

Postgresql Replication Guide

PostgreSQL Administration Cookbook, 9.5/9.6 Edition WildFly Administration Guide PostgreSQL Replication Mastering PostgreSQL 12 PostgreSQL 9 Administration Cookbook Lite: Configuration, Monitoring and Maintenance PostgreSQL High Performance Cookbook Troubleshooting PostgreSQL PostgreSQL Cookbook Getting Started with SQL Learning PostgreSQL 10 - Second Edition PostgreSQL for Data Architects PostgreSQL: Up and Running PostgreSQL 10 High Performance PostgreSQL PostgreSQL 11 Server Side Programming Quick Start Guide Mastering PostgreSQL 11 PostgreSQL 11 Administration Cookbook Instant PostgreSQL Backup and Restore How-to Official Google Cloud Certified Associate Cloud Engineer Study Guide Working with Oracle GoldenGate 12c Practical PostgreSQL Mastering PostgreSQL 9.6 PostgreSQL 9.0 High Performance PostgreSQL Administration Essentials PostgreSQL Configuration PostgreSQL 9 Administration Cookbook - Second Edition The Manga Guide to Databases Google BigQuery: The Definitive Guide PostgreSQL 9 Administration Cookbook Mastering PostgreSQL 10 Advanced Rails PostgreSQL Developer's Guide PostgreSQL Cookbook PostgreSQL 9 High Availability Cookbook Beginning PostgreSQL on the Cloud PostgreSQL Replication PostgreSQL 9.6 High Performance PostgreSQL 12 High Availability Cookbook PostgreSQL Replication Learning PostgreSQL

PostgreSQL Administration Cookbook, 9.5/9.6 Edition

If you are a database administrator looking for solutions to common PostgreSQL problems, this is the book for you. The book is suitable for people with intermediate and professional expertise.

WildFly Administration Guide

Enhance the performance of your PostgreSQL system with this handy guide while avoiding common pitfalls that can slow it down. About This Book Learn the right techniques to obtain optimal PostgreSQL database performance, ranging from initial design to routine maintenance Fine tune the performance of your queries and avoid the common pitfalls that can slow your system down Contains tips and tricks on scaling successful database installations, and ensuring a highly available PostgreSQL solution Who This Book Is For This book is for intermediate to advanced database administrators and developers who use or plan to exploit the features of PostgreSQL in the best possible manner. While administrators can benefit from the topics related to the installation, configuration, and optimization of the server, developers will learn how to write optimal queries and address performance issues in their database design. This book will also benefit the PostgreSQL internal architects in being able to monitor the performance using benchmarking tools. What You Will Learn Learn the best practices to configure your PostgreSQL 9.6 database for optimal performance Write optimal queries and techniques to

detect performance issue in queries Fine tune the performance of your queries using benchmarking and indexing techniques Ensure high performance and a highly available database using the scaling and replication techniques Discover how to make informed speed and reliability trade-offs Handle increasing database workloads without any hassle Use monitoring insights to continuously rework the design and configuration for best performance In Detail Database administrators and developers spend years learning techniques to configure their PostgreSQL database servers for optimal performance, mostly when they encounter performance issues. Scalability and high availability of the database solution is equally important these days. This book will show you how to configure new database installations and optimize existing database server installations using PostgreSQL 9.6. You will start with the basic concepts of database performance, because all successful database applications are destined to eventually run into issues when scaling up their performance. You will not only learn to optimize your database and queries for optimal performance, but also detect the real performance bottlenecks using PostgreSQL tools and some external tools. Next, you will learn how to benchmark your hardware and tune your operating system. Optimize your queries against the database with the help of right indexes, and monitor every layer, ranging from hardware to queries. Moving on, you will see how connection pooling, caching, partitioning, and replication will help you handle increasing database workloads. Achieving high database performance is not easy, but you can learn it by using the right guide—PostgreSQL 9.6 High Performance. Style and approach This book has been organized in such a manner that will help you understand basic PostgreSQL 9.6 performance tuning to advanced-level configuration. There are many real-world problems explained in this book and explained in clear language, because improving database performance requires an equal mix of understanding theoretical concepts and working through hands-on examples.

PostgreSQL Replication

Filled with practical, step-by-step instructions and clear explanations for the most important and useful tasks. This hands-on guide provides a quick and easy way to back up and restore your database using PostgreSQL. Written for database administrators who want to create backups of their critical enterprise data and efficiently restore it using PostgreSQL.

Mastering PostgreSQL 12

Master PostgreSQL 12 features such as advanced indexing, high availability, monitoring, and much more to efficiently manage and maintain your database Key Features Grasp advanced PostgreSQL 12 concepts with real-world examples and sample datasets Explore query parallelism, data replication, database administration, and more Extend PostgreSQL functionalities to suit your organization's needs with minimal effort Book Description Thanks to its reliability, robustness, and high performance, PostgreSQL has become the most advanced open source database on the market. This third edition of Mastering PostgreSQL helps you build dynamic database solutions for enterprise applications using the latest release of

