Quick answers to common problems

PostgreSQL 9 High Availability Cookbook

Over 100 recipes to design and implement a highly available server with the advanced features of PostgreSQL

Shaun M. Thomas

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PostgreSQL High Availability Cookbook Shaun M. Thomas,2017-02-08 Master over 100 recipes to design and implement a highly available server with the advanced features of PostgreSQL About This Book Create a PostgreSQL cluster that stays online even when disaster strikes Avoid costly downtime and data loss that can ruin your business Updated to include the newest features introduced in PostgreSQL 9 6 with hands on industry driven recipes Who This Book Is For 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 What You Will Learn Protect your data with PostgreSQL replication and management tools such as Slony Bucardo pglogical and WAL E Hardware planning to help your database run efficiently Prepare for catastrophes and prevent them before they happen Reduce database resource contention with connection pooling using pgpool and PgBouncer Automate monitoring and alerts to visualize cluster activity using Nagios and collected Construct a robust software stack that can detect and fix outages Learn simple PostgreSQL High Availability with Patroni or dive into the full power of Pacemaker In Detail Databases are nothing without the data they store In the event of a failure catastrophic or otherwise immediate recovery is essential By carefully combining multiple servers it s even possible to hide the fact a failure occurred at all From hardware selection to software stacks and horizontal scalability this book will help you build a versatile PostgreSQL cluster that will survive crashes resist data corruption and grow smoothly with customer demand It all begins with hardware selection for the skeleton of an efficient PostgreSQL database cluster Then it s on to preventing downtime as well as troubleshooting some real life problems that administrators commonly face Next we add database monitoring to the stack using collectd Nagios and Graphite And no stack is complete without replication using multiple internal and external tools including the newly released pglogical extension Pacemaker or Raft consensus tools are the final piece to grant the cluster the ability to heal itself We even round off by tackling the complex problem of data scalability This book exploits many new features introduced in PostgreSQL 9 6 to make the database more efficient and adaptive and most importantly keep it running Style and approach This book contains practical recipes that will help the reader solve real world problems related to high availability in PostgreSQL Every recipe is explained in detail with relevant explanations tips and tricks provided for quicker and easier understanding *PostgreSQL 9 High Availability Cookbook* Shaun,2014-07-17 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 High Availability Cookbook** Shaun M. Thomas,2014-01-01 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 12 High Availability Cookbook** Shaun Thomas,2020-02-25 A comprehensive guide to understanding key techniques for architecture and hardware planning monitoring replication backups and decoupling Key FeaturesNewly updated edition covering the latest PostgreSQL 12 features with hands on industry driven recipesCreate a PostgreSQL cluster that stays online even when disaster strikesLearn how to avoid costly downtime and data loss that can ruin your businessBook 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 learnUnderstand how to protect data with PostgreSQL replication toolsFocus on hardware planning to ensure that your database runs efficientlyReduce database resource contention with connection poolingMonitor and visualize cluster activity with Nagios and the TIG Telegraf InfluxDB Grafana stack Construct a robust software stack that can detect and avert outagesUse multi master to achieve an enduring PostgreSQL clusterWho 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 9 High Availability Cookbook** Ethan Fraser,2015-08-17 This updated and expanded second edition of the PostgreSQL 9 High Availability Cookbook provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject s core elements A flowing writing style combines with the use

of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for all those interested in the subject We hope you find this book useful in shaping your future career Business *PostgreSQL Replication* Hans-Jürgen Schönig,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 **Exploring the Role of ICTs in Healthy Aging** Mendes, David,Fonseca, César,Lopes, Manuel José,García-Alonso, José,Murillo, Juan Manuel,2020-05-31 Technological innovation continues to be present in all areas of our lives offering seemingly endless possibilities As technology is increasingly implemented in healthcare applications it is necessary to understand whether users respond to a predefined organizational strategy of model of care or whether they will become wholly dependent on the healthcare technology This understanding is especially crucial when dealing with the possibility of generating inequities especially with individuals that are elderly Exploring the Role of ICTs in Healthy Aging is a collection of innovative research that proposes the detailed study of a strategic framework for the development of technological innovation in healthcare and for its adoption by health organizations While highlighting topics including emotional health quality of life and telemedicine this book is ideally designed for physicians nurses hospital staff medical professionals home care providers hospital administrators academicians students and researchers Moreover the book will provide insights and support executives concerned with the management of expertise knowledge information and organizational development in different types of healthcare units at various levels Expert Configuration Automation with Chef: A Detailed Roadmap for Mastery Adam Jones,2025-01-02 Expert Configuration Automation with Chef A Detailed Roadmap for Mastery is the definitive resource for IT professionals seeking to revolutionize their infrastructure management with cutting edge automation Positioned at the forefront of the DevOps movement this book delves deep into the sophisticated world of configuration automation with Chef offering a comprehensive exploration of its core principles functionalities and advanced capabilities From the foundational steps of installing and configuring Chef environments to mastering the art of cookbook development and attribute management this roadmap ensures a thorough understanding of every facet of Chef s ecosystem The guide meticulously builds upon each chapter empowering readers to effectively utilize Chef resources recipes roles and environments Advanced

