

Postgresql Configuration Best Practices For Performance And Security

Manish Soni

PostgreSQL Configuration Baji Shaik,2020-03-16 Obtain all the skills you need to configure and manage a PostgreSQL database. In this book you will begin by installing and configuring PostgreSQL on a server by focusing on system-level parameter settings before installation. You will also look at key post-installation steps to avoid issues in the future. The basic configuration of PostgreSQL is tuned for compatibility rather than performance. Keeping this in mind, you will fine-tune your PostgreSQL parameters based on your environment and application behavior. You will then get tips to improve database monitoring and maintenance followed by database security for handling sensitive data in PostgreSQL. Every system containing valuable data needs to be backed-up regularly. PostgreSQL follows a simple back-up procedure and provides fundamental approaches to back up your data. You will go through these approaches and choose the right one based on your environment. Running your application with limited resources can be tricky. To achieve this you will implement a pooling mechanism for your PostgreSQL instances to connect to other databases. Finally, you will take a look at some basic errors faced while working with PostgreSQL and learn to resolve them in the quickest manner. What You Will Learn Configure PostgreSQL for performance Monitor and maintain PostgreSQL instances Implement a backup strategy for your data Resolve errors faced while using PostgreSQL Who This Book Is For Readers with basic knowledge of PostgreSQL who wish to implement key solutions based on their environment.

Advanced PostgreSQL Mastery: In-Depth Database Techniques and Performance Tuning Adam Jones,2025-01-03 Advanced PostgreSQL Mastery: In-Depth Database Techniques and Performance Tuning is an indispensable resource for database professionals aiming to enhance their skills in PostgreSQL, one of the most sophisticated and reliable open-source database systems today. This expertly curated guide delves into a broad spectrum of essential topics, encompassing PostgreSQL's architecture, internal mechanisms, advanced SQL techniques, indexing strategies, transaction management, and beyond. The book is systematically divided into comprehensive chapters, each providing an exhaustive exploration of PostgreSQL's facets, such as performance tuning, replication, security, and scalable solutions. Whether you are a database administrator, system architect, or developer, this guide offers detailed insights and practical examples to optimize database

performance, maintain high availability, and ensure data security. Perfect for those with a foundational understanding of databases, *Advanced PostgreSQL Mastery* equips readers to fully harness PostgreSQL's capabilities, streamline database workflows, and meet the high-performance requirements of contemporary applications. Dive into this book to master the complexities of PostgreSQL and acquire the techniques necessary to construct reliable, secure, and scalable databases. Elevate your professional expertise in database management with PostgreSQL through this invaluable manual.

Learning PostgreSQL 10 Salahaldin Juba, Andrey Volkov, 2017-12-01 Leverage the power of PostgreSQL 10 to build powerful database and data warehousing applications. About This Book Be introduced to the concept of relational databases and PostgreSQL, one of the fastest growing open source databases in the world Learn client-side and server-side programming in PostgreSQL, and how to administer PostgreSQL databases Discover tips on implementing efficient database solutions with PostgreSQL 10 Who This Book Is For If you're interested in learning more about PostgreSQL - one of the most popular relational databases in the world, then this book is for you. Those looking to build solid database or data warehousing applications with PostgreSQL 10 will also find this book a useful resource. No prior knowledge of database programming or administration is required to get started with this book. What You Will Learn Understand the fundamentals of relational databases, relational algebra, and data modeling Install a PostgreSQL cluster, create a database, and implement your data model Create tables and views, define indexes, and implement triggers, stored procedures, and other schema objects Use the Structured Query Language (SQL) to manipulate data in the database Implement business logic on the server side with triggers and stored procedures using PL/pgSQL Make use of advanced data types supported by PostgreSQL 10: Arrays, hstore, JSONB, and others Develop OLAP database solutions using the most recent features of PostgreSQL 10 Connect your Python applications to a PostgreSQL database and work with the data efficiently Test your database code, find bottlenecks, improve performance, and enhance the reliability of the database applications In Detail PostgreSQL is one of the most popular open source databases in the world, and supports the most advanced features included in SQL standards and beyond. This book will familiarize you with the latest new features released in PostgreSQL 10, and get you up and running with building efficient PostgreSQL database solutions from scratch. We'll start with the concepts of relational databases and their core principles. Then you'll get a thorough introduction to PostgreSQL and the new features introduced in PostgreSQL 10. We'll cover the Data Definition Language (DDL) with an emphasis on PostgreSQL, and the common DDL commands supported by ANSI SQL. You'll learn to create tables, define integrity constraints, build indexes, and set up views and other schema objects. Moving on, you'll get to know the concepts of Data Manipulation Language (DML) and PostgreSQL server-side programming capabilities using PL/pgSQL. This will give you a very robust background to develop, tune, test, and troubleshoot your database application. We'll also explore the NoSQL capabilities of PostgreSQL and connect to your PostgreSQL database to manipulate data objects. By the end of this book, you'll have a thorough understanding of the basics

