High Availability With Postgresql And Pacemaker

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🌱 The Next Generation of Postgres High Availability (PostgreSQL HA)
Webinar: Achieving High Availability with PostgreSQL by Martín Marqués Highly Available PostgreSQL Database Cluster Creation \u0026 Monitoring in Minutes MySQL and PostgreSQL High Availability PostgresOpen 2019 Easy And Correct High Availability PostgreSQL With Kubernetes Architecture for building scalable and highly available Postgres Cluster The Evolution of Postgres High Availability

High Availability for Postgres

PostgreSQL Streaming Replication PGDay.IT 2018 – PostgreSQL High Availability using repmgr and pgbouncer – Slavcho Trnkovski
Implementing High Availability with PostgreSQL PostgreSQL replication by example Proxy vs. Reverse Proxy (Explained by Example) Active Active vs Active Passive High Availability Cluster
Comparison of PostgreSQL and MongoDB Setup PostgreSQL and pgAdmin | Install and Uninstall PostgreSQL Database Database Indexing Explained (with PostgreSQL)

creating clusters in postgres [Lab 36] Master-Slave Replication Configure Stream Replication on PostgreSQL Master-Slave Setup | Postgresql Replication Tutorial Postgresql: Upgrading postgres with pg_upgrade 01 - High Availability Architecture OCB: High Availability PostgreSQL and more on OpenShift - Jonathan Katz (Crunchy Data) PostgreSQL High Availability and Geographic Locality PostgreSQL High Availability Fail-over and High-Availability (Explained by Example) Set Up a Highly Available PostgreSQL Cluster using Patroni and HAProxy on CentOS/RHEL 7 How to Design for Database High Availability Load Balancing vs High Availability Webinar Preview: Enhancing Postgres High Availability by Shaun Thomas High Availability With Postgresql And
Database servers can work together to allow a second server to take over quickly if the primary server fails (high availability), or to allow several computers to serve the same data (load balancing). Ideally, database servers could work together seamlessly.

PostgreSQL: Documentation: 9.5: High Availability, Load ...
It provides a way of engaging existing solutions with PostgreSQL to create a high availability setup. Setting up Patroni requires configuring various components. It starts with setting up psycopg2, configuration a DCS and pushing in configuration yaml files for PostgreSQL servers, and finally setting up HAProxy which provides a single way of connecting to the primary database server.

PostgreSQL High Availability: The Considerations and ...
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PostgreSQL: Documentation: 13: Chapter 26. High ...
High availability for PostgreSQL databases is very important for business continuity. EDB helps you to maintain high available PostgreSQL clusters in high performance. Setup and configure PostgreSQL for HA easily.

PostgreSQL High Availability: Essential for Business ...
PostgreSQL High Availability. A fundamental principle for high availability in PostgreSQL is eliminating a single point of failure, having a reliable crossover, and early. detection of database failure. The concept of High availability, failover, and replication are intertwined. In this archive, DBA's and System.

PostgreSQL High Availability | EDB
Using a combination of PgBouncer + HAProxy + PostgreSQL is a good way to achieve High Availability for your PostgreSQL cluster improving your database performance at the same time. As you can see, if you have your PostgreSQL environment in place, which you can deploy using ClusterControl in just a few clicks, you can easily add PgBouncer to take advantage of having a connection pooler for your systems.

How to Achieve PostgreSQL High Availability with pgBouncer ...
PostgreSQL - Replication and High Availability We were using MySQL as database for Teckportal till now, whereas the Open-source software we use for Teckportal known as loraserver uses PostgreSQL. Maintaining different databases and deploying them with replication and high availability is a big problem.

PostgreSQL - Replication and High Availability
Configuring PostgreSQL for Scaling and High Availability. In this section, you'll be guided through configuring a PostgreSQL database to be used with GitLab in a highly available environment. Provide your own PostgreSQL instance . If you're hosting GitLab on a cloud provider, you can optionally use a managed service for PostgreSQL.

Configuring PostgreSQL for Scaling and High Availability ...
These solutions allow deployment of Highly Available PostgreSQL with Rolling Upgrades, Fast Failovers, Point-in-Time Recovery, and more. The Single Master architecture provides High Availability of up to four 9s, while the BDR-based architecture provides AlwaysOn Availability of up to six 9s.

PostgreSQL High Availability - 2ndQuadrant | PostgreSQL
Citus is a drop-in replacement for PostgreSQL with built-in high availability features such as auto-sharding and replication. Citus shards your database and replicates multiple copies of each shard across the cluster of commodity nodes.

Top PG Clustering High Availability (HA) Solutions for ...
High Availability with PostgreSQL Database Prerequisite Make sure that the ports 3456 (the database port) and 8282 (the default webserver port) are open between the primary and the secondary application servers.

High Availability PostgreSQL (v6800 and later)
There are several architectures for PostgreSQL high availability, but the basic ones would be master-slave and master-master architectures. Master-Slave. This may be the most basic HA architecture we can setup, and often times, the more easy to set and maintain. It is based on one master database with one or more standby servers.

How to Deploy PostgreSQL for High Availability | Severalnines
With inherent high availability capabilities, Azure Database for PostgreSQL protects your databases from most common outages, and offers an industry leading, finance-backed 99.99% of uptime SLA. All these availability and reliability capabilities enable Azure to be the ideal platform to run your mission-critical applications.

High availability - Azure Database for PostgreSQL - Single ...
High availability (HA) and database replication is a major topic of discussion for database technologists. There are a number of informed choices to be made to optimize PostgreSQL replication so that you achieve HA. In this post we introduce an overview of the topic, and cover some options available to achieve high availability in PostgreSQL.

