OMB No. 1213569889047

Architecting Modern Java Ee Applications Pdf

Book Architecting Modern Java EE Applications Java vs Java EE: What's The Differences? WAS: Java EE architecture: Containers, Components, Annotations Java EE, Jakarta EE, MicroProfile, Or Maybe All Of Them? by Sebastian Daschner What Software Architects Do That Programmers DON'T Architecture for Scaling Java Applications to Multiple Servers Books every software engineer should read in 2024. System Design for Beginners Course Real-World Java EE 6 Tutorial How to Crack Any System Design Interview 10 Architecture Patterns Used In Enterprise Software Development Today Getting the Basics - Software Architecture Introduction (part 1) All Major Software Architecture Patterns Explained in 7 Minutes | Meaning, Design, Models \u0026 Examples Backend web development - a complete overview Everything You NEED to Know About WEB APP Architecture Java EE Youngster Architecture of Java EE | Learning J2EE in English | Learn Java EE Tutorial Arun Gupta - Refactor your Java EE application using Microservices and Containers Top 5 Most Used Architecture Patterns Two Minutes Talk with Sebastian Daschner Microservices Explained in 5 Minutes Making Enterprise Java Architecture Sustainable Enterprise Application Integration Patterns for Java EE Cloud Applications Java EE : What is Model 1 Architecture?
Microservice Architecture
Practical recipes for enterprise Java developers to deliver large scale applications with Jakarta EE, 2nd Edition
Redefining the Architect's Role in the Digital Enterprise
OSGi in Action
Java EE 8 and Angular
Fundamental Design Solutions for SOAP/WSDL and RESTful Web Services
Building RESTful Web Services with Java EE 8
Modernizing Enterprise Java
Building Modern Web Applications With Jakarta EE, NoSQL Databases and Microservices
Service Design Patterns
Java Application Architecture
Understanding single-page web applications
Modern Java Web Development
Enterprise Java Microservices
Build enterprise-ready scalable applications with architectural design patterns
Practical Techniques for Improving JVM Application Performance
A Craftsman's Guide to Software Structure and Design
The Big Picture
The Software Architect Elevator
Master techniques such as memory optimization, caching, concurrency, and multithreading to achieve maximum performance from your enterprise applications.
Java EE 8 Cookbook
Microservices Best Practices for Java

