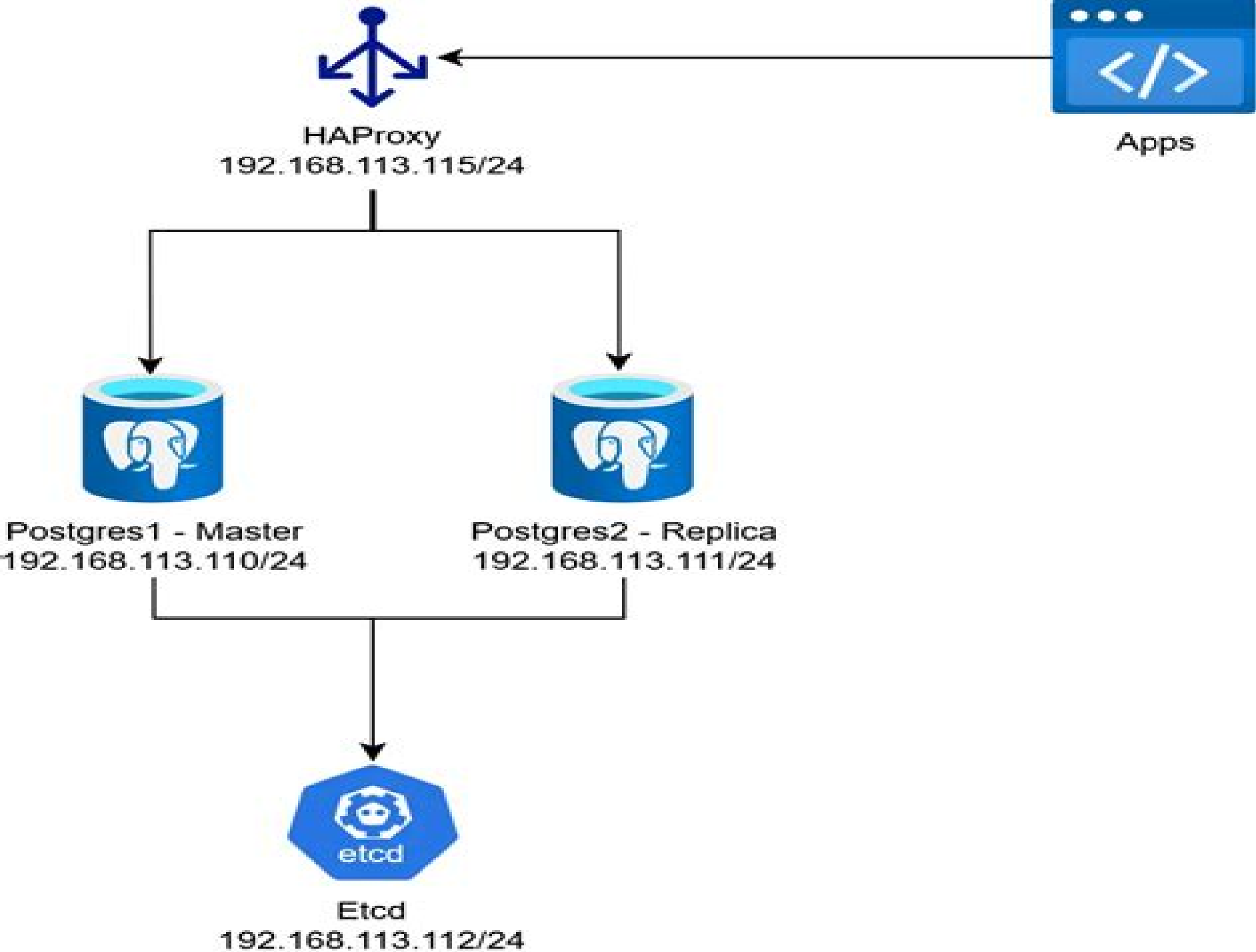




High Availability With Postgresql And Pacemaker

Gerard Blokdijk



High Availability With Postgresql And Pacemaker:

