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People use lots of water for drinking, cooking and washing, but significantly more for producing things such as food, paper and cotton clothes. The water footprint is an indicator of water use that looks at both direct and indirect water use of a consumer or producer. Indirect use refers to the 'virtual water' embedded in tradable goods and commodities, such as cereals, sugar or cotton. The water footprint of an individual, community or business is defined as the total volume of freshwater that is used to produce the goods and services consumed by the individual or community or produced by the business. This book offers a complete and up-to-date overview of the global standard on water footprint assessment as developed by the Water Footprint Network. More specifically it: o Provides a comprehensive set of methods for water footprint assessment o Shows how water footprints can be calculated for individual processes and products, as well as for consumers, nations and businesses o Contains detailed worked examples of how to calculate green, blue and grey water footprints o Describes how to assess the sustainability of the aggregated water footprint within a river basin or the water footprint of a specific product o Includes an extensive library of possible measures that can contribute to water footprint reduction
Into Thin Air "O'Reilly Media, Inc."
Annotation Oracle RAC or Real Application Clusters is a grid computing solution that allows multiple nodes (servers) in a clustered system to mount and open a single database that resides on shared disk storage. Should a single system (node) fail, the database service will still be available on the remaining nodes. Oracle RAC is an integral part of the Oracle database setup. You have one database with multiple users accessing it, in real time. This book will enable DBAs to get their finger on the pulse of the Oracle 11g RAC environment quickly and easily. This book will cover all areas of the Oracle RAC environment and is indispensable if you are an Oracle DBA who is charged with configuring and implementing Oracle11g R1, with bonus R2 information included. This book presents a complete method for the configuration, installation, and design of Oracle 11g RAC, ultimately enabling rapid administration of Oracle 11g RAC environments. This practical handbook documents how to administer a complex Oracle 11g RAC environment. Packed with real world examples, expert tips and troubleshooting advice, the book begins by introducing the concept of Oracle RAC and High Availability. It then dives deep into the world of RAC configuration, installation and design, enabling you to support complex RAC environments for real world deployments. Chapters cover Oracle RAC and High Availability, Oracle 11g RAC Architecture, Oracle 11g RAC Installation, Automatic Storage Management, Troubleshooting, Workload Management and much more. By following the practical examples in this book, you will learn every concept of the RAC environment and how to successfully support complex Oracle 11g R1 and R2 RAC environments for various deployments within real world situations. This book is the updated release of our previous Oracle 11g R1/R2 Real Application Clusters Handbook. If you already own a copy of that Handbook, there is no need to upgrade to this book.
Building Serverless Applications with Google Cloud Run IBM Redbooks
#1 NATIONAL BESTSELLER • The epic account of the storm on the summit of Mt. Everest that claimed five lives and left countless more—including Krakauer's—in guilt-ridden disarray. "A harrowing tale of the perils of high-altitude climbing, a story of bad luck and worse judgment and of heartbreaking heroism." —PEOPLE A bank of clouds was assembling on the not-so-distant horizon, but journalist-mountaineer Jon Krakauer, standing on the summit of Mt. Everest, saw nothing that "suggested that a murderous storm was bearing down." He was wrong. By writing Into Thin Air, Krakauer may have hoped to exorcise some of his own demons and lay to rest some of the painful questions that still surround the event. He takes great pains to provide a balanced picture of the people and events he witnessed and gives due credit to the tireless and dedicated Sherpas. He also avoids blasting easy targets such as Sandy Pittman, the wealthy socialite who brought an espresso maker along on the expedition. Krakauer's highly personal inquiry into the catastrophe provides a great deal of insight into what went wrong. But for Krakauer himself, further interviews and investigations only lead him to the conclusion that his perceived failures were directly responsible for a fellow climber's death. Clearly, Krakauer remains haunted by the disaster, and although he relates a number of incidents in which he acted selflessly and even heroically, he seems unable to view those instances objectively. In the end, despite his evenhanded and even generous assessment of others' actions, he reserves a full