MANN LYRIC

Microservice Architecture "O'Reilly Media, Inc."
An enterprise Java developer's guide to learning JAX-RS, context and dependency injection, JavaServer Faces (JSF), and microservices with Eclipse MicroProfile using the latest features of Jakarta EE Key Features Explore Jakarta EE's latest features and API specifications and discover their benefits Build and deploy microservices using Jakarta EE 8 and Eclipse MicroProfile Build robust RESTful web services for various enterprise scenarios using the JAX-RS, JSON-P, and JSON-B APIs Book Description Jakarta EE is widely used around the world for developing enterprise applications for a variety of domains. With this book, Java professionals will be able to enhance their skills to deliver powerful enterprise solutions using practical recipes. This second edition of the Jakarta EE Cookbook takes you through the improvements introduced in its latest version and helps you get hands-on with its significant APIs and features used for server-side development. You'll use Jakarta EE for creating RESTful web services and web applications with the JAX-RS, JSON-P, and JSON-B APIs and learn how you can improve the security of your enterprise solutions. Not only will you learn how to use the most important servers on the market, but you'll also learn to make the best of what they have to offer for your project. From an architectural point of view, this Jakarta book covers microservices, cloud computing, and containers. It allows you to explore all the tools for building reactive applications using Jakarta EE and core Java features such as lambdas. Finally, you'll discover how professionals can improve their projects by engaging with and contributing to the community. By the end of this book, you'll have become proficient in developing and deploying enterprise applications using Jakarta EE. What you will learn Work with Jakarta EE's most commonly used APIs and features for server-side development Enable fast and secure communication in web applications with the help of HTTP2 Build enterprise applications with reusable components Break down monoliths into microservices using Jakarta EE and Eclipse MicroProfile Improve your enterprise applications with multithreading and concurrency Run applications in the cloud with the help of containers Get to grips with continuous delivery and deployment for shipping your applications effectively Who this book is for This book is for Java EE developers who want to build enterprise applications or update their legacy apps with Jakarta EE's latest features and specifications. Some experience of working with Java EE and knowledge of web and cloud computing will assist with understanding the concepts covered in this book.
Practical recipes for enterprise Java developers to deliver large scale applications with Jakarta EE, 2nd Edition "O'Reilly Media, Inc."
A complete practitioner's catalog of proven domain services design solutions that can help any organization leverage SOA's full benefits * *Provides a vocabulary of proven SOA design solutions, with concrete examples and code that is easy for architects to adapt and implement. *By Rob Daigneau, one of the industry's leading experts in complex systems integration. *Helps architects and IT leaders accurately set stakeholder expectations for major SOA initiatives. Service-oriented architectures are typically called upon to deliver two general categories of services: enterprise services and domain services. Enterprise services are essentially composite services that typically leverage technologies such as message-oriented middleware. Domain services are the building blocks these composites depend upon. Each service category is best served by a distinct set of design solutions. This is the first book to systematically identify and explain best practice patterns for domain services. Rob Daigneau expands upon the Service Layer concept (covered expertly by Fowler in Patterns of Enterprise Application Architecture) domain services can be used with Enterprise Integration Patterns (made famous by Hohpe and Woolf). Daigneau begins by reviewing SOA concepts, illuminating the distinctions between enterprise and domain services, and identifying key relationships between domain services and other pattern groups. Next, he introduces each essential pattern for creating and delivering domain services, providing a vocabulary of design solutions that architects and other IT professionals can implement by referencing and adapting the concrete examples he supplies.
Redefining the Architect's Role in the Digital Enterprise McGraw Hill Professional
