applications by utilizing Angular 4 Ionic and ReactJS By the end of this book you will be able to apply best practices to develop complex Web API consume them in frontend applications and deploy these applications to a modern hosting infrastructure Style and approach Using a hands on approach we cover both the conceptual as well as the technical aspects of the ASP NET Core Web API framework

*In-Sprint Automation Mastery* Partha Sarathi Samal, Suresh Kumar Palus, Behrang Zandi, Sai Kiran Padmam, 2025-01-16 In the dynamic and fast paced world of software development staying ahead of the curve is not just an advantage but a necessity This book In Sprint Automation Mastery Elevate Your Agile Testing Game is designed to equip software professionals developers testers project managers and Agile practitioners with the knowledge

strategies and tools needed to excel in a rapidly evolving industry By focusing on in sprint automation this guide provides a comprehensive approach to mastering Agile testing enabling teams to achieve both speed and quality without compromise Our journey in writing this book has been both challenging and deeply rewarding Drawing on years of experience research and hands on application we have distilled our knowledge into a practical guide that offers actionable insights into in sprint automation Each chapter is crafted to deliver real world strategies complete with tools frameworks and examples allowing readers to integrate these practices directly into their Agile workflows

Web Information Systems and Applications Weiwei Ni,Xin Wang,Wei Song,Yukun Li,2019-09-17 This book constitutes the proceedings of the 16th International Conference on Web Information Systems and Applications WISA 2019 held in Qingdao China in September 2019 The 39 revised full papers and 33 short papers presented were carefully reviewed and selected from 154 submissions The papers are grouped in topical sections on machine learning and data mining cloud computing and big data information retrieval natural language processing data privacy and security knowledge graphs and social networks blockchain query processing and recommendations

*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 IntermediateJava 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

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