PostgreSQL, which enables database analysts to design both physical and technical aspects of system architecture with ease. Starting with an introduction to the newly released features in PostgreSQL 12, this book will help you build efficient and fault-tolerant PostgreSQL applications. You'll thoroughly examine the advanced features of PostgreSQL, including logical replication, database clusters, performance tuning, monitoring, and user management. You'll also work with the PostgreSQL optimizer, configure PostgreSQL for high speed, and understand how to move from Oracle to PostgreSQL. As you progress through the chapters, you'll cover transactions, locking, indexes, and how to optimize queries for improved performance. Additionally, you'll learn how to manage network security and explore backups and replications while understanding useful PostgreSQL extensions to help you in optimizing the performance of large databases. By the end of this PostgreSQL book, you'll be able to get the most out of your database by implementing advanced administrative tasks effortlessly. What you will learn Understand the advanced SQL functions in PostgreSQL 12 Use indexing features in PostgreSQL to fine-tune the performance of queries Work with stored procedures and manage backup and recovery Master replication and failover techniques to reduce data loss Replicate PostgreSQL database systems to create backups and to scale your database Manage and improve the security of your server to protect your data Troubleshoot your PostgreSQL instance for solutions to common and not-so-common problems Who this book is for This book is for PostgreSQL developers and administrators and database professionals who want to implement advanced functionalities and master complex administrative tasks with PostgreSQL 12. Prior exposure to PostgreSQL as well as familiarity with the basics of database administration is expected.

PostgreSQL 9 Administration Cookbook Lite: Configuration, Monitoring and Maintenance

The Only Official Google Cloud Study Guide The Official Google Cloud Certified Associate Cloud Engineer Study Guide, provides everything you need to prepare for this important exam and master the skills necessary to land that coveted Google Cloud Engineering certification. Beginning with a pre-book assessment quiz to evaluate what you know before you begin, each chapter features exam objectives and review questions, plus the online learning environment includes additional complete practice tests. Written by Dan Sullivan, a popular and experienced online course author for machine learning, big data, and Cloud topics, Official Google Cloud Certified Associate Cloud Engineer Study Guide is your ace in the hole for deploying and managing Google Cloud Services. • Select the right Google service from the various choices based on the application to be built • Compute with Cloud VMs and managing VMs • Plan and deploying storage • Network and configure access and security Google Cloud Platform is a leading public cloud that provides its users to many of the same software, hardware, and networking infrastructure used to power Google services. Businesses, organizations, and individuals can launch servers in minutes, store petabytes of data, and implement global virtual clouds with the Google Cloud Platform. Certified Associate Cloud Engineers have demonstrated the knowledge and skills needed to deploy and operate infrastructure, services, and networks in the Google Cloud. This exam guide is designed to help you understand the

Google Cloud Platform in depth so that you can meet the needs of those operating resources in the Google Cloud.

PostgreSQL High Performance Cookbook

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.

Troubleshooting PostgreSQL

Master the capabilities of PostgreSQL 11 to efficiently manage and maintain your database Key Features Master advanced concepts of PostgreSQL 11 with real-world datasets and examples Explore query parallelism, data replication, and database performance while working with larger datasets Extend the functionalities of your PostgreSQL instance to suit your organization's needs with minimal effort Book Description This second edition of Mastering PostgreSQL 11 helps you build dynamic database solutions for enterprise applications using the latest release of PostgreSQL, which enables database analysts to design both the physical and technical aspects of the system architecture with ease. This book begins with an introduction to the newly released features in PostgreSQL 11 to help you build efficient and fault-tolerant PostgreSQL applications. You'll examine all of the advanced aspects of PostgreSQL in detail, including logical replication, database clusters, performance tuning, monitoring, and user management. You will also work with the PostgreSQL optimizer, configuring PostgreSQL for high speed, and see how to move from Oracle to PostgreSQL. As you progress through the chapters, you will cover transactions, locking, indexes, and optimizing queries to improve performance. Additionally, you'll learn to manage network security and explore backups and replications, while understanding the useful extensions of PostgreSQL so that you can optimize the speed and performance of large databases. By the end of this book, you will be

able to use your database to its utmost capacity by implementing advanced administrative tasks with ease. What you will learn Get to grips with advanced PostgreSQL 11 features and SQL functions Make use of the indexing features in PostgreSQL and fine-tune the performance of your queries Work with stored procedures and manage backup and recovery Master replication and failover techniques Troubleshoot your PostgreSQL instance for solutions to common and not-so-common problems Perform database migration from MySQL and Oracle to PostgreSQL with ease Who this book is for This book is for data and database professionals wanting to implement advanced functionalities and master complex administrative tasks with PostgreSQL 11. Prior experience of database administration with PostgreSQL database will aid in understanding the concepts covered in this book.

PostgreSQL Cookbook

Written in the cookbook style, this book offers learning and techniques through recipes. It contains step-by-step instructions for administrators and developers to manage databases in PostgreSQL. The book is designed in such a way that you can read it chapter by chapter or refer to recipes in no particular order. This book is for Sysadmins, Database Administrators, Architects, Developers, and anyone with an interest in planning for or running live production databases. The book assumes that you are familiar with the basic operation of PostgreSQL.