Learn the fundamentals of Java EE 8 APIs to build effective web services Key Features Design modern and stylish web services with Java EE APIs Secure your web services with JSON Web Tokens Explore the advanced concepts of RESTful web services and the JAX-RS API Book Description Java Enterprise Edition is one of the leading application programming platforms for enterprise Java development. With Java EE 8 finally released and the first application servers now available, it is time to take a closer look at how to develop modern and lightweight web services with the latest API additions and improvements. Building RESTful Web Services with Java EE 8 is a comprehensive guide that will show you how to develop state-of-the-art RESTful web services with the latest Java EE 8 APIs. You will begin with an overview of Java EE 8 and the latest API additions and improvements. You will then delve into the details of implementing synchronous RESTful web services and clients with JAX-RS. Next up, you will learn about the specifics of data binding and content marshalling using the JSON-B 1.0 and JSON-P 1.1 APIs. This book also guides you in leveraging the power of asynchronous APIs on the server and client side, and you will learn to use server-sent events (SSEs) for push communication. The final section covers advanced web service topics such as validation, JWT security, and diagnosability. By the end of this book, you will have implemented several working web services and have a thorough understanding of the Java EE 8 APIs required for lightweight web service development. What you will learn Dive into the latest Java EE 8 APIs relevant for developing web services Use the new JSON-B APIs for easy data binding Understand how JSON-P API can be used for flexible processing Implement synchronous and asynchronous JAX-RS clients Use server-sent events to implement server-side code Secure Java EE 8 web services with JSON Web Tokens Who this book is for If you're a Java developer who wants to learn how to implement web services using the latest Java EE 8 APIs, this book is for you. Though no prior knowledge of Java EE 8 is required, experience with a previous Java EE version will be beneficial.
OSGi in Action Simon and Schuster
Expert Solutions and State-of-the-Art Code Examples SOA Using Java™ Web Services is a hands-on guide to implementing Web services and Service Oriented Architecture (SOA) with today’s Java EE 5 and Java SE 6 platforms. Author Mark Hansen presents in explicit detail the information that enterprise developers and architects need to succeed, from best-practice design techniques to state-of-the-art code samples. Hansen covers creating, deploying, and invoking Web services that can be composed into loosely coupled SOA applications. He begins by reviewing the “big picture,” including the challenges of Java-based SOA development and the limitations of traditional approaches. Next, he systematically introduces the latest Java Web Services (JWS) APIs and walks through creating Web services that integrate into a comprehensive SOA solution. Finally, he shows how application frameworks based on JWS can streamline the entire SOA development process and introduces one such framework: SOA-J. The book Introduces practical techniques for managing the complexity of Web services and SOA, including best-practice design examples Offers hard-won insights into building effective SOA applications with Java Web Services Illuminates recent major JWS improvements–including two full chapters on JAX-WS 2.0 Thoroughly explains SOA integration using WSDL, SOAP, Java/XML mapping, and JAXB 2.0 data binding Walks step by step through packaging and deploying Web services components on Java EE 5 with JSR-181 (WS-Metadata 2.0) and JSR-109 Includes specific code solutions for many development issues, from publishing REST endpoints to consuming SOAP services with WSDL Presents a complete case study using the JWS APIs, together with an Ajax front end, to build a SOA application integrating Amazon, Yahoo Shopping, and eBay Contains hundreds of code samples–all tested with the GlassFish Java EE 5 reference implementation–that are downloadable from the companion Web site, http://soabook.com. Foreword Preface Acknowledgments About the Author Chapter 1: Service-Oriented Architecture with Java Web Services Chapter 2: An Overview of Java Web Services Chapter 3: Basic SOA Using REST Chapter 4: The Role of WSDL, SOAP, and Java/XML Mapping in SOA Chapter 5: The JAXB 2.0 Data Binding Chapter 6: JAX-WS–Client-Side Development Chapter 7: JAX-WS 2.0–Server-Side Development Chapter 8: Packaging and Deployment of SOA Components (JSR-181 and JSR-109) Chapter 9: SOAShopper: Integrating eBay, Amazon, and Yahoo! Shopping Chapter 10: Ajax and Java Web Services Chapter 11: WSDL-Centric Java Web Services with SOA-J Appendix A: Java, XML, and Web Services Standards Used in This Book Appendix B: Software Configuration Guide Appendix C: Namespace Prefixes Glossary References Index
Java EE 8 and Angular Architecting Modern Java EE ApplicationsDesigning lightweight, business-oriented enterprise applications in the age of cloud, containers, and Java EE 8
What is OSGi? Simply put, OSGi is a standardized technology that allowsdevelopers to create the highly modular Java applications that are required forenterprise development. OSGi lets you install, start, stop, update, or uninstallcomponents without taking down your entire system. The interest in OSGi basedapplications has exploded since major vendors like Sun, Spring, Oracle,BEA, and IBM

