

Elasticsearch The Definitive Guide

Mastering Elasticsearch Cybellium 2023-09-26 Unveil the Power of Elasticsearch for Efficient Data Search and Analysis Are you ready to explore the realm of advanced data search and analysis? "Mastering Elasticsearch" is your definitive guide to harnessing the capabilities of Elasticsearch for unlocking insights and making informed decisions. Whether you're a data enthusiast or a professional seeking to optimize data retrieval, this comprehensive book equips you with the knowledge and skills to navigate the intricacies of Elasticsearch and create high-performance applications. Key Features: 1. Deep Dive into Elasticsearch: Immerse yourself in the core principles of Elasticsearch, understanding its architecture, indexing, and querying mechanisms. Build a strong foundation that empowers you to harness the full potential of this powerful search engine. 2. Indexing Strategies: Explore advanced indexing techniques for efficiently storing and retrieving data. Learn about document structures, data normalization, and custom mapping to optimize search performance. 3. Search Query Mastery: Master the art of crafting precise and complex search queries. Dive into full-text search, filtering, aggregation, and geospatial queries, enabling you to extract meaningful insights from large datasets. 4. Scaling and Performance Optimization: Discover strategies for scaling Elasticsearch to handle massive amounts of data. Learn about sharding, replication, and optimization techniques that ensure high availability and responsiveness. 5. Data Analysis and Visualization: Uncover techniques for data analysis and visualization using Elasticsearch. Explore aggregations, histograms, and date math, and learn how to create insightful visualizations that aid decision-making. 6. Elasticsearch for Logging and Monitoring: Delve into the world of logging and monitoring using Elasticsearch and the ELK stack (Elasticsearch, Logstash, Kibana). Learn how to centralize logs, monitor system performance, and gain real-time insights. 7. Security and Access Control: Explore strategies for securing your Elasticsearch cluster. Learn about authentication, authorization, and encryption mechanisms that protect your data and prevent unauthorized access. 8. Machine Learning Integration: Discover how to integrate machine learning capabilities into Elasticsearch workflows. Learn how to build and deploy machine learning models for tasks such as anomaly detection and predictive analysis. 9. Elasticsearch in Real-World Applications: Explore real-world use cases of Elasticsearch across industries. From e-commerce to healthcare, learn how organizations are leveraging Elasticsearch to drive business success. 10. Future Trends and Advancements: Gain insights into the future trends and advancements in Elasticsearch. Explore topics such as new features, integration possibilities, and emerging use cases. Who This Book Is For: "Mastering Elasticsearch" is an essential resource for data professionals, developers, system administrators, and enthusiasts eager to unlock the potential of Elasticsearch. Whether you're a novice seeking a comprehensive introduction or an experienced practitioner aiming to enhance your Elasticsearch skills, this book will guide you through the intricacies and empower you to create high-performance applications.

Frontier Computing Jason C. Hung 2019-05-18 This book presents the proceedings of the 6th International Conference on Frontier Computing, held in Kuala Lumpur, Malaysia on July 3-6, 2018, and provides comprehensive coverage of the latest advances and trends in information technology, science and engineering. It addresses a number of broad themes, including communication networks, business intelligence and knowledge management, web intelligence, and related fields that inspire the development of information technology. The contributions cover a wide range of topics: database and data mining, networking and communications, web and internet of things, embedded systems, soft computing, social network analysis, security and privacy, optical communication, and ubiquitous/pervasive computing. Many of the papers outline promising future research directions. The book is a valuable resource for students, researchers and professionals, and also offers a useful reference guide for newcomers to the field.

