

High Availability With Postgresql And Pacemaker

WHEN PEOPLE SHOULD GO TO THE EBOOK STORES, SEARCH COMMENCEMENT BY SHOP, SHELF BY SHELF, IT IS ESSENTIALLY PROBLEMATIC. THIS IS WHY WE GIVE THE BOOK COMPILATIONS IN THIS WEBSITE. IT WILL EXTREMELY EASE YOU TO LOOK GUIDE **HIGH AVAILABILITY WITH POSTGRESQL AND PACEMAKER** AS YOU SUCH AS.

BY SEARCHING THE TITLE, PUBLISHER, OR AUTHORS OF GUIDE YOU IN POINT OF FACT WANT, YOU CAN DISCOVER THEM RAPIDLY. IN THE HOUSE, WORKPLACE, OR PERHAPS IN YOUR METHOD CAN BE ALL BEST PLACE WITHIN NET CONNECTIONS. IF YOU MEAN TO DOWNLOAD AND INSTALL THE **HIGH AVAILABILITY WITH POSTGRESQL AND PACEMAKER**, IT IS CERTAINLY EASY THEN, BACK CURRENTLY WE EXTEND THE PARTNER TO PURCHASE AND MAKE BARGAINS TO DOWNLOAD AND INSTALL **HIGH AVAILABILITY WITH POSTGRESQL AND PACEMAKER** FOR THAT REASON SIMPLE!

DATABASE REPLICATION - BETTINA KEMME 2010

DATABASE REPLICATION IS WIDELY USED FOR FAULT-TOLERANCE, SCALABILITY AND PERFORMANCE. THE FAILURE OF ONE DATABASE REPLICA DOES NOT STOP THE SYSTEM FROM WORKING AS AVAILABLE REPLICAS CAN TAKE OVER THE TASKS OF THE FAILED REPLICA. SCALABILITY CAN BE ACHIEVED BY DISTRIBUTING THE LOAD ACROSS ALL REPLICAS, AND ADDING NEW REPLICAS SHOULD THE LOAD INCREASE. FINALLY, DATABASE REPLICATION CAN PROVIDE FAST LOCAL ACCESS, EVEN IF CLIENTS ARE GEOGRAPHICALLY DISTRIBUTED CLIENTS, IF DATA COPIES ARE LOCATED CLOSE TO CLIENTS. DESPITE ITS ADVANTAGES, REPLICATION IS NOT A STRAIGHTFORWARD TECHNIQUE TO APPLY, AND THERE ARE MANY HURDLES TO OVERCOME. AT THE FOREFRONT IS REPLICA CONTROL: ASSURING THAT DATA COPIES REMAIN CONSISTENT WHEN UPDATES OCCUR. THERE EXIST MANY ALTERNATIVES IN REGARD TO WHERE UPDATES CAN OCCUR AND WHEN CHANGES ARE PROPAGATED TO DATA COPIES, HOW CHANGES ARE APPLIED, WHERE THE REPLICATION TOOL IS LOCATED, ETC. A PARTICULAR CHALLENGE IS TO COMBINE REPLICA CONTROL WITH TRANSACTION MANAGEMENT AS IT REQUIRES SEVERAL OPERATIONS TO BE TREATED AS A SINGLE LOGICAL UNIT, AND IT PROVIDES ATOMICITY, CONSISTENCY, ISOLATION AND DURABILITY ACROSS THE REPLICATED SYSTEM. THE BOOK PROVIDES A CATEGORIZATION OF REPLICA CONTROL MECHANISMS, PRESENTS SEVERAL REPLICA AND CONCURRENCY CONTROL MECHANISMS IN DETAIL, AND DISCUSSES MANY OF THE ISSUES THAT ARISE WHEN SUCH SOLUTIONS NEED TO BE IMPLEMENTED WITHIN OR ON TOP OF RELATIONAL DATABASE SYSTEMS. TABLE OF CONTENTS: OVERVIEW / 1-COPY-EQUIVALENCE AND CONSISTENCY / BASIC PROTOCOLS / REPLICATION ARCHITECTURE / THE SCALABILITY OF REPLICATION / EAGER REPLICATION AND 1-COPY-SERIALIZABILITY / 1-COPY-SNAPSHOT ISOLATION / LAZY REPLICATION / SELF-CONFIGURATION AND ELASTICITY / OTHER ASPECTS OF REPLICATION

HIGH-PERFORMANCE PARALLEL DATABASE PROCESSING AND GRID DATABASES - DAVID TANIAR 2008-09-17

THE LATEST TECHNIQUES AND PRINCIPLES OF PARALLEL AND GRID DATABASE PROCESSING THE GROWTH IN GRID DATABASES, COUPLED WITH THE UTILITY OF PARALLEL QUERY PROCESSING, PRESENTS AN IMPORTANT OPPORTUNITY

TO UNDERSTAND AND UTILIZE HIGH-PERFORMANCE PARALLEL DATABASE PROCESSING WITHIN A MAJOR DATABASE MANAGEMENT SYSTEM (DBMS). THIS IMPORTANT NEW BOOK PROVIDES READERS WITH A FUNDAMENTAL UNDERSTANDING OF PARALLELISM IN DATA-INTENSIVE APPLICATIONS, AND DEMONSTRATES HOW TO DEVELOP FASTER CAPABILITIES TO SUPPORT THEM. IT PRESENTS A BALANCED TREATMENT OF THE THEORETICAL AND PRACTICAL ASPECTS OF HIGH-PERFORMANCE DATABASES TO DEMONSTRATE HOW PARALLEL QUERY IS EXECUTED IN A DBMS, INCLUDING CONCEPTS, ALGORITHMS, ANALYTICAL MODELS, AND GRID TRANSACTIONS. HIGH-PERFORMANCE PARALLEL DATABASE PROCESSING AND GRID DATABASES SERVES AS A VALUABLE RESOURCE FOR RESEARCHERS WORKING IN PARALLEL DATABASES AND FOR PRACTITIONERS INTERESTED IN BUILDING A HIGH-PERFORMANCE DATABASE. IT IS ALSO A MUCH-NEEDED, SELF-CONTAINED TEXTBOOK FOR DATABASE COURSES AT THE ADVANCED UNDERGRADUATE AND GRADUATE LEVELS.

AZURE SQL REVEALED - BOB WARD 2021-02-11

ACCESS DETAILED CONTENT AND EXAMPLES ON AZURE SQL, A SET OF CLOUD SERVICES THAT ALLOWS FOR SQL SERVER TO BE DEPLOYED IN THE CLOUD. THIS BOOK TEACHES THE FUNDAMENTALS OF DEPLOYMENT, CONFIGURATION, SECURITY, PERFORMANCE, AND AVAILABILITY OF AZURE SQL FROM THE PERSPECTIVE OF THESE SAME TASKS AND CAPABILITIES IN SQL SERVER. THIS DISTINCT APPROACH MAKES THIS BOOK AN IDEAL LEARNING PLATFORM FOR READERS FAMILIAR WITH SQL SERVER ON-PREMISES WHO WANT TO MIGRATE THEIR SKILLS TOWARD PROVIDING CLOUD SOLUTIONS TO AN ENTERPRISE MARKET THAT IS INCREASINGLY CLOUD-FOCUSED. IF YOU KNOW SQL SERVER, YOU WILL LOVE THIS BOOK. YOU WILL BE ABLE TO TAKE YOUR EXISTING KNOWLEDGE OF SQL SERVER AND TRANSLATE THAT KNOWLEDGE INTO THE WORLD OF CLOUD SERVICES FROM THE MICROSOFT AZURE PLATFORM, AND IN PARTICULAR INTO AZURE SQL. THIS BOOK PROVIDES INFORMATION NEVER SEEN BEFORE ABOUT THE HISTORY AND ARCHITECTURE OF AZURE SQL. AUTHOR BOB WARD IS A LEADING EXPERT WITH ACCESS TO AND SUPPORT FROM THE MICROSOFT ENGINEERING TEAM THAT BUILT AZURE SQL AND RELATED DATABASE CLOUD SERVICES. HE PRESENTS POWERFUL, BEHIND-THE-SCENES INSIGHTS INTO THE WORKINGS OF ONE OF THE MOST POPULAR DATABASE CLOUD SERVICES IN

THE INDUSTRY. WHAT YOU WILL LEARN KNOW THE HISTORY OF AZURE SQL DEPLOY, CONFIGURE, AND CONNECT TO AZURE SQL CHOOSE THE CORRECT WAY TO DEPLOY SQL SERVER IN AZURE MIGRATE EXISTING SQL SERVER INSTANCES TO AZURE SQL MONITOR AND TUNE AZURE SQL'S PERFORMANCE TO MEET YOUR NEEDS ENSURE YOUR DATA AND APPLICATION ARE HIGHLY AVAILABLE SECURE YOUR DATA FROM ATTACK AND THEFT WHO THIS BOOK IS FOR THIS BOOK IS DESIGNED TO TEACH SQL SERVER IN THE AZURE CLOUD TO THE SQL SERVER PROFESSIONAL. ANYONE WHO OPERATES, MANAGES, OR DEVELOPS APPLICATIONS FOR SQL SERVER WILL BENEFIT FROM THIS BOOK. READERS WILL BE ABLE TO TRANSLATE THEIR CURRENT KNOWLEDGE OF SQL SERVER—ESPECIALLY OF SQL SERVER 2019—DIRECTLY TO AZURE. THIS BOOK IS IDEAL FOR DATABASE PROFESSIONALS LOOKING TO REMAIN RELEVANT AS THEIR CUSTOMER BASE MOVES INTO THE CLOUD.

ARCHITECTURAL TRANSFORMATIONS IN NETWORK SERVICES AND DISTRIBUTED SYSTEMS - ANDRIY LUNTOVSKYY
2017-03-23

WITH THE GIVEN WORK WE DECIDED TO HELP NOT ONLY THE READERS BUT OURSELVES, AS THE PROFESSIONALS WHO ACTIVELY INVOLVED IN THE NETWORKING BRANCH, WITH UNDERSTANDING THE TRENDS THAT HAVE DEVELOPED IN RECENT TWO DECADES IN DISTRIBUTED SYSTEMS AND NETWORKS.