have gotten behind the standard. OSGi in Action is a comprehensive guide to OSGi with two primary goals.First, it provides a clear introduction to OSGi concepts with examples that arerelevant both for architects and developers. Then, it explores numerous practicalscenarios and techniques, answering questions like: How much of OSGi doyou actually need? How do you embed OSGi inside other containers? What arethe best practices for moving legacy systems to OSGi? 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.

Fundamental Design Solutions for SOAP/WSDL and RESTful Web Services Apress

Build Modern Web Apps with JakartaEE, Jmoordb, and Vaadins Key Features ● Learn about the Java Enterprise Edition/Jakarta Enterprise Edition specifications. ● Learn how to create applications with frameworks such as Java Server Faces, Eclipse krazo and Vaadin. ● Get familiar with NoSQL databases and learn how to create Java applications that interact using Jakarta NoSQL and Jmoordb. ● Learn how to test and secure your application. ● Learn about Microprofile and how to create microservices with java. Description For many years, Java EE has been an important platform for mission-critical enterprise applications. To accelerate the development of enterprise applications for a cloud-native world, leading software vendors collaborated to transfer Java EE technologies to the Eclipse Foundation, where they will evolve under the Jakarta EE brand. This book will be your comprehensive guide to creating Jakarta EE applications and microservices with Microprofile. The book begins with an introduction to Jakarta EE and quickly goes on to teach you about the various databases and their advantages. After this, you will explore the JNoSQL and Jmoordb frameworks to understand how to build Jakarta EE applications with NoSQL databases. Moving forward, you'll explore Eclipse MicroProfile and see how it helps build microservices with Java. Also, you will learn about various development applications such as Java Server Faces, Eclipse Krazos, PrimeFaces, Vaadin, and understand how to integrate them with your backend. Towards the end, you will learn about security, testing, and understanding continuous integration. What will you learn ● Learn how to use the Jmoordb framework for Jakarta EE applications. ● Optimize Enterprise Java for microservices architecture using Eclipse MicroProfile. ● Create Web applications using Java Server Faces. ● Building a modern web application using Vaadin. ● Learn how to implement security using IdentityStore and JWT. ● Create CI/CD pipelines for Jakarta EE applications. Who this book is for This book is for developers with no previous experience in creating business applications with Java and for those who want to know about APIs and new frameworks for the development of cloud-oriented applications. Table of Contents 1. Jakarta EE Platform 2. NoSQL 3. Jakarta NOSQL 4. Understanding JMoordb 5. Exploring Microprofile 6. Java Server Faces 7. Vaadin 8. Integration Vaadin, JMoordb and NoSQL 9. Eclipse Krazos and Security of Microservices 10. Testing and Continuous Integration

Building RESTful Web Services with Java EE 8 Apress

Find out how to craft effective, business-oriented Java EE 8 applications that target customer's demands in the age of Cloud platforms and container technology. About This Book Understand the principles of modern Java EE and how to realize effective architectures Gain knowledge of how to design enterprise software in the age of automation, Continuous Delivery and Cloud platforms Learn about the reasoning and motivations behind state-of-the-art enterprise Java technology, that focuses on business Who This Book Is For This book is for experienced Java EE developers who are aspiring to become the architects of enterprise-grade applications, or software architects who would like to leverage Java EE to create effective blueprints of applications. What You Will Learn What enterprise software engineers should focus on Implement applications, packages, and components in a modern way Design and structure application architectures Discover how to realize technical and cross-cutting aspects Get to grips with containers and container orchestration technology Realize zero-dependency, 12-factor, and Cloud-native applications Implement automated, fast, reliable, and maintainable software tests Discover distributed system architectures and their requirements In Detail Java EE 8 brings with it a load of features, mainly targeting newer architectures such as microservices, modernized security APIs, and cloud deployments. This book will teach you to design and develop modern, business-oriented applications using Java EE 8. It shows how to structure systems and applications, and how design patterns and Domain Driven Design aspects are realized in the age of Java EE 8. You will learn about the concepts and principles behind Java EE applications, and how to effect communication, persistence, technical and cross-cutting concerns, and asynchronous behavior. This book covers Continuous Delivery, DevOps, infrastructure-as-code, containers, container orchestration technologies, such as Docker and Kubernetes, and why and especially how Java EE fits into this world. It also covers the requirements behind containerized, zero-dependency applications and how modern Java EE application servers support these approaches. You will also learn about automated, fast, and reliable software tests, in different test levels, scopes, and test technologies. This book covers the prerequisites and challenges of distributed systems that lead to microservice, shared-nothing architectures. The challenges and solutions of consistency versus scalability will further lead us to event sourcing, event-driven architectures, and the CQRS principle. This book also includes the nuts and bolts of application performance as well as how to realize resilience, logging, monitoring and tracing in a modern enterprise world. Last but not least the demands of securing enterprise systems are covered. By the end, you will understand the ins and outs of Java EE so that you can make critical design decisions that not only live up to, but also surpass your clients' expectations. Style and approach This book focuses on solving business problems and meeting customer demands in the enterprise world. It covers how to create enterprise applications with reasonable technology choices, free of cargo-cult and over-engineering. The aspects shown in this book not only demonstrate how to realize a certain solution, but also explain its motivations and reasoning.