of PostgreSQL 10 and will have the necessary skills to build efficient database solutions. Style and approach This book is a comprehensive beginner level tutorial on PostgreSQL and introduces the features of the newest version 10, along with explanation of concepts in a very easy to understand manner. Practical tips and examples are provided at every step to ensure you are able to grasp each topic as quickly as possible.

PostgreSQL 17 QuickStart Pro Tessa Vorin,2024-10-01 PostgreSQL 17 QuickStart Pro is the definitive hands-on, practical book for professionals at every level, from entry-level administrators to seasoned experts. It provides rapid learning and practical implementation of PostgreSQL 17, focusing on the latest features and best practices to effectively manage, configure, and optimize PostgreSQL databases—and it does so effectively. The book begins by using the Titanic dataset to illustrate practical examples of upgrade strategies, post-upgrade validation, and database configuration. Next, it covers cluster administration, configuration settings, and performance tracking. You will master the management of permissions and roles through intricate role hierarchies, authentication methods, and security settings. Next, we'll optimize server performance, plan queries, and manage resources based on real performance data. The next section dives deep into complicated data types, bulk data operations, advanced indexing methods, and the creation of triggers and functions, all with an emphasis on effective data management. Next, you will learn about table partitioning strategies, performing physical and logical backups, database restoration, and process automation using BART. We then move on to streaming replication, where we will configure, administer, and monitor replication to ensure optimal uptime. Finally, we will explore point-in-time recovery (PITR), which allows us to restore databases to specific points in time by replaying WAL logs. In short, this book will equip database administrators with the knowledge and skills to confidently handle PostgreSQL 17 databases. Key Learnings Upgrade and configure PostgreSQL 17, including post-upgrade validation and configuration. Learn PostgreSQL architecture, memory models, and cluster management. Use hierarchical permissions, authentication, and security for advanced role management. Tune server performance with query planning, resource management, and configuration tuning. Effectively use PostgreSQL extensions, JSONB, and arrays. Optimize queries with GIN, GiST, and BRIN indexing. Master table partitioning for large dataset performance and scalability. Automate physical and logical backups and confidently restore databases. Manage PostgreSQL streaming replication for high availability and automatic failover. Restore data using WAL logs and Point-in-Time Recovery. Table of Content Upgrading and Setting up PostgreSQL 17 Expert Database Cluster Administration Advanced Database and Role Management Configuration and Performance Tuning Effective Data Management Table Partitioning Strategies Backup and Recovery Best Practices Streaming Replication and High Availability Point-in-Time Recovery