IMPORTANT ARCHITECTURE TRANSFORMATIONS OF DISTRIBUTED SYSTEMS HAVE BEEN EXAMINED. THE EXAMPLES OF NEW ARCHITECTURAL SOLUTIONS ARE DISCUSSED.

LEARN OPENSIFT - ALEKSEY USOV 2018-07-30

GAIN HANDS-ON EXPERIENCE OF INSTALLING OPENSIFT ORIGIN 3.9 IN A PRODUCTION CONFIGURATION AND MANAGING APPLICATIONS USING THE PLATFORM YOU BUILT KEY FEATURES GAIN HANDS-ON EXPERIENCE OF WORKING WITH KUBERNETES AND DOCKER LEARN HOW TO DEPLOY AND MANAGE APPLICATIONS IN OPENSIFT GET A PRACTICAL APPROACH TO MANAGING APPLICATIONS ON A CLOUD-BASED PLATFORM EXPLORE MULTI-SITE AND HA ARCHITECTURES OF OPENSIFT FOR PRODUCTION BOOK DESCRIPTION DOCKER CONTAINERS TRANSFORM APPLICATION DELIVERY TECHNOLOGIES TO MAKE THEM FASTER AND MORE REPRODUCIBLE, AND TO REDUCE THE AMOUNT OF TIME WASTED ON CONFIGURATION. MANAGING DOCKER CONTAINERS IN THE MULTI-NODE OR MULTI-DATACENTER ENVIRONMENT IS A BIG CHALLENGE, WHICH IS WHY CONTAINER MANAGEMENT PLATFORMS ARE REQUIRED. OPENSIFT IS A NEW GENERATION OF CONTAINER MANAGEMENT PLATFORMS BUILT ON TOP OF BOTH DOCKER AND KUBERNETES. IT BRINGS ADDITIONAL FUNCTIONALITY TO THE TABLE, SOMETHING THAT IS LACKING IN KUBERNETES. THIS NEW FUNCTIONALITY SIGNIFICANTLY HELPS SOFTWARE DEVELOPMENT TEAMS TO BRING SOFTWARE DEVELOPMENT PROCESSES TO A WHOLE NEW LEVEL. IN THIS BOOK, WE'LL START BY EXPLAINING THE CONTAINER ARCHITECTURE, DOCKER, AND CRI-O OVERVIEWS. THEN, WE'LL LOOK AT CONTAINER ORCHESTRATION AND KUBERNETES. WE'LL COVER OPENSIFT INSTALLATION, AND ITS BASIC AND ADVANCED COMPONENTS. MOVING ON, WE'LL DEEP DIVE INTO CONCEPTS SUCH AS DEPLOYING APPLICATION OPENSIFT. YOU'LL LEARN HOW TO SET UP AN END-TO-END DELIVERY PIPELINE WHILE WORKING WITH APPLICATIONS IN

OPENSIFT AS A DEVELOPER OR DEVOPS. FINALLY, YOU'LL DISCOVER HOW TO PROPERLY DESIGN OPENSIFT IN PRODUCTION ENVIRONMENTS. THIS BOOK GIVES YOU HANDS-ON EXPERIENCE OF DESIGNING, BUILDING, AND OPERATING OPENSIFT ORIGIN 3.9, AS WELL AS BUILDING NEW APPLICATIONS OR MIGRATING EXISTING APPLICATIONS TO OPENSIFT. WHAT YOU WILL LEARN UNDERSTAND THE CORE CONCEPTS BEHIND CONTAINERS AND CONTAINER ORCHESTRATION TOOLS UNDERSTAND DOCKER, KUBERNETES, AND OPENSIFT, AND THEIR RELATION TO CRI-O INSTALL AND WORK WITH KUBERNETES AND OPENSIFT UNDERSTAND HOW TO WORK WITH PERSISTENT STORAGE IN OPENSIFT UNDERSTAND BASIC AND ADVANCED COMPONENTS OF OPENSIFT, INCLUDING SECURITY AND NETWORKING MANAGE DEPLOYMENT STRATEGIES AND APPLICATION'S MIGRATION IN OPENSIFT UNDERSTAND AND DESIGN OPENSIFT HIGH AVAILABILITY WHO THIS BOOK IS FOR THE BOOK IS FOR SYSTEM ADMINISTRATORS, DEVOPS ENGINEERS, SOLUTIONS ARCHITECTS, OR ANY STAKEHOLDER WHO WANTS TO UNDERSTAND THE CONCEPT AND BUSINESS VALUE OF OPENSIFT.

SOFTWARE DEFINED DATA CENTER WITH RED HAT CLOUD AND OPEN SOURCE IT OPERATIONS MANAGEMENT - DINO QUINTERO 2020-11-04

THIS IBM® REDBOOKS® PUBLICATION DELIVERS A SITE RELIABILITY ENGINEERING (SRE) SOLUTION FOR CLOUD WORKLOADS THAT USES RED HAT OPENSTACK FOR INFRASTRUCTURE AS A SERVICE (IAAS), RED HAT OPENSIFT FOR PLATFORM AS A SERVICE (PAAS), AND IT OPERATIONS MANAGEMENT THAT USES OPEN SOURCE TOOLS. TODAY, CUSTOMERS ARE NO LONGER LIVING IN A WORLD OF LICENSED SOFTWARE. CURIOSITY INCREASED THE DEMAND FOR INVESTIGATING THE OPEN SOURCE WORLD FOR COMMUNITY OPEN SOURCE AND ENTERPRISE GRADE APPLICATIONS. IBM AS ONE OF THE CONTRIBUTORS TO THE OPEN SOURCE COMMUNITY IS INTERESTED IN HELPING THE SOFTWARE BE MAINTAINED AND SUPPORTED. HAVING COMPANIES, SUCH AS IBM, SUPPORT THE EVOLUTION OF OPEN SOURCE SOFTWARE HELPS TO KEEP THE OPEN SOURCE COMMUNITY STRIVING FOR ENTERPRISE GRADE OPEN SOURCE SOLUTIONS. LATELY, COMPANIES ARE WORKING ON DECIPHERING HOW TO TAKE ADVANTAGE OF ENTERPRISE AND COMMUNITY OPEN SOURCE TO IMPLEMENT IN THEIR ENTERPRISES. THE BUSINESS CASE FOR OPEN SOURCE SOFTWARE IS NO LONGER A MYSTERY AND NO SURPRISE THAT MOST OF THE NEW POSITIONS IN IT ENTERPRISES ARE RELATED TO OPEN SOURCE PROJECTS. THE ABILITY OF A LARGE ENTERPRISE TO MANAGE THIS SORT OF IMPLEMENTATIONS IS TO ENGAGE IN A HYPERTROPHIED COOPERATION, WHERE THE ABILITY TO NOT ONLY COOPERATE WITH TEAMS AND PEOPLE OUTSIDE YOUR ORGANIZATION, BUT ALSO TO FIND NEW WAYS OF WORKING TOGETHER AND DEVISE NEW WAYS TO IMPROVE THE SOFTWARE AND ITS CODE. A GOAL FOR THIS PUBLICATION IS TO HELP THE CLIENT'S JOURNEY INTO THE OPEN SOURCE SPACE AND IMPLEMENT A PRIVATE CLOUD CONTAINER-BASED ARCHITECTURE WITH THE ABILITY TO MANAGE THE ENTIRE IT SERVICE MANAGEMENT PROCESSES FROM THE OPEN SOURCE FRAMEWORK. THIS PUBLICATION DESCRIBES THE ARCHITECTURE AND IMPLEMENTATION DETAILS OF THE SOLUTION. ALTHOUGH NOT

EVERY PIECE OF THIS SOLUTION IS DOCUMENTED HERE, THIS BOOK DOES PROVIDE INSTRUCTIONS FOR WHAT WAS ACHIEVED INCORPORATING OPEN SOURCE TECHNOLOGIES. MOREOVER, WITH THIS PUBLICATION, THE TEAM SHARES THEIR COLLABORATION EXPERIENCES WORKING IN A TEAM OF TECHNOLOGISTS, OPEN SOURCE DEVELOPERS, RED HAT, AND THE OPEN SOURCE COMMUNITY. THIS PUBLICATION IS FOR DESIGNERS, DEVELOPERS, MANAGERS, AND ANYONE WHO IS CONSIDERING STARTING A CLOUD OPEN SOURCE PROJECT, OR USERS WHO STARTED THAT JOURNEY. THIS BOOK ALSO CAN BE A MANUAL TO GUIDE THE IMPLEMENTATION OF A TECHNICAL VIABLE ARCHITECTURE AND HELP THOSE ENTERPRISES PARTICIPATE IN AN OPEN SOURCE PROJECT BUT HAVE NOT DONE SO BEFORE. THE READER MUST BE FAMILIAR WITH PRINCIPLES IN PROGRAMMING AND BASIC SOFTWARE ENGINEERING CONCEPTS, SUCH AS SOURCE CODE, COMPILERS, AND PATCHES.

THE ARCHITECTURE OF OPEN SOURCE APPLICATIONS - AMY BROWN 2011

BESCHRIJVING VAN VIJFENTWINTIG OPEN SOURCE APPLICATIES.

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.