Mining Software Engineering Data for Software Reuse Themistoklis Diamantopoulos 2020-03-30 This monograph discusses software reuse and how it can be applied at different stages of the software development process, on different types of data and at different levels of granularity. Several challenging hypotheses are analyzed and confronted using novel data-driven methodologies, in order to solve problems in requirements elicitation and specification extraction, software design and

implementation, as well as software quality assurance. The book is accompanied by a number of tools, libraries and working prototypes in order to practically illustrate how the phases of the software engineering life cycle can benefit from unlocking the potential of data. Software engineering researchers, experts, and practitioners can benefit from the various methodologies presented and can better understand how knowledge extracted from software data residing in various repositories can be combined and used to enable effective decision making and save considerable time and effort through software reuse. Mining Software Engineering Data for Software Reuse can also prove handy for graduate-level students in software engineering.

Elasticsearch 7 Quick Start Guide Anurag Srivastava 2019-10-24 Get the most out of Elasticsearch 7's new features to build, deploy, and manage efficient applications Key Features Discover the new features introduced in Elasticsearch 7 Explore techniques for distributed search, indexing, and clustering Gain hands-on knowledge of implementing Elasticsearch for your enterprise Book DescriptionElasticsearch is one of the most popular tools for distributed search and analytics. This Elasticsearch book highlights the latest features of Elasticsearch 7 and helps you understand how you can use them to build your own search applications with ease. Starting with an introduction to the Elastic Stack, this book will help you quickly get up to speed with using Elasticsearch. You'll learn how to install, configure, manage, secure, and deploy Elasticsearch clusters, as well as how to use your deployment to develop powerful search and analytics solutions. As you progress, you'll also understand how to troubleshoot any issues that you may encounter along the way. Finally, the book will help you explore the inner workings of Elasticsearch and gain insights into queries, analyzers, mappings, and aggregations as you learn to work with search results. By the end of this book, you'll have a basic understanding of how to build and deploy effective search and analytics solutions using Elasticsearch. What you will learn Install Elasticsearch and use it to safely store data and retrieve it when needed Work with a variety of analyzers and filters Discover techniques to improve search results in Elasticsearch Understand how to perform metric and bucket aggregations Implement best practices for moving clusters and applications to production Explore various techniques to secure your Elasticsearch clusters Who this book is for This book is for software developers, engineers, data architects, system administrators, and anyone who wants to get up and running with Elasticsearch 7. No prior experience with Elasticsearch is required. **Mastering Elasticsearch** Matt Mueyon 2024-04-16 Unlock the full potential of Elasticsearch with our definitive guide, "Mastering Elasticsearch for Advanced Search Solutions." This comprehensive book is designed for professionals seeking to elevate their skills in implementing robust, scalable search and analytics solutions. Whether you're a software developer, data analyst, system administrator, or IT professional, this book covers everything from setup, configuration, and cluster management to advanced querying, data indexing, and security. Dive deep into the core concepts of Elasticsearch architecture, uncover the nuances of Query DSL, and master the art of text analysis with analyzers, tokenizers, and filters. Discover best practices for managing large datasets, optimizing performance, and ensuring your deployments are secure and efficient. Each chapter is meticulously organized to build upon your knowledge, offering detailed insights and practical examples to tackle real-world challenges. "Mastering Elasticsearch for Advanced Search Solutions" is not just a book; it's an indispensable resource that will guide you through creating cutting-edge search and analytics implementations. Elevate your Elasticsearch expertise and transform the way you handle data in your organization.

Elasticsearch Gerard Blokdyk 2017-11-21 Who will provide the final approval of Elasticsearch deliverables? What is our formula for success in Elasticsearch? Meeting the challenge: are missed Elasticsearch opportunities costing us money? What may be the consequences for the performance of an organization if all stakeholders are not consulted regarding Elasticsearch? Have all basic functions of Elasticsearch been defined? Defining, designing, creating, and implementing a process to solve a business challenge or meet a business objective is the most valuable role... In EVERY company, organization and department. Unless you are talking a one-time, single-use project within a business, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by

someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Elasticsearch investments work better. This Elasticsearch All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Elasticsearch Self-Assessment. Featuring 700 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Elasticsearch improvements can be made. In using the questions you will be better able to: - diagnose Elasticsearch projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Elasticsearch and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Elasticsearch Scorecard, you will develop a clear picture of which Elasticsearch areas need attention. Your purchase includes access details to the Elasticsearch self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. Your exclusive instant access details can be found in your book.

