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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

Chitij Chauhan,Dinesh Kumar



Postgresql 9 High Availability Cookbook:

PostgreSQL 9 High Availability Cookbook Shaun M. Thomas, 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 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 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 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 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 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

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

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

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

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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 performance

Book Description PostgreSQL has become the most advanced open source database on the market This book follows a step by step approach guiding you effectively in deploying PostgreSQL in production environments The book starts with an introduction to PostgreSQL and its architecture You ll cover common and not so common challenges faced while designing and managing the database Next the book focuses on backup and recovery strategies to ensure your database is steady and achieves optimal performance Throughout the book you ll address key challenges such as maintaining reliability data integrity a fault tolerant environment a robust feature set extensibility consistency and authentication Moving ahead you ll learn how to manage a PostgreSQL cluster and explore replication features for high availability Later chapters will assist you in building a secure PostgreSQL server along with covering recipes for encrypting data in motion and data at rest Finally you ll not only discover how to tune your database for optimal performance but also understand ways to monitor and manage maintenance activities before learning how to perform PostgreSQL upgrades during downtime By the end of this book you ll be well versed with the essential PostgreSQL 13 features to build enterprise relational databases

What you will 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 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 **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 **VMware vSphere 6.7 Cookbook** Abhilash G B,2019-08-30 Proven actionable ways to install manage secure and monitor your vSphere 6 7 environments Key FeaturesGet up to speed with the installation and life cycle management of a vSphere 6 7 environment using a task based approachSecure your vSphere environment using SSL CertificatesGet introduced to the tools that are used to monitor the performance of the vSphere

EnvironmentBook Description VMware vSphere is the most comprehensive core suite of SDDC solutions on the market It helps transform data centers into simplified on premises private cloud infrastructures This edition of the book focuses on the latest version vSphere 6 7 The books starts with chapters covering the greenfield deployment of vSphere 6 7 components and the upgrade of existing vSphere components to 6 7 You will then learn how to configure storage and network access for a vSphere environment Get to grips with optimizing your vSphere environment for resource distribution and utilization using features such as DRS and DPM along with enabling high availability for vSphere components using vSphere HA VMware FT and VCHA Then you will learn how to facilitate large scale deployment of stateless stateful ESXi hosts using Auto Deploy Finally you will explore how to upgrade patch a vSphere environment using vSphere Update Manager secure it using SSL certificates and then monitor its performance with tools such as vSphere Performance Charts and esxtop By the end of this book you ll be well versed in the core functionalities of vSphere 6 7 and be able to effectively deploy manage secure and monitor your environment What you will learnDeploy a new vSphere 6 7 environment or upgrade an existing vSphere environment to version 6 7Learn how to configure and manage storage and network access for a vSphere environmentEnable high availability for Hosts VMs and vCenter ServerOptimize your vSphere environment for resource distribution utilizationPatch or upgrade a vSphere environment using vSphere Update ManagerSecure vSphere infrastructure components using SSL certificatesEffectively monitor the performance of your vSphere environmentWho this book is for If you are a systems administrator support engineer or anyone who wants to learn how to install configure and manage a vSphere environment in a quick hands on manner then this book is for you Consultants and infrastructure architects who wish to design and deploy vSphere 6 7 environments will also find this book helpful [Julia 1.0 Programming Cookbook](#)

Bogumił Kamiński,Przemysław Szufel,2018-11-29 Discover the new features and widely used packages in Julia to solve complex computational problems in your statistical applications Key FeaturesAddress the core problems of programming in Julia with the most popular packages for common tasksTackle issues while working with Databases and Parallel data processing with JuliaExplore advanced features such as metaprogramming functional programming and user defined typesBook Description Julia with its dynamic nature and high performance provides comparatively minimal time for the development of computational models with easy to maintain computational code This book will be your solution based guide as it will take you through different programming aspects with Julia Starting with the new features of Julia 1 0 each recipe addresses a specific problem providing a solution and explaining how it works You will work with the powerful Julia tools and data structures along with the most popular Julia packages You will learn to create vectors handle variables and work with functions You will be introduced to various recipes for numerical computing distributed computing and achieving high performance You will see how to optimize data science programs with parallel computing and memory allocation We will look into more advanced concepts such as metaprogramming and functional programming Finally you will learn how to tackle

