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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 9 High Availability Cookbook

Vallarapu Naga Avinash Kumar

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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 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 **PostgreSQL 15 Cookbook** Mohammad Samsad Hussain,2024-03-15 Level up database administration with PostgreSQL 15 recipes for mastery KEY FEATURES Explore PostgreSQL 15 through 100 plus practical recipes gaining expertise in monitoring logging and migration Master cloud setup scaling and PostgreSQL 15 resource management in the cloud Enhance database efficiency streamline backup and recovery for administration DESCRIPTION PostgreSQL 15 is a powerful open source database system known for its reliability flexibility and advanced features It stores and manages data efficiently making it ideal for everything from personal projects to large scale applications Get started with installation configuration and user management Learn the basics of tables views and functions Deploy your database securely on AWS migrate seamlessly from other systems and explore replication for high availability Write efficient SQL queries optimize performance and safeguard your information with backups and recovery techniques Control user access implement robust security measures and monitor your database health for proactive troubleshooting Solve common errors and optimize performance Practical tips and real world scenarios provide a hands on learning experience making it easy to apply new knowledge By the end of this book you will have the confidence and skills to manage data like a pro tackle challenges with ease and unleash the full potential of PostgreSQL 15 WHAT YOU WILL LEARN To setup configure and manage users with expertise Scale your database to the cloud securely and migrate seamlessly Protect your data recover from unexpected events Control access implement robust security measures and monitor your database s health Troubleshooting problem solving and fixing common errors WHO THIS BOOK IS FOR This book is for aspiring students IT professionals database administrators and solution architects looking to enhance their database management skills TABLE OF CONTENTS 1 Up and running with PostgreSQL 15 2 Database Hierarchy 3 Cloud Provisioning 4 Migration 5 Transaction Log 6 Partitioning and Sharding 7 Replication and High Availability 8 Leveraging SQL 9 Server Controls and Auditing 10 Backup 11 Recovery 12 Monitoring and Diagnosis 13 Troubleshooting **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 9 Administration Cookbook Simon Riggs,2010   **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   **Forthcoming Books** Rose Arny,2002-02   **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** ,2015

   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

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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

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