PostgreSQL 12 High Availability Cookbook Shaun Thomas, 2020-02-25 A comprehensive guide to understanding key techniques for architecture and hardware planning monitoring replication backups and decoupling Key Features Newly updated edition covering the latest PostgreSQL 12 features with hands on industry driven recipes Create a PostgreSQL cluster that stays online even when disaster strikes Learn how to avoid costly downtime and data loss that can ruin your business Book Description Databases are nothing without the data they store In the event of an outage or technical catastrophe immediate recovery is essential This updated edition ensures that you will learn the important concepts related to node architecture design as well as techniques such as using repmgr for failover automation From cluster layout and hardware selection to software stacks and horizontal scalability this PostgreSQL cookbook will help you build a PostgreSQL cluster that will survive crashes resist data corruption and grow smoothly with customer demand You ll start by understanding how to plan a PostgreSQL database architecture that is resistant to outages and scalable as it is the scaffolding on which everything rests With the bedrock established you ll cover the topics that PostgreSQL database administrators need to know to manage a highly available cluster This includes configuration troubleshooting monitoring and alerting backups through proxies failover automation and other considerations that are essential for a healthy PostgreSQL cluster Later you ll learn to use multi master replication to maximize server availability Later chapters will guide you through managing major version upgrades without downtime By the end of this book you ll have learned how to build an efficient and adaptive PostgreSQL 12 database cluster What you will learn Understand how to protect data with PostgreSQL replication tools Focus on hardware planning to ensure that your database runs efficiently Reduce database resource contention with connection pooling Monitor and visualize cluster activity with Nagios and the TIG Telegraf InfluxDB Grafana stack Construct a robust software stack that can detect and avert outages Use multi master to achieve an enduring PostgreSQL cluster Who this book is for This book is for Postgres administrators and developers who are looking to build and maintain a highly reliable PostgreSQL cluster Although knowledge of the new features of PostgreSQL 12 is not required a basic understanding of PostgreSQL administration is expected *PostgreSQL High Availability Cookbook* Shaun M. Thomas, 2017-02-08 Master over 100 recipes to design and implement a highly available server with the advanced features of PostgreSQL About This Book Create a PostgreSQL cluster that stays online even when disaster strikes Avoid costly downtime and data loss that can ruin your business Updated to include the newest features introduced in PostgreSQL 9.6 with hands on industry driven recipes Who This Book Is For If you are a PostgreSQL DBA working on Linux systems who want a database that never gives up this book is for you If you ve ever experienced a database outage restored from a backup spent hours trying to repair a malfunctioning cluster or simply want to guarantee system stability this book is definitely for you What You Will Learn Protect your data with PostgreSQL replication and management tools such as Slony Bucardo pglogical and WAL E Hardware

planning to help your database run efficiently Prepare for catastrophes and prevent them before they happen Reduce database resource contention with connection pooling using pgpool and PgBouncer Automate monitoring and alerts to visualize cluster activity using Nagios and collected Construct a robust software stack that can detect and fix outages Learn simple PostgreSQL High Availability with Patroni or dive into the full power of Pacemaker In Detail Databases are nothing without the data they store In the event of a failure catastrophic or otherwise immediate recovery is essential By carefully combining multiple servers it s even possible to hide the fact a failure occurred at all From hardware selection to software stacks and horizontal scalability this book will help you build a versatile PostgreSQL cluster that will survive crashes resist data corruption and grow smoothly with customer demand It all begins with hardware selection for the skeleton of an efficient PostgreSQL database cluster Then it s on to preventing downtime as well as troubleshooting some real life problems that administrators commonly face Next we add database monitoring to the stack using collectd Nagios and Graphite And no stack is complete without replication using multiple internal and external tools including the newly released pglogical extension Pacemaker or Raft consensus tools are the final piece to grant the cluster the ability to heal itself We even round off by tackling the complex problem of data scalability This book exploits many new features introduced in PostgreSQL 9.6 to make the database more efficient and adaptive and most importantly keep it running Style and approach This book contains practical recipes that will help the reader solve real world problems related to high availability in PostgreSQL Every recipe is explained in detail with relevant explanations tips and tricks provided for quicker and easier understanding