Getting Started with SQL

PostgreSQL is a powerful, open source object-relational database system. An enterprise database, PostgreSQL includes features such as Multi-Version Concurrency Control (MVCC), point-in-time recovery, tablespaces, asynchronous replication, nested transactions (savepoints), online/hot backups, a sophisticated query planner/optimizer, and write-ahead logging for fault tolerance. PostgreSQL 9 Admin cookbook covers everything a database administrator needs to protect, manage and run a healthy and efficient PostgreSQL 9.0 database. PostgreSQL 9 Admin Cookbook describes key aspects of the PostgreSQL open source database system. The book covers everything a sysadmin or DBA needs to protect, manage, and run a healthy and efficient PostgreSQL 9 database. This hands-on guide will assist developers working on live databases, supporting web or enterprise software applications using Java, Python, Ruby, or .Net from any development framework. It's easy to manage your database when you've got PostgreSQL 9 Admin Cookbook to hand. PostgreSQL is fast becoming one of the world's most popular server databases with an enviable reputation for performance, stability, and an enormous range of advanced features. PostgreSQL is one of the oldest open source projects, completely free to use and developed by a very diverse worldwide community. Most of all, It Just Works! PostgreSQL 9 Admin Cookbook offers the information you need to manage your live production databases on PostgreSQL. The book contains insights direct from the main author of the PostgreSQL replication and recovery features, and the database architect of the most successful startup using PostgreSQL,

Skype. This practical guide gives quick answers to common questions and problems, building on the authors' experience as trainers, users, and core developers of the PostgreSQL database server. Each technical aspect is broken down into short recipes that demonstrate solutions with working code then explain why and how that works. The book is intended to be a desk reference for both new users and technical experts. The book covers all the latest features in PostgreSQL 9. Soon you will be running a smooth database with ease! A practical guide, this cookbook will ensure you run a smooth PostgreSQL database

Learning PostgreSQL 10 - Second Edition

If you are a system administrator, database administrator, architect, developer, or anyone with an interest in planning, managing, and designing database solutions using PostgreSQL, this is the book for you. This book is suited for you if you have some prior experience with any relational database or with the SQL language.

PostgreSQL for Data Architects

A practical guide to administer, monitor and replicate your PostgreSQL 11 database Key Features Study and apply the newly introduced features in PostgreSQL 11 Tackle any problem in PostgreSQL 11 administration and management Catch up on expert techniques for monitoring, fine-tuning, and securing your database Book Description PostgreSQL is a powerful, open source database management system with an enviable reputation for high performance and stability. With many new features in its arsenal, PostgreSQL 11 allows you to scale up your PostgreSQL infrastructure. This book takes a step-by-step, recipe-based approach to effective PostgreSQL administration. The book will introduce you to new features such as logical replication, native table partitioning, additional query parallelism, and much more to help you to understand and control, crash recovery and plan backups. You will learn how to tackle a variety of problems and pain points for any database administrator such as creating tables, managing views, improving performance, and securing your database. As you make steady progress, the book will draw attention to important topics such as monitoring roles, backup, and recovery of your PostgreSQL 11 database to help you understand roles and produce a summary of log files, ensuring high availability, concurrency, and replication. By the end of this book, you will have the necessary knowledge to manage your PostgreSQL 11 database efficiently. What you will learn Troubleshoot open source PostgreSQL version 11 on various platforms Deploy best practices for planning and designing live databases Select and implement robust backup and recovery techniques in PostgreSQL 11 Use pgAdmin or OmniDB to perform database administrator (DBA) tasks Adopt efficient replication and high availability techniques in PostgreSQL Improve the performance of your PostgreSQL solution Who this book is for This book is designed for database administrators, data architects, database developers, or anyone with an interest in planning and running live production databases using PostgreSQL 11. It is also ideal if you're looking for hands-on solutions to any

problem associated with PostgreSQL 11 administration. Some experience with handling PostgreSQL databases will be beneficial

PostgreSQL: Up and Running

This book is for developers and data architects who have some exposure to databases. It is assumed that you understand the basic concepts of tables and common database objects, including privileges and security.

PostgreSQL 10 High Performance

If you are a system administrator, database administrator, architect, developer, or anyone with an interest in planning, managing, and designing database solutions using PostgreSQL, this is the book for you. This book is suited for you if you have some prior experience with any relational database or with the SQL language.

PostgreSQL

Discover efficient ways to administer, monitor, replicate, and handle your PostgreSQL databases In Detail With more than a quarter of a century of development and innovation, PostgreSQL has gained a reputation for stability, robustness, and ease of use. The variety of features available within PostgreSQL makes it a powerful tool for your professional relational database infrastructure. With the database administrator in mind, this compact, easy-to-read, and practically-oriented book will make your daily handling of PostgreSQL more efficient and rewarding. You will learn about optimization, bottleneck detection, backup and recovery, replication, logfile management, indexing, and much more in a systematic and carefully structured manner. This invaluable guide will enable you to develop the fundamental skills required to deploy PostgreSQL in order to efficiently manage your databases. What You Will Learn Perform routine backups and restore your databases safely Set up replication quickly and easily Handle logfiles and extract information from PostgreSQL Monitor PostgreSQL and integrate it into the existing infrastructure Build desktop applications using C# Optimize PostgreSQL for high speed and tune your database parameters Adjust your user permissions and lock out intruders Detect bottlenecks and find missing indexes with ease.

PostgreSQL 11 Server Side Programming Quick Start Guide

Work with petabyte-scale datasets while building a collaborative, agile workplace in the process. This practical book is the canonical reference to Google BigQuery, the query engine that lets you conduct interactive analysis of large datasets.

