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PostgreSQL Administration Essentials

Discover efficient ways to administer, monitor, replicate, and handle your PostgreSQL databases

Hans-Jürgen Schönig

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Essentials Hans-Jürgen Schönig, 2014 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 **Mastering PostgreSQL 10** Hans-Jürgen Schönig, 2018-01-31 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 **Mastering PostgreSQL 13 - Fourth Edition** HANS-JURGEN. SCHONIG,2020-11-13 Explore expert techniques such as advanced indexing and high availability to build scalable reliable and fault tolerant database applications using PostgreSQL 13 Key Features Master advanced PostgreSQL 13 concepts with the help of real world datasets and examples Leverage PostgreSQL s indexing features to fine tune the performance of your queries Extend PostgreSQL s functionalities to suit your organization s needs with minimal effort Book Description Thanks to its reliability robustness and high performance PostgreSQL has become one of the most advanced open source databases on the market This updated fourth edition will help you understand PostgreSQL administration and how to build dynamic database solutions for enterprise apps with the latest release of PostgreSQL including designing both physical and technical aspects of the system architecture with ease Starting with an introduction to the new features in PostgreSQL 13 this book will guide you in building efficient and fault tolerant PostgreSQL apps You ll explore advanced PostgreSQL features such as logical replication database clusters performance tuning advanced indexing monitoring and user management to manage and maintain your database You ll then work with the PostgreSQL optimizer configure PostgreSQL for high speed and move from Oracle to PostgreSQL The book also covers transactions locking and indexes and shows you how to improve performance with query optimization You ll also focus on how to manage network security and work with backups and replication while exploring useful PostgreSQL extensions that optimize 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 executing advanced administrative tasks What You Will Learn Get well versed with advanced SQL functions in PostgreSQL 13 Get to grips with administrative tasks such as log file management and monitoring Work with stored procedures and manage backup and recovery Employ replication and failover techniques to reduce data loss Perform database migration from Oracle to PostgreSQL with ease Replicate PostgreSQL database systems to create backups and scale your database Manage and improve server security to protect your data Troubleshoot your PostgreSQL instance to find solutions to common and not so common problems Who this book is for This database administration book is for PostgreSQL developers and database administrators and professionals who want to implement advanced functionalities and master complex administrative tasks with PostgreSQL 13 Prior experience in PostgreSQL and familiarity with the basics of database administration will assist with understanding key concepts covered in the book [Mastering PostgreSQL 12-Third Edition](#)

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PostgreSQL 15 Hans-Jürgen Schönig, 2023-01-31 Master the capabilities of PostgreSQL 15 to efficiently administer and maintain your database Purchase of the print or Kindle book includes a free PDF eBook Key Features Using real world examples get to grips with expert PostgreSQL 15 concepts Explore performance improvement database replication data replication database administration and more Extend PostgreSQL s functionalities to suit your organization s needs with minimal effort Book Description Starting with an introduction to the newly released features of PostgreSQL 15 this updated fifth edition will help you get to grips with PostgreSQL administration and how to build dynamic database solutions for enterprise apps including designing both physical and technical aspects of the system You ll explore advanced PostgreSQL features such as logical replication database clusters advanced indexing and user management to manage and maintain your database You ll then work with the PostgreSQL optimizer configure PostgreSQL for high speed and move from Oracle to PostgreSQL Among the other skills that the book will help you build you ll cover transactions handling recursions working with JSON and JSONB data and setting up a Patroni cluster It will show you how to improve performance with query optimization You ll also focus on managing network security and work with backups and replication while exploring useful PostgreSQL extensions that optimize the performance of large databases By the end of this PostgreSQL book you ll be able to use your database to its utmost capacity by implementing advanced administrative tasks with ease What you will learn 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 Get the hang of replication and failover techniques Improve the security of your database server and handle encryption effectively Troubleshoot your PostgreSQL instance for solutions to common and not so common problems Perform database migration from Oracle to PostgreSQL with ease Who this book is for This database administration book is for PostgreSQL developers database administrators and professionals who want to implement advanced functionalities and master complex administrative tasks with PostgreSQL 15 Prior experience in PostgreSQL and familiarity with the basics of database administration will assist with understanding key concepts covered in the book

Troubleshooting PostgreSQL Hans-Jürgen Schönig, 2015-03-30 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

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Mastering PostgreSQL
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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