Elasticsearch Clinton Gormley 2015-02 Whether you need full-text search or real-time analytics of structured data—or both—the Elasticsearch distributed search engine is an ideal way to put your data to work. This practical guide not only shows you how to search, analyze, and explore data with Elasticsearch, but also helps you deal with the complexities of human language, geolocation, and relationships. If you're a newcomer to both search and distributed systems, you'll quickly learn how to integrate Elasticsearch into your application. More experienced users will pick up lots of advanced techniques. Throughout the book, you'll follow a problem-based approach to learn why, when, and how to use Elasticsearch features. Understand how Elasticsearch interprets data in your documents Index and query your data to take advantage of search concepts such as relevance and word proximity Handle human language through the effective use of analyzers and queries Summarize and group data to show overall trends, with aggregations and analytics Use geo-points and geo-shapes—Elasticsearch's approaches to geolocation Model your data to take advantage of Elasticsearch's horizontal scalability Learn how to configure and monitor your cluster in production

Data Science Bei Zou 2017-09-15 This two volume set (CCIS 727 and 728) constitutes the refereed proceedings of the Third International Conference of Pioneering Computer Scientists, Engineers and Educators, ICPCSEE 2017 (originally ICYCSEE) held in Changsha, China, in September 2017. The 112 revised full papers presented in these two volumes were carefully reviewed and selected from 987 submissions. The papers cover a wide range of topics related to Basic Theory and Techniques for Data Science including Mathematical Issues in Data Science, Computational Theory for Data Science, Big Data Management and Applications, Data Quality and Data Preparation, Evaluation and Measurement in Data Science, Data Visualization, Big Data Mining and Knowledge Management, Infrastructure for Data Science, Machine Learning for Data Science, Data Security and Privacy, Applications of Data Science, Case Study of Data Science, Multimedia Data Management and Analysis, Data-driven Scientific Research, Data-driven Bioinformatics, Data-driven Healthcare, Data-driven Management, Data-driven eGovernment, Data-driven Smart City/Planet, Data Marketing and Economics, Social Media and Recommendation Systems, Data-driven Security, Data-driven Business Model Innovation, Social and/or organizational impacts of Data Science.

Elasticsearch Server: Second Edition Rafal Kuc 2014-04-24 Key Features Book Description This book begins by introducing the most commonly used Elasticsearch server functionalities, from creating your own index structure, through querying, faceting, and aggregations, and ends with cluster monitoring and problem diagnosis. As you progress through the book, you will cover topics such as starting Elasticsearch, creating a new index, and designing its proper structure. After that, you'll read about the query API that Elasticsearch exposes, as well as about filtering capabilities, aggregations, and faceting. Last but not least, you will get to know how to find similar documents by using similar functionalities and how to implement application alerts by using the prospective search functionality called percolator. Some advanced topics

such as shard allocation control, gateway configuration, and how to use the discovery module will also be discussed. This book will also show you the possibilities of cluster state and health monitoring as well as how to use third-party tools. What you will learn Who this book is for **Elasticsearch** Gerardus Blokdyk 2018-01-14 Who will provide the final approval of Elasticsearch deliverables? What is our formula for success in Elasticsearch? Meeting the challenge: are missed Elasticsearch opportunities costing us money? What may be the consequences for the performance of an organization if all stakeholders are not consulted regarding Elasticsearch? Have all basic functions of Elasticsearch been defined? Defining, designing, creating, and implementing a process to solve a business challenge or meet a business objective is the most valuable role... In EVERY company, organization and department. Unless you are talking a one-time, single-use project within a business, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Elasticsearch investments work better. This Elasticsearch All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Elasticsearch Self-Assessment. Featuring 700 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Elasticsearch improvements can be made. In using the questions you will be better able to: - diagnose Elasticsearch projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Elasticsearch and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Elasticsearch Scorecard, you will develop a clear picture of which Elasticsearch areas need attention. Your purchase includes access details to the Elasticsearch self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. Your exclusive instant access details can be found in your book.