IGNOU BCA Introduction to Database Management Systems MCS 023 solved Manish Soni,2024-11-13 It is with great pleasure and enthusiasm that we present to you the 10 Years Solved IGNOU Papers book. This collection has been

meticulously curated to serve as an invaluable resource for students pursuing various programs offered by the Indira Gandhi National Open University (IGNOU). The journey of academic excellence is often marked by dedication, perseverance, and a thirst for knowledge. However, one of the most effective ways to embark on this path is by gaining insights from the experiences of those who have come before us. To this end, we have compiled a decade's worth of IGNOU examination papers, meticulously solved, and presented in a comprehensive and user-friendly format. This book offers a gateway to understanding the examination patterns, question structures, and the level of rigor that IGNOU demands from its students. By providing detailed, step-by-step solutions to these past papers, we aim to empower you with the knowledge and confidence necessary to excel in your IGNOU examinations. Key features of this book include: A Decade of Solutions: We have included a wide range of questions from the past ten years, covering various courses and subjects. Detailed Explanations: Each solved paper is accompanied by comprehensive explanations and solutions, allowing you to grasp the underlying concepts and methodologies. Topic-wise Breakdown: The content is organized by topic, making it easy to locate and focus on specific subject areas that require attention. Enhanced Learning: By working through these solved papers, you will not only gain an understanding of the question types but also develop problem-solving skills and time management techniques. Comprehensive Coverage: This book encompasses a wide spectrum of disciplines, enabling students from diverse programs to benefit from the wealth of knowledge it offers. We understand the challenges and demands of IGNOU's rigorous academic programs, and our goal is to support you in your quest for academic excellence. We believe that with the right resources and determination, every student can achieve their goals and create a brighter future. We extend our best wishes to all the students embarking on this academic journey. May your dedication and hard work yield the success you deserve. Happy studying and best of luck for your IGNOU examinations!

Mastering Cloud Computing Manish Soni, 2024-11-26 Throughout this book, we've included practical exercises to reinforce your learning and apply the concepts in real-world scenarios. Whether you're an individual reader or part of a study group, these exercises will help solidify your understanding and practical skills. As we move forward, we'll venture into Cloud Services and Architectures, Cloud Backup and Disaster Recovery, Future Trends in Cloud Computing, Cloud Monitoring and Performance Optimization, Cloud Governance and Management, and many other exciting topics. Our goal is to empower you with the knowledge and expertise needed to navigate the cloud computing landscape confidently. This book is designed to be your companion, guiding you through the complexities and nuances of cloud technologies. Thank you for choosing this book. We hope you find it a valuable resource in your quest to harness the full potential of the cloud. May this knowledge drive innovation, efficiency, and growth, transforming the way you interact with technology and revolutionizing your approach to IT.

The PostgreSQL Handbook: In-Depth Techniques and Advanced Strategies Adam Jones, 2024-11-26 Unlock the full

potential of PostgreSQL with *The PostgreSQL Handbook: In-Depth Techniques and Advanced Strategies*, your ultimate resource for mastering the complexities of this robust, open-source database system. Designed for professionals with foundational PostgreSQL knowledge, this book explores advanced topics, elevating you to expert status. From the sophisticated intricacies of PostgreSQL architecture to cutting-edge SQL techniques and index optimization, each chapter elucidates complex concepts with clarity and precision. Delve into comprehensive chapters on transaction management, performance tuning, and innovative applications of advanced data types. Discover expert strategies for replication, partitioning, and sharding to ensure your systems are scalable, efficient, and resilient. Acquire essential skills in backup and disaster recovery to protect your data from unforeseen challenges, and enhance your databases with the latest security best practices to safeguard your data in an ever-evolving digital landscape. Whether you're a database administrator focused on optimizing performance, a developer eager to exploit PostgreSQL's advanced capabilities, or an IT professional tasked with maintaining cutting-edge data solutions, *The PostgreSQL Handbook: In-Depth Techniques and Advanced Strategies* offers a wealth of knowledge. Equipped with insights into integrating PostgreSQL with external systems, this book prepares you to build and maintain dynamic, robust database environments. Advance beyond the basics and master the advanced strategies that establish PostgreSQL as one of the most versatile and trusted database systems in the tech world today.