SQL SERVER 2019 ADMINISTRATOR'S GUIDE - MAREK CHMEL 2020-09-11

USE MICROSOFT SQL SERVER 2019 TO IMPLEMENT, ADMINISTER, AND SECURE A ROBUST DATABASE SOLUTION THAT IS DISASTER-PROOF AND HIGHLY AVAILABLE. KEY FEATURES. EXPLORE NEW FEATURES OF SQL SERVER 2019 TO SET UP, ADMINISTER, AND MAINTAIN YOUR DATABASE SOLUTION SUCCESSFULLY. DEVELOP A DYNAMIC SQL SERVER ENVIRONMENT AND STREAMLINE BIG DATA PIPELINES. DISCOVER BEST PRACTICES FOR FIXING PERFORMANCE ISSUES, DATABASE ACCESS MANAGEMENT, REPLICATION, AND SECURITY. BOOK DESCRIPTION SQL SERVER IS ONE OF THE MOST POPULAR RELATIONAL DATABASE MANAGEMENT SYSTEMS DEVELOPED BY MICROSOFT. THIS SECOND EDITION OF THE SQL SERVER ADMINISTRATOR'S GUIDE WILL NOT ONLY TEACH YOU HOW TO ADMINISTER AN ENTERPRISE DATABASE, BUT ALSO HELP YOU BECOME PROFICIENT AT MANAGING AND KEEPING THE DATABASE AVAILABLE, SECURE, AND STABLE. YOU'LL START BY LEARNING HOW TO SET UP YOUR SQL SERVER AND CONFIGURE NEW AND EXISTING ENVIRONMENTS FOR OPTIMAL USE. THE BOOK THEN TAKES YOU THROUGH DESIGNING ASPECTS AND DELVES INTO PERFORMANCE TUNING BY SHOWING YOU HOW TO USE INDEXES EFFECTIVELY. YOU'LL UNDERSTAND CERTAIN CHOICES THAT NEED TO BE MADE ABOUT BACKUPS, IMPLEMENT SECURITY POLICY, AND DISCOVER HOW TO KEEP YOUR ENVIRONMENT HEALTHY. TOOLS AVAILABLE FOR MONITORING AND MANAGING A SQL SERVER DATABASE, INCLUDING AUTOMATING HEALTH REVIEWS, PERFORMANCE CHECKS, AND MUCH MORE, WILL ALSO BE DISCUSSED IN DETAIL. AS YOU ADVANCE, THE BOOK COVERS ESSENTIAL TOPICS SUCH AS MIGRATION, UPGRADING, AND CONSOLIDATION, ALONG WITH THE TECHNIQUES THAT WILL HELP YOU WHEN THINGS GO WRONG. ONCE YOU'VE GOT TO GRIPS WITH INTEGRATION WITH AZURE AND STREAMLINING BIG DATA PIPELINES, YOU'LL LEARN BEST PRACTICES FROM INDUSTRY EXPERTS FOR MAINTAINING A HIGHLY RELIABLE DATABASE SOLUTION. WHETHER YOU ARE AN ADMINISTRATOR OR ARE LOOKING TO GET STARTED WITH DATABASE ADMINISTRATION, THIS SQL SERVER BOOK WILL HELP YOU DEVELOP THE SKILLS YOU NEED TO SUCCESSFULLY CREATE, DESIGN, AND DEPLOY DATABASE SOLUTIONS. WHAT YOU WILL LEARN. DISCOVER SQL SERVER 2019'S NEW FEATURES AND HOW TO IMPLEMENT THEM. FIX PERFORMANCE ISSUES BY OPTIMIZING QUERIES AND MAKING USE OF INDEXES. DESIGN AND USE AN

OPTIMAL DATABASE MANAGEMENT STRATEGY COMBINE SQL SERVER 2019 WITH AZURE AND MANAGE YOUR SOLUTION USING VARIOUS AUTOMATION TECHNIQUES IMPLEMENT EFFICIENT BACKUP AND RECOVERY TECHNIQUES IN LINE WITH SECURITY POLICIES GET TO GRIPS WITH MIGRATING, UPGRADING, AND CONSOLIDATING WITH SQL SERVER SET UP AN ALWAYS ON-ENABLED STABLE AND FAST SQL SERVER 2019 ENVIRONMENT UNDERSTAND HOW TO WORK WITH BIG DATA ON SQL SERVER ENVIRONMENTS WHO THIS BOOK IS FOR THIS BOOK IS FOR DATABASE ADMINISTRATORS, DATABASE DEVELOPERS, AND ANYONE WHO WANTS TO ADMINISTER LARGE AND MULTIPLE DATABASES SINGLE-HANDEDLY USING MICROSOFT'S SQL SERVER 2019. BASIC AWARENESS OF DATABASE CONCEPTS AND EXPERIENCE WITH PREVIOUS SQL SERVER VERSIONS IS REQUIRED.

SQL SERVER 2019 ADMINISTRATION INSIDE OUT - RANDOLPH WEST 2020-03-11

CONQUER SQL SERVER 2019 ADMINISTRATION-FROM THE INSIDE OUT DIVE INTO SQL SERVER 2019 ADMINISTRATION-AND REALLY PUT YOUR SQL SERVER DBA EXPERTISE TO WORK. THIS SUPREMELY ORGANIZED REFERENCE PACKS HUNDREDS OF TIME-SAVING SOLUTIONS, TIPS, AND WORKAROUNDS-ALL YOU NEED TO PLAN, IMPLEMENT, MANAGE, AND SECURE SQL SERVER 2019 IN ANY PRODUCTION ENVIRONMENT: ON-PREMISES, CLOUD, OR HYBRID. SIX EXPERTS THOROUGHLY TOUR DBA CAPABILITIES AVAILABLE IN SQL SERVER 2019 DATABASE ENGINE, SQL SERVER DATA TOOLS, SQL SERVER MANAGEMENT STUDIO, POWERSHELL, AND AZURE PORTAL. YOU'LL FIND EXTENSIVE NEW COVERAGE OF AZURE SQL, BIG DATA CLUSTERS, POLYBASE, DATA PROTECTION, AUTOMATION, AND MORE. DISCOVER HOW EXPERTS TACKLE TODAY'S ESSENTIAL TASKS-AND CHALLENGE YOURSELF TO NEW LEVELS OF MASTERY. EXPLORE SQL SERVER 2019'S TOOLSET, INCLUDING THE IMPROVED SQL SERVER MANAGEMENT STUDIO, AZURE DATA STUDIO, AND CONFIGURATION MANAGER DESIGN, IMPLEMENT, MANAGE, AND GOVERN ON-PREMISES, HYBRID, OR AZURE DATABASE INFRASTRUCTURES INSTALL AND CONFIGURE SQL SERVER ON WINDOWS AND LINUX MASTER MODERN MAINTENANCE AND MONITORING WITH EXTENDED EVENTS, RESOURCE GOVERNOR, AND THE SQL ASSESSMENT API AUTOMATE TASKS WITH MAINTENANCE PLANS, POWERSHELL, POLICY-BASED MANAGEMENT, AND MORE PLAN AND MANAGE DATA RECOVERY, INCLUDING HYBRID BACKUP/RESTORE, AZURE SQL DATABASE RECOVERY, AND GEO-REPLICATION USE AVAILABILITY GROUPS FOR HIGH AVAILABILITY AND DISASTER RECOVERY PROTECT DATA WITH TRANSPARENT DATA ENCRYPTION, ALWAYS ENCRYPTED, NEW CERTIFICATE MANAGEMENT CAPABILITIES, AND OTHER ADVANCES OPTIMIZE DATABASES WITH SQL SERVER 2019'S ADVANCED PERFORMANCE AND INDEXING FEATURES PROVISION AND OPERATE AZURE SQL DATABASE AND ITS MANAGED INSTANCES MOVE SQL SERVER WORKLOADS TO AZURE: PLANNING, TESTING, MIGRATION, AND POST-MIGRATION

POSTGRESQL 11 ADMINISTRATION COOKBOOK - SIMON RIGGS 2019-05-03

A PRACTICAL GUIDE TO ADMINISTER, MONITOR AND REPLICATE YOUR POSTGRESQL 11 DATABASE KEY FEATURES STUDY AND APPLY THE NEWLY INTRODUCED FEATURES IN

POSTGRESQL 11 TACKLE ANY PROBLEM IN POSTGRESQL 11 ADMINISTRATION AND MANAGEMENT CATCH UP ON EXPERT TECHNIQUES FOR MONITORING, FINE-TUNING, AND SECURING YOUR DATABASE 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 11 ALLOWS YOU TO SCALE UP YOUR POSTGRESQL INFRASTRUCTURE. THIS BOOK TAKES A STEP-BY-STEP, RECIPE-BASED APPROACH TO EFFECTIVE POSTGRESQL ADMINISTRATION. THE BOOK WILL INTRODUCE YOU TO NEW FEATURES SUCH AS LOGICAL REPLICATION, NATIVE TABLE PARTITIONING, ADDITIONAL QUERY PARALLELISM, AND MUCH MORE TO HELP YOU TO UNDERSTAND AND CONTROL, CRASH RECOVERY AND PLAN BACKUPS. YOU WILL LEARN HOW TO TACKLE A VARIETY OF PROBLEMS AND PAIN POINTS FOR ANY DATABASE ADMINISTRATOR SUCH AS CREATING TABLES, MANAGING VIEWS, IMPROVING PERFORMANCE, AND SECURING YOUR DATABASE. AS YOU MAKE STEADY PROGRESS, THE BOOK WILL DRAW ATTENTION TO IMPORTANT TOPICS SUCH AS MONITORING ROLES, BACKUP, AND RECOVERY OF YOUR POSTGRESQL 11 DATABASE TO HELP YOU UNDERSTAND ROLES AND PRODUCE A SUMMARY OF LOG FILES, ENSURING HIGH AVAILABILITY, CONCURRENCY, AND REPLICATION. BY THE END OF THIS BOOK, YOU WILL HAVE THE NECESSARY KNOWLEDGE TO MANAGE YOUR POSTGRESQL 11 DATABASE EFFICIENTLY. WHAT YOU WILL LEARN TROUBLESHOOT OPEN SOURCE POSTGRESQL VERSION 11 ON VARIOUS PLATFORMS DEPLOY BEST PRACTICES FOR PLANNING AND DESIGNING LIVE DATABASES SELECT AND IMPLEMENT ROBUST BACKUP AND RECOVERY TECHNIQUES IN POSTGRESQL 11 USE PGADMIN OR OMNIDB TO PERFORM DATABASE ADMINISTRATOR (DBA) TASKS ADOPT EFFICIENT REPLICATION AND HIGH AVAILABILITY TECHNIQUES IN POSTGRESQL IMPROVE THE PERFORMANCE OF YOUR POSTGRESQL SOLUTION WHO THIS BOOK IS FOR THIS BOOK IS DESIGNED FOR DATABASE ADMINISTRATORS, DATA ARCHITECTS, DATABASE DEVELOPERS, OR ANYONE WITH AN INTEREST IN PLANNING AND RUNNING LIVE PRODUCTION DATABASES USING POSTGRESQL 11. IT IS ALSO IDEAL IF YOU'RE LOOKING FOR HANDS-ON SOLUTIONS TO ANY PROBLEM ASSOCIATED WITH POSTGRESQL 11 ADMINISTRATION. SOME EXPERIENCE WITH HANDLING POSTGRESQL DATABASES WILL BE BENEFICIAL

POSTGRESQL 13 COOKBOOK - VALLARAPU NAGA AVINASH KUMAR 2021-02-26

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 PostgreSQL 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 PostgreSQL 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.