Domain-Driven Design in PHP Carlos Buenosvinos 2017-06-14 Real examples written in PHP showcasing DDD Architectural Styles, Tactical Design, and Bounded Context Integration About This Book Focuses on practical code rather than theory Full of real-world examples that you can apply to your own projects Shows how to build PHP apps using DDD principles Who This Book Is For This book is for PHP developers who want to apply a DDD mindset to their code. You should have a good understanding of PHP and some knowledge of DDD. This book doesn't dwell on the theory, but instead gives you the code that you need. What You Will Learn Correctly design all design elements of Domain-Driven Design with PHP Learn all tactical patterns to achieve a fully worked-out Domain-Driven Design Apply hexagonal architecture within your application Integrate bounded contexts in your applications Use REST and Messaging approaches In Detail Domain-Driven Design (DDD) has arrived in the PHP community, but for all the talk, there is very little real code. Without being in a training session and with no PHP real examples, learning DDD can be challenging. This book changes all that. It details how to implement tactical DDD patterns and gives full examples of topics such as integrating Bounded Contexts with REST, and DDD messaging strategies. In this book, the authors show you, with tons of details and examples, how to properly design Entities, Value Objects, Services, Domain Events, Aggregates, Factories, Repositories, Services, and Application Services with PHP. They show how to apply Hexagonal Architecture within your application whether you use an open source framework or your own. Style and approach This highly practical book shows developers how to apply domain-driven design principles to PHP. It is full of solid code examples to work through.

Mastering OpenSearch Saravanan Kuppusamy 2025-01-14 Welcome to Mastering OpenSearch: A Comprehensive Guide. If you're reading this book, it's because you've recognized OpenSearch's immense potential and are eager to utilize its power for your projects and organization. This guide is designed for data engineers, developers, architects, and anyone seeking to navigate the intricacies of OpenSearch, empowering you to extract valuable insights from data efficiently. This book can serve as

your definitive guide to unlocking the full potential of OpenSearch's powerful search engine, known for its versatility in managing modern data. Whether you're a developer, data engineer, or system architect, this book provides the skills to leverage OpenSearch's capabilities, giving you a critical edge in search and data analytics. In today's digital landscape, the sheer volume of data generated every second is staggering. We face the challenge of searching, analyzing, and making sense of this data to deliver actionable insights. OpenSearch, a cornerstone of the ELK (OpenSearch, Logstash, OpenSearch Dashboard) stack, has emerged as a leading search and analytics engine renowned for its speed, scalability, and flexibility. It powers systems from full-text search to complex, real-time analytics, handling massive datasets and providing mission-critical support to global organizations. This book takes you through OpenSearch's vast capabilities, from foundational concepts to advanced implementations. Whether you're setting up your first cluster or looking to fine-tune existing deployments, this guide will offer insights tailored to your needs.