PostgreSQL 9 High Availability Cookbook Shaun M. Thomas, 2014-07-17 A comprehensive series of dependable recipes to design build and implement a PostgreSQL server architecture free of common pitfalls that can operate for years to come Each chapter is packed with instructions and examples to simplify even highly complex database operations If you are a PostgreSQL DBA working on Linux systems who want a database that never gives up this book is for you If you ve ever experienced a database outage restored from a backup spent hours trying to repair a malfunctioning cluster or simply want to guarantee system stability this book is definitely for you

PostgreSQL Replication Hans-Jürgen Schöning, 2015-07-28 PostgreSQL offers a comprehensive set of replication related features Unleashing the power of PostgreSQL provides you with countless opportunities and a competitive advantage over other database systems This book will guide you through the most important concepts of PostgreSQL replication It contains all the information you need to design and operate replicated setups Beginning by giving you an understanding of replication concepts the PostgreSQL transaction log and Point in time Recovery we gradually move on to setting up asynchronous and synchronous replication Next up you will learn to monitor a PostgreSQL cluster setup deal with monitoring tools and then move on to understanding Linux High Availability Further we explore widely used tools such as Slony SkyTools Postgres XC and walbouncer and set up PL Proxy Finally you ll get acquainted with the new technology of BDR which allows bidirectional replication in PostgreSQL

[Mastering Zabbix](#)

Andrea Dalle Vacche,2015-09-15 Learn how to monitor your large IT environments using Zabbix with this one stop comprehensive guide to the Zabbix world About This Book Create a tailor made monitoring solution based on your specific needs Learn advanced techniques of Zabbix to monitor networks performances and other critical features in large environments Integrate customize and extend your monitoring solutions with external components and software Who This Book Is For This book is intended for system administrators and IT architects who need to better integrate their Zabbix installation with their surrounding environment A basic working knowledge of Zabbix and Linux is assumed so that the book can focus on how to use every component to its full advantage It will also be helpful to be familiar with programming concepts and languages but if not all the content in the book is thorough and well documented What You Will Learn Efficiently collect data from a large variety of monitoring objects Organize your data in graphs charts maps and slide shows Build intelligent triggers and alarms to monitor your network proactively Write your own custom probes and monitoring scripts to extend Zabbix Configure Zabbix and its database to be high available and fault tolerant Automate repetitive procedures using Zabbix s API Integrate Zabbix with external systems Understand the protocol and how to interact with it by writing your own custom agent In Detail Nowadays monitoring systems play a crucial role in any IT environment They are extensively used to not only measure your system s performance but also to forecast capacity issues This is where Zabbix one of the most popular monitoring solutions for networks and applications comes into the picture With an efficient monitoring system in place you ll be able to foresee when your infrastructure runs under capacity and react accordingly Due to the critical role a monitoring system plays it is fundamental to implement it in the best way from its initial setup This avoids misleading confusing or even worse false alarms which can disrupt an efficient and healthy IT department This new edition will provide you with all the knowledge you need to make strategic and practical decisions about the Zabbix monitoring system The setup you ll do with this book will fit your environment and monitoring needs like a glove You will be guided through the initial steps of choosing the correct size and configuration for your system to what to monitor and how to implement your own custom monitoring component Exporting and integrating your data with other systems is also covered By the end of this book you will have a tailor made and well configured monitoring system and will understand with absolute clarity how crucial it is to your IT environment Style and approach This book is an easy to follow step by step guide to monitoring network and performance in large environments with Zabbix It is designed for real world Zabbix administrators and is comprised of a perfect mix of theoretical explanations and practical applications making it your perfect companion

Using Pacemaker to Create Highly Available Linux Solutions on IBM Power Tim Simon,Dishant