ZABBIX: ENTERPRISE NETWORK MONITORING MADE EASY -
 RIHARDS OLUPS 2017-02-08

LEARN HOW TO GATHER DETAILED STATISTICS AND DATA WITH THIS ONE-STOP, COMPREHENSIVE COURSE ALONG WITH HANDS-ON RECIPES TO GET YOUR INFRASTRUCTURE UP AND RUNNING WITH ZABBIX. ABOUT THIS BOOK MONITOR YOUR NETWORK AND DEPLOY IMPRESSIVE BUSINESS SOLUTIONS WITH ZABBIX GET PRACTICAL RECIPES TO AUTOMATE YOUR ZABBIX INFRASTRUCTURE AND CREATE IMPRESSIVE GRAPHS INTEGRATE, CUSTOMIZE, AND EXTEND YOUR MONITORING SOLUTIONS WITH EXTERNAL COMPONENTS AND SOFTWARE. WHO THIS BOOK IS FOR THIS COURSE IS FOR SYSTEM ADMINISTRATORS WHO HAVE BEEN MANAGING AND MONITORING INFRASTRUCTURE. YOU DO NOT NEED ANY KNOWLEDGE ABOUT ZABBIX. WHAT YOU WILL LEARN EFFICIENTLY COLLECT DATA FROM A LARGE VARIETY OF MONITORING OBJECTS ORGANIZE YOUR DATA IN GRAPHS, CHARTS, MAPS, AND SLIDE SHOWS 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 FIND OUT HOW TO MONITOR SNMP DEVICES MANAGE HOSTS, USERS, AND PERMISSIONS WHILE ACTING UPON MONITORED CONDITIONS SET UP YOUR ZABBIX INFRASTRUCTURE EFFICIENTLY CUSTOMIZE THE ZABBIX INTERFACE TO SUIT YOUR SYSTEM NEEDS MONITOR YOUR VMWARE INFRASTRUCTURE IN A QUICK AND EASY WAY WITH ZABBIX 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 THAT CAN DISRUPT AN EFFICIENT AND HEALTHY IT DEPARTMENT. THIS COURSE IS FOR ADMINISTRATORS WHO ARE LOOKING FOR AN END-TO-END MONITORING SOLUTION. IT WILL GET YOU ACCUSTOMED WITH THE POWERFUL MONITORING SOLUTION, STARTING WITH INSTALLATION AND EXPLAINING THE FUNDAMENTALS OF ZABBIX. MOVING ON, WE EXPLORE THE COMPLEX FUNCTIONALITIES OF ZABBIX IN THE FORM OF ENTICING RECIPES. THESE RECIPES WILL HELP YOU TO GAIN CONTROL OF YOUR INFRASTRUCTURE. YOU WILL BE ABLE TO ORGANIZE YOUR DATA IN THE FORM OF GRAPHS AND CHARTS ALONG WITH BUILDING INTELLIGENT TRIGGERS FOR MONITORING YOUR NETWORK PROACTIVELY. TOWARD THE END, YOU WILL GAIN EXPERTISE IN MONITORING YOUR NETWORKS AND APPLICATIONS USING ZABBIX. THIS LEARNING PATH COMBINES SOME OF THE BEST THAT PACKT HAS TO OFFER IN ONE COMPLETE, CURATED PACKAGE. IT INCLUDES CONTENT FROM THE FOLLOWING PACKT PRODUCTS: ZABBIX NETWORK MONITORING-SECOND EDITION ZABBIX COOKBOOK MASTERING ZABBIX-SECOND EDITION STYLE AND APPROACH THIS COURSE IS A COMPACT PRACTICAL GUIDE THAT STARTS FROM THE FUNDAMENTALS OF ZABBIX AND TAKES YOU ALL THE WAY TO BUILDING A MONITORING SOLUTION THAT GATHERS DATA FROM A LARGE VARIETY OF SYSTEMS. ALONG THE WAY, WE WILL DISCUSS THE LOW-LEVEL OPERATIONAL DETAILS THAT SHOULD BENEFIT YOU EVEN IF YOU HAVE USED ZABBIX FOR A WHILE. IT ALSO FOLLOWS A STEP-BY-STEP APPROACH THAT IS EASY TO FOLLOW, FULL OF ENGAGING EXAMPLES, AND WILL HELP YOU APPLY THE THEORY TO PRACTICE.

MASTERING PostgreSQL 12 - HANS-JÜRGEN SCHNIG 2019-11-29

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.

BLUEPRINTS: CREATING, DESCRIBING, AND IMPLEMENTING DESIGNS FOR LARGER-SCALE SOFTWARE PROJECTS (VERSION 2.2) - STEPHEN DAVIES 2020-08-08

BLUEPRINTS IS A CONCISE YET COMPREHENSIVE COVERAGE OF OBJECT-ORIENTED ANALYSIS AND DESIGN CONCEPTS, SUITABLE FOR A SECOND PROGRAMMING COURSE IN COMPUTER SCIENCE. IT INTRODUCES AND TEACHES APPLICATION DEVELOPMENT IN A COMMAND-LINE ENVIRONMENT, AND ASSUMES BASIC EXPERTISE WITH THE JAVA PROGRAMMING LANGUAGE.

ARCHITECTING MODERN DATA PLATFORMS - JAN KUNIGK 2018-12-05

THERE'S A LOT OF INFORMATION ABOUT BIG DATA TECHNOLOGIES, BUT SPLICING THESE TECHNOLOGIES INTO AN END-TO-END ENTERPRISE DATA PLATFORM IS A DAUNTING TASK NOT WIDELY COVERED. WITH THIS PRACTICAL BOOK, YOU'LL LEARN HOW TO BUILD BIG DATA INFRASTRUCTURE BOTH ON-PREMISES AND IN THE CLOUD AND SUCCESSFULLY ARCHITECT A MODERN DATA PLATFORM. IDEAL FOR ENTERPRISE ARCHITECTS, IT MANAGERS, APPLICATION ARCHITECTS, AND DATA ENGINEERS, THIS BOOK SHOWS YOU HOW TO OVERCOME THE MANY CHALLENGES THAT EMERGE DURING HADOOP PROJECTS. YOU'LL EXPLORE THE VAST LANDSCAPE OF TOOLS AVAILABLE IN THE HADOOP AND BIG DATA REALM IN A THOROUGH TECHNICAL PRIMER BEFORE DIVING INTO: INFRASTRUCTURE: LOOK AT ALL COMPONENT LAYERS IN A MODERN DATA PLATFORM, FROM THE SERVER TO THE DATA CENTER, TO ESTABLISH A SOLID FOUNDATION FOR DATA IN YOUR ENTERPRISE PLATFORM: UNDERSTAND ASPECTS OF DEPLOYMENT, OPERATION, SECURITY, HIGH AVAILABILITY, AND DISASTER RECOVERY, ALONG WITH EVERYTHING YOU NEED TO KNOW TO INTEGRATE YOUR PLATFORM WITH THE REST OF YOUR ENTERPRISE IT TAKING HADOOP TO THE CLOUD: LEARN THE IMPORTANT ARCHITECTURAL ASPECTS OF RUNNING A BIG DATA PLATFORM IN THE CLOUD WHILE MAINTAINING ENTERPRISE SECURITY AND HIGH AVAILABILITY

POSTGRESQL HIGH AVAILABILITY COOKBOOK - SECOND EDITION - SHAUN M. THOMAS 2017-01-31

OVER 100 RECIPES TO DESIGN AND IMPLEMENT A HIGHLY AVAILABLE SERVER WITH THE ADVANCED FEATURES OF POSTGRESQL 9.4, 9.5 AND 9.6 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.

PostgreSQL 10 Administration Cookbook - Gianni Ciolli 2018-05-18

A PRACTICAL GUIDE TO ADMINISTER, MONITOR AND REPLICATE YOUR PostgreSQL 10 DATABASE KEY FEATURES GET TO GRIPS WITH THE CAPABILITIES OF PostgreSQL 10 TO ADMINISTER YOUR DATABASE MORE EFFICIENTLY MONITOR, TUNE, SECURE AND PROTECT YOUR DATABASE FOR OPTIMAL PERFORMANCE A STEP-BY-STEP, RECIPE-BASED GUIDE TO HELP YOU TACKLE ANY PROBLEM IN PostgreSQL 10 ADMINISTRATION WITH EASE BOOK DESCRIPTION PostgreSQL IS A POWERFUL, OPEN SOURCE DATABASE MANAGEMENT SYSTEM WITH AN ENVIABLE REPUTATION FOR HIGH PERFORMANCE AND STABILITY. WITH MANY NEW FEATURES IN ITS ARSENAL, PostgreSQL 10 ALLOWS USERS TO SCALE UP THEIR PostgreSQL INFRASTRUCTURE. THIS BOOK TAKES A STEP-BY-STEP, RECIPE-BASED APPROACH TO EFFECTIVE PostgreSQL ADMINISTRATION. THROUGHOUT THIS BOOK, YOU WILL BE INTRODUCED TO THESE NEW FEATURES SUCH AS LOGICAL REPLICATION, NATIVE TABLE PARTITIONING, ADDITIONAL QUERY PARALLELISM, AND MUCH MORE. YOU WILL LEARN HOW TO TACKLE A VARIETY OF PROBLEMS THAT ARE BASICALLY THE PAIN POINTS FOR ANY DATABASE ADMINISTRATOR - FROM CREATING TABLES TO MANAGING VIEWS, FROM IMPROVING PERFORMANCE TO SECURING YOUR DATABASE. MORE IMPORTANTLY, THE BOOK PAYS SPECIAL ATTENTION TO TOPICS SUCH AS MONITORING ROLES, BACKUP, AND RECOVERY OF YOUR PostgreSQL 10 DATABASE, ENSURING HIGH AVAILABILITY, CONCURRENCY, AND REPLICATION. BY THE END OF THIS BOOK, YOU WILL KNOW EVERYTHING YOU NEED TO KNOW TO BE THE GO-TO PostgreSQL EXPERT IN YOUR ORGANIZATION. WHAT YOU WILL LEARN GET TO GRIPS WITH THE NEWLY RELEASED PostgreSQL 10 FEATURES TO IMPROVE DATABASE PERFORMANCE AND RELIABILITY MANAGE OPEN SOURCE PostgreSQL VERSIONS 10 ON VARIOUS PLATFORMS. EXPLORE BEST PRACTICES FOR PLANNING AND DESIGNING LIVE DATABASES SELECT AND IMPLEMENT ROBUST BACKUP AND RECOVERY TECHNIQUES IN PostgreSQL 10 EXPLORE CONCISE AND CLEAR GUIDANCE ON REPLICATION AND HIGH AVAILABILITY DISCOVER ADVANCED TECHNICAL TIPS FOR