measure of vitriol for himself. This updated trade paperback edition of Into Thin Air includes an extensive new postscript that sheds fascinating light on the acrimonious debate that flared between Krakauer and Everest guide Anatoli Boukreev in the wake of the tragedy. "I have no doubt that Boukreev's intentions were good on summit day," writes Krakauer in the postscript, dated August 1999. "What disturbs me, though, was Boukreev's refusal to acknowledge the possibility that he made even a single poor decision. Never did he indicate that perhaps it wasn't the best choice to climb without gas or go down ahead of his clients." As usual, Krakauer supports his points with dogged research and a good dose of humility. But rather than continue the heated discourse that has raged since Into Thin Air's denouncement of guide Boukreev, Krakauer's tone is conciliatory; he points most of his criticism at G. Weston De Walt, who coauthored The Climb, Boukreev's version of events. And in a touching conclusion, Krakauer recounts his last conversation with the late Boukreev, in which the two weathered climbers agreed to disagree about certain points. Krakauer had great hopes to patch things up with Boukreev, but the Russian later died in an avalanche on another Himalayan peak, Annapurna I. In 1999, Krakauer received an Academy Award in Literature from the American Academy of Arts and Letters--a prestigious prize intended "to honor writers of exceptional accomplishment." According to the Academy's citation, "Krakauer combines the tenacity and courage of the finest tradition of investigative journalism with the stylish subtlety and profound insight of the born writer. His account of an ascent of Mount Everest has led to a general reevaluation of climbing and of the commercialization of what was once a romantic, solitary sport; while his account of the life and death of Christopher McCandless, who died of starvation after challenging the Alaskan wilderness, delves even more deeply and disturbingly into the fascination of nature and the devastating effects of its lure on a young and curious mind."

SysML Distilled Packt Publishing Ltd

Discover how you can migrate a traditional on-premise SQL server database to a cloud-based solution with Microsoft Azure. Built with database administrators in mind, this book emulates different scenarios you might come across while working with large, complex SQL database migrations and provides solutions for effectively managing the migrated databases. Key Features Implement backup, restore, and recovery of Azure SQL databases Create shards and elastic pools to scale Azure SQL databases Automate common management tasks with PowerShell Implement over 40 practical activities and exercises across 24 topics to reinforce your learning Book Description As the cloud version of SQL Server, Azure SQL Database differs in key ways when it comes to management, maintenance, and administration. It’s important to know how to administer SQL Database to fully benefit from all of the features and functionality that it provides. This book addresses important aspects of an Azure SQL Database instance such as migration, backup restorations, pricing policies, security, scalability, monitoring, performance optimization, high availability, and disaster recovery. It is a complete guide for database administrators, and ideal for those who are planning to migrate from on premise SQL Server database to an Azure SQL Server database. What you will learn Learn how to provision a new database or migrate an existing on-premise solution Understand how to backup, restore, secure, and scale your own Azure SQL Database Optimize the performance by monitoring and tuning your cloud-based SQL instance Implement high availability and disaster recovery procedures with SQL Database Develop a roadmap for your own scalable cloud solution with Azure SQL Database Who this book is for This book is ideal for database administrators, database developers, or application developers who are interested in developing or migrating existing applications with Azure SQL Database. Prior experience of working with an on-premise SQL Server deployment and brief knowledge of PowerShell and C# are recommended prerequisites.

Programming Google App Engine Red Gate Software

This book constitutes the revised selected papers of the Second International Conference on Information Systems Security and Privacy, ICISSP 2016, held in Rome, Italy, in February 2016. The 9 full papers presented together with two invited papers were carefully reviewed and selected from a total of 91 submissions. They are dealing with topics such as data and software security; privacy and confidentiality; mobile systems security; biometric authentication; privacy in social media.

SQL Tuning IBM Redbooks

Although comprehensive knowledge of cyber-physical systems (CPS) is becoming a must for researchers, practitioners, system designers, policy makers, system managers, and administrators, there has been a need for a comprehensive and up-to-date source of research and information on cyber-physical systems. This book fills that need.Cyber-Physical Syst

Professional Azure SQL Database Administration Anchor

As one of today's cloud computing services, Google App Engine does more than provide access to a large system of servers. It also offers you a simple model for building applications that scale automatically to accommodate millions of users. With Programming Google App Engine, you'll get expert practical guidance that will help you make the best use of this powerful platform. Google engineer Dan Sanderson shows you how to design your applications for scalability, including ways to perform common development tasks using App Engine's APIs and scalable services. You'll learn about App Engine's application server architecture, runtime environments, and scalable datastore for distributing data, as well as techniques for optimizing your application. App Engine offers nearly unlimited computing power, and this book provides clear and concise instructions for getting the most from it right from the source. Discover the differences between traditional web development and development with App Engine Learn the details of App Engine's Python and Java runtime environments Understand how App Engine handles web requests and executes application code Learn how to use App Engine's scalable datastore, including queries and indexes, transactions, and data modeling Use task queues to parallelize and distribute work across the infrastructure Deploy and manage applications with ease