Foundational Understanding: We'll begin with a robust introduction to OpenSearch's architecture, terminology, and basic operations. You'll understand how OpenSearch indexes, searches, and maps data to provide rapid search results. **Cluster Architecture:** Gain a thorough understanding of OpenSearch's distributed architecture, from nodes and shards to clusters, and how these elements work together for horizontal scaling. **Indexing Techniques:** Learn about creating, managing, and optimizing indices, the cornerstone of OpenSearch data storage, for efficient search operations. **Intermediate Techniques:** Building on this foundation, we'll delve into more advanced features such as aggregations, data visualization, and effective index management. We'll discuss geo queries, nested data structures, and how to optimize queries to handle complex data types. **Advanced Topics:** In the final section, you'll encounter specialized topics like performance tuning, scaling OpenSearch clusters, and developing custom plugins. We'll explore practical strategies for enhancing security, monitoring, and employing machine learning features to identify patterns and trends in your data. **Advanced Querying and Aggregation: Query DSL:** Master OpenSearch's Query Domain-Specific Language, enabling you to construct sophisticated queries that handle nuanced search requirements with precision. **Aggregations:** Dive deep into aggregation frameworks that provide powerful tools for real-time analytics, including complex aggregations like nested, scripted, and pipeline. **Data Ingestion and Integration:** Explore ways to seamlessly ingest and transform data with OpenSearch's ingest nodes and processors. Implement data ingestion strategies using Logstash, Beats, and other ETL solutions to connect with various data sources. **Performance Optimization:** Optimize indexing through sharding, replication, and customized mapping. Leverage caching mechanisms and JVM tuning to reduce latency and boost throughput. **Security and Monitoring:** Implement robust security through authentication, authorization, and encryption to safeguard sensitive data. **Monitoring and Troubleshooting:** Use OpenSearch Dashboard and other tools for real-time monitoring and diagnostics, ensuring high availability and minimizing downtime. **Real-World Applications:** Examine case studies showcasing OpenSearch's versatility, from e-commerce search solutions to log analytics. This book aims to cater to both newcomers and seasoned OpenSearch users. If you're starting out, we'll guide you through the initial setup and offer step-by-step instructions to implement core features. Experienced users will find fresh insights, best practices, and advanced techniques to elevate their OpenSearch knowledge. The book is structured to offer a comprehensive understanding of OpenSearch while maintaining accessibility. Each chapter provides practical examples, code snippets, and exercises that reinforce key concepts. By working through the examples, you'll gain the confidence to tackle real-world OpenSearch projects, whether for search, analytics, or application logging. I wrote this guide to create a one-stop resource for all things OpenSearch. With the software and big data landscape constantly evolving, it's essential to stay updated with the latest practices and developments. This guide aims to cover both tried-and-tested fundamentals and emerging trends to ensure you're well-prepared for the challenges ahead. Finally, thank you for choosing this book. I'm thrilled to share my knowledge and insights with you as you begin your journey toward Mastering the OpenSearch. Let's work together to fully unlock this incredible technology, enabling us to build faster, smarter, and more efficient applications. By the end, you'll have the expertise to design, implement, and manage scalable and secure search applications. You'll gain both theoretical understanding and practical insights, enabling you to tailor OpenSearch to your organization's unique data management needs.

The Definitive Guide to OpenSearch Jon Handler 2025-09-02 Master Amazon OpenSearch with this comprehensive guide, covering everything from basics to advanced techniques, and learn expert tips for efficient search and analytics Key Features Master installation, configuration, and usage, from crafting queries through to building dashboards Address real-world scenarios with detailed case studies, applying knowledge to practical projects and challenges Learn best practices, avoid pitfalls, and optimize OpenSearch setups with professional insights Purchase of the print or Kindle book includes a free PDF eBook Book Description From seasoned data professionals managing billions of records to aspiring analysts exploring diverse datasets, this guide is for users at all levels who want to make the most of OpenSearch's capabilities and functionalities. Written by distinguished AWS Solutions Architects Jon Handler, Ph.D., a former search engine developer, Prashant Agrawal, a search specialist, and Soujanya Konka, an expert in large-scale data migrations, this guide brings together deep technical expertise with practical, hands-on knowledge of implementing OpenSearch in real-world scenarios. Starting with an introduction to OpenSearch, you'll get to grips with the key features before delving into essential topics such as installing OpenSearch, ingesting data, crafting queries, visualizing results, ensuring security, and optimizing performance. Each concept is accompanied by practical examples and tutorials, allowing you to grasp the material through hands-on experience. Keeping up with OpenSearch's new releases and updates, this book equips you to fully leverage its potential through real-world scenarios and examples that demonstrate how OpenSearch works. Whether enhancing your search experience or extracting insightful analytics from data, The Definitive Guide to OpenSearch provides developers, engineers, data scientists, and system administrators with the tools needed to thrive. What you will learn Understand OpenSearch fundamentals, architecture, and components Benefit from hands-on demos of data indexing, query crafting, and advanced features Master OpenSearch Dashboards to build monitoring solutions Discover techniques for scaling OpenSearch to handle large datasets and high traffic Explore performance optimization strategies Study example cases of successful OpenSearch applications Uncover OpenSearch integrations across industries through real-world cases Who this book is for This book is ideal for data professionals, developers, engineers, data scientists, and system administrators seeking to harness the power of OpenSearch for search and analytics use cases. Whether you're a beginner or an experienced user, this guide offers valuable insights and practical knowledge to help you navigate the complexities of deploying and managing OpenSearch clusters effectively. For anyone looking to leverage OpenSearch for building robust search experiences and gaining actionable insights from data, this book is a must-have resource.