EXPERIENCED USERS WHO THIS BOOK IS FOR THIS BOOK IS FOR DATABASE ADMINISTRATORS, DATA ARCHITECTS, DEVELOPERS, OR ANYONE WITH AN INTEREST IN PLANNING FOR, OR RUNNING, LIVE PRODUCTION DATABASES USING PostgreSQL. IT IS MOST SUITED TO THOSE LOOKING FOR HANDS-ON SOLUTIONS TO ANY PROBLEM ASSOCIATED WITH PostgreSQL ADMINISTRATION.

PostgreSQL Replication - Hans-Jürgen Schning 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.

PgRouting - Regina Obe 2015-10-31

WHAT IS PGRROUTING? IT'S A PostgreSQL EXTENSION FOR DEVELOPING NETWORK ROUTING APPLICATIONS AND DOING GRAPH ANALYSIS. THIS BOOK WILL GIVE YOU ALL THE TOOLS AND INFORMATION YOU NEED TO GET STARTED WITH PGRROUTING, AS WELL AS COMPLETE CODE EXAMPLES AND EVEN HOW TO DEPLOY YOUR PROJECT TO THE WEB.

Instant PostgreSQL Backup and Restore How-to - Shaun Thomas 2013-03-26

FILLED WITH PRACTICAL, STEP-BY-STEP INSTRUCTIONS AND CLEAR EXPLANATIONS FOR THE MOST IMPORTANT AND USEFUL TASKS. THIS HANDS-ON GUIDE PROVIDES A QUICK AND EASY WAY TO BACK UP AND RESTORE YOUR DATABASE USING PostgreSQL. WRITTEN FOR DATABASE ADMINISTRATORS WHO WANT TO CREATE BACKUPS OF THEIR CRITICAL ENTERPRISE DATA AND EFFICIENTLY RESTORE IT USING 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 CRUCIAL 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.

RECENT TRENDS AND ADVANCES IN ARTIFICIAL INTELLIGENCE AND INTERNET OF THINGS - VALENTINA E. BALAS
2019-11-19

THIS BOOK COVERS ALL THE EMERGING TRENDS IN ARTIFICIAL INTELLIGENCE (AI) AND THE INTERNET OF THINGS (IoT). THE INTERNET OF THINGS IS A TERM THAT HAS BEEN INTRODUCED IN RECENT YEARS TO DEFINE DEVICES THAT ARE ABLE TO CONNECT AND TRANSFER DATA TO OTHER DEVICES VIA THE INTERNET. WHILE IoT AND SENSORS HAVE THE ABILITY TO

HARNESS LARGE VOLUMES OF DATA, AI CAN LEARN PATTERNS IN THE DATA AND QUICKLY EXTRACT INSIGHTS IN ORDER TO AUTOMATE TASKS FOR A VARIETY OF BUSINESS BENEFITS. MACHINE LEARNING, AN AI TECHNOLOGY, BRINGS THE ABILITY TO AUTOMATICALLY IDENTIFY PATTERNS AND DETECT ANOMALIES IN THE DATA THAT SMART SENSORS AND DEVICES GENERATE, AND IT CAN HAVE SIGNIFICANT ADVANTAGES OVER TRADITIONAL BUSINESS INTELLIGENCE TOOLS FOR ANALYZING IoT DATA, INCLUDING BEING ABLE TO MAKE OPERATIONAL PREDICTIONS UP TO 20 TIMES EARLIER AND WITH GREATER ACCURACY THAN THRESHOLD-BASED MONITORING SYSTEMS. FURTHER, OTHER AI TECHNOLOGIES, SUCH AS SPEECH RECOGNITION AND COMPUTER VISION CAN HELP EXTRACT INSIGHTS FROM DATA THAT USED TO REQUIRE HUMAN REVIEW. THE POWERFUL COMBINATION OF AI AND IoT TECHNOLOGY IS HELPING TO AVOID UNPLANNED DOWNTIME, INCREASE OPERATING EFFICIENCY, ENABLE NEW PRODUCTS AND SERVICES, AND ENHANCE RISK MANAGEMENT.

GETTING STARTED WITH SQL - THOMAS NIELD
2016-02-11

BUSINESSES ARE GATHERING DATA TODAY AT EXPONENTIAL RATES AND YET FEW PEOPLE KNOW HOW TO ACCESS IT MEANINGFULLY. IF YOU'RE A BUSINESS OR IT PROFESSIONAL, THIS SHORT HANDS-ON GUIDE TEACHES YOU HOW TO PULL AND TRANSFORM DATA WITH SQL IN SIGNIFICANT WAYS. YOU WILL QUICKLY MASTER THE FUNDAMENTALS OF SQL AND LEARN HOW TO CREATE YOUR OWN DATABASES. AUTHOR THOMAS NIELD PROVIDES EXERCISES THROUGHOUT THE BOOK TO HELP YOU PRACTICE YOUR NEWFOUND SQL SKILLS AT HOME, WITHOUT HAVING TO USE A DATABASE SERVER ENVIRONMENT. NOT ONLY WILL YOU LEARN HOW TO USE KEY SQL STATEMENTS TO FIND AND MANIPULATE YOUR DATA, BUT YOU'LL ALSO DISCOVER HOW TO EFFICIENTLY DESIGN AND MANAGE DATABASES TO MEET YOUR NEEDS. YOU'LL ALSO LEARN HOW TO: EXPLORE RELATIONAL DATABASES, INCLUDING LIGHTWEIGHT AND CENTRALIZED MODELS USE SQLITE AND SQLITESTUDIO TO CREATE LIGHTWEIGHT DATABASES IN MINUTES QUERY AND TRANSFORM DATA IN MEANINGFUL WAYS BY USING SELECT, WHERE, GROUP BY, AND ORDER BY JOIN TABLES TO GET A MORE COMPLETE VIEW OF YOUR BUSINESS DATA BUILD YOUR OWN TABLES AND CENTRALIZED DATABASES BY USING NORMALIZED DESIGN PRINCIPLES MANAGE DATA BY LEARNING HOW TO INSERT, DELETE, AND UPDATE RECORDS
HBASE ADMINISTRATION COOKBOOK - YIFENG JIANG
2012-08-16

AS PART OF PACKT'S COOKBOOK SERIES, EACH RECIPE OFFERS A PRACTICAL, STEP-BY-STEP SOLUTION TO COMMON PROBLEMS FOUND IN HBASE ADMINISTRATION. THIS BOOK IS FOR HBASE ADMINISTRATORS, DEVELOPERS, AND WILL EVEN HELP HADOOP ADMINISTRATORS. YOU ARE NOT REQUIRED TO HAVE HBASE EXPERIENCE, BUT ARE EXPECTED TO HAVE A BASIC UNDERSTANDING OF HADOOP AND MAPREDUCE.

MASTERING ZABBIX - SECOND EDITION - 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.

LINUX: EMBEDDED DEVELOPMENT - ALEXANDRU VADUVA

2016-09-27

LEVERAGE THE POWER OF LINUX TO DEVELOP CAPTIVATING AND POWERFUL EMBEDDED LINUX PROJECTS ABOUT THIS BOOK EXPLORE THE BEST PRACTICES FOR ALL EMBEDDED PRODUCT DEVELOPMENT STAGES LEARN ABOUT THE COMPELLING FEATURES OFFERED BY THE YOCTO PROJECT, SUCH AS CUSTOMIZATION, VIRTUALIZATION, AND MANY MORE MINIMIZE PROJECT COSTS BY USING OPEN SOURCE TOOLS AND PROGRAMS

Who This Book Is For If you are a developer who wants to build embedded systems using Linux, this book is for you. It is the ideal guide for you if you want to become proficient and broaden your knowledge. A basic understanding of C programming and experience with systems programming is needed. Experienced embedded Yocto developers will find new insight into working methodologies and ARM specific development competence.