Database Design and Modeling with PostgreSQL and MySQL Alkin Tezuysal, Ibrar Ahmed, 2024-07-26 Become well-versed with database modeling and SQL optimization, and gain a deep understanding of transactional systems through practical examples and exercises. Key Features: Get to grips with fundamental-to-advanced database design and modeling concepts with PostgreSQL and MySQL. Explore database integration with web apps, emerging trends, and real-world case studies. Leverage practical examples and hands-on exercises to reinforce learning. Purchase of the print or Kindle book includes a free PDF eBook. Book Description: *Database Design and Modeling with PostgreSQL and MySQL* will equip you with the knowledge and skills you need to architect, build, and optimize efficient databases using two of the most popular open-source platforms. As you progress through the chapters, you'll gain a deep understanding of data modeling, normalization, and query optimization, supported by hands-on exercises and real-world case studies that will reinforce your learning. You'll explore topics like concurrency control, backup and recovery strategies, and seamless integration with web and mobile applications. These advanced topics will empower you to tackle complex database challenges confidently and effectively. Additionally, you'll explore emerging trends, such as NoSQL databases and cloud-based solutions, ensuring you're well-versed in the latest developments shaping the database landscape. By embracing these cutting-edge technologies, you'll be prepared to adapt and innovate in today's ever-evolving digital world. By the end of this book, you'll be able to understand the technologies that exist to design a modern and scalable database for developing web applications using MySQL and PostgreSQL open-source databases. What you will learn: Design a schema, create ERDs, and apply normalization techniques.

Gain knowledge of installing, configuring, and managing MySQL and PostgreSQL Explore topics such as denormalization, index optimization, transaction management, and concurrency control Scale databases with sharding, replication, and load balancing, as well as implement backup and recovery strategies Integrate databases with web apps, use SQL, and implement best practices Explore emerging trends, including NoSQL databases and cloud databases, while understanding the impact of AI and ML Who this book is for This book is for a wide range of professionals interested in expanding their knowledge and skills in database design and modeling with PostgreSQL and MySQL. This includes software developers, database administrators, data analysts, IT professionals, and students. While prior knowledge of MySQL and PostgreSQL is not necessary, some familiarity with at least one relational database management system (RDBMS) will help you get the most out of this book.

Advanced Microsoft Azure: Crucial Strategies and Techniques Adam Jones, 2025-01-03 Advanced Microsoft Azure: Crucial Strategies and Techniques is your essential resource for mastering the intricate landscape of Microsoft Azure. Tailored for IT professionals, cloud architects, developers, and system administrators, this book elevates your expertise with advanced strategies and nuanced techniques for leveraging Azure's powerful cloud platform. Delve into the complexities of setting up an optimized Azure environment and deploying highly scalable applications. Each chapter systematically unfolds essential concepts, services, and industry best practices in a clear and comprehensive manner. Gain deep insights into Azure Virtual Machines, explore sophisticated storage solutions, refine networking configurations, and enhance the security of your cloud resources with precision and expertise. The book addresses cutting-edge topics such as the Azure Kubernetes Service (AKS) and advanced containerization strategies, equipping you with the skills to effectively manage and orchestrate containerized applications. Focusing on practical, real-world applications, Advanced Microsoft Azure: Crucial Strategies and Techniques prepares you to navigate complex challenges and fully utilize Azure's extensive capabilities. Elevate your cloud computing prowess and optimize your Azure deployments with this indispensable guide.

PostgreSQL for Jobseekers Sonia Valeja, David Gonzalez, 2023-06-22 A practical guide that will help you learn and leverage PostgreSQL's core features **KEY FEATURES** ● Acquire in-depth knowledge of PostgreSQL's key capabilities and gain a comprehensive understanding of its inner workings. ● Discover the art of extending PostgreSQL's core features and effectively troubleshooting any challenges that may arise. ● Explore the vibrant community and open-source ecosystem that forms the foundation of PostgreSQL's development and innovation. **DESCRIPTION** PostgreSQL is a powerful open-source relational database management system (RDBMS) that is widely used in the industry. If you are seeking to acquire knowledge about PostgreSQL, this book is for you. This comprehensive book provides you with a solid foundation in working with PostgreSQL, a popular open-source database management system. It covers a broad spectrum of topics, allowing you to successfully install and configure PostgreSQL across various platforms and methods. By delving into the internal components