Elasticsearch Engineering in Practice Richard Johnson 2025-06-06 "Elasticsearch Engineering in Practice" "Elasticsearch Engineering in Practice" is the definitive guide for architects, engineers, and practitioners seeking to master every facet of Elasticsearch—from foundational concepts to advanced, real-world solutions. The book systematically unpacks the inner workings of cluster architecture, indexing, data modeling, and search, illuminating how Elasticsearch harmonizes Lucene's powerful capabilities with scalable distributed systems design. Readers will discover the mechanisms behind cluster coordination, index and shard management, consensus algorithms, and extensibility through a thriving plugin ecosystem. The text delves deeply into advanced ingestion patterns, schema engineering, and the full breadth of the Elasticsearch Query DSL, providing actionable techniques for high-throughput indexing, complex field modeling, and custom search relevance. Key topics include real-time performance optimization, aggregation pipelines, seamless data migrations, and robust document versioning—enabling professionals to design search solutions that excel under demanding workloads and evolving business needs. Operational excellence is thoroughly addressed, with detailed practices for scaling, resilience, security, compliance, and observability across the entire stack. Enriched with coverage of security engineering, multi-tenancy, machine learning integrations, federated search architectures, and emerging trends, this book goes far beyond basics to address the true challenges faced in modern Elasticsearch environments. Whether building enterprise-grade observability platforms, geospatial search, or cutting-edge analytics pipelines, "Elasticsearch Engineering in Practice" equips you with the clarity, patterns, and strategic guidance needed to achieve robust, efficient, and future-ready search solutions. [Advanced Mastery of Elasticsearch: Innovative Search Solutions Explored](#) Peter Jones 2025-01-11 Unlock the full potential of

Elasticsearch with our definitive guide, "Advanced Mastery of Elasticsearch: Innovative Search Solutions Explored." This comprehensive book is crafted for professionals aspiring to enhance their skills in developing robust, scalable search and analytics solutions. Whether you're a software developer, data analyst, system administrator, or IT professional, this resource covers everything from setup, configuration, and cluster management to advanced querying, data indexing, and security. Delve deep into the core concepts of Elasticsearch architecture, uncover the intricacies of Query DSL, and master text analysis with analyzers, tokenizers, and filters. Discover best practices for managing large datasets, optimizing performance, and ensuring your deployments are secure and efficient. Each chapter is meticulously organized to build on your knowledge, offering detailed insights and practical examples to address real-world challenges. "Advanced Mastery of Elasticsearch: Innovative Search Solutions Explored" is more than a book; it's an indispensable resource guiding you through the creation of cutting-edge search and analytics implementations. Elevate your Elasticsearch expertise and revolutionize how you handle data in your organization.