What You Will Learn Use the Yocto Project in the embedded Linux development process Get familiar with and customize the bootloader for a board Discover more about real-time layer, security, virtualization, CGL, and LSB See development workflows for the U-Boot and the Linux kernel, including debugging and optimization Understand the open source licensing requirements and how to comply with them when cohabiting with proprietary programs Optimize your production systems by reducing the size of both the Linux kernel and root filesystems Understand device trees and make changes to accommodate new hardware on your device Design and write multi-threaded applications using POSIX threads Measure real-time latencies and tune the Linux kernel to minimize them

In Detail Embedded Linux is a complete Linux distribution employed to operate embedded devices such as smartphones, tablets, PDAs, set-top boxes, and many more. An example of an embedded Linux distribution is Android, developed by Google. This learning path starts with the module Learning Embedded Linux Using the Yocto Project. It introduces embedded Linux software and hardware architecture and presents information about the bootloader. You will go through Linux kernel features and source code and get an overview of the Yocto Project components available. The next module Embedded Linux Projects Using Yocto Project Cookbook takes you through the installation of a professional embedded Yocto setup, then advises you on best practices. Finally, it explains how to quickly get hands-on with the Freescale ARM ecosystem and community layer using the affordable and open source Wandboard embedded board. Moving ahead, the final module Mastering Embedded Linux Programming takes you through the product cycle and gives you an in-depth description of the components and options that are available at each stage. You will see how functions are split between processes and the usage of POSIX threads. By the end of this learning path, your capabilities will be enhanced to create robust and versatile embedded projects. This learning path combines some of the best that Packt has to offer in

ONE COMPLETE, CURATED PACKAGE. IT INCLUDES CONTENT FROM THE FOLLOWING PACKT PRODUCTS: LEARNING EMBEDDED LINUX USING THE YOCTO PROJECT BY ALEXANDRU VADUVA EMBEDDED LINUX PROJECTS USING YOCTO PROJECT COOKBOOK BY ALEX GONZALEZ MASTERING EMBEDDED LINUX PROGRAMMING BY CHRIS SIMMONDS STYLE AND APPROACH THIS COMPREHENSIVE, STEP-BY-STEP, PRAGMATIC GUIDE ENABLES YOU TO BUILD CUSTOM VERSIONS OF LINUX FOR NEW EMBEDDED SYSTEMS WITH EXAMPLES THAT ARE IMMEDIATELY APPLICABLE TO YOUR EMBEDDED DEVELOPMENTS. PRACTICAL EXAMPLES PROVIDE AN EASY-TO-FOLLOW WAY TO LEARN YOCTO PROJECT DEVELOPMENT USING THE BEST PRACTICES AND WORKING METHODOLOGIES. COUPLED WITH HINTS AND BEST PRACTICES, THIS WILL HELP YOU UNDERSTAND EMBEDDED LINUX BETTER.

INFORMATICS FOR HEALTH: CONNECTED CITIZEN-LED WELLNESS AND POPULATION HEALTH - R. RANDELL
2017-05-30

OVER RECENT YEARS THERE HAS BEEN MAJOR INVESTMENT IN RESEARCH INFRASTRUCTURE TO HARNESS THE POTENTIAL OF ROUTINELY COLLECTED HEALTH DATA. IN 2013, THE FARR INSTITUTE FOR HEALTH INFORMATICS RESEARCH WAS ESTABLISHED IN THE UK, UNDERTAKING HEALTH INFORMATICS RESEARCH TO ENHANCE PATIENT AND PUBLIC HEALTH BY THE ANALYSIS OF DATA FROM MULTIPLE SOURCES AND UNLEASHING THE VALUE OF VAST SOURCES OF CLINICAL, BIOLOGICAL, POPULATION AND ENVIRONMENTAL DATA FOR PUBLIC BENEFIT. THE MEDICAL INFORMATICS EUROPE (MIE) CONFERENCE IS ALREADY ESTABLISHED AS A KEY EVENT IN THE CALENDAR OF THE EUROPEAN FEDERATION OF MEDICAL INFORMATICS (EFMI); THE FARR INSTITUTE HAS BEEN ESTABLISHING A CONFERENCE SERIES. FOR 2017, THE DECISION WAS MADE TO COMBINE THE POWER AND ESTABLISHED REPUTATIONAL EXCELLENCE OF EFMI WITH THE EMERGING AND INNOVATIVE RESEARCH OF THE FARR INSTITUTE COMMUNITY TO CREATE 'INFORMATICS FOR HEALTH 2017', A JOINT CONFERENCE THAT CREATES A SCIENTIFIC FORUM ALLOWING THESE TWO COMMUNITIES TO SHARE KNOWLEDGE, INSIGHTS AND EXPERIENCE, ADVANCE CROSS-DISCIPLINARY THINKING, AND STIMULATE CREATIVITY. THIS BOOK PRESENTS THE 116 FULL PAPERS PRESENTED AT THAT CONFERENCE, HELD IN MANCHESTER, UK IN APRIL 2017. THE PAPERS ARE GROUPED UNDER FIVE HEADINGS: CONNECTED AND DIGITAL HEALTH; HEALTH DATA SCIENCE; HUMAN, ORGANISATIONAL, AND SOCIAL ASPECTS; KNOWLEDGE MANAGEMENT; AND QUALITY, SAFETY, AND PATIENT OUTCOMES, AND THE BOOK WILL BE OF INTEREST TO ALL THOSE WHOSE WORK INVOLVES THE ANALYSIS AND USE OF DATA TO SUPPORT MORE EFFECTIVE DELIVERY OF HEALTHCARE.

GETTING STARTED WITH IMPALA - JOHN RUSSELL
2014-09-25

LEARN HOW TO WRITE, TUNE, AND PORT SQL QUERIES AND OTHER STATEMENTS FOR A BIG DATA ENVIRONMENT, USING IMPALA—THE MASSIVELY PARALLEL PROCESSING SQL QUERY ENGINE FOR APACHE HADOOP. THE BEST PRACTICES IN THIS PRACTICAL GUIDE HELP YOU DESIGN DATABASE SCHEMAS THAT NOT ONLY INTEROPERATE WITH OTHER HADOOP COMPONENTS, AND ARE CONVENIENT FOR ADMINISTRATORS TO MANAGE AND MONITOR, BUT ALSO ACCOMMODATE FUTURE

EXPANSION IN DATA SIZE AND EVOLUTION OF SOFTWARE CAPABILITIES. WRITTEN BY JOHN RUSSELL, DOCUMENTATION LEAD FOR THE CLouDERA IMPALA PROJECT, THIS BOOK GETS YOU WORKING WITH THE MOST RECENT IMPALA RELEASES QUICKLY. IDEAL FOR DATABASE DEVELOPERS AND BUSINESS ANALYSTS, THE LATEST REVISION COVERS ANALYTICS FUNCTIONS, COMPLEX TYPES, INCREMENTAL STATISTICS, SUBQUERIES, AND SUBMISSION TO THE APACHE INCUBATOR. GETTING STARTED WITH IMPALA INCLUDES ADVICE FROM CLouDERA'S DEVELOPMENT TEAM, AS WELL AS INSIGHTS FROM ITS CONSULTING ENGAGEMENTS WITH CUSTOMERS. LEARN HOW IMPALA INTEGRATES WITH A WIDE RANGE OF HADOOP COMPONENTS ATTAIN HIGH PERFORMANCE AND SCALABILITY FOR HUGE DATA SETS ON PRODUCTION CLUSTERS EXPLORE COMMON DEVELOPER TASKS, SUCH AS PORTING CODE TO IMPALA AND OPTIMIZING PERFORMANCE USE TUTORIALS FOR WORKING WITH BILLION-ROW TABLES, DATE- AND TIME-BASED VALUES, AND OTHER TECHNIQUES LEARN HOW TO TRANSITION FROM RIGID SCHEMAS TO A FLEXIBLE MODEL THAT EVOLVES AS NEEDS CHANGE TAKE A DEEP DIVE INTO JOINS AND THE ROLES OF STATISTICS

SCALING YOUR NODEJS APPS - FERNANDO DOGLIO
2018-11-28

TAKE YOUR NODEJS APPLICATION INTO PRODUCTION-READY STATUS, CAPABLE OF SCALING UP TO WHATEVER YOUR NEEDS MIGHT BE. YOU'LL DISCOVER THAT ARCHITECTING FOR SUCCESSFUL, POPULAR SITES IS AN ESSENTIAL TOOL OF ANY PROFESSIONAL NODEJS DEVELOPER, AND LEARNING TO SCALE YOUR OWN APPLICATIONS IS A GREAT PLACE TO START. USING THIS BOOK YOU WILL LEARN WHEN TO SCALE, WHAT FACTORS SHOULD TRIGGER SCALING, AND WHAT ARCHITECTURAL TECHNIQUES ARE BEST SUITED FOR SCALING. YOU WILL ALSO EXPLORE COMMON PITFALLS THAT ARISE WHEN SCALING A NODEJS APPLICATION AND SOLUTIONS TO CORRECT THEM. INCLUDING ANALYSES OF SUCCESS CASES AT THE LARGEST-SCALE COMPANIES, SUCH AS NETFLIX AND PAYPAL, THIS BOOK WILL GET YOU STARTED WITH SCALING IN NO TIME AT ALL. WHAT YOU'LL LEARN DETERMINE WHAT FACTORS SHOULD TRIGGER THE NEED TO SCALE DISCOVER DIFFERENT ARCHITECTURAL PATTERNS THAT LEND THEMSELVES TO SCALING RESOLVE PROBLEMS THAT ARISE WHEN SCALING UP A NODEJS APPLICATION MONITOR A PLATFORM IN ORDER TO UNDERSTAND WHEN TO START SCALING WHO THIS BOOK IS FOR THE MAIN AUDIENCE FOR THIS BOOK ARE NODEJS DEVELOPERS WITH A MID-LEVEL UNDERSTANDING OF THE TECHNOLOGY. NOVICE NODE USERS WILL ALSO BENEFIT FROM THE COVERAGE OF GENERIC SCALING-RELATED TOPICS.

INFORMATION SCIENCES AND SYSTEMS 2014 - TADEUSZ CZACHORSKI
2014-09-24

BASED ON A RIGOROUS SELECTION OF SUBMISSIONS TO THE 29TH INTERNATIONAL SYMPOSIUM ON COMPUTER AND INFORMATION SCIENCES (ISCIS 2014), THIS BOOKS INCLUDES SOME OF THE MOST RECENT IDEAS AND TECHNICAL RESULTS IN COMPUTER SYSTEMS, COMPUTER SCIENCE, AND COMPUTER-COMMUNICATION NETWORKS. IT OFFERS THE READER A TIMELY ACCESS TO INNOVATIVE RESEARCH AND ADVANCES IN COMPUTING AND COMMUNICATIONS FROM MANY DIFFERENT AREAS OF THE WORLD. THE TOPICS COVERED INCLUDE (BUT ARE NOT LIMITED TO) COMPUTER

ARCHITECTURES AND DIGITAL SYSTEMS, ALGORITHMS, THEORY, SOFTWARE ENGINEERING, DATA ENGINEERING, COMPUTATIONAL INTELLIGENCE, SYSTEM SECURITY, COMPUTER SYSTEMS AND NETWORKS, PERFORMANCE MODELING AND ANALYSIS, DISTRIBUTED AND PARALLEL SYSTEMS, BIOINFORMATICS, COMPUTER VISION AND SIGNIFICANT APPLICATIONS SUCH AS MEDICAL INFORMATICS AND IMAGING. THE 29TH INTERNATIONAL SYMPOSIUM ON COMPUTER AND INFORMATION SCIENCES (ISCIS 2014) TOOK PLACE IN KRAKOW OLD CITY, POLAND ON OCTOBER, 27-8, 2014.