that constitute a PostgreSQL service and their interplay, you will gain a deep understanding of how these elements collaborate to deliver a robust and dependable solution. From comprehending the process model and shared memory to mastering query execution and optimization, you will acquire comprehensive knowledge of PostgreSQL's internal workings. Furthermore, the book explores essential tasks performed by a database administrator (DBA), including backup and restore operations, security measures, performance tuning, and troubleshooting techniques. Lastly, it explores widely used extensions and compatible tools that can enhance the functionality of PostgreSQL. Upon completing this book, you will have developed a comprehensive understanding of the internal components that comprise a PostgreSQL service and their collaborative dynamics, resulting in a reliable and robust solution.

WHAT YOU WILL LEARN

- Gain proficiency in installing and preparing PostgreSQL for various methods and platforms.
- Develop a solid understanding of the internal components of a PostgreSQL service and their collaborative dynamics to deliver a comprehensive solution.
- Acquire knowledge about essential tasks performed by PostgreSQL DBAs, including backup/restore operations, security measures, tuning, and troubleshooting.
- Explore popular extensions and compatible tools that can expand and enhance the capabilities of PostgreSQL.
- Discover the PostgreSQL Community and learn how to actively contribute to the project's development and growth.

WHO THIS BOOK IS FOR This book is highly recommended for Entry Level Database Administrators, as it provides a suitable starting point for their journey. It assumes some prior knowledge of Database Management Systems (DBMS) to ensure a smooth learning experience. Additionally, senior or experienced developers will find value in this book, particularly in gaining insights into the latest features incorporated in the most recent version of the DB, enhancing their understanding and proficiency in its use.

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DevOps for Databases David Jambor, 2023-12-29 Implement, automate, build, operate, and optimize databases and other data-persistent technologies efficiently by leveraging the right set of DevOps best practices

Key Features

- Implement core operational capabilities via automated pipelines, including testing and rollbacks
- Create infrastructure, deploy software, test execution, and monitor operations using the as-code strategy
- Automate common implementation patterns for databases with declarative orchestration frameworks

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Book Description

In today's rapidly evolving world of DevOps, traditional silos are a thing of the past. Database administrators are no longer the only experts; site reliability engineers (SREs) and DevOps engineers are database experts as well. This blurring of the lines has led to increased responsibilities, making members of high-performing DevOps teams responsible for end-to-end

ownership. This book helps you master DevOps for databases, making it a must-have resource for achieving success in the ever-changing world of DevOps. You'll begin by exploring real-world examples of DevOps implementation and its significance in modern data-persistent technologies, before progressing into the various types of database technologies and recognizing their strengths, weaknesses, and commonalities. As you advance, the chapters will teach you about design, implementation, testing, and operations using practical examples, as well as common design patterns, combining them with tooling, technology, and strategies for different types of data-persistent technologies. You'll also learn how to create complex end-to-end implementation, deployment, and cloud infrastructure strategies defined as code. By the end of this book, you'll be equipped with the knowledge and tools to design, build, and operate complex systems efficiently. What you will learn Apply DevOps best practices to data-persistent technologies Get to grips with architectural-level design and implementation Explore the modern data journey and data modeling with database technology Master the operation of large-scale systems with zero-touch automation Achieve speed, resilience, security, and operability at different scales Design DevOps teams with end-to-end ownership models Who this book is for This book is for newcomers as well as seasoned SREs, DevOps engineers, and system engineers who are interested in large-scale systems with a heavy focus on data-persistent technologies. Database administrators looking to level up in the world of DevOps will also find this book helpful. Experience with cloud Infrastructure, basic development, and operations will help you get the most out of this book.