Node Cookbook Packt Publishing Ltd

Make the most of GCP’s offerings to manage your data center workload and optimize deployments Key FeaturesDiscover new techniques to administer, manage, and deploy applications on GCPUnderstand effective solutions for storing, retrieving, and deploying your container imagesExplore various offerings of GCP for operations and security Book Description On-premise data centers are costly to manage. If you need a data center but don’t want to deal with a physical one, Google Cloud Platform (GCP) is the solution. With GCP, you can build, test, and deploy applications on Google’s infrastructure. Google Cloud Platform Administration begins with GCP fundamentals, with the help of which you will deploy your first app and gain an understanding of Google Cloud architecture and services. Furthermore, you will learn how to manage Compute, networking, and storage resources. As you make your way through the book, you will learn how to track and manage GCP’s usage, monitoring, and billing access control. You will also be able to manage your GCP's access and permissions. In the concluding chapters, you will explore a list of different developer tools for managing and interacting with the GCP

platform. By the end of this book, you will have learned how to effectively deploy workloads on GCP. What you will learnUnderstand all GCP Compute componentsDeploy and manage multiple GCP storage optionsManage and utilize the networking resources offered by GCPExplore the functionalities and features of the GCP Container Understand the workings of GCP operations such as monitoring and error reporting Discover an immune GCP using its identity and security optionsWho this book is for Google Cloud Platform Administration is for administrators, cloud architects, and engineers who want to leverage the upcoming Google Cloud Platform. Some basic understanding of cloud computing will be useful.

Juniper MX Series "O'Reilly Media, Inc."

This complete field guide, authorized by Juniper Networks, is the perfect hands-on reference for deploying, configuring, and operating Juniper's SRX Series networking device. Authors Brad Woodberg and Rob Cameron provide field-tested best practices for getting the most out of SRX deployments, based on their extensive field experience. While their earlier book, Junos Security, covered the SRX platform, this book focuses on the SRX Series devices themselves. You'll learn how to use SRX gateways to address an array of network requirements—including IP routing, intrusion detection, attack mitigation, unified threat management, and WAN acceleration. Along with case studies and troubleshooting tips, each chapter provides study questions and lots of useful illustrations. Explore SRX components, platforms, and various deployment scenarios Learn best practices for configuring SRX's core networking features Leverage SRX system services to attain the best operational state Deploy SRX in transparent mode to act as a Layer 2 bridge Configure, troubleshoot, and deploy SRX in a highly available manner Design and configure an effective security policy in your network Implement and configure network address translation (NAT) types Provide security against deep threats with AppSecure, intrusion protection services, and unified threat management tools

Optimizing Oracle Performance Pearson Education

SysML Distilled is a go-to reference for everyone who wants to start creating accurate and useful system models with SysML. Drawing on his pioneering experience creating models for Lockheed Martin and NASA, Lenny Delligatti illuminates SysML's core components, and shows how to use them even under tight deadlines and other constraints. The reader needn't know all of SysML to create effective models: SysML Distilled quickly teaches what does need to be known, and helps deepen the reader's knowledge incrementally as the need arises.

Current Law IBM Redbooks

Hailed as a "must-have textbook" (CHOICE, January 2010), the first edition of Game Engine Architecture provided readers with a complete guide to the theory and practice of game engine software development. Updating the content to match today's landscape of game engine architecture, this second edition continues to thoroughly cover the major components that make up a typical commercial game engine. New to the Second Edition Information on new topics, including the latest variant of the C++ programming language, C++11, and the architecture of the eighth generation of gaming consoles, the Xbox One and PlayStation 4 New chapter on audio technology covering the fundamentals of the physics, mathematics, and technology that go into creating an AAA game audio engine Updated sections on multicore programming, pipelined CPU architecture and optimization, localization, pseudovectors and Grassman algebra, dual quaternions, SIMD vector math, memory alignment, and anti-aliasing Insight into the making of Naughty Dog's latest hit, The Last of Us The book presents the theory underlying various subsystems that comprise a commercial game engine as well as the data structures, algorithms, and software interfaces that are typically used to implement them. It primarily focuses on the engine itself, including a host of low-level foundation systems, the rendering engine, the collision system, the physics simulation, character animation, and audio. An in-depth discussion on the "gameplay foundation layer" delves into the game's object model, world editor, event system, and scripting system. The text also touches on some aspects of gameplay programming, including player mechanics, cameras, and AI. An awareness-building tool and a jumping-off point for further learning, Game Engine Architecture, Second Edition gives readers a solid understanding of both the theory and common practices employed within each of the engineering disciplines covered. The book will help readers on their journey through this fascinating and multifaceted field.