OPENSTACK OPERATIONS GUIDE - TOM FIFIELD
2014-04-24

DESIGN, DEPLOY, AND MAINTAIN YOUR OWN PRIVATE OR PUBLIC INFRASTRUCTURE AS A SERVICE (IaaS), USING THE OPEN SOURCE OPENSTACK PLATFORM. IN THIS PRACTICAL GUIDE, EXPERIENCED DEVELOPERS AND OPENSTACK CONTRIBUTORS SHOW YOU HOW TO BUILD CLOUDS BASED ON REFERENCE ARCHITECTURES, AS WELL AS HOW TO PERFORM DAILY ADMINISTRATION TASKS. DESIGNED FOR HORIZONTAL SCALABILITY, OPENSTACK LETS YOU BUILD A CLOUD BY INTEGRATING SEVERAL TECHNOLOGIES. THIS APPROACH PROVIDES FLEXIBILITY, BUT KNOWING WHICH OPTIONS TO USE CAN BE BEWILDERING. ONCE YOU COMPLETE THIS BOOK, YOU'LL KNOW THE RIGHT QUESTIONS TO ASK WHILE YOU ORGANIZE COMPUTE, STORAGE, AND NETWORKING RESOURCES. IF YOU ALREADY KNOW HOW TO MANAGE MULTIPLE UBUNTU MACHINES AND MAINTAIN MYSQL, YOU'RE READY TO: SET UP AUTOMATED DEPLOYMENT AND CONFIGURATION DESIGN A SINGLE-NODE CLOUD CONTROLLER USE METRICS TO IMPROVE SCALABILITY EXPLORE COMPUTE NODES, NETWORK DESIGN, AND STORAGE INSTALL OPENSTACK PACKAGES USE AN EXAMPLE ARCHITECTURE TO HELP SIMPLIFY DECISION-MAKING BUILD A WORKING ENVIRONMENT TO EXPLORE AN IaaS CLOUD MANAGE USERS, PROJECTS, AND QUOTAS TACKLE MAINTENANCE, DEBUGGING, AND NETWORK TROUBLESHOOTING MONITOR, LOG, BACKUP, AND RESTORE

INTERNET OF THINGS - RAJKUMAR BUYYA 2016-05-11
INTERNET OF THINGS: PRINCIPLES AND PARADIGMS CAPTURES THE STATE-OF-THE-ART RESEARCH IN INTERNET OF THINGS, ITS APPLICATIONS, ARCHITECTURES, AND TECHNOLOGIES. THE BOOK IDENTIFIES POTENTIAL FUTURE DIRECTIONS AND TECHNOLOGIES THAT FACILITATE INSIGHT INTO NUMEROUS SCIENTIFIC, BUSINESS, AND CONSUMER APPLICATIONS. THE INTERNET OF THINGS (IoT) PARADIGM PROMISES TO MAKE ANY ELECTRONIC DEVICES PART OF THE INTERNET ENVIRONMENT. THIS NEW PARADIGM OPENS THE DOORS TO NEW INNOVATIONS AND INTERACTIONS BETWEEN PEOPLE AND THINGS THAT WILL ENHANCE THE QUALITY OF LIFE AND UTILIZATION OF SCARCE RESOURCES. TO HELP REALIZE THE FULL POTENTIAL OF IoT, THE BOOK ADDRESSES ITS NUMEROUS CHALLENGES AND DEVELOPS THE CONCEPTUAL AND TECHNOLOGICAL SOLUTIONS FOR TACKLING THEM. THESE CHALLENGES INCLUDE THE DEVELOPMENT OF SCALABLE ARCHITECTURE, MOVING FROM CLOSED SYSTEMS TO OPEN SYSTEMS, DESIGNING INTERACTION PROTOCOLS, AUTONOMIC MANAGEMENT, AND THE PRIVACY AND ETHICAL ISSUES AROUND DATA SENSING, STORAGE, AND PROCESSING. ADDRESSES THE MAIN CONCEPTS AND FEATURES OF THE IoT PARADIGM DESCRIBES DIFFERENT ARCHITECTURES FOR MANAGING IoT

PLATFORMS PROVIDES INSIGHT ON TRUST, SECURITY, AND PRIVACY IN IoT ENVIRONMENTS DESCRIBES DATA MANAGEMENT TECHNIQUES APPLIED TO THE IoT ENVIRONMENT EXAMINES THE KEY ENABLERS AND SOLUTIONS TO ENABLE PRACTICAL IoT SYSTEMS LOOKS AT THE KEY DEVELOPMENTS THAT SUPPORT NEXT GENERATION IoT PLATFORMS INCLUDES INPUT FROM EXPERT CONTRIBUTORS FROM BOTH ACADEMIA AND INDUSTRY ON BUILDING AND DEPLOYING IoT PLATFORMS AND APPLICATIONS

PRO SQL SERVER ON LINUX - BOB WARD 2018-10-27
GET SQL SERVER UP AND RUNNING ON THE LINUX OPERATING SYSTEM AND CONTAINERS. NO DATABASE PROFESSIONAL MANAGING OR DEVELOPING SQL SERVER ON LINUX WILL WANT TO BE WITHOUT THIS DEEP AND AUTHORITATIVE GUIDE BY ONE OF THE MOST RESPECTED EXPERTS ON SQL SERVER IN THE INDUSTRY. GET AN INSIDE LOOK AT HOW SQL SERVER FOR LINUX WORKS THROUGH THE EYES OF AN ENGINEER ON THE TEAM THAT MADE IT POSSIBLE. MICROSOFT SQL SERVER IS ONE OF THE LEADING DATABASE PLATFORMS IN THE INDUSTRY, AND SQL SERVER 2017 OFFERS DEVELOPERS AND ADMINISTRATORS THE ABILITY TO RUN A DATABASE MANAGEMENT SYSTEM ON LINUX, OFFERING PROVEN SUPPORT FOR ENTERPRISE-LEVEL FEATURES AND WITHOUT ONEROUS LICENSING TERMS. ORGANIZATIONS INVESTED IN MICROSOFT AND OPEN SOURCE TECHNOLOGIES ARE NOW ABLE TO RUN A UNIFIED DATABASE PLATFORM ACROSS ALL THEIR OPERATING SYSTEM INVESTMENTS. ORGANIZATIONS ARE FURTHER ABLE TO TAKE FULL ADVANTAGE OF CONTAINERIZATION THROUGH POPULAR PLATFORMS SUCH AS DOCKER AND KUBERNETES. PRO SQL SERVER ON LINUX WALKS YOU THROUGH INSTALLING AND CONFIGURING SQL SERVER ON THE LINUX PLATFORM. THE AUTHOR IS ONE OF THE PRINCIPAL ARCHITECTS OF SQL SERVER FOR LINUX, AND BRINGS A CORRESPONDING DEPTH OF KNOWLEDGE THAT NO DATABASE PROFESSIONAL OR DEVELOPER ON LINUX WILL WANT TO BE WITHOUT. THROUGHOUT THIS BOOK ARE INTERNALS OF HOW SQL SERVER ON LINUX WORKS INCLUDING AN IN DEPTH LOOK AT THE INNOVATIVE ARCHITECTURE. THE BOOK COVERS DAY-TO-DAY MANAGEMENT AND TROUBLESHOOTING, INCLUDING DIAGNOSTICS AND MONITORING, THE USE OF CONTAINERS TO MANAGE DEPLOYMENTS, AND THE USE OF SELF-TUNING AND THE IN-MEMORY CAPABILITIES. ALSO COVERED ARE PERFORMANCE CAPABILITIES, HIGH AVAILABILITY, AND DISASTER RECOVERY ALONG WITH SECURITY AND ENCRYPTION. THE BOOK COVERS THE PRODUCT-SPECIFIC KNOWLEDGE TO BRING SQL SERVER AND ITS POWERFUL FEATURES TO LIFE ON THE LINUX PLATFORM, INCLUDING COVERAGE OF CONTAINERIZATION THROUGH DOCKER AND KUBERNETES. WHAT YOU'LL LEARN LEARN ABOUT THE HISTORY AND INTERNAL OF THE UNIQUE SQL SERVER ON LINUX ARCHITECTURE. INSTALL AND CONFIGURE MICROSOFT'S FLAGSHIP DATABASE PRODUCT ON THE LINUX PLATFORM MANAGE YOUR DEPLOYMENTS USING CONTAINER TECHNOLOGY THROUGH DOCKER AND KUBERNETES KNOW THE BASICS OF BUILDING DATABASES, THE T-SQL LANGUAGE, AND DEVELOPING APPLICATIONS AGAINST SQL SERVER ON LINUX USE TOOLS AND FEATURES TO DIAGNOSE, MANAGE, AND MONITOR SQL SERVER ON LINUX SCALE YOUR APPLICATION BY LEARNING THE PERFORMANCE CAPABILITIES OF SQL SERVER DELIVER HIGH AVAILABILITY AND DISASTER

RECOVERY TO ENSURE BUSINESS CONTINUITY SECURE YOUR DATABASE FROM ATTACK, AND PROTECT SENSITIVE DATA THROUGH ENCRYPTION TAKE ADVANTAGE OF POWERFUL FEATURES SUCH AS FAILOVER CLUSTERS, AVAILABILITY GROUPS, IN-MEMORY SUPPORT, AND SQL SERVER'S SELF-TUNING ENGINE LEARN HOW TO MIGRATE YOUR DATABASE FROM OLDER RELEASES OF SQL SERVER AND OTHER DATABASE PLATFORMS SUCH AS ORACLE AND POSTGRESQL BUILD AND MAINTAIN SCHEMAS, AND PERFORM MANAGEMENT TASKS FROM BOTH GUI AND COMMAND LINE WHO THIS BOOK IS FOR DEVELOPERS AND IT PROFESSIONALS WHO ARE NEW TO SQL SERVER AND WISH TO CONFIGURE IT ON THE LINUX OPERATING SYSTEM. THIS BOOK IS ALSO USEFUL TO THOSE FAMILIAR WITH SQL SERVER ON WINDOWS WHO WANT TO LEARN THE UNIQUE ASPECTS OF MANAGING SQL SERVER ON THE LINUX PLATFORM AND DOCKER CONTAINERS. READERS SHOULD HAVE A GRASP OF RELATIONAL DATABASE CONCEPTS AND BE COMFORTABLE WITH THE SQL LANGUAGE.