Modernizing Enterprise Java Packt Publishing Ltd

The way developers design, build, and run software has changed significantly with the evolution of microservices and containers. These modern architectures use new primitives that require a different set of practices than most developers, tech leads, and architects are accustomed to. With this focused guide, Bilgin Ibryam and Roland Huß from Red Hat provide common reusable elements, patterns, principles, and practices for designing and implementing cloud-native applications on Kubernetes. Each pattern includes a description of the problem and a proposed solution with Kubernetes specifics. Many patterns are also backed by concrete code examples. This book is ideal for developers already familiar with basic Kubernetes concepts who want to learn common cloud native patterns. You'll learn about the following pattern categories: Foundational patterns cover the core principles and practices for building container-based cloud-native applications. Behavioral patterns explore finer-grained concepts for managing various types of container and platform interactions. Structural patterns help you organize containers within a pod, the atom of the Kubernetes platform. Configuration patterns provide insight into how application configurations can be handled in Kubernetes. Advanced patterns covers more advanced topics such as extending the platform with operators.

Building Modern Web Applications With Jakarta EE, NoSQL Databases and Microservices Packt Publishing Ltd

The practice of enterprise application development has benefited from the emergence of many new enabling technologies. Multi-tiered object-oriented platforms, such as Java and .NET, have become commonplace. These new tools and technologies are capable of building powerful applications, but they are not easily implemented. Common failures in enterprise applications often occur because their developers do not understand the architectural lessons that experienced object developers have learned. Patterns of Enterprise Application Architecture is written in direct response to the stiff challenges that face enterprise application developers. The author, noted object-oriented designer Martin Fowler, noticed that despite changes in technology--from Smalltalk to CORBA to Java to .NET--the same basic design ideas can be adapted and applied to solve common problems. With the help of an expert group of contributors, Martin distills over forty recurring solutions into patterns. The result is an indispensable handbook of solutions that are applicable to any enterprise application platform. This book is actually two books in one. The first section is a short tutorial on developing enterprise applications, which you can read from start to finish to understand the scope of the book's lessons. The next section, the bulk of the book, is a detailed reference to the patterns themselves. Each pattern provides usage and implementation information, as well as detailed code examples in Java or C#. The entire book is also richly illustrated with UML diagrams to further explain the concepts. Armed with this book, you will have the knowledge necessary to make important architectural decisions about building an enterprise application and the proven patterns for use when building them. The topics covered include · Dividing an enterprise application into layers · The major approaches to organizing business logic · An in-depth treatment of mapping between objects and relational databases · Using Model-View-Controller to organize a Web presentation · Handling concurrency for data that spans multiple transactions · Designing distributed object interfaces

Service Design Patterns Simon and Schuster

Microservices can have a positive impact on your enterprise—just ask Amazon and Netflix—but you can fall into many traps if you don’t approach them in the right way. This practical guide covers the entire microservices landscape, including the principles, technologies, and methodologies of this unique, modular style of system building. You’ll learn about the experiences of organizations around the globe that have successfully adopted microservices. In three parts, this book explains how these services work and what it means to build an application the Microservices Way. You’ll explore a design-based approach to microservice architecture with guidance for implementing various elements. And you’ll get a set of recipes and practices for meeting practical, organizational, and cultural challenges to microservice adoption. Learn how microservices can help you drive business objectives Examine the principles, practices, and culture that define microservice architectures Explore a model for creating complex systems and a design process for building a microservice architecture Learn the fundamental design concepts for individual microservices Delve into the operational elements of a microservices architecture, including containers and service discovery Discover how to handle the challenges of introducing microservice architecture in your organization