Mastering PostgreSQL 9.6 Hans-Jurgen Schonig, 2017-05-30 Master the capabilities of PostgreSQL 9.6 to efficiently manage and maintain your database

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PostgreSQL Replication Hans-Jürgen Schöning, 2015-07-28 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

PHP and PostgreSQL Ewald Geschwinde, Hans-Jürgen Schöning, 2002 Introduction 1 Pt I Getting Started 3 1 Getting Started 5 2 Setting Up PHP 15 3 PHP Basics 43 4 Object Oriented PHP 121 Pt II Getting Started with PostgreSQL 137 5 Relational and Object Relational Database Concepts 139 6 Installing PostgreSQL 149 7 Basic SQL 177 8 Advanced SQL 225 9 Embedded Languages 307 10 PostgreSQL Administration 349 Pt III PHP PostgreSQL Interaction 379 11 Writing Database Driven Applications 381 12 Working with BLOBs 405 13 Working with Persistent Database Connections 423 Pt IV Advanced Technologies 433 14 Managing Regular Expressions 435 15 Session Management 463 16 Working with Dynamic Documents Images and Movies 475 17 Working with Dates and Time 521 18 Tuning 551 19 XML 573 20 Security Issues 585 Pt V Practical Examples 597 21 Web Applications 599 22 Extending PostgreSQL 669 23 High Availability Systems 695 Pt VI Migration 709 24 Migration 711 Index 721

PostgreSQL Replication - Second Edition

Hans-Jurgen Schonig,2015-07-28 This book is ideal for PostgreSQL administrators who want to set up and understand replication By the end of the book you will be able to make your databases more robust and secure by getting to grips with PostgreSQL replication *PostgreSQL Developer's Handbook* Ewald Geschwinde,2001 **Mastering PostgreSQL 11 - Second Edition** Hans-Jurgen Schonig,2018 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 Downloading the example code for this book You can download the example code files f **PostgreSQL.** Ewald Geschwinde,2002 PostgreSQL Developer s Handbook provides a complete overview of the PostgreSQL database server and extensive coverage of its core features including object orientation PL pgSQL and the most important programming interfaces The authors introduce the reader to the language and syntax of PostgreSQL and then move quickly into sophisticated programming topics Readers will learn how to program efficient date calculations to integrate PostgreSQL into the Microsoft Office environment and how to build dynamic Flash Web sites using PostgreSQL The authors provide tested sample code accompanied by *PostgreSQL 9 Administration Cookbook Lite* Simon Riggs,Hannu

Krosing,2011-04-15 This book is for Sysadmins Database Administrators Architects Developers and anyone with an interest in planning for or running live production databases **PostgreSQL 10 Administration Cookbook** Gianni Ciolli,Simon

Riggs,2018-05-18 A practical guide to administer monitor and replicate your PostgreSQL 10 database Key Features Get to grips with the capabilities of PostgreSQL 10 to administer your database more efficiently Monitor tune secure and protect your database for optimal performance A step by step recipe based guide to help you tackle any problem in PostgreSQL 10 administration with ease 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 10 allows users to scale up their PostgreSQL infrastructure This book takes a step by step recipe based approach to effective PostgreSQL administration Throughout this book you will be introduced to these new features such as logical replication native table partitioning additional query parallelism and much more You will learn how to tackle a variety of problems that are basically the pain points for any database administrator from creating tables to managing views from improving performance to securing your database More importantly the book pays special attention to topics such as monitoring roles backup and recovery of your PostgreSQL 10 database ensuring high availability concurrency and replication By the end of this book you will know everything you need to know to be the go to PostgreSQL expert in your organization What you will learn Get to grips with the newly released PostgreSQL 10 features to improve database performance and reliability Manage open source PostgreSQL versions 10 on various platforms Explore best practices for planning and designing live databases Select and implement robust backup and recovery techniques in PostgreSQL 10 Explore concise and clear guidance on replication and high availability Discover advanced technical tips for experienced users Who this book is for This book is for database administrators data architects developers or anyone with an interest in planning for or running live production databases using PostgreSQL It is most suited to those looking for hands on solutions to any problem associated with PostgreSQL administration **PostgreSQL 9 Administration Cookbook - Second Edition** Simon Riggs,Gianni Ciolli,Hannu

Krosing,Gabriele Bartolini,2015-04-30 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 Postgre functionalities to create better and more efficient databases

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