High Availability for Enterprise-Grade PostgreSQL ...
High Availability on PostgreSQL. There are different architectures for PostgreSQL high availability, but the most common is to have a Master-Slave topology (Primary-Standby). It is based on one primary database with one or more standby nodes. These standby databases will remain synchronized (or almost synchronized) with the primary, depending ...

How to Deploy Percona Distribution for PostgreSQL for High ...
High availability Streaming replication is the basis for most high availability solutions. Together with a software like Patroni that manages failover, it provides a robust shared-nothing architecture to build a fault tolerant system. Clearly, the main objective with high availability is to have as little replication delay as possible.

Replication conflicts in PostgreSQL, and how to deal with ...
Azure Database for PostgreSQL - Flexible Server is in preview. Azure Database for PostgreSQL - Flexible Server offers high availability configuration with automatic failover capability using zone redundant server deployment. When deployed in a zone redundant configuration, flexible server automatically provisions and manages a standby replica in a different availability zone.

Overview of zone redundant high availability with Azure ...
The popularity of PostgreSQL keeps increasing day by day, newer versions, capabilities and functionalities are constantly being added and incorporated by the community. Configuring a single PostgreSQL instance in its simplest form is quick and easy but when you desire to incorporate best practices ...

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.

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.

If you are a system administrator, database administrator, architect, developer, or anyone with an interest in planning, managing, and designing database solutions using PostgreSQL, this is the book for you. This book is suited for you if you have some prior experience with any relational database or with the SQL language.

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.

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.

Get to grips with building reliable, scalable, and maintainable database solutions for enterprises and production databases Key Features: Implement PostgreSQL 13 features to perform end-to-end modern database management Design, manage, and build enterprise database solutions using a unique recipe-based approach Solve 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 Learn: Understand logical and physical backups in Postgres Demonstrate the different types of replication methods possible with PostgreSQL today Set up a high availability cluster that provides seamless automatic failover for applications Secure a PostgreSQL encryption through authentication, authorization, and auditing Analyze the live and historic activity of a PostgreSQL server Understand how to monitor critical services in Postgres 13 Manage maintenance activities and performance tuning of a PostgreSQL cluster Who 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.

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.

Over 100 recipes to design and implement a highly available server with the advanced features of PostgreSQL 9.4,9.5 and 9.6About 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 recipesWho This Book Is ForIf 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 DetailDatabases 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.

Leverage the power of PostgreSQL 10 to design, administer and maintain a high-performance database solution Key Features Obtain optimal PostgreSQL 10 database performance, ranging from initial design to routine maintenance Fine tune the performance of your queries and avoid the common pitfalls that can slow your system down Contains tips and tricks on scaling successful database installations, and ensuring a highly available PostgreSQL solution Book Description PostgreSQL database servers have a common set of problems that they encounter as their usage gets heavier and requirements get more demanding. Peek into the future of your PostgreSQL 10 database's problems today. Know the warning signs to look for and how to avoid the most common issues before they even happen. Surprisingly, most PostgreSQL database applications evolve in the same way--choose the right hardware, tune the operating system and server memory use, optimize queries against the database and CPUs with the right indexes, and monitor every layer, from hardware to queries, using tools from inside and outside PostgreSQL. Also, using monitoring insight, PostgreSQL database applications continuously rework the design and configuration. On reaching the limits of a single server, they break things up; connection pooling, caching, partitioning, replication, and parallel queries can all help manage increasing database workloads. By the end of this book, you will have all the knowledge you need to design, run, and manage your PostgreSQL solution while ensuring high performance and high availability What you will learn Learn best practices for scaling PostgreSQL 10 installations Discover the best hardware for developing high-performance PostgreSQL applications Benchmark your whole system - from hardware to application Learn by real examples how server parameters impact performance Discover PostgreSQL 10 features for partitioning and parallel query Monitor your server, both inside and outside the database Design and implement a good replication system on PostgreSQL 10 Who this book is for This book is designed for database administrators and PostgreSQL architects who already use or plan to exploit the features of PostgreSQL 10 to design and maintain a high-performance PostgreSQL database. A working knowledge of SQL, and some experience with PostgreSQL will be helpful in getting the most out of this book.

Obtain all the skills you need to configure and manage a PostgreSQL database. In this book you will begin by installing and configuring PostgreSQL on a server by focusing on system-level parameter settings before installation. You will also look at key post-installation steps to avoid issues in the future. The basic configuration of PostgreSQL is tuned for compatibility rather than performance. Keeping this in mind, you will fine-tune your PostgreSQL parameters based on your environment and application behavior. You will then get tips to improve database monitoring and maintenance followed by database security for handling sensitive data in

PostgreSQL. Every system containing valuable data needs to be backed-up regularly. PostgreSQL follows a simple back-up procedure and provides fundamental approaches to back up your data. You will go through these approaches and choose the right one based on your environment. Running your application with limited resources can be tricky. To achieve this you will implement a pooling mechanism for your PostgreSQL instances to connect to other databases. Finally, you will take a look at some basic errors faced while working with PostgreSQL and learn to resolve them in the quickest manner. What You Will Learn Configure PostgreSQL for performance Monitor and maintain PostgreSQL instances Implement a backup strategy for your data Resolve errors faced while using PostgreSQL Who This Book Is For Readers with basic knowledge of PostgreSQL who wish to implement key solutions based on their environment.