Doriwala,Hemantha Gunasinghe,Munshi Hafizul Haque,Santhosh Joshi,Adhish Kapoor,Pravin Kedia,Youssef Largou,Henry Vo,IBM Redbooks,2024-10-02 High availability and business continuity continue to be focus themes for businesses as they work hard to provide infrastructure components to support the always available requirements for their critical business

functions In addition many enterprises are starting to build critical business functions on Linux servers to take advantage of the openness and portability of those applications across both on premises and cloud based infrastructures These combined requirements lead to the need for a solution that allows enterprises to support highly available Linux environments for critical business applications This IBM Redbooks publication will help you install tailor and configure a highly available cluster of IBM Power servers utilizing Pacemaker which is an open source cluster manager that supports Linux environments We describe basic concepts required for planning and designing an infrastructure to meet the requirements for high availability and business continuity and we compare and contrast different options and tools While the publication is mostly targeted at skilled professionals who are designing and installing highly available Linux environments it starts with a basic understanding of the technology to help less technical readers understand the concepts

PostgreSQL Skills Development on Cloud Venkateswara Vadlamani, 2024-12-05 This book provides a comprehensive approach to manage PostgreSQL cluster databases on Amazon Web Services and Azure Web Services on the cloud as well as in Docker and container environments on a Red Hat operating system Furthermore detailed references for managing PostgreSQL on both Windows and Mac are provided This book condenses all the fundamental and essential concepts you need to manage a PostgreSQL cluster into a one stop guide that is perfect for newcomers to Postgres database administration Each chapter of the book provides historical context and documents version changes of the PostgreSQL cluster elucidates practical how to methods and includes illustrations and key word definitions practices for application a summary of key learnings and questions to reinforce understanding The book also outlines a clear study objective with a weekly learning schedule and hundreds of practice exercises along with questions and answers With its comprehensive and practical approach this book will help you gain the confidence to manage all aspects of a PostgreSQL cluster in critical production environments so you can better support your organization s database infrastructure on the cloud and in containers

What You Will Learn

- Install and configure Postgres clusters on the cloud and in containers
- monitor database logs
- start and stop databases
- troubleshoot tune performance
- backup and recover and integrate with Amazon S3 and Azure Data Blob
- Manage Postgres databases on Amazon Web Services and Azure Web Services on the cloud as well as in Docker and container environments on a Red Hat operating system
- Access sample references to scripting solutions and database management tools for working with Postgres Redshift based on Postgres 8.2 and Docker
- Create Amazon Machine Images AMI and Azure Images for managing a fleet of Postgres clusters on the cloud
- Reinforce knowledge with a weekly learning schedule and hundreds of practice exercises along with questions and answers

Progress from simple concepts such as how to choose the correct instance type to creating complex machine images Gain access to an Amazon AMI with a DBA admin tool allowing you to learn Postgres Redshift and Docker in a cloud environment Refer to a comprehensive summary of documentations of Postgres Amazon Web services Azure Web services and Red Hat Linux for managing all aspects of Postgres cluster management on the cloud

Who This Book Is For

Newcomers to PostgreSQL database administration and cross platform support DBAs looking to master PostgreSQL on the cloud

Foreman Server Lifecycle Management William Smith, 2025-09-26 Foreman Server Lifecycle Management Foreman Server Lifecycle Management is the definitive guide for IT professionals seeking to master the deployment operation and optimization of Foreman in modern data centers This comprehensive resource begins with fundamental concepts tracing Foreman s evolution and its core architecture including smart proxies integrated services and the robust plugin ecosystem Readers gain clarity on how Foreman seamlessly connects with major configuration management engines like Puppet Ansible Chef and SaltStack as well as strategies to achieve performance and scalability across diverse deployment scenarios from on premises to multi cloud environments Each chapter delivers a deep practical exploration into the full server and infrastructure lifecycle Topics encompass every stage meticulous pre installation planning and hardening scalable and automated provisioning across bare metal virtual and cloud infrastructures and leveraging advanced orchestration and customization techniques Through lifecycle driven content and patch management including Katello and Pulp integrations the book illuminates strategies for risk averse patching software version control subscription and licensing management and compliance auditing Further chapters focus on robust monitoring granular auditing and operational analytics to support proactive management and self healing infrastructure Security and extensibility are foundational themes throughout The book details best practices for identity integration role based access control API and automation security and infrastructure hardening in alignment with leading frameworks Advanced sections demonstrate how to extend Foreman with custom plugins API driven automation webhooks and UI enhancements empowering organizations to model demanding business workflows Concluding with emerging trends such as hybrid multi cloud management GitOps disaster recovery and AI driven automation this guide positions Foreman administrators and architects at the forefront of infrastructure innovation and operational reliability