BigQuery enables enterprises to efficiently store, query, ingest, and learn from their data in a convenient framework. With this book, you'll examine how to analyze data at scale to derive insights from large datasets efficiently. Valliappa Lakshmanan, tech lead for Google Cloud Platform, and Jordan Tigani, engineering director for the BigQuery team, provide best practices for modern data warehousing within an autoscaled, serverless public cloud. Whether you want to explore parts of BigQuery you're not familiar with or prefer to focus on specific tasks, this reference is indispensable.

Mastering PostgreSQL 11

Master the capabilities of PostgreSQL 9.6 to efficiently manage and maintain your database About This Book Your one-stop guide to mastering the advanced concepts in PostgreSQL with ease Master query optimization, replication, and high availability with PostgreSQL Extend the functionalities of PostgreSQL to suit your organizational needs with minimum effort Who This Book Is For If you are a PostgreSQL data architect or an administrator who wants to understand how to implement advanced functionalities and master complex administrative tasks with PostgreSQL, then this book is perfect for you. Prior experience of administering a PostgreSQL database and a working knowledge of SQL is required to make the best use of this book. What You Will Learn Get to grips with the advanced features of PostgreSQL 9.6 and handle advanced SQL Make use of the indexing features in PostgreSQL and fine-tune the performance of your queries Work with the stored procedures and manage backup and recovery Master the replication and failover techniques Troubleshoot your PostgreSQL instance for solutions to the common and not-so-common problems Learn how to migrate your database from MySQL and Oracle to PostgreSQL without any hassle In Detail PostgreSQL is an open source database used for handling large datasets (Big Data) and as a JSON document database. It also has applications in the software and web domains. This book will enable you to build better PostgreSQL applications and administer databases more efficiently. We begin by explaining the advanced database design concepts in PostgreSQL 9.6, along with indexing and query optimization. You will also see how to work with event triggers and perform concurrent transactions and table partitioning, along with exploring SQL and server tuning. We will walk you through implementing advanced administrative tasks such as server maintenance and monitoring, replication, recovery and high availability, and much more. You will understand the common and not-so-common troubleshooting problems and how you can overcome them. By the end of this book, you will have an expert-level command of the advanced database functionalities and will be able to implement advanced administrative tasks with PostgreSQL. Style and Approach This book is a comprehensive guide covering all the concepts you need to master PostgreSQL. Packed with hands-on examples, tips and tricks, even the most advanced concepts are explained in a very easy-to-follow manner. Every chapter in the book does not only focus on how each task is performed, but also why.

PostgreSQL 11 Administration Cookbook

Get Free Postgresql Replication Guide

A guide to building applications with Rails covers such topics as metaprogramming, Active Support library, advanced database functions, security principles, RESTful architecture, and optimizing performance.

Instant PostgreSQL Backup and Restore How-to

Businesses are gathering data today at exponential rates and yet few people know how to access it meaningfully. If you're a business or IT professional, this short hands-on guide teaches you how to pull and transform data with SQL in significant ways. You will quickly master the fundamentals of SQL and learn how to create your own databases. Author Thomas Nield provides exercises throughout the book to help you practice your newfound SQL skills at home, without having to use a database server environment. Not only will you learn how to use key SQL statements to find and manipulate your data, but you'll also discover how to efficiently design and manage databases to meet your needs. You'll also learn how to: Explore relational databases, including lightweight and centralized models Use SQLite and SQLiteStudio to create lightweight databases in minutes Query and transform data in meaningful ways by using SELECT, WHERE, GROUP BY, and ORDER BY Join tables to get a more complete view of your business data Build your own tables and centralized databases by using normalized design principles Manage data by learning how to INSERT, DELETE, and UPDATE records

Official Google Cloud Certified Associate Cloud Engineer Study Guide

If you are a database developer who wants to learn how to design and implement databases for application development using PostgreSQL, this is the book for you. Existing knowledge of basic database concepts and some programming experience is required

Working with Oracle GoldenGate 12c

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.

Practical PostgreSQL

Over 150 recipes to help you administer your PostgreSQL database more efficiently About This Book Get to grips with the capabilities of PostgreSQL 9.6 to administer your database more efficiently Monitor, tune, secure and protect your database A step-by-step, recipe-based guide to help you tackle any problem in PostgreSQL administration with ease Who This Book Is For This book is for system administrators, database administrators, data architects, developers, and anyone with an interest in planning for, or running, live production databases. This book is most suited to those who have some technical experience. What You Will Learn Implement PostgreSQL features for performance and reliability Harness the power of the latest PostgreSQL 9.6 features Manage open source PostgreSQL versions 9.5 and 9.6 on various platforms Discover advanced technical tips for experienced users Explore best practices for planning and designing live databases Select and implement robust backup and recovery techniques Explore concise and clear guidance on replication and high availability See the latest details on Logical Replication and Bi-Directional Replication In Detail PostgreSQL is a powerful opensource

database management system; now recognized as the expert's choice for a wide range of applications, it has an enviable reputation for performance and stability. PostgreSQL provides an integrated feature set comprising relational database features, object-relational, text search, Geographical Info Systems, analytical tools for big data and JSON/XML document management. Starting with short and simple recipes, you will soon dive into core features, such as configuration, server control, tables, and data. You will tackle a variety of problems a database administrator usually encounters, from creating tables to managing views, from improving performance to securing your database, and from using monitoring tools to using storage engines. Recipes based on important topics such as high availability, concurrency, replication, backup and recovery, as well as diagnostics and troubleshooting are also given special importance. By the end of this book, you will have all the knowledge you need to run, manage, and maintain PostgreSQL efficiently. Style and approach This book takes a step-by-step, recipe-based approach, where each recipe focuses on a particular challenge faced by a PostgreSQL administrator while administering his/her database. Explained in a very easy to follow manner, every task is supported with best practices, tips and tricks.