Advances in Intelligent Networking and Collaborative Systems Leonard Barolli 2017-08-14 The aim of this book is to provide the latest research findings, innovative research results, methods and development techniques from both theoretical and practical perspectives related to intelligent social networks and collaborative systems, intelligent networking systems, mobile collaborative systems, secure intelligent cloud systems, etc., and to reveal synergies among various paradigms in the multi-disciplinary field of intelligent collaborative systems. It presents the Proceedings of the 9th International Conference on Intelligent Networking and Collaborative Systems (INCoS-2017), held on August 24-26, 2017 in Toronto, Canada. With the rapid evolution of the Internet, we are currently experiencing a shift from the traditional sharing of information and applications as the main purpose of the Web to an emergent paradigm that puts people at the very centre of networks and exploits the value of people's connections, relations and collaborations. Social networks are also playing a major role in the dynamics and structure of intelligent Web-based networking and collaborative systems. Virtual campuses, virtual communities and organizations effectively leverage intelligent networking and collaborative systems by tapping into a broad range of formal and informal electronic relations, such as business-to-business, peer-to-peer and many types of online collaborative learning interactions, including the emerging e-learning systems. This has resulted in entangled systems that need to be managed efficiently and autonomously. In addition, the latest and powerful technologies based on Grid and wireless infrastructure as well as Cloud computing are now greatly enhancing collaborative and networking applications, but are also facing new issues and challenges. The principal objective of the research and development community is to stimulate research that leads to the creation of responsive environments for networking and, in the longer-term, the development of adaptive, secure, mobile, and intuitive intelligent systems for collaborative work and learning.

Elasticsearch: The Definitive Guide Clinton Gormley 2015-01-23 Whether you need full-text search or real-time analytics of structured data—or both—the Elasticsearch distributed search engine is an ideal way to put your data to work. This practical guide not only shows you how to search, analyze, and explore data with Elasticsearch, but also helps you deal with the complexities of human language, geolocation, and relationships. If you're a newcomer to both search and distributed systems, you'll quickly learn how to integrate Elasticsearch into your application. More experienced users will pick up lots of advanced techniques. Throughout the book, you'll follow a problem-based approach to learn why, when, and how to use Elasticsearch features. Understand how Elasticsearch interprets data in your documents Index and query your data to take advantage of search concepts such as relevance and word proximity Handle human language through the effective use of analyzers and queries Summarize and group data to show overall trends, with aggregations and analytics Use geo-points and geo-shapes—Elasticsearch's approaches to geolocation Model your data to take advantage of Elasticsearch's horizontal scalability Learn how to configure and monitor your cluster in production

Software Architecture. ECSA 2023 Tracks, Workshops, and Doctoral Symposium Bedir Tekinerdoğan 2024-07-29 This book constitutes the refereed proceedings of the tracks and workshops which complemented the 17th European Conference on Software Architecture, ECSA 2023, held in Istanbul, Turkey, in September 2023. The 29 full

papers included in this book were carefully reviewed and selected from 32 submissions. They were organized in topical sections as follows: AMP; CASA; DE & I Track; DeMeSSA; FAACS; QUALIFIER; TwinArch; Tools and Demos; Industry Track; and Doctoral Symposium.

Elasticsearch Bharvi Dixit 2017-03-17

Intelligent Data Communication Technologies and Internet of Things D. Jude Hemanth 2022-02-28 This book gathers selected papers presented at the 5th International Conference on Intelligent Data Communication Technologies and Internet of Things (ICICI 2021), organized by JCT College of Engineering and Technology, Coimbatore, Tamil Nadu, India during 27 - 28 August 2021. This book solicits the innovative research ideas and solutions for almost all the intelligent data intensive theories and application domains. The general scope of this book covers the design, architecture, modeling, software, infrastructure and applications of intelligent communication architectures and systems for big data or data-intensive applications. In particular, this book reports the novel and recent research works on big data, mobile and wireless networks, artificial intelligence, machine learning, social network mining, intelligent computing technologies, image analysis, robotics and autonomous systems, data security and privacy.

Elasticsearch The Definitive Guide

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