discussions venture into custom resources libraries and Ohai plugins enabling tailored solutions to meet specific operational demands A strong emphasis on testing guarantees the creation of robust dependable cookbooks a critical requirement for contemporary IT infrastructures Perfect for DevOps engineers system administrators software developers and IT specialists this book serves as both a strategic tool and an inspirational guide for automating and optimizing infrastructure Whether you re setting up Chef for the first time enhancing your automation strategies or delving into advanced customizations this book is your trusted companion on the path to transformation Through a blend of theoretical insights and practical scenarios it offers a hands on learning experience that prepares you to thrive in the dynamic realm of configuration automation Expert Configuration Automation with Chef is not merely a manual it s a transformative journey leading you toward innovating and excelling in infrastructure management Embrace Chef s potential to create a seamless scalable and self healing infrastructure and elevate your automation expertise with this essential roadmap   *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   *PostgreSQL High Performance Cookbook* Chitij Chauhan,Dinesh Kumar,2017-03-29 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 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 FeaturesImplement PostgreSQL 13 features to perform end to end modern database managementDesign manage and build enterprise database solutions using a unique recipe based approachSolve common and not so common challenges faced while working to achieve optimal database performanceBook 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 learnUnderstand logical and physical backups in PostgresDemonstrate the different types of replication methods possible with PostgreSQL todaySet up a high availability cluster that provides seamless automatic failover for applicationsSecure a PostgreSQL encryption through authentication authorization and auditingAnalyze the live and historic activity of a PostgreSQL serverUnderstand how to monitor critical services in Postgres 13Manage maintenance activities and performance tuning of a PostgreSQL clusterWho 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 <u>Forthcoming Books</u> Rose Arny,2002-02

PostgreSQL 9 Administration Cookbook Simon Riggs,2010 **PostgreSQL 16 Cookbook, Second Edition** Peter G,2024-08-09 Offering a detailed practical look at PostgreSQL 16 s new features PostgreSQL 16 Cookbook Second Edition equips database administrators and developers to take advantage of the most recent developments This edition provides in depth coverage of enhanced logical replication which now includes the ability to replicate from standby servers We provide detailed instructions for setting up these advanced replication configurations allowing you to better distribute workloads and improve data availability The optimization of concurrent bulk loading capabilities for faster data ingestion is another noteworthy addition Another standout feature of PostgreSQL 16 is the expanded SQL JSON syntax which gives developers more control over JSON data management Our book contains practical solutions and examples for using the new JSON functions and operators which make it easier to store query and manipulate JSON data in your applications We walk you through the process of configuring refined user roles and permissions ensuring effective access control in complex environments Additionally the book teaches new monitoring capabilities introduced with the pg_stat_io view which provide insights into I O operations to help optimize performance The book goes on to implement performance enhancements such as SIMD acceleration for processing ASCII and JSON strings as well as the new load balancing feature load_balance_hosts which distributes traffic efficiently among multiple servers Key Learnings Boost data availability and workload distribution using advanced logical replication techniques Apply the SIMD acceleration to expedite the processing of ASCII and JSON strings Make use of improved SQL JSON syntax to manage complicated JSON data operations Utilize pg_stat_io for troubleshooting and monitoring I O operations Utilize Rust libraries like pgx and rust postgres for easy integration with PostgreSQL Distribute workload among numerous PostgreSQL instances by configuring load_balance_hosts Simplify user role configurations and security with refined privilege management Utilize pgBackRest and Barman to implement strong backup strategies Table of Content Preparing PostgreSQL 16 Performing Basic PostgreSQL Operations PostgreSQL Cloud Provisioning Database Migration to Cloud and PostgreSQL WAL AutoVacuum ArchiveLog Partitioning and Sharding Strategies Troubleshooting Replication Scalability High Availability Blob JSON Query CAST Operator Connections Authentication Audit Encryption Implementing Database Backup Strategies Perform Database Recovery Restoration