IBM FileNet Content Manager Implementation Best Practices and Recommendations "O'Reilly Media, Inc."

Learn how to build a real-world serverless application in the cloud that's reliable, secure, maintainable, and scalable. If you have experience building web applications on traditional infrastructure, this hands-on guide shows you how to get started with Cloud Run, a container-based serverless product on Google Cloud. Through the course of this book, you'll learn how to deploy several example applications that highlight different parts of the serverless stack on Google Cloud. Combining practical examples with fundamentals, this book will appeal to developers who are early in their learning journey as well as experienced practitioners. Build a serverless application with Google Cloud Run Learn approaches for building containers with (and without) Docker Explore Google Cloud's managed relational database: Cloud SQL Use HTTP sessions to make every user's experience unique Explore identity and access management (IAM) on Cloud Run Provision Google Cloud resources using Terraform Learn how to handle background task scheduling on Cloud Run Move your service from Cloud Run to Knative Serving with little effort

Recent Advances in the Message Passing Interface "O'Reilly Media, Inc."

Build your expertise in the BPF virtual machine in the Linux kernel with this practical guide for systems engineers. You'll not only dive into the BPF program lifecycle but also learn to write applications that observe and modify the kernel's behavior; inject code to monitor, trace, and securely observe events in the kernel; and more. Authors David Calavera and Lorenzo Fontana help you harness the power of BPF to make any computing system more observable. Familiarize yourself with the essential concepts you'll use on a day-to-day basis and augment your knowledge about performance optimization, networking, and security. Then see how it all comes together with code examples in C, Go, and Python. Write applications that use BPF to observe and modify the Linux kernel's behavior on demand Inject code to monitor, trace, and observe events in the kernel in a secure way—no need to recompile the kernel or reboot the system Explore code examples in C, Go, and Python Gain a more thorough understanding of the BPF program lifecycle

MSDN Magazine CRC Press

Dramatic forces of change continue to sweep the financial services industry. The age of the empowered customer is here and are changing the way financial products are delivered, sold, and serviced, which are making relationships more complex than ever. The explosion of data and intense competition, which is combined with slow or inconsistent economic conditions, makes it imperative for financial institutions to find new and cost effective ways to increase market share, renew customer trust, and drive profitable growth. In this new business environment, the transaction processing arm of the industry is facing increased pressure to reduce float, better

manage liquidity, and provide regulators and clients with increased transparency. At the same time, the industry must effectively manage the risks that are associated with introducing customer-focused and regionalized products and services. Financial Transaction Manager enables the management, orchestration, and monitoring of financial transactions during their processing lifecycle. Financial Transaction Manager provides the capability to integrate and unify financial transactions in various industry formats (including ISO 20022, SWIFT, NACHA, EDIFACT, ANSI X12 and others). By using Financial Transaction Manager, financial institutions gain visibility into message processing, balance financial risk, and facilitate effective performance management. This IBM® Redbooks® publication outlines how Financial Transaction Manager is deployed to realize the benefits of transaction transparency, increase business agility, and allow for innovation that is built on a robust and high-performance environment.