Java Application Architecture Addison-Wesley

While containers, microservices, and distributed systems dominate discussions in the tech world, the majority of applications in use today still run monolithic architectures that follow traditional development processes. This practical book helps developers examine long-established Java-based models and demonstrates how to bring these monolithic applications successfully into the future. Relying on their years of experience modernizing applications, authors Markus Eisele and Natale Vinto walk you through the steps necessary to update your organization's Java applications. You'll discover how to dismantle your monolithic application and move to an up-to-date software stack that works across cloud and on-premises installations. Learn cloud native application basics to understand what parts of your organization's Java-based applications and platforms need to migrate and modernize Understand how enterprise Java specifications can help you transition projects and teams Build a cloud native platform that supports effective development without falling into buzzword traps Find a starting point for your migration projects by identifying candidates and staging them through modernization steps Discover how to complement a traditional enterprise Java application with components on top of containers and Kubernetes

Understanding single-page web applications Lulu.com

The Definitive Guide to Java Platform, Enterprise Edition 7 Java EE 7: The Big Picture uniquely explores the entire Java EE 7 platform in an all-encompassing style while examining each tier of the platform in enough detail so that you can select the right technologies for specific project needs. In this authoritative guide, Java expert Danny Coward walks you through the code, applications, and frameworks that power the platform. Take full advantage of the robust capabilities of Java EE 7, increase your productivity, and meet enterprise demands with help from this Oracle Press resource. Explore the features of the Java servlet model and Java servlet API Create dynamic web content with JavaServer Pages and JavaServer Faces Build websites for nonbrowser clients with JAX-RS Push data to web clients using Java WebSockets Secure web applications Work with web component APIs Maximize enterprise beans for multithreading, asynchronous processes, transactions, and more Access relational databases with the Java Database Connectivity APIs and the Java Persistence API Understand the packaging and deployment mechanisms of Java EE applications Work with Java EE Contexts and Dependency Injection Secure enterprise beans in a Java EE application Enable parallel processing with Java EE concurrency APIs

Modern Java Web Development Apress

Master Java EE design pattern implementation to improve yourdesign skills and your application’s architecture Professional Java EE Design Patterns is the perfectcompanion for anyone who wants to work more effectively with JavaEE, and the only resource that covers both the theory andapplication of design patterns in solving real-world problems. Theauthors guide readers through both the fundamental and advancedfeatures of Java EE 7, presenting patterns throughout, anddemonstrating how they are used in day-to-day problem solving. As the most popular programming language in community-drivenenterprise software, Java EE provides an API and runtimeenvironment that is a superset of Java SE. Written for the juniorand experienced Java EE developer seeking to improve design qualityand effectiveness, the book covers areas including: Implementation and problem-solving with design patterns Connection between existing Java SE design patterns and newJava EE concepts Harnessing the power of Java EE in design patterns Individually-based focus that fully explores each pattern Colorful war-stories showing how patterns were used in thefield to solve real-life problems Unlike most Java EE books that simply offer descriptions orrecipes, this book drives home the implementation of the pattern toreal problems to ensure that the reader learns how the patternsshould be used and to be aware of their pitfalls. For the programmer looking for a comprehensive guide that isactually useful in the everyday workflow, Professional Java EEDesign Patterns is the definitive resource on the market.

Enterprise Java Microservices Addison-Wesley

In-depth examination of concepts and principles of Web application development Completely revised and updated, this popular book returns with coverage on a range of new technologies. Authored by a highly respected duo, this edition provides an in-depth examination of the core concepts and general principles of Web application development. Packed with examples featuring specific technologies, this book is divided into three sections: HTTP protocol as a foundation for Web applications, markup languages (HTML, XML, and CSS), and survey of emerging technologies. After a detailed introduction to the history of Web applications, coverage segues to core Internet protocols, Web browsers, Web application development, trends and directions, and more. Includes new

coverage on technologies such as application primers, Ruby on Rails, SOAP, XPath, P3P, and more Explores the fundamentals of HTTP and its evolution Looks at HTML and its roots as well as XML languages and applications Reviews the basic operation of Web Servers, their functionality, configuration, and security Discusses how to process flow in Web browsers and looks at active browser pages Addresses the trends and various directions that the future of Web application frameworks may be headed This book is essential reading for anyone who needs to design or debug complex systems, and it makes it easier to learn the new application programming interfaces that arise in a rapidly changing Internet environment.