MODERN SQL MANUAL Diego Rodrigues, 2024-11-08 Explore the world of Modern SQL with Modern SQL Manual From Basics to Advanced authored by Diego Rodrigues a comprehensive and up to date guide that takes you from foundational concepts to advanced SQL practices Perfect for developers data analysts students and managers this manual covers everything you need to know to work effectively with relational databases With over 20 chapters rich in theory practical examples and projects it delves into topics from creating and optimizing queries to using SQL in Big Data and data analysis Renowned author Diego Rodrigues with extensive experience in technology provides a clear and accessible approach helping readers master SQL in depth Take the opportunity to enhance your skills and boost your career with this essential resource

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to master Zabbix with technical depth applying scalable monitoring solutions in hybrid multi cloud and highly regulated
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operations with support for leading market tools You will learn how to structure the complete Zabbix architecture configure
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Ansible Terraform shell scripting and CI CD Multi cloud monitoring AWS Google Cloud Azure and Oracle Cloud Dynamic

dashboards widgets topology maps and executive reports Smart alerts automated responses ITSM SIEM SAML RBAC and hardening Master Zabbix as a reference solution for modern infrastructure unifying visibility security and automation in large scale projects with corporate grade observability zabbix grafana prometheus snmp terraform ansible google cloud azure aws cloud monitoring [PostgreSQL High Availability Cookbook - Second Edition](#) Shaun M. Thomas,2017-02-06 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 [Concourse CI Essentials](#) William Smith,2025-08-20 Concourse CI Essentials Concourse CI Essentials is the definitive guide for engineers architects and DevOps professionals seeking to master modern Continuous Integration and Continuous Delivery CI/CD with Concourse CI Starting with an exploration of the evolution of CI/CD the book provides a robust foundation in pipeline driven

automation emphasizing reproducibility auditability and the design philosophies that distinguish Concourse from other tools like Jenkins GitLab CI and Tekton Through real world adoption patterns and critical comparisons readers gain a deep understanding of where Concourse fits in the broader CI CD ecosystem Delving into the technical heart of Concourse the book unpacks the platform s core components including ATC TSA and Worker architecture and explains how containerization extensibility and robust credential management enable secure and scalable software delivery Deployment strategies are thoroughly covered from single node setups to enterprise scale high availability clusters running on Kubernetes and cloud platforms Dedicated chapters on pipeline authoring resource integrations and task optimization provide practical hands on guidance enabling teams to structure monitor and maintain sophisticated pipelines with confidence and efficiency Security compliance monitoring and resilience are addressed in depth with actionable strategies for secrets management audit logging incident response and disaster recovery The book closes with insightful case studies lessons from large scale deployments and a look ahead at the evolving Concourse ecosystem including its potential in AI and machine learning workflows Comprehensive yet accessible Concourse CI Essentials is an invaluable resource for building reliable scalable and future proof CI CD systems