Linux Observability with BPF O'Reilly Media

Explore site reliability engineering practices and learn key Google Cloud Platform (GCP) services such as CSR, Cloud Build, Container Registry, GKE, and Cloud Operations to implement DevOps Key FeaturesLearn GCP services for version control, building code, creating artifacts, and deploying secured containerized applicationsExplore Cloud Operations features such as Metrics Explorer, Logs Explorer, and debug logpointsPrepare for the certification exam using practice questions and mock testsBook Description DevOps is a set of practices that help remove barriers between developers and system administrators, and is implemented by Google through site reliability engineering (SRE). With the help of this book, you'll explore the evolution of DevOps and SRE, before delving into SRE technical practices such as SLA, SLO, SLI, and error budgets that are critical to building reliable software faster and balance new feature deployment with system reliability. You'll then explore SRE cultural practices such as incident management and being on-call, and learn the building blocks to form SRE teams. The second part of the book focuses on Google Cloud services to implement DevOps via continuous integration and continuous delivery (CI/CD). You'll learn how to add source code via Cloud Source Repositories, build code to create deployment artifacts via Cloud Build, and push it to Container Registry. Moving on, you'll understand the need for container orchestration via Kubernetes, comprehend Kubernetes essentials, apply via Google Kubernetes Engine (GKE), and secure the GKE cluster. Finally, you'll explore Cloud Operations to monitor, alert, debug, trace, and profile deployed applications. By the end of this SRE book, you'll be well-versed with the key concepts necessary for gaining Professional Cloud DevOps Engineer certification with the help of mock tests. What you will learnCategorize user journeys and explore different ways to measure SLIsExplore the four golden signals for monitoring a user-facing systemUnderstand psychological safety along with other SRE cultural practicesCreate containers with build triggers and manual invocationsDelve into Kubernetes workloads and potential deployment strategiesSecure GKE clusters via private clusters, Binary Authorization, and shielded GKE nodesGet to grips with monitoring, Metrics Explorer, uptime checks, and alertingDiscover how logs are ingested via the Cloud Logging APIWho this book is for This book is for cloud system administrators and network engineers interested in resolving cloud-based operational issues. IT professionals looking to enhance their careers in administering Google Cloud services and users who want to learn about applying SRE principles and implementing DevOps in GCP will also benefit from this book. Basic knowledge of cloud computing, GCP services, and CI/CD and hands-on experience with Unix/Linux infrastructure is recommended. You'll also find this book useful if you're interested in achieving Professional Cloud DevOps Engineer certification.

Game Engine Architecture IBM Redbooks

This IBM® Redbooks® publication provides performance tuning tips and best practices for IBM Business Process Manager (IBM BPM) V8.5.5 (all editions) and IBM Business Monitor V8.5.5. These products represent an integrated development and runtime environment based on a key set of service-oriented architecture (SOA) and business process management (BPM) technologies. Such technologies include Service Component Architecture (SCA), Service Data Object (SDO), Business Process Execution Language (BPEL) for web services, and Business Processing Modeling Notation (BPMN). Both IBM Business Process Manager and Business Monitor build on the core capabilities of the IBM WebSphere® Application Server infrastructure. As a result, Business Process Manager solutions benefit from tuning, configuration, and best practices information for WebSphere Application Server and the corresponding platform Java virtual machines (JVMs). This book targets a wide variety of groups, both within IBM (development, services, technical sales, and others) and customers. For customers who are either considering or are in the early stages of implementing a solution incorporating Business Process Manager and Business Monitor, this document proves a useful reference. The book is useful both in terms of best practices during application development and deployment and as a reference for setup, tuning, and configuration information. This book talks about many issues that can influence performance of each product and can serve as a guide for making rational first choices in terms of configuration and performance settings. Similarly, customers who already implemented a solution with these products can use the information presented here to gain insight into how their overall integrated solution performance can be improved.

SQL Server 2005 Practical Troubleshooting Routledge

Never-Before-Published Insiders' Information for Troubleshooting SQL Server 2005. This is the definitive guide to troubleshooting the Microsoft SQL Server 2005 database engine, direct from the people who know it most intimately: the people who wrote it, designed it, and support it. SQL Server expert Ken Henderson, author of the best-selling Guru's Guides to SQL Server, has assembled a "dream team" of SQL Server developers and support engineers to provide in-depth troubleshooting and diagnostic information that has never been documented before: information that would be impossible to get without access to Microsoft's own source code. From caching to clustering, query processing to Service Broker, this book will help you address even the toughest problems with database engine operations. Each chapter begins with a brief architectural overview of a key SQL Server component, then drills down into the most common problems users encounter, offering specific guidance on investigating and resolving them. You'll find comprehensive, in-depth chapters on • Waiting and blocking • Data corruption and recovery • Memory • Procedure cache issues • Query processing • Server crashes and other critical failures • Service Broker • SQLOS and scheduling • tempdb • Clustering This is the indispensable resource for everyone who must keep SQL Server running smoothly: DBAs, database application developers, API programmers, and Web developers alike. Contents About the Authors ix Preface xii Acknowledgments xiv 1 Waiting and Blocking Issues 1 2 Data Corruption and Recovery Issues 47 3 Memory Issues 137 4 Procedure Cache Issues 183 5 Query Processor Issues 225 6 Server Crashes and Other Critical Failures 273 7 Service Broker Issues 331 8 SQLOS and Scheduling Issues 369 9 Tempdb Issues 411 10 Clustering Issues 425 The Aging Champion 441 Index 445