Build enterprise-ready scalable applications with architectural design patterns Packt Publishing Ltd
Get more control of your applications performances in development and production and know how to meet your Service Level Agreement on critical microservices. Key Features Learn how to write a JavaEE application with performance constraints (Service Level Agreement—SLA) leveraging the platform Learn how to identify bottlenecks and hotspots in your application to fix them Ensure that you are able to continuously control your performance in production and during development Book Description The ease with which we write applications has been increasing, but with this comes the need to address their performance. A balancing act between easily implementing complex applications and keeping their performance optimal is a present-day need. In this book, we explore how to achieve this crucial balance while developing and deploying applications with Java EE 8. The book starts by analyzing various Java EE specifications to identify those potentially affecting performance adversely. Then, we move on to monitoring techniques that enable us to identify performance bottlenecks and optimize performance metrics. Next, we look at techniques that help us achieve high performance: memory optimization, concurrency, multi-threading, scaling, and caching. We also look at fault tolerance solutions and the importance of logging. Lastly, you will learn to benchmark your application and also implement solutions for continuous performance evaluation. By the end of the book, you will have gained insights into various techniques and solutions that will help create high-performance applications in the Java EE 8 environment. What you will learn Identify performance bottlenecks in an application Locate application hotspots using performance tools Understand the work done under the hood by EE containers and its impact on performance Identify common patterns to integrate with Java EE applications Implement transparent caching on your applications Extract more information from your applications using Java EE without modifying existing code Ensure constant performance and eliminate regression Who this book is for If you're a Java developer looking to improve the performance of your code or simply wanting to take your skills up to the next level, then this book is perfect for you.

Practical Techniques for Improving JVM Application Performance IBM Redbooks
Leverage the lethal combination of Docker and Kubernetes to automate deployment and management of Java applications About This Book Master using Docker and Kubernetes to build, deploy and manage Java applications in a jiff Learn how to create your own Docker image and customize your own cluster using Kubernetes Empower the journey from development to production using this practical guide. Who This Book Is For The book is aimed at Java developers who are eager to build, deploy, and manage applications very quickly using container technology. They need have no knowledge of Docker and Kubernetes. What You Will Learn Package Java applications into Docker images Understand the running of containers locally Explore development and deployment options with Docker Integrate Docker into Maven builds Manage and monitor Java applications running on Kubernetes clusters Create Continuous Delivery pipelines for Java applications deployed to Kubernetes In Detail Imagine creating and testing Java EE applications on Apache Tomcat Server or Wildfly Application server in minutes along with deploying and managing Java applications swiftly. Sounds too good to be true? But you have a reason to cheer as such scenarios are only possible by leveraging Docker and Kubernetes. This book will start by introducing Docker and delve deep into its networking and persistent storage concepts. You will then proceed to learn how to refactor monolith application into separate services by building an application and then packaging it into Docker containers. Next, you will create an image containing Java Enterprise Application and later run it using Docker. Moving on, the book will focus on Kubernetes and its features and you will learn to deploy a Java application to Kubernetes using Maven and monitor a Java application in production. By the end of the book, you will get hands-on with some more advanced topics to further extend your knowledge about Docker and Kubernetes. Style and approach An easy-to-follow, practical guide that will help Java developers develop, deploy, and manage Java applications efficiently.