PostgreSQL 9 Administration Cookbook Lite: Configuration, Monitoring and Maintenance Simon Riggs,Hannu Krosing,2011-04-01 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 *PostgreSQL Administration Cookbook, 9.5/9.6*

Edition Simon Riggs,Gianni Ciolli,Gabriele Bartolini,2017-04-27 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 **PostgreSQL 9 Administration Cookbook** ,2015 **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 15 Cookbook** Peter G,2023-03-28 If you re a PostgreSQL database administrator looking for a comprehensive guide to managing your databases look no further than the PostgreSQL 15 Cookbook With 100 ready solutions to common database management challenges this book provides a complete guide to administering and troubleshooting your databases using latest PostgreSQL 15 Starting with cloud provisioning and migration the book covers all aspects of database administration including replication transaction logs partitioning sharding auditing realtime monitoring backup recovery and error debugging Each solution is presented in a clear easy to follow format using a real database called adventureworks to provide an on job practicing experience Throughout the book you ll learn how to use tools like pglogical pgloader WAL repmgr Patroni HAProxy PgBouncer pgBackRest pgAudit and Prometheus gaining valuable experience and expertise in managing your databases With its focus on practical solutions and real world scenarios the PostgreSQL 15 Cookbook is an essential resource for any PostgreSQL database administrator Whether you re just starting out or you re a seasoned pro this book has everything you need to keep your databases running smoothly and efficiently Key Learnings Streamline your PostgreSQL databases with cloud provisioning and migration techniques Optimize performance and scalability through effective replication partitioning and sharding Safeguard your databases with robust auditing backup and recovery strategies Monitor your databases in real time with powerful tools like pgAudit Prometheus and Patroni Troubleshoot errors and debug your databases with expert techniques and best practices Boost your productivity and efficiency with advanced tools like pglogical pgloader and HAProxy Table of Content Getting PostgreSQL 15 Ready Performing Basic PostgreSQL Operations PostgreSQL Cloud Provisioning Database Migration to Cloud and PostgreSQL WAL AutoVacuum ArchiveLog Partitioning and Sharding Strategies Solving Replication Scalability High Availability Blob JSON Query CAST Operator Connections Authentication Audit Encryption Implementing Database Backup Strategies Exploring Database Recovey Restoration Methods Prometheus Continuous Monitoring Debugging PostgreSQL Audience This book is

ideal for database administrators developers and IT professionals who are responsible for managing and troubleshooting PostgreSQL databases It is also suitable for beginners looking to learn more about PostgreSQL administration and best practices   PostgreSQL 14 Administration Cookbook Simon Riggs,Gianni Ciolli,2022-03-31 Administer monitor and replicate your PostgreSQL 14 database for efficient database management and maintenance Key FeaturesTroubleshoot and tackle any administration and management problems in PostgreSQL 14Find expert techniques for monitoring fine tuning and securing your databaseAdopt efficient replication for high availability with PostgreSQL 14Book 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 14 allows you to scale up your PostgreSQL infrastructure With this book you ll take a step by step recipe based approach to effective PostgreSQL administration This book will get you up and running with all the latest features of PostgreSQL 14 while helping you explore the entire database ecosystem You ll learn how to tackle a variety of problems and pain points you may face as a database administrator such as creating tables managing views improving performance and securing your database As you make progress the book will draw attention to important topics such as monitoring roles validating backups regular maintenance and recovery of your PostgreSQL 14 database This will help you understand roles ensuring high availability concurrency and replication Along with updated recipes this book touches upon important areas like using generated columns TOAST compression PostgreSQL on the cloud and much more By the end of this PostgreSQL book you ll have gained the knowledge you need to manage your PostgreSQL 14 database efficiently both in the cloud and on premise What you will learnPlan manage and maintain PostgreSQL databases in productionWork with the newly introduced features of PostgreSQL 14Use pgAdmin or OmniDB to perform database administrator DBA tasksUse psql to write accurate and repeatable scriptsUnderstand how to tackle real world data issues with the help of examplesSelect and implement robust backup and recovery techniques in PostgreSQL 14Deploy best practices for planning and designing live databasesWho this book is for This Postgres 14 book is for database administrators data architects database developers and anyone with an interest in planning and running live production databases using PostgreSQL 14 Those looking for hands on solutions to any problem associated with PostgreSQL 14 administration will also find this book useful Some experience with handling PostgreSQL databases will help you to make the most out of this book however it is a useful resource even if you are just beginning your Postgres journey

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