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Postgresql Administration Cookbook 9 5 9 6 Editio

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[AWS Cookbook](#) Packt Publishing Ltd

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 Configuration](#) Packt Publishing Ltd

This book is for Sysadmins, Database Administrators, Architects, Developers, and anyone with an interest in planning for or running live production databases.

[PostgreSQL 12 High Availability Cookbook](#) "O'Reilly Media, Inc."

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 Administration Cookbook - Second Edition Packt Publishing Ltd

The PostgreSQL 9.0 system administration guide, covers the installation, configuration and maintenance of PostgreSQL 9.0 database servers. Topics include backups, security, tuning and upgrade procedures, and advanced features such as file-based and record-based log-shipping, continuous archiving and point-in-time recovery.

PostgreSQL Administration Cookbook - Third Edition Packt Publishing Ltd

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

PostgreSQL 9 Administration Cookbook Packt Publishing Ltd

A guide to SQL covers such topics as retrieving records, metadata queries, working with strings, data arithmetic, date manipulation, reporting and warehousing, and hierarchical queries.

Odoo 11 Development Cookbook - Second Edition Packt Publishing Ltd

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 Lite Packt Publishing Ltd

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 Recovery & 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.

Odoo Development Cookbook Packt Publishing Ltd

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 9.0 Reference Manual - Volume 3 Packt Publishing Ltd

Create fast and efficient server-side applications using the latest features of Odoo v11 Key Features Get the most up-to-date guide on Odoo 11 to create custom and reusable modules Interconnect your application with other systems by implementing web APIs Understand the mechanisms powering the Odoo framework to build robust enterprises Book Description Odoo is a full-featured open source ERP with a focus on extensibility. The flexibility and sustainability of open source are also a key selling point of Odoo. It is built on a powerful framework for rapid application development, both for back-end applications and front-end websites. Version 11 offers better usability and speed: a new design (as compared to the current Odoo Enterprise version) and a mobile interface. The book starts by covering Odoo installation and administration and Odoo Server deployment. It then delves into the implementation of Odoo modules, the different inheritance models available in Odoo. You will then learn how to define access rules for your data; how to make your application available in different languages; how to expose your data models to end users on the back end and on the front end; and how to create beautiful PDF versions of your data. By the end of the book, you will have a thorough knowledge of Odoo and will be able to build effective applications by applying Odoo development best practices What you will learn Install and manage Odoo environments and instances Use models to define your application's data structures Add business logic to your applications Add automated tests and learn how to debug Odoo apps Learn about the access security model and internationalization features Customize websites built with Odoo, by writing your own templates and providing new snippets for use in the website builder Extend the web client with new widgets and make RPC calls to the server Who this book is for If you're a Python developer and want to develop highly efficient business applications with the latest Odoo framework (or if you just want a hands on problem solution book for all your Odoo Development related issues), this book is for you! Some experience with the JavaScript programming language and web development is required to get the most out of this book.

PostgreSQL 9.5 Vol6: Internals Apress

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 14 Administration Cookbook](#) Packt Publishing Ltd

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](#) "O'Reilly Media, Inc."

Create simple to advanced shell scripts and enhance your system functionality with effective recipes Key Features Automate tedious and repetitive tasks Create several novel applications ranging from a simple IRC logger to a Web Scraper Manage your system efficiently by becoming a seasoned Bash user Book Description In Linux, one of the most commonly used and most powerful tools is the Bash shell. With its collection of engaging recipes, Bash Cookbook takes you through a series of exercises designed to teach you how to effectively use the Bash shell in order to create and execute your own scripts. The book starts by introducing you to the basics of using the Bash shell, also teaching you the fundamentals of generating any input from a command. With the help of a number of exercises, you will get to grips with the automation of daily tasks for sysadmins and power users. Once you have a hands-on understanding of the subject, you will move on to exploring more advanced projects that can solve real-world problems comprehensively on a Linux system. In addition to this, you will discover projects such as creating an application with a menu, beginning scripts on startup, parsing and displaying human-readable information, and executing remote commands with authentication using self-generated Secure Shell (SSH) keys. By the end of this book, you will have gained significant experience of solving real-world problems, from automating routine tasks to managing your systems and creating your own scripts. What you will learn Understand the basics of Bash shell scripting on a Linux system Gain working knowledge of how redirections and pipes interact Retrieve and parse input or output of any command Automate tasks such as data collection and creating and applying a patch Create a script that acts like a program with different features Customize your Bash shell and discover neat tricks to extend your programs Compile and install shell and log commands on your system's console using Syslog Who this book is for The Bash Cookbook is for you if you are a power user or system administrator involved in writing Bash scripts in order to automate tasks. This book is also ideal if you are interested in learning how to automate complex daily tasks.