Advanced Java Persistence: Techniques and Best Practices with Hibernate Adam Jones, 2024-12-13 Unlock the full potential of Java persistence with *Advanced Java Persistence: Techniques and Best Practices with Hibernate*. This definitive guide offers an in-depth exploration of Hibernate, the leading ORM framework that has transformed Java application development. With comprehensive coverage ranging from foundational concepts and configurations to advanced mappings, query optimizations, and performance tuning, this book is meticulously crafted for Java developers, architects, and anyone eager to master Hibernate. *Advanced Java Persistence* is structured to elevate your skills by detailing how to seamlessly integrate Hibernate into your Java projects for enhanced data handling and optimized application performance. Discover how to harness Hibernate's capabilities for entity mapping, transaction management, concurrency control, and more. This book, enriched with practical examples, expert insights, and valuable tips, equips you to overcome common challenges, empowering you to build efficient, scalable, and robust Java applications. Whether you're new to Hibernate or seeking to enhance your existing knowledge, this book provides a wealth of information and best practices to help you navigate the complexities of Java persistence. Prepare to transform your application development process and achieve superior results with *Advanced Java Persistence: Techniques and Best Practices with Hibernate*.

Learning PostgreSQL 11 Salahaldin Juba, Andrey Volkov, 2019-01-31 Leverage the power of PostgreSQL 11 to build powerful database and data warehousing applications Key Features Monitor, secure, and fine-tune your PostgreSQL 11

databaseLearn client-side and server-side programming using SQL and PL/pgSQLDiscover tips on implementing efficient database solutionsBook Description PostgreSQL is one of the most popular open source database management systems in the world, and it supports advanced features included in SQL standards. This book will familiarize you with the latest features in PostgreSQL 11, and get you up and running with building efficient PostgreSQL database solutions from scratch. Learning PostgreSQL, 11 begins by covering the concepts of relational databases and their core principles. You'll explore the Data Definition Language (DDL) and commonly used DDL commands supported by ANSI SQL. You'll also learn how to create tables, define integrity constraints, build indexes, and set up views and other schema objects. As you advance, you'll come to understand Data Manipulation Language (DML) and server-side programming capabilities using PL/pgSQL, giving you a robust background to develop, tune, test, and troubleshoot your database application. The book will guide you in exploring NoSQL capabilities and connecting to your database to manipulate data objects. You'll get to grips with using data warehousing in analytical solutions and reports, and scaling the database for high availability and performance. By the end of this book, you'll have gained a thorough understanding of PostgreSQL 11 and developed the necessary skills to build efficient database solutions. What you will learnUnderstand the basics of relational databases, relational algebra, and data modelingInstall a PostgreSQL server, create a database, and implement your data modelCreate tables and views, define indexes and stored procedures, and implement triggersMake use of advanced data types such as Arrays, hstore, and JSONBConnect your Python applications to PostgreSQL and work with data efficientlyIdentify bottlenecks to enhance reliability and performance of database applicationsWho this book is for This book is for you if you're interested in learning about PostgreSQL from scratch. Those looking to build solid database or data warehousing applications or wanting to get up to speed with the latest features of PostgreSQL 11 will also find this book useful. No prior knowledge of database programming or administration is required to get started.

Database Design with SQL Robert Johnson, 2024-10-26 Database Design with SQL: Building Fast and Reliable Systems is an essential resource for beginners eager to master the fundamentals of database management and SQL. This comprehensive guide demystifies the core principles of database systems, providing readers with the knowledge to design efficient data architectures and execute complex SQL operations. Covering everything from basic data structures to advanced query optimization, the book equips learners with the crucial skills needed to build and manipulate robust databases that meet modern demands. The book delves into the intricacies of relational databases and normalization, offering practical insights into data modeling and schema design. Readers will explore the power of SQL in both data retrieval and manipulation, progressing through foundational commands to sophisticated techniques like dynamic SQL and window functions. Additionally, the text addresses critical aspects of database security, transactions, and concurrency control, ensuring that systems remain resilient and secure in multi-user environments. Beyond relational databases,

Database Design with SQL introduces the versatile world of NoSQL and its role in big data, enabling learners to handle diverse data types and high-volume datasets. Through real-world case studies and best practices for database administration, this guide offers valuable strategies for maintaining performance and reliability. Whether you are embarking on a career in database management or seeking to enhance your technical expertise, this book is your gateway to mastering database design and SQL with confidence.