Mastering PostgreSQL 9.6

Get started with PostgreSQL on the cloud and discover the advantages, disadvantages, and limitations of the cloud services from Amazon, Rackspace, Google, and Azure. Once you have chosen your cloud service, you will focus on securing it and developing a back-up strategy for your PostgreSQL instance as part of your long-term plan. Beginning PostgreSQL on the Cloud covers other essential topics such as setting up replication and high availability; encrypting your saved cloud data; creating a connection pooler for your database; and monitoring PostgreSQL on the cloud. The book concludes by showing you how to install and configure some of the tools that will help you get started with PostgreSQL on the cloud. This book shows you how database as a service enables you to spread your data across multiple data centers, ensuring that it is always accessible. You'll discover that this model does not expect you to install and maintain databases yourself because the database service provider does it for you. You no longer have to worry about the scalability and high availability of your database. What You Will Learn Migrate PostgreSQL to the cloud Choose the best configuration and specifications of cloud instances Set up a backup strategy that enables point-in-time recovery Use connection pooling and load balancing on cloud environments Monitor database environments on the cloud Who This Book Is For Those who are looking to migrate to PostgreSQL on the Cloud. It will also help database administrators in setting up a cloud environment in an optimized way and help them with their day-to-day tasks.

PostgreSQL 9. 0 High Performance

WildFly is the most popular open-source Java application server. This book is an in-depth guide to the administration and

management of the of the application server, covering all of the latest architectural and management changes such as: - How to achieve High Availability of your WildFly cluster - How to configure the newest subsystems (agroal, mp subsystems) - Delivering advanced and leak-proof Datasource configuration - Provisioning custom Server distributions with Galleon tool. - Using the Undertow Web server as front-end for mod_cluster and as Reverse Proxy Server - Migrating your older legacy configurations to WildFly newer subsystems - Securing the application server with Elytron Framework - Configuring a robust JMS cluster with Apache Artemis MQ - Running WildFly in the cloud with Openshift and CRC - Configuring Eclipse Micro Profiles and much more, with improved online examples!

PostgreSQL Administration Essentials

"A practical guide to the Advanced Open Source Database"--Cover.

PostgreSQL Configuration

A comprehensive series of dependable recipes to design, build, and implement a PostgreSQL server architecture free of common pitfalls that can operate for years to come. Each chapter is packed with instructions and examples to simplify even highly complex database operations. If you are a PostgreSQL DBA working on Linux systems who want a database that never gives up, this book is for you. If you've ever experienced a database outage, restored from a backup, spent hours trying to repair a malfunctioning cluster, or simply want to guarantee system stability, this book is definitely for you.

PostgreSQL 9 Administration Cookbook - Second Edition

Leverage the power of PostgreSQL 10 to design, administer and maintain a high-performance database solution Key Features Obtain optimal PostgreSQL 10 database performance, ranging from initial design to routine maintenance Fine tune the performance of your queries and avoid the common pitfalls that can slow your system down Contains tips and tricks on scaling successful database installations, and ensuring a highly available PostgreSQL solution Book Description PostgreSQL database servers have a common set of problems that they encounter as their usage gets heavier and requirements get more demanding. Peek into the future of your PostgreSQL 10 database's problems today. Know the warning signs to look for and how to avoid the most common issues before they even happen. Surprisingly, most PostgreSQL database applications evolve in the same way--choose the right hardware, tune the operating system and server memory use, optimize queries against the database and CPUs with the right indexes, and monitor every layer, from hardware to queries, using tools from inside and outside PostgreSQL. Also, using monitoring insight, PostgreSQL database applications continuously rework the design and configuration. On reaching the limits of a single server, they break things up; connection pooling, caching,

partitioning, replication, and parallel queries can all help handle increasing database workloads. By the end of this book, you will have all the knowledge you need to design, run, and manage your PostgreSQL solution while ensuring high performance and high availability. What you will learn: Learn best practices for scaling PostgreSQL 10 installations. Discover the best hardware for developing high-performance PostgreSQL applications. Benchmark your whole system - from hardware to application. Learn by real examples how server parameters impact performance. Discover PostgreSQL 10 features for partitioning and parallel query. Monitor your server, both inside and outside the database. Design and implement a good replication system on PostgreSQL 10. Who this book is for: This book is designed for database administrators and PostgreSQL architects who already use or plan to exploit the features of PostgreSQL 10 to design and maintain a high-performance PostgreSQL database. A working knowledge of SQL, and some experience with PostgreSQL will be helpful in getting the most out of this book.