[PostgreSQL High Availability Cookbook - Second Edition](#) Packt Publishing Ltd

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 10 Administration Cookbook BPB Publications

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 Administration Essentials "O'Reilly Media, Inc."

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 13 Cookbook](#) Packt Publishing Ltd

Explore expert techniques such as advanced indexing and high availability to build scalable, reliable, and fault-tolerant database applications using PostgreSQL 13 Key FeaturesMaster advanced PostgreSQL 13 concepts with the help of real-world datasets and examplesLeverage PostgreSQL's indexing features to fine-tune the performance of your queriesExtend PostgreSQL's functionalities to suit your organization's needs with minimal effortBook 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 learnGet well versed with advanced SQL functions in PostgreSQL 13Get to grips with administrative tasks such as log file management and monitoringWork with stored procedures and manage backup and recoveryEmploy replication and failover techniques to reduce data lossPerform database migration from Oracle to PostgreSQL with easeReplicate PostgreSQL database systems to create backups and scale your databaseManage and improve server security to protect your dataTroubleshoot your PostgreSQL instance to find solutions to common and not-so-common problemsWho 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 13](#) Springer

Build customized solutions for your business using the latest features of Odoo 12 and Python Key FeaturesGet up to speed with Odoo 12 to create custom and reusable modulesInterconnect your application with other systems by implementing web APIsUnderstand the mechanisms powering the Odoo framework and Odoo.sh to build robust enterprisesBook Description Odoo is a powerful framework known for rapid application development. Its latest release, Odoo 12, introduces tons of new features. With this book, you'll learn how to develop powerful Odoo applications from scratch, using all the latest features. This Odoo cookbook starts by covering Odoo installation and deployment on the server. Next, you'll explore the Odoo framework with real-world examples. You'll create a new Odoo module from the ground up and progress to advanced framework concepts. You'll also learn how to modify existing applications, including Point of Sale (POS). This book is not just limited to backend development; the advanced JavaScript recipes for creating new views and widgets will help you build beautiful UI elements. As you move forward, you'll gain insights into website development and become a quality Odoo developer by studying performance optimization, debugging, and automated tests. Finally, you'll learn the latest concepts like multi-website, In-App Purchasing (IAP), Odoo.sh, and IoT Box. By the end of the book, you'll have all the knowledge you need to build powerful Odoo applications. The development best practices used in this book will undoubtedly come handy when you are working with the Odoo framework. What you will learnDevelop a module in the Odoo framework and modify the existing flow of any applicationBuild dynamic websites with Odoo CMSCreate and modify backend JavaScript components in Odoo and POSConnect and access any object in Odoo via Remote Procedure Calls (RPC)Illustrate the different tools available in Odoo to implement business processes for your recordsImplement in-app purchase servicesManage, deploy, and test an Odoo instance with the PaaS Odoo.shConfigure IoT Box to add and upgrade Point of Sale (POS) hardwareWho this book is for If you're a Python developer who wants to develop highly efficient business applications with the latest Odoo framework, or if you just want a solution guide for all your Odoo development issues, this book is for you. Some JavaScript programming and web development experience is necessary to get the most out of

this book.

PostgreSQL Administration Cookbook, 9.5/9.6 Edition Packt Publishing Ltd

Web technologies have become a vital element within educational, professional, and social settings as they have the potential to improve performance and productivity across organizations. Artificial Intelligence Technologies and the Evolution of Web 3.0 brings together emergent research and best practices surrounding the effective usage of Web 3.0 technologies in a variety of environments. Featuring the latest technologies and applications across industries, this publication is a vital reference source for academics, researchers, students, and professionals who are interested in new ways to use intelligent web technologies within various settings.

PostgreSQL Cookbook "O'Reilly Media, Inc."

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.