Creating Scalable Cloud Solutions: with Spring Boot and Cloud Foundry Peter Jones, 2025-01-14 Creating Scalable Cloud Solutions: with Spring Boot and Cloud Foundry offers a comprehensive guide to mastering the development and deployment of cloud-native applications. Whether you're a seasoned developer or new to the cloud-native landscape, this book provides the essential knowledge and skills needed to leverage the power of Spring Boot and Cloud Foundry. Starting with the fundamentals of cloud-native principles and architecture, this book dives into practical, hands-on techniques for creating, securing, and deploying microservices-based applications that are scalable, resilient, and easily manageable. Learn how to design RESTful web services, effectively access and manage data, and secure your applications with Spring Security. Explore the deployment and management of applications on Cloud Foundry, understanding services, routing, and the marketplace. With a focus on real-world practices, Creating Scalable Cloud Solutions: with Spring Boot and Cloud Foundry guides you through setting up continuous integration and deployment pipelines that automate testing and updates, ensuring high-quality software delivery. Discover best practices for monitoring, logging, and troubleshooting to maintain and optimize your cloud-native applications. This book is an indispensable resource for developers looking to navigate the cloud-native universe with confidence. By the end, you'll be equipped with the expertise to craft robust, efficient cloud-native applications that meet the demands of today's digital world. Join us on this journey to transform your development process and bring your applications to the cloud with ease.

Apache Tomcat 7 Essentials Tanuj Khare, 2012-03-23 This book is a step-by-step tutorial for anyone wanting to learn Apache Tomcat 7 from scratch. There are plenty of illustrations and examples to escalate you from a novice to an expert with minimal strain. If you are a J2EE administrator, migration administrator, technical architect, or a project manager for a web hosting domain, and are interested in Apache Tomcat 7, then this book is for you. If you are someone responsible for installation, configuration, and management of Tomcat 7, then too, this book will be of help to you.

AWS CLI Essentials Robert Johnson, 2025-01-08 AWS CLI Essentials: A Beginner's Guide to Cloud Automation is your comprehensive resource for mastering the AWS Command Line Interface and harnessing its powerful capabilities to manage and automate AWS services. Tailored for newcomers, this guide meticulously demystifies complex concepts, offering step-by-step instructions and practical insights essential for navigating the cloud landscape. Beginning with foundational knowledge of cloud computing and AWS, the book progressively delves into configuring the AWS CLI, executing basic to advanced

commands, and leveraging automation to streamline operations. The book emphasizes hands-on learning with detailed examples and best practice recommendations, empowering readers to efficiently manage AWS resources, optimize workflows, and enhance operational security. By integrating CLI techniques with scripting, users gain the expertise to automate routine tasks, ensuring robust and reliable AWS environments. Accompanied by troubleshooting strategies and support resources, AWS CLI Essentials provides the tools to confidently address challenges and maximize the benefits of AWS cloud technology in your organizational pursuits.

PostgreSQL 13 Cookbook Vallarapu Naga Avinash Kumar, 2021-02-26 Get to grips with building reliable, scalable, and maintainable database solutions for enterprises and production databases Key Features Implement PostgreSQL 13 features to perform end-to-end modern database management Design, manage, and build enterprise database solutions using a unique recipe-based approach Solve common and not-so-common challenges faced while working to achieve optimal database performance Book Description PostgreSQL has become the most advanced open source database on the market. This book follows a step-by-step approach, guiding you effectively in deploying PostgreSQL in production environments. The book starts with an introduction to PostgreSQL and its architecture. You'll cover common and not-so-common challenges faced while designing and managing the database. Next, the book focuses on backup and recovery strategies to ensure your database is steady and achieves optimal performance. Throughout the book, you'll address key challenges such as maintaining reliability, data integrity, a fault-tolerant environment, a robust feature set, extensibility, consistency, and authentication. Moving ahead, you'll learn how to manage a PostgreSQL cluster and explore replication features for high availability. Later chapters will assist you in building a secure PostgreSQL server, along with covering recipes for encrypting data in motion and data at rest. Finally, you'll not only discover how to tune your database for optimal performance but also understand ways to monitor and manage maintenance activities, before learning how to perform PostgreSQL upgrades during downtime. By the end of this book, you'll be well-versed with the essential PostgreSQL 13 features to build enterprise relational databases. What you will learn Understand logical and physical backups in Postgres Demonstrate the different types of replication methods possible with PostgreSQL today Set up a high availability cluster that provides seamless automatic failover for applications Secure a PostgreSQL encryption through authentication, authorization, and auditing Analyze the live and historic activity of a PostgreSQL server Understand how to monitor critical services in Postgres 13 Manage maintenance activities and performance tuning of a PostgreSQL cluster Who this book is for This PostgreSQL book is for database architects, database developers and administrators, or anyone who wants to become well-versed with PostgreSQL 13 features to plan, manage, and design efficient database solutions. Prior experience with the PostgreSQL database and SQL language is expected.