The Manga Guide to Databases

Want to learn about databases without the tedium? With its unique combination of Japanese-style comics and serious educational content, *The Manga Guide to Databases* is just the book for you. Princess Ruruna is stressed out. With the king and queen away, she has to manage the Kingdom of Kod's humongous fruit-selling empire. Overseas departments, scads of inventory, conflicting prices, and so many customers! It's all such a confusing mess. But a mysterious book and a helpful fairy promise to solve her organizational problems—with the practical magic of databases. In *The Manga Guide to Databases*, Tico the fairy teaches the Princess how to simplify her data management. We follow along as they design a relational database, understand the entity-relationship model, perform basic database operations, and delve into more advanced topics. Once the Princess is familiar with transactions and basic SQL statements, she can keep her data timely and accurate for the entire kingdom. Finally, Tico explains ways to make the database more efficient and secure, and they discuss methods for concurrency and replication. Examples and exercises (with answer keys) help you learn, and an appendix of frequently used SQL statements gives the tools you need to create and maintain full-featured databases. (Of course, it wouldn't be a royal kingdom without some drama, so read on to find out who gets the girl—the arrogant prince or the humble servant.) This EduManga book is a translation of a bestselling series in Japan, co-published with Ohmsha, Ltd., of Tokyo, Japan.

Google BigQuery: The Definitive Guide

Get to know effective ways to improve PostgreSQL's performance and master query optimization, and database monitoring. About This Book Perform essential database tasks such as benchmarking the database and optimizing the server's memory usage. Learn ways to improve query performance and optimize the PostgreSQL server. Explore a wide range of high

availability and replication mechanisms to build robust, highly available, scalable, and fault-tolerant PostgreSQL databases

Who This Book Is For If you are a developer or administrator with limited PostgreSQL knowledge and want to develop your skills with this great open source database, then this book is ideal for you. Learning how to enhance the database performance is always an exciting topic to everyone, and this book will show you enough ways to enhance the database performance. What You Will Learn Build replication strategies for homogeneous and heterogeneous databases Test and build a powerful machine with multiple bench marking techniques Get to know a few SQL injection techniques Find out how to manage the replication using multiple tools Benchmark the database server using multiple strategies Work with the query processing algorithms and their internal behaviors Build a proper plan to upgrade or migrate to PostgreSQL from other databases See the essential database load balancing techniques and the various partitioning approaches PostgreSQL provides Learn memory optimization techniques and database server configurations In Detail PostgreSQL is one of the most powerful and easy to use database management systems. It has strong support from the community and is being actively developed with a new release every year. PostgreSQL supports the most advanced features included in SQL standards. It also provides NoSQL capabilities and very rich data types and extensions. All of this makes PostgreSQL a very attractive solution in software systems. If you run a database, you want it to perform well and you want to be able to secure it. As the world's most advanced open source database, PostgreSQL has unique built-in ways to achieve these goals. This book will show you a multitude of ways to enhance your database's performance and give you insights into measuring and optimizing a PostgreSQL database to achieve better performance. This book is your one-stop guide to elevate your PostgreSQL knowledge to the next level. First, you'll get familiarized with essential developer/administrator concepts such as load balancing, connection pooling, and distributing connections to multiple nodes. Next, you will explore memory optimization techniques before exploring the security controls offered by PostgreSQL. Then, you will move on to the essential database/server monitoring and replication strategies with PostgreSQL. Finally, you will learn about query processing algorithms. Style and approach This comprehensive guide is packed with practical administration tasks. Each topic is explained using examples and a step-by-step approach.

PostgreSQL 9 Administration Cookbook

Extend PostgreSQL using PostgreSQL server programming to create, test, debug, and optimize a range of user-defined functions in your favorite programming language Key Features Learn the concepts of PostgreSQL 11 with lots of real-world datasets and examples Learn queries, data replication, and database performance Extend the functionalities of your PostgreSQL instance to suit your organizational needs Book Description PostgreSQL is a rock-solid, scalable, and safe enterprise-level relational database. With a broad range of features and stability, it is ever increasing in popularity. This book shows you how to take advantage of PostgreSQL 11 features for server-side programming. Server-side programming enables strong data encapsulation and coherence. The book begins with the importance of server-side programming and

explains the risks of leaving all the checks outside the database. To build your capabilities further, you will learn how to write stored procedures, both functions and the new PostgreSQL 11 procedures, and create triggers to perform encapsulation and maintain data consistency. You will also learn how to produce extensions, the easiest way to package your programs for easy and solid deployment on different PostgreSQL installations. What you will learn Explore data encapsulation Write stored procedures in different languages Interact with transactions from within a function Get to grips with triggers and rules Create and manage custom data types Create extensions to package code and data Implement background workers and Inter-Process Communication (IPC) How to deal with foreign languages, in particular Java and Perl Who this book is for This book is for database administrators, data engineers, and database engineers who want to implement advanced functionalities and master complex administrative tasks with PostgreSQL 11.

Mastering PostgreSQL 10

This book has a chapter dedicated to each aspect of replication. The new features of PostgreSQL 9 are introduced and there are lots of practical examples and screenshots."PostgreSQL Replication" is ideal for PostgreSQL administrators who want to set up and understand replication. If you want to make your databases more robust, more secure, faster, and more scalable, you will find all the information you need in this single book focusing exclusively on PostgreSQL replication. It is assumed that you already have some basic experience with PostgreSQL.

