
Postgresql 9 High Availability Cookbook

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MARITZA ESTHER

High Performance

Drupal "O'Reilly Media, Inc." Master PostgreSQL 12 features such as advanced indexing, high availability,

monitoring, and much more to efficiently manage and maintain your database

Key Features

- Grasp advanced PostgreSQL 12 concepts with real-world examples and sample datasets
- Explore query parallelism, data replication, database administration, and more
- Extend PostgreSQL functionalities to suit your organization's needs with minimal effort

Book Description

Thanks to its reliability, robustness, and high performance, PostgreSQL has become the most advanced open source database on the market. This third edition of *Mastering PostgreSQL* helps you build dynamic database solutions for enterprise applications

using the latest release of PostgreSQL, which enables database analysts to design both physical and technical aspects of system architecture with ease. Starting with an introduction to the newly released features in PostgreSQL 12, this book will help you build efficient and fault-tolerant PostgreSQL applications. You'll thoroughly examine the advanced features of PostgreSQL, including logical replication, database clusters, performance tuning, monitoring, and user management. You'll also work with the PostgreSQL optimizer, configure PostgreSQL for high speed, and understand how to move from Oracle to PostgreSQL. As you progress

through the chapters, you'll cover transactions, locking, indexes, and how to optimize queries for improved performance. Additionally, you'll learn how to manage network security and explore backups and replications while understanding useful PostgreSQL extensions to help you in optimizing 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 implementing advanced administrative tasks effortlessly. What you will learn Understand the advanced SQL functions in PostgreSQL 12 Use indexing features in PostgreSQL to fine-tune the performance

of queries Work with stored procedures and manage backup and recovery Master replication and failover techniques to reduce data loss Replicate PostgreSQL database systems to create backups and to scale your database Manage and improve the security of your server to protect your data Troubleshoot your PostgreSQL instance for solutions to common and not-so-common problems Who this book is for This book is for PostgreSQL developers and administrators and database professionals who want to implement advanced functionalities and master complex administrative tasks with PostgreSQL 12. Prior exposure to PostgreSQL as well as

familiarity with the basics of database administration is expected.

PostgreSQL 13

Cookbook 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.

Over 175 recipes for database

administrators to manage enterprise databases Packt

Publishing Ltd

How can you help your Drupal website continue to perform at the highest level as it grows to meet demand? This comprehensive guide provides best practices, examples, and in-depth explanations for solving several performance and scalability issues. You'll learn how to apply coding and infrastructure techniques to Drupal internals, application performance, databases, web

servers, and performance analysis. Covering Drupal versions 7 and 8, this book is the ideal reference for everything from site deployment to implementing specific technologies such as Varnish, memcache, or Solr. If you have a basic understanding of Drupal and the Linux-Apache-MySQL-PHP (LAMP) stack, you're ready to get started. Establish a performance baseline and define goals for improvement Optimize your website's code and front-end performance Get best and worst practices for customizing Drupal core functionality Apply infrastructure design techniques to launch or expand a site Use tools to configure, monitor, and optimize MySQL

performance Employ alternative storage and backend search options as your site grows Tune your web servers through httpd and PHP configuration Monitor services and perform load tests to catch problems before they become critical *PostgreSQL Replication* 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 Administration Cookbook - Third Edition](#) PostgreSQL 9 High Availability Cookbook

Improving database performance requires an equal mix of understanding theoretical concepts and working through hands-on examples. You'll find both here. Many of the examples given will be immediately useful for monitoring and improving your

PostgreSQL deployments, providing insight into hard-to-obtain information about your database. This book is aimed at intermediate to advanced database administrators using or planning to use PostgreSQL. Portions will also interest systems administrators looking to build or monitor a PostgreSQL installation, as well as developers interested in advanced database internals that impact application design.

PostgreSQL 10 High

Performance 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.

Mastering PostgreSQL 13 Packt Pub Limited
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.

Over 120 Recipes to Build High-performance and Fault-tolerant PostgreSQL Database Solutions
Packt Publishing Ltd
Over 90 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, replicate and make your database highly secure and available,* A step-by-step, recipe-based guide to help you tackle any problem in PostgreSQL administration with ease
Who This Book Is For
If you are an administrator who wants to leverage the useful PostgreSQL functionalities to create and manage databases efficiently, this is the book for you. This book assumes a basic working knowledge of PostgreSQL, and some previous experience in PostgreSQL administration is

required.
What you will learn* Implement PostgreSQL features for reliability and performance* Harness the power of the latest PostgreSQL 9.5 & 9.6 features* Manage PostgreSQL versions 9.5 & 9.6* Advanced technical tips for experienced users* Explore best practices for planning and designing live databases* Select and implement robust backup and recovery techniques* Concise and clear guidance on replication and high availability* Latest details on Logical Replication and Bi-Directional Replication
In Detail
PostgreSQL is an open-source database management tool used for handling large data sets (big data) and also as a JSON document

database. Starting with short and simple recipes to get you back up and running with an exploration of the ins and outs of your database, 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 - spanning 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 like 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 your PostgreSQL efficiently. DBAs of all levels will be catered for with recipes of varying difficulty, allowing the reader to administer PostgreSQL efficiently. Tagline: Over XXX recipes to help you administer your PostgreSQL database more efficiently

Transact-SQL

Cookbook Pragmatic Bookshelf

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.