Business Intelligence Tools for Small Companies Albert Nogués, Juan Valladares, 2017-05-25 Learn how to transition from Excel-based business intelligence (BI) analysis to enterprise stacks of open-source BI tools. Select and implement the best

free and freemium open-source BI tools for your company's needs and design, implement, and integrate BI automation across the full stack using agile methodologies. Business Intelligence Tools for Small Companies provides hands-on demonstrations of open-source tools suitable for the BI requirements of small businesses. The authors draw on their deep experience as BI consultants, developers, and administrators to guide you through the extract-transform-load/data warehousing (ETL/DWH) sequence of extracting data from an enterprise resource planning (ERP) database freely available on the Internet, transforming the data, manipulating them, and loading them into a relational database. The authors demonstrate how to extract, report, and dashboard key performance indicators (KPIs) in a visually appealing format from the relational database management system (RDBMS). They model the selection and implementation of free and freemium tools such as Pentaho Data Integrator and Talend for ELT, Oracle XE and MySQL/MariaDB for RDBMS, and QlikSense, Power BI, and MicroStrategy Desktop for reporting. This richly illustrated guide models the deployment of a small company BI stack on an inexpensive cloud platform such as AWS. What You'll Learn You will learn how to manage, integrate, and automate the processes of BI by selecting and implementing tools to: Implement and manage the business intelligence/data warehousing (BI/DWH) infrastructure Extract data from any enterprise resource planning (ERP) tool Process and integrate BI data using open-source extract-transform-load (ETL) tools Query, report, and analyze BI data using open-source visualization and dashboard tools Use a MOLAP tool to define next year's budget, integrating real data with target scenarios Deploy BI solutions and big data experiments inexpensively on cloud platforms Who This Book Is For Engineers, DBAs, analysts, consultants, and managers at small companies with limited resources but whose BI requirements have outgrown the limitations of Excel spreadsheets; personnel in mid-sized companies with established BI systems who are exploring technological updates and more cost-efficient solutions

Defensive Security Handbook Lee Brotherston, Amanda Berlin, 2017-04-03 Despite the increase of high-profile hacks, record-breaking data leaks, and ransomware attacks, many organizations don't have the budget to establish or outsource an information security (InfoSec) program, forcing them to learn on the job. For companies obliged to improvise, this pragmatic guide provides a security-101 handbook with steps, tools, processes, and ideas to help you drive maximum-security improvement at little or no cost. Each chapter in this book provides step-by-step instructions for dealing with a specific issue, including breaches and disasters, compliance, network infrastructure and password management, vulnerability scanning, and penetration testing, among others. Network engineers, system administrators, and security professionals will learn tools and techniques to help improve security in sensible, manageable chunks. Learn fundamentals of starting or redesigning an InfoSec program Create a base set of policies, standards, and procedures Plan and design incident response, disaster recovery, compliance, and physical security Bolster Microsoft and Unix systems, network infrastructure, and password management Use segmentation practices and designs to compartmentalize your network Explore automated process and

tools for vulnerability management Securely develop code to reduce exploitable errors Understand basic penetration testing concepts through purple teaming Delve into IDS, IPS, SOC, logging, and monitoring

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