Advanced Rails

Annotation. PostgreSQL database servers have a common set of problems they encounter as their usage gets heavier and requirements more demanding. You could spend years discovering solutions to them all, step by step as you encounter them. Or you can just look in here. All successful database applications are destined to eventually run into issues scaling up their performance. Peek into the future of your PostgreSQL database's problems today. Know the warning signs to look for, and how to avoid the most common issues before they even happen. Surprisingly, most PostgreSQL database applications evolve in the same way: Choose the right hardware. Tune the operating system and server memory use. Optimize queries against the database, with the right indexes. Monitor every layer, from hardware to queries, using some tools that are inside PostgreSQL and others that are external. Using monitoring insight, continuously rework the design and configuration. On reaching the limits of a single server, break things up; connection pooling, caching, partitioning, and replication can all help handle increasing database workloads. The path to a high performance database system isn't always easy. But it doesn't have to be mysterious with the right guide. A clear, step-by-step guide to optimizing and scaling up PostgreSQL database servers.

PostgreSQL Developer's Guide

Thinking of migrating to PostgreSQL? This clear, fast-paced introduction helps you understand and use this open source database system. Not only will you learn about the enterprise class features in versions 9.5 to 10, you'll also discover that PostgreSQL is more than a database system—it's an impressive application platform as well. With examples throughout, this book shows you how to achieve tasks that are difficult or impossible in other databases. This third edition covers new features, such as ANSI-SQL constructs found only in proprietary databases until now: foreign data wrapper (FDW) enhancements; new full text functions and operator syntax introduced in version 9.6; XML constructs new in version 10; query parallelization features introduced in 9.6 and enhanced in 10; built-in logical replication introduced in Version 10.e. If you're a current PostgreSQL user, you'll pick up gems you may have missed before. Learn basic administration tasks such as role management, database creation, backup, and restore Apply the psql command-line utility and the pgAdmin graphical administration tool Explore PostgreSQL tables, constraints, and indexes Learn powerful SQL constructs not generally found in other databases Use several different languages to write database functions Tune your queries to run as fast as your hardware will allow Query external and variegated data sources with foreign data wrappers Learn how to use built-in replication to replicate data

PostgreSQL Cookbook

Master the capabilities of PostgreSQL 10 to efficiently manage and maintain your database Key Features Your one-stop guide to mastering advanced concepts in PostgreSQL 10 with ease Master query optimization, replication, and high availability with PostgreSQL Extend the functionalities of your PostgreSQL instance to suit your organizational needs with minimal effort Book Description PostgreSQL is an open source database used for handling large datasets (big data) and as a JSON document database. This book highlights the newly introduced features in PostgreSQL 10, and shows you how you can build better PostgreSQL applications, and administer your PostgreSQL database more efficiently. We begin by explaining advanced database design concepts in PostgreSQL 10, along with indexing and query optimization. You will also see how to work with event triggers and perform concurrent transactions and table partitioning, along with exploring SQL and server tuning. We will walk you through implementing advanced administrative tasks such as server maintenance and monitoring, replication, recovery, high availability, and much more. You will understand common and not-so-common troubleshooting problems and how you can overcome them. By the end of this book, you will have an expert-level command of advanced database functionalities and will be able to implement advanced administrative tasks with PostgreSQL 10. What you will learn Get to grips with the advanced features of PostgreSQL 10 and handle advanced SQL Make use of the indexing features in PostgreSQL and fine-tune the performance of your queries Work with stored procedures and manage backup and recovery Master replication and failover techniques Troubleshoot your PostgreSQL instance for solutions to common

and not-so-common problems Learn how to migrate your database from MySQL and Oracle to PostgreSQL without any hassle Who this book is for If you are a PostgreSQL data architect or an administrator and want to understand how to implement advanced functionalities and master complex administrative tasks with PostgreSQL 10, then this book is perfect for you. Prior experience of administrating a PostgreSQL database and a working knowledge of SQL are required to make the best use of this book.

PostgreSQL 9 High Availability Cookbook

Through example-driven recipes, with plenty of code, focused on the most vital features of the latest PostgreSQL version (9.4), both administrators and developers will follow short, specific guides to understand and leverage useful PostgreSQL functionalities to create better and more efficient databases.

Beginning PostgreSQL on the Cloud

This book teaches the basics of Oracle GoldenGate, which is a product that is used to simplify the process of Oracle Database Replication. GoldenGate can be used for reporting, failover, high availability, live reporting, data warehousing, and BigData ETL process, as well as connecting to multiple other data sources outside of Oracle Database such as SQL Server, MySQL, Teradata, PostgreSQL, and many others. The purpose of GoldenGate and its popularity is its ability to make the highly complex architecture of database replication into a much more simplistic task. This book teaches the reader how to use Oracle GoldenGate, from installation to troubleshooting.

PostgreSQL Replication

PostgreSQL offers a comprehensive set of replication related features. Unleashing the power of PostgreSQL provides you with countless opportunities and a competitive advantage over other database systems. This book will guide you through the most important concepts of PostgreSQL replication. It contains all the information you need to design and operate replicated setups. Beginning by giving you an understanding of replication concepts, the PostgreSQL transaction log, and Point-in-time Recovery, we gradually move on to setting up asynchronous and synchronous replication. Next up, you will learn to monitor a PostgreSQL cluster setup, deal with monitoring tools, and then move on to understanding Linux High Availability. Further, we explore widely-used tools such as Slony, SkyTools, Postgres-XC, and walbouncer, and set up PL/Proxy. Finally, you'll get acquainted with the new technology of BDR, which allows bidirectional replication in PostgreSQL.