Build and manage

high-performance database solutions using PostgreSQL 12 and 13 Apress

This book is for moderate to advanced PostgreSQL database professionals who wish to extend PostgreSQL, utilizing the most updated features of PostgreSQL 9.4. For a better understanding of this book, familiarity with writing SQL, a basic idea of query tuning, and some coding experience in your preferred language is expected. *PostgreSQL High Availability Cookbook - Second Edition* "O'Reilly Media, Inc." Data is getting bigger and more complex by the day, and so are your choices in handling it. Explore some of the most cutting-edge databases available - from a

traditional relational database to newer NoSQL approaches - and make informed decisions about challenging data storage problems. This is the only comprehensive guide to the world of NoSQL databases, with in-depth practical and conceptual introductions to seven different technologies: Redis, Neo4J, CouchDB, MongoDB, HBase, Postgres, and DynamoDB. This second edition includes a new chapter on DynamoDB and updated content for each chapter. While relational databases such as MySQL remain as relevant as ever, the alternative, NoSQL paradigm has opened up new horizons in performance and scalability and changed

the way we approach data-centric problems. This book presents the essential concepts behind each database alongside hands-on examples that make each technology come alive. With each database, tackle a real-world problem that highlights the concepts and features that make it shine. Along the way, explore five database models - relational, key/value, columnar, document, and graph - from the perspective of challenges faced by real applications. Learn how MongoDB and CouchDB are strikingly different, make your applications faster with Redis and more connected with Neo4J, build a cluster of HBase servers using cloud services such as Amazon's Elastic MapReduce, and more.

This new edition brings a brand new chapter on DynamoDB, updated code samples and exercises, and a more up-to-date account of each database's feature set. Whether you're a programmer building the next big thing, a data scientist seeking solutions to thorny problems, or a technology enthusiast venturing into new territory, you will find something to inspire you in this book. What You Need: You'll need a *nix shell (Mac OS or Linux preferred, Windows users will need Cygwin), Java 6 (or greater), and Ruby 1.8.7 (or greater). Each chapter will list the downloads required for that database.

**Simplifying
Database as a
Service on Cloud**

Platforms IGI Global
PostgreSQL has become the most advanced open source database on the market. This book adopts a step-by-step approach to meet almost every requirement you can think of while deploying PostgreSQL in production environments. You will not only learn how to design and manage your database but also discover how to administer and secure the database.

PostgreSQL

Administration

Cookbook, 9.5/9.6

Edition Microsoft Press

*The most updated PostgreSQL book on the market, covering version 8.0 *Highlights the most popular PostgreSQL APIs, including C, Perl, PHP, and Java *This is two

books in one; it simultaneously covers key relational database design principles, while teaching PostgreSQL *Over 120 recipes to build high-performance and fault-tolerant PostgreSQL database solutions* 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.

[Accelerate Your PostgreSQL System and Avoid the Common Pitfalls that Can Slow it Down](#) Packt Publishing Ltd

Enterprises require support and agility to work with big data repositories and relational databases. FUJITSU Enterprise Postgres is one of the leading relational database management systems (RDBMSs), and it is designed to work with large data sets. As more companies transform their infrastructures with hybrid cloud services, they require

environments that protect the safety of their data and business rules. At IBM®, we believe that your data is yours and yours alone. The insights and advantages that come from your data are yours to use in the pursuit of your business objectives. IBM is dedicated to this mission, and the IBM LinuxONE platform is designed around this core statement. IBM LinuxONE is a secure and scalable data serving and computing platform that is made for today's critical workloads. IBM LinuxONE is an all-Linux enterprise platform for open innovation that combines the best of Linux and open technology with the best of enterprise computing in one

system. Combining FUJITSU Enterprise Postgres, which is a robust Relational Database Management System (RDBMS) that provides strong query performance and high availability (HA), with IBM LinuxONE can transform your application and data portfolio by providing innovative data privacy, security, and cyber resiliency capabilities, which are all delivered with minimal downtime. This IBM Redbooks® publication describes data serving with FUJITSU Enterprise Postgres 12 that is deployed on IBM LinuxONE, which provides the scalability, business-critical availability, and security that your enterprise requires. This publication is

useful to IT architects, system administrators, and others who are interested in understanding the significance of using FUJITSU Enterprise Postgres on IBM LinuxONE. This publication is written for those who are familiar with IBM LinuxONE and have some experience in the use of PostgreSQL.

PostgreSQL 9 Administration Cookbook Lite: Configuration, Monitoring and Maintenance
CreateSpace

This book will get you up and running with the working of relational databases, data modeling, data manipulation, and more. You will learn to build efficient relational database solutions from scratch using the

latest features of PostgreSQL 12 and 13. You'll also be able to identify bottlenecks to enhance the performance of database applications.

PostgreSQL Server Programming - Second Edition Packt

Publishing Ltd
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.

Including Container-Based Deployment with Docker and Kubernetes Packt

Publishing Ltd
 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 handle 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.

PostgreSQL 11 Administration

Cookbook "O'Reilly Media, Inc."

This practical guide provides over 100 self-contained recipes to help you creatively solve issues you may encounter in your AWS cloud endeavors. If you're comfortable with rudimentary scripting and general

cloud concepts, this cookbook will give you what you need to both address foundational tasks and create high-level capabilities. AWS Cookbook provides real-world examples that incorporate best practices. Each recipe includes code that you can safely execute in a sandbox AWS account to ensure that it works. From there, you can customize the code to help construct your application or fix your specific existing problem. Recipes also include a discussion that explains the approach and provides context. This cookbook takes you beyond theory, providing the nuts and bolts you need to successfully build on AWS. You'll find recipes for: Organizing multiple accounts for enterprise

deployments Locking
down S3 buckets
Analyzing IAM roles
Autoscaling a
containerized service
Summarizing news
articles Standing up a
virtual call center
Creating a chatbot that
can pull answers from
a knowledge repository
Automating security
group rule monitoring,
looking for rogue traffic
flows And more.

*Over 100 recipes to
design a highly
available server with
the advanced features
of PostgreSQL 12, 3rd
Edition "O'Reilly Media,
Inc."*

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.