issues while working with databases and data processing and will learn about on data science problems data modeling data analysis data manipulation parallel processing and cloud computing with Julia By the end of the book you will have acquired the skills to work more effectively with your data What you will learn Boost your code s performance using Julia s unique features Organize data in to fundamental types of collections arrays and dictionaries Organize data science processes within Julia and solve related problems Scale Julia computations with cloud computing Write data to IO streams with Julia and handle web transfer Define your own immutable and mutable types Speed up the development process using metaprogramming Who this book is for This book is for developers who would like to enhance their Julia programming skills and would like to get some quick solutions to their common programming problems Basic Julia programming knowledge is assumed *Spring Boot 3.0 Cookbook* Felip Miguel Puig, 2024-07-12 Tackle the complexities of modern web applications by understanding the uses of Spring Boot s cloud design patterns to build scalable and resilient applications Key Features Discover practical recipes for real cloud scale application challenges Explore what Spring Boot offers to make your application production ready Monitor applications identify bottlenecks and optimize performance Purchase of the print or Kindle book includes a free PDF eBook Book Description In today s dynamic landscape crafting robust and scalable Java web applications presents formidable challenges Spring Boot emerges as the leading framework for web and microservices development featuring a dynamic ecosystem and seamless integrations to address a spectrum of scenarios from scaling apps on the cloud to deploying them to production In this book you ll explore its streamlined convention over configuration approach simplifying application development You ll start by covering recipes showcasing Spring Boot s features As you progress you ll understand how it helps streamline application development while staying ahead of technology trends The book helps you grasp concepts effectively explores basic REST APIs shows you how to escalate to advanced scenarios and tackle common cloud application challenges like security scalability performance optimization and automated deployments Dedicated sections are designed to help you stay ahead of the curve with recipes that delve into the latest trends such as containers observability native images DevOps test automation and microservices ensuring your applications align with evolving industry standards By the end of this book you ll be able to build and automate the deployment of a scalable and high performing distributed solution using Spring Boot 3 What you will learn Develop production grade distributed applications Use various data repositories including relational and NoSQL databases Implement modern testing techniques across different levels of application development Leveraging Testcontainers to validate all integration scenarios Integrate with services like Redis PostgreSQL MongoDB and RabbitMQ Authenticate through OpenID providers Facilitate smooth migration from earlier Spring Boot versions Who this book is for This book is for Java developers who want to gain expertise in modern web development architects designing complex systems experienced Spring Boot developers and technology enthusiasts looking to stay up to date with the latest trends and software engineers in need of practical solutions for everyday challenges Hands on experience with Java or Kotlin

is required Prior development experience on the cloud will be useful but not necessary

Forthcoming Books Rose Army,2002-02 **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 9 Administration Cookbook Simon Riggs,2010 PostgreSQL 16 Administration Cookbook Gianni Ciolli, Boriss Mejías, Jimmy Angelakos, Vibhor Kumar, Simon Riggs,2023-12-04 Written by a team of well known PostgreSQL experts this new edition will cover all the latest updates of PostgreSQL 16 including 12 new and improved recipes on logging monitoring security and high performance Purchase of the print or Kindle book includes a free PDF eBook Key Features Skill up as a database administrator by achieving improved query performance backup and recovery management setting up replication and so on Get to grips with the essentials of database management with a recipe based approach using the latest features of PostgreSQL 16 New and updated recipes on crucial PostgreSQL topics like Monitoring Logging Scalability and so on Book Description PostgreSQL has seen a huge increase in its customer base in the past few years and is becoming one of the go to solutions for anyone who has a database specific challenge This PostgreSQL book touches on all the fundamentals of Database Administration in a problem solution format It is intended to be the perfect desk reference guide This new edition focuses on recipes based on the new PostgreSQL 16 release The additions include handling complex batch loading scenarios with the SQL MERGE statement security improvements running Postgres on Kubernetes or with TPA and Ansible and more This edition also focuses on certain performance gains such as query optimization and the acceleration of specific operations such as sort It will help you understand roles ensuring high availability concurrency and replication It also draws your attention to aspects like validating backups recovery monitoring and scaling aspects This book will act as a one stop solution to all your real world database administration challenges By the end of this book you will be able to manage monitor and replicate your PostgreSQL 16 database for efficient administration and maintenance with the best practices from experts What you will learn Discover how to improve batch data loading with the SQL MERGE statement Use logical replication to apply large transactions in parallel Improve your back up and recovery performance with server side compression Tackle basic to high end and real world PostgreSQL challenges with practical recipes Monitor and fine tune your database with ease Learn to navigate the newly introduced features of PostgreSQL 16 Efficiently secure your PostgreSQL database with new and updated features Who this book is for This Postgres book is for database administrators data architects database developers and anyone with an interest in planning and running live production databases using PostgreSQL 16 Those looking for hands on solutions to any problem associated with PostgreSQL 16 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 PostgreSQL 9 Administration Cookbook ,2015 **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

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Postgresql 9 High Availability Cookbook Introduction

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