PostgreSQL 9.6 High Performance

This book has a chapter dedicated to each aspect of replication. The new features of PostgreSQL 9 are introduced and there are lots of practical examples and screenshots. "PostgreSQL Replication" is ideal for PostgreSQL administrators who want to set up and understand replication. If you want to make your databases more robust, more secure, faster, and more scalable, you will find all the information you need in this single book focusing exclusively on PostgreSQL replication. It is assumed that you already have some basic experience with PostgreSQL.

PostgreSQL 12 High Availability Cookbook

A comprehensive guide to understanding key techniques for architecture and hardware planning, monitoring, replication, backups, and decoupling Key Features Newly updated edition, covering the latest PostgreSQL 12 features with hands-on industry-driven recipes Create a PostgreSQL cluster that stays online even when disaster strikes Learn how to avoid costly downtime and data loss that can ruin your business Book Description Databases are nothing without the data they store. In the event of an outage or technical catastrophe, immediate recovery is essential. This updated edition ensures that you will learn the important concepts related to node architecture design, as well as techniques such as using repmgr for failover automation. From cluster layout and hardware selection to software stacks and horizontal scalability, this PostgreSQL cookbook will help you build a PostgreSQL cluster that will survive crashes, resist data corruption, and grow smoothly with customer demand. You'll start by understanding how to plan a PostgreSQL database architecture that is resistant to outages and scalable, as it is the scaffolding on which everything rests. With the bedrock established, you'll cover the topics that PostgreSQL database administrators need to know to manage a highly available cluster. This includes configuration, troubleshooting, monitoring and alerting, backups through proxies, failover automation, and other considerations that are essential for a healthy PostgreSQL cluster. Later, you'll learn to use multi-master replication to maximize server availability. Later chapters will guide you through managing major version upgrades without downtime. By the end of this book, you'll have learned how to build an efficient and adaptive PostgreSQL 12 database cluster. What you will learn Understand how to protect data with PostgreSQL replication tools Focus on hardware planning to ensure that your database runs efficiently Reduce database resource contention with connection pooling Monitor and visualize cluster activity with Nagios and the TIG (Telegraf, InfluxDB, Grafana) stack Construct a robust software stack that can detect and avert outages Use multi-master to achieve an enduring PostgreSQL cluster Who this book is for This book is for Postgres administrators and developers who are looking to build and maintain a highly reliable PostgreSQL cluster. Although knowledge of the new features of PostgreSQL 12 is not required, a basic understanding of PostgreSQL administration is expected.

PostgreSQL Replication

Arguably the most capable of all the open source databases, PostgreSQL is an object-relational database management

system first developed in 1977 by the University of California at Berkeley. In spite of its long history, this robust database suffers from a lack of easy-to-use documentation. Practical PostgreSQL fills that void with a fast-paced guide to installation, configuration, and usage. This comprehensive new volume shows you how to compile PostgreSQL from source, create a database, and configure PostgreSQL to accept client-server connections. It also covers the many advanced features, such as transactions, versioning, replication, and referential integrity that enable developers and DBAs to use PostgreSQL for serious business applications. The thorough introduction to PostgreSQL's PL/pgSQL programming language explains how you can use this very useful but under-documented feature to develop stored procedures and triggers. The book includes a complete command reference, and database administrators will appreciate the chapters on user management, database maintenance, and backup & recovery. With Practical PostgreSQL, you will discover quickly why this open source database is such a great open source alternative to proprietary products from Oracle, IBM, and Microsoft.

Learning PostgreSQL

Create, develop and manage relational databases in real world applications using PostgreSQL About This Book Learn about the PostgreSQL development life cycle including its testing and refactoring Build productive database solutions and use them in Java applications A comprehensive guide to learn about SQL, PostgreSQL procedural language and PL/pgSQL Who This Book Is For If you are a student, database developer or an administrator, interested in developing and maintaining a PostgreSQL database, then this book is for you. No knowledge of database programming or administration is necessary. What You Will Learn Learn concepts of data modelling and relation algebra Install and set up PostgreSQL database server and client software Implement data structures in PostgreSQL Manipulate data in the database using SQL Implement data processing logic in the database with stored functions, triggers and views Test database solutions and assess the performance Integrate database with Java applications Detailed knowledge of the main PostgreSQL building objects, most used extensions Practice database development life cycle including analysis, modelling, (documentation), testing, bug fixes and refactoring In Detail PostgreSQL is one of the most powerful and easy to use database management systems. It has strong support from the community and is being actively developed with a new release every year. PostgreSQL supports the most advanced features included in SQL standards. Also it provides NoSQL capabilities, and very rich data types and extensions. All that makes PostgreSQL a very attractive solution in various kinds of software systems. The book starts with the introduction of relational databases with PostegreSQL. It then moves on to covering data definition language (DDL) with emphasis on PostgreSQL and common DDL commands supported by ANSI SQL. You will then learn the data manipulation language (DML), and advanced topics like locking and multi version concurrency control (MVCC). This will give you a very robust background to tune and troubleshoot your application. The book then covers the implementation of data models in the database such as creating tables, setting up integrity constraints, building indexes, defining views and other schema objects. Next, it will give you an overview about the NoSQL capabilities of PostgreSQL along with Hstore, XML, Json and

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arrays. Finally by the end of the book, you'll learn to use the JDBC driver and manipulate data objects in the Hibernate framework. Style and approach An easy-to-follow guide to learn programming build applications with PostgreSQL, and manage a PostgreSQL database instance.

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