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.

SOFTWARE ENGINEERING IN IoT, BIG DATA, CLOUD AND MOBILE COMPUTING - HAENGKON KIM 2020-12-26

THIS EDITED BOOK PRESENTS SCIENTIFIC RESULTS OF THE INTERNATIONAL SEMI-VIRTUAL WORKSHOP ON SOFTWARE ENGINEERING IN IoT, BIG DATA, CLOUD AND MOBILE COMPUTING (SE-ICBM 2020) WHICH WAS HELD ON OCTOBER 15, 2020, AT SOONGSIL UNIVERSITY, SEOUL, KOREA. THE AIM OF THIS WORKSHOP WAS TO BRING TOGETHER RESEARCHERS AND SCIENTISTS, BUSINESSMEN AND ENTREPRENEURS, TEACHERS, ENGINEERS, COMPUTER USERS, AND STUDENTS TO DISCUSS THE NUMEROUS FIELDS OF COMPUTER SCIENCE AND TO SHARE THEIR EXPERIENCES AND EXCHANGE NEW IDEAS AND INFORMATION IN A MEANINGFUL WAY. RESEARCH RESULTS ABOUT ALL ASPECTS (THEORY, APPLICATIONS AND TOOLS) OF COMPUTER AND INFORMATION SCIENCE, AND TO DISCUSS THE PRACTICAL CHALLENGES ENCOUNTERED ALONG THE WAY AND THE SOLUTIONS ADOPTED TO SOLVE THEM. THE WORKSHOP ORGANIZERS SELECTED THE BEST PAPERS FROM THOSE PAPERS ACCEPTED FOR PRESENTATION AT THE WORKSHOP. THE PAPERS WERE CHOSEN BASED ON REVIEW SCORES SUBMITTED BY MEMBERS OF THE PROGRAM COMMITTEE AND UNDERWENT FURTHER RIGOROUS ROUNDS OF REVIEW. FROM THIS SECOND ROUND OF REVIEW, 17 OF THE CONFERENCE'S MOST PROMISING PAPERS ARE THEN PUBLISHED IN THIS SPRINGER (SCI) BOOK AND NOT THE CONFERENCE PROCEEDINGS. WE IMPATIENTLY AWAIT THE IMPORTANT

CONTRIBUTIONS THAT WE KNOW THESE AUTHORS WILL BRING TO THE FIELD OF COMPUTER AND INFORMATION SCIENCE.

INTRODUCING MICROSOFT SQL SERVER 2019 - KELLYN GORMAN 2020-04-27

EXPLORE THE IMPRESSIVE STORAGE AND ANALYTIC TOOLS AVAILABLE WITH THE IN-CLOUD AND ON-PREMISES VERSIONS OF MICROSOFT SQL SERVER 2019. KEY FEATURES GAIN INSIGHTS INTO WHAT'S NEW IN SQL SERVER 2019 UNDERSTAND USE CASES AND CUSTOMER SCENARIOS THAT CAN BE IMPLEMENTED WITH SQL SERVER 2019 DISCOVER NEW CROSS-PLATFORM TOOLS THAT SIMPLIFY MANAGEMENT AND ANALYSIS BOOK DESCRIPTION MICROSOFT SQL SERVER COMES EQUIPPED WITH INDUSTRY-LEADING FEATURES AND THE BEST ONLINE TRANSACTION PROCESSING CAPABILITIES. IF YOU ARE LOOKING TO WORK WITH DATA PROCESSING AND MANAGEMENT, GETTING UP TO SPEED WITH MICROSOFT SERVER 2019 IS KEY. INTRODUCING SQL SERVER 2019 TAKES YOU THROUGH THE LATEST FEATURES IN SQL SERVER 2019 AND THEIR IMPORTANCE. YOU WILL LEARN TO UNLOCK FASTER QUERYING SPEEDS AND UNDERSTAND HOW TO LEVERAGE THE NEW AND IMPROVED SECURITY FEATURES TO BUILD ROBUST DATA MANAGEMENT SOLUTIONS. FURTHER CHAPTERS WILL ASSIST YOU WITH INTEGRATING, MANAGING, AND ANALYZING ALL DATA, INCLUDING RELATIONAL, NOSQL, AND UNSTRUCTURED BIG DATA USING SQL SERVER 2019. DEDICATED SECTIONS IN THE BOOK WILL ALSO DEMONSTRATE HOW YOU CAN USE SQL SERVER 2019 TO LEVERAGE DATA PROCESSING PLATFORMS, SUCH AS APACHE HADOOP AND SPARK, AND CONTAINERIZATION TECHNOLOGIES LIKE DOCKER AND KUBERNETES TO CONTROL YOUR DATA AND EFFICIENTLY MONITOR IT. BY THE END OF THIS BOOK, YOU'LL BE WELL VERSED WITH ALL THE FEATURES OF MICROSOFT SQL SERVER 2019 AND UNDERSTAND HOW TO USE THEM CONFIDENTLY TO BUILD ROBUST DATA MANAGEMENT SOLUTIONS. WHAT YOU WILL LEARN BUILD A CUSTOM CONTAINER IMAGE WITH A DOCKERFILE DEPLOY AND RUN THE SQL SERVER 2019 CONTAINER IMAGE UNDERSTAND HOW TO USE SQL SERVER ON LINUX MIGRATE EXISTING PAGINATED REPORTS TO POWER BI REPORT SERVER LEARN TO QUERY HADOOP DISTRIBUTED FILE SYSTEM (HDFS) DATA USING AZURE DATA STUDIO UNDERSTAND THE BENEFITS OF IN-MEMORY OLTP WHO THIS BOOK IS FOR THIS BOOK IS FOR DATABASE ADMINISTRATORS, ARCHITECTS, BIG DATA ENGINEERS, OR ANYONE WHO HAS EXPERIENCE WITH SQL SERVER AND WANTS TO EXPLORE AND IMPLEMENT THE NEW FEATURES IN SQL SERVER 2019. BASIC WORKING KNOWLEDGE OF SQL SERVER AND RELATIONAL DATABASE MANAGEMENT SYSTEM (RDBMS) IS REQUIRED.

COMPUTATIONAL SYSTEMS BIOLOGY - ANDRES KRIETE 2013-11-26

THIS COMPREHENSIVELY REVISED SECOND EDITION OF COMPUTATIONAL SYSTEMS BIOLOGY DISCUSSES THE EXPERIMENTAL AND THEORETICAL FOUNDATIONS OF THE FUNCTION OF BIOLOGICAL SYSTEMS AT THE MOLECULAR, CELLULAR OR ORGANISMAL LEVEL OVER TEMPORAL AND SPATIAL SCALES, AS SYSTEMS BIOLOGY ADVANCES TO PROVIDE CLINICAL SOLUTIONS TO COMPLEX MEDICAL PROBLEMS. IN PARTICULAR THE WORK FOCUSES ON THE

ENGINEERING OF BIOLOGICAL SYSTEMS AND NETWORK MODELING. LOGICAL INFORMATION FLOW AIDS UNDERSTANDING OF BASIC BUILDING BLOCKS OF LIFE THROUGH DISEASE PHENOTYPES EVOLVED PRINCIPLES GIVES INSIGHT INTO UNDERLYING ORGANIZATIONAL PRINCIPLES OF BIOLOGICAL ORGANIZATIONS, AND SYSTEMS PROCESSES, GOVERNING FUNCTIONS SUCH AS ADAPTATION OR RESPONSE PATTERNS COVERAGE OF TECHNICAL TOOLS AND SYSTEMS HELPS RESEARCHERS TO UNDERSTAND AND RESOLVE SPECIFIC SYSTEMS BIOLOGY PROBLEMS USING ADVANCED COMPUTATION MULTI-SCALE MODELING ON DISPARATE SCALES AIDS RESEARCHERS UNDERSTANDING OF DEPENDENCIES AND CONSTRAINTS OF SPATIO-TEMPORAL RELATIONSHIPS FUNDAMENTAL TO BIOLOGICAL ORGANIZATION AND FUNCTION. *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.

OPEN LIFE - HENRIK INGO 2006-08

THE HOT TOPICS IN INFORMATION TECHNOLOGY RIGHT NOW ARE LINUX AND OPEN SOURCE. BUT WHAT DOES OPEN SOURCE OFFER THOSE, WHO MAY NOT SEE THEIR COMPUTER AS A MATTER OF LIFE AND DEATH? OPEN LIFE: THE PHILOSOPHY OF OPEN SOURCE SPOTLIGHTS THE PEOPLE, BUSINESSES, VALUES AND PRACTICES OF THE OPEN SOURCE WORLD. DIVIDED INTO FOUR PARTS, OPEN LIFE STARTS RATHER PHILOSOPHICALLY BY COMPARING THE CONCEPTS OF OPENNESS AND MEAN-SPIRITEDNESS HIGHLIGHTING THE LATTER'S DEVIIOUS IMPACT ON OUR LIFE. PART TWO EXPLORES THE OPEN SOURCE CULTURE FROM THE TIME LINUS TORVALDS BEGAN WRITING CODE FOR HIS NEW OPERATING SYSTEM, HOW HE BEHAVES AS A LEADER, AND STATING THE VIRTUES OF A PROGRAMMER. PART THREE REVIEWS SOME OPEN SOURCE BUSINESS MODELS AND EVALUATES BOTH THEIR ECONOMIC AND ETHICAL SUSTAINABILITY. LEAVING THE WORLD OF SOFTWARE BEHIND, PART FOUR CONSIDERS HOW OPEN BUSINESS MODELS CAN BE APPLIED IN FIELDS AS DIVERSE AS MINING, LITERATURE, AND FASHION DESIGN.