Sourcegraph Essentials William Smith,2025-07-12 Sourcegraph Essentials Sourcegraph Essentials is a definitive guide for technical leaders engineers and enterprise architects seeking to unlock the full potential of code search and intelligence in modern software development Spanning historical context architectural foundations and cutting edge deployment strategies this book offers readers a comprehensive roadmap to mastering Sourcegraph within contemporary development environments Each chapter demystifies key concepts from advanced search techniques and code intelligence infrastructure to the intricacies of integrating Sourcegraph with leading version control systems CI CD pipelines and developer tools With a focus on real world applicability the book provides deep dives into enterprise scale deployment models observability and disaster recovery best practices and robust security frameworks that ensure compliance with industry standards like SOC2 GDPR and HIPAA Detailed discussions of extensibility showcase how organizations can tailor Sourcegraph to unique workflows leveraging custom extensions UI theming and automation to drive organizational productivity knowledge sharing and security Case studies and actionable patterns make this book an essential reference for technical teams navigating complex codebases and diverse infrastructure Rounding out its coverage Sourcegraph Essentials explores advanced troubleshooting continuous improvement strategies usage analytics and future trends in code intelligence It highlights both the operational and human aspects of Sourcegraph adoption from supporting large user bases to fostering a vibrant open source community Whether aiming to optimize search performance ensure high availability or prepare for the evolving landscape of developer experience readers will find in this book a clear authoritative and practical guide to mastering Sourcegraph at any scale

Expert Level Prompts - 7,800 Expert-Level Prompts for ChatGPT, MidJourney & Professional AI Systems Plug and Play Prompts,2025-10-27 You ve Mastered the Basics You ve Advanced Your Skills

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Practical TimescaleDB Solutions Richard Johnson, 2025-06-20 *Practical TimescaleDB Solutions* Practical TimescaleDB Solutions is a comprehensive guide designed for architects engineers and data practitioners aiming to build robust scalable and efficient time series database solutions with TimescaleDB Beginning with a deep dive into the fundamentals of time series data and the powerful synergies between TimescaleDB and PostgreSQL this book walks readers

through foundational architecture concepts deployment best practices and the vibrant TimescaleDB ecosystem Real world case studies from sectors like IoT observability and finance illuminate how modern organizations are leveraging TimescaleDB to manage ever increasing volumes of temporal data The heart of this book is its hands on solutions oriented approach to advanced schema design high velocity data ingestion query optimization and analytical patterns Readers gain actionable insights into designing performant hypertable schemas optimizing for high cardinality workloads and handling schema evolution in production Ingest strategies are detailed with practical examples for both bulk historical loads and real time streaming alongside advanced guidance for deduplication conflict resolution and ingest monitoring Extensive coverage of analytical techniques ranging from continuous aggregates and downsampling to third party BI tool integrations equips readers to extract timely actionable insights from their time series data Beyond data modeling and analytics Practical TimescaleDB Solutions explores the full operational landscape distributed scaling storage lifecycle management security and compliance automation and monitoring From architecting multi node deployments in the cloud and managing hot cold data lifecycle to implementing fine grained access control encryption and compliance with industry regulations every chapter provides pragmatic solutions reinforced with platform specific best practices Whether migrating from legacy systems or fine tuning for high availability this book is an indispensable resource for mastering TimescaleDB in demanding production ready environments

OpenStack Keystone: Architecture and Implementation Guide William Smith, 2025-07-24 OpenStack Keystone Architecture and Implementation Guide OpenStack Keystone Architecture and Implementation Guide is the definitive reference for architects operators and developers who seek a deep understanding of Keystone the identity authentication and access management service underpinning OpenStack clouds Beginning with Keystone s fundamental concepts the guide meticulously unpacks projects domains users and roles before contextualizing Keystone s pivotal integration with other OpenStack components and enterprise identity providers Readers are introduced to both native and federated protocols advanced authentication models and the API interactions essential to multi tenant hybrid and large scale deployments Delving into Keystone s internal architecture the book provides a comprehensive technical roadmap from modular service design and plugin development to fine grained policy enforcement secure token management and robust audit mechanisms The guide offers actionable strategies for deployment across bare metal virtual and containerized environments supplying pragmatic advice on configuration management seamless upgrades high availability disaster recovery and advanced diagnostics Specialized chapters address customization extensibility and real world integration with external IAM systems ensuring that Keystone can be tailored to meet the stringent security compliance and operational demands of any cloud environment Advanced topics including federated identity scalability strategies security posture multi region reliability and emerging practices such as zero trust architectures and chaos engineering are covered with clarity and depth Drawing on lessons from production scale case studies and involvement with the OpenStack community the guide not

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

PostgreSQL 10 High Performance Enrico Pirozzi, 2018-04-30 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

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