A Craftsman's Guide to Software Structure and Design Packt Publishing Ltd
Performance tuning is an experimental science, but that doesn’t mean engineers should resort to guesswork and folklore to get the job done. Yet that’s often the case. With this practical book, intermediate to advanced Java technologists working with complex technology stacks will learn how to tune Java applications for performance using a quantitative, verifiable approach. Most resources on performance tend to discuss the theory and internals of Java virtual machines, but this book focuses on the practicalities of performance tuning by examining a wide range of aspects. There are no simple recipes, tips and tricks, or algorithms to learn. Performance tuning is a process of defining and determining desired outcomes. And it requires diligence. Learn how Java principles and technology make the best use of modern hardware and operating systems Explore several performance tests and common anti-patterns that can vex your team Understand the pitfalls of measuring Java performance numbers and the drawbacks of microbenchmarking Dive into JVM garbage collection logging, monitoring, tuning, and tools Explore JIT compilation and Java language performance techniques Learn performance aspects of the Java Collections API and get an overview of Java concurrency

The Big Picture

Apress
Java Enterprise Edition (Java EE) continues to be one of the leading Java technologies and platforms. Beginning Java EE 7 is the first tutorial book on Java EE 7. Step by step and easy to follow, this book describes many of the Java EE 7 specifications and reference implementations, and shows them in action using practical examples. This definitive book also uses the newest version of GlassFish to deploy and administer the code examples. Written by an expert member of the Java EE specification request and review board in the Java Community Process (JCP), this book contains the best information possible, from an expert’s perspective on enterprise Java technologies. What you’ll learn Get started with the latest version of the Java EE Platform. Explore and use the EJB and JPA APIs from entities to session beans to message driven beans, and more. Discover web tier development APIs including JSF, Facelets and Expression Language. Uncover SOAP web services, RESTful web services, and more available in this latest Java EE. Create dynamic user interfaces for your enterprise and transactional Java applications. Who this book is for This book is for Java or Spring programmers with some experience and those new to Java EE platform. Architects will also find information about how to layer their Java EE applications. Table of Contents Java EE 7 Environment Context and Dependency Injection Bean Validation Java Persistence API Object-Relational Mapping Managing Persistent Object Enterprise Java Beans Callbacks, Timer Service, and Authorization Interceptors and Transactions JavaServer Faces Processing and Navigation XML and JSON Messaging SOAP Web Services RESTful Web Service

The Software Architect Elevator Pearson Education
Java Enterprise Edition (Java EE) continues to be one of the leading Java technologies and platforms from Oracle (previously Sun). Beginning Java EE 6 Platform with GlassFish 3, Second Edition is this first tutorial book on the final version of the Java EE 6 Platform. Step by step and easy to follow, this book describes many of the Java EE 6 specifications and reference implementations, and shows them in action using practical examples. This book uses the new version of GlassFish 3 to deploy and administer the code examples. Written by an expert member of the Java EE 6 specification request and review board in the Java Community Process (JCP), this book contains the best information possible, from an expert’s perspective on enterprise Java technologies.

Master techniques such as memory optimization, caching, concurrency, and multithreading to achieve maximum performance from your enterprise applications. Packt Publishing Ltd
Harness the power of Jakarta EE to build sturdy back ends while applying Vue.js on the front end. The demand for modern, high-performing enterprise web applications is growing swiftly. The basic HTML front end is no longer enough to meet customer demands. This book shows you how to unlock professional full-stack web development using Jakarta EE and Vue.js. First, you will review the fundamental concepts of Vue.js and essential features of Jakarta EE. You'll then see how to build web applications through every stage of the process, taking into consideration requirement analysis, data model design, code design, the UI, and technical designs, all the way through to implementation, testing, production deployment, and monitoring. Towards the end of the book, you will also learn about the key design patterns and best practices that underpin professional full-stack web development. Full-stack development is the way forward on the web, and using JakartaEE and Vue.js is a great place to start. Get up-to-speed using this book today. What You'll Learn Connect an application's frontend and backend with Vue.js and Jakarta EE Build enterprise web applications from start to finish Test, secure and deploy your enterprise web applications Apply common patterns when building full stack applications Understand the current IT architecture situation of a company, and define a roadmap to accomplish the company goals Create decoupled applications using software craftsmanship ideas Who This Book Is For Java/Jakarta EE developers who would like to gain a stronghold on both frontend and backend development. Basic knowledge of Java EE is assumed.