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Implement a Centralized Cloud Storage Infrastructure with Oracle Automatic Storage Management Build and manage a scalable, highly available cloud storage solution. Filled with detailed examples and best practices, this Oracle Press guide explains how to set up a complete cloud-based storage system using Oracle Automatic Storage Management. Find out how to prepare hardware, build disk groups, efficiently allocate storage space, and handle

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security. Database Cloud Storage: The Essential Guide to Oracle Automatic Storage Management shows how to monitor your system, maximize throughput, and ensure consistency across servers and clusters. Set up and configure Oracle Automatic Storage Management Discover and manage disks and establish disk groups Create, clone, and administer Oracle databases Consolidate resources with Oracle Private Database Cloud Control access, encrypt files, and assign user privileges Integrate replication, file tagging, and automatic failover Employ pre-engineered private cloud database consolidation tools Check for data consistency and resync failed disks Code examples in the book are available for download Master your virtual environment with

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*the ultimate vSphere guide Mastering
VMware vSphere 6 is the fully updated
edition of the bestselling guide to
VMware's virtualization solution. With
comprehensive coverage of this
industry-leading toolset, this book acts
as an informative guide and valuable
reference. Step-by-step instruction
walks you through installation,
configuration, operation, security
processes, and much more as you
conquer the management and
automation of your virtual environment.
Written by certified VMware vExperts,
this indispensable guide provides
hands-on instruction and detailed
conceptual explanations, anchored by
practical applications and real-world
examples. This book is the ultimate
guide to vSphere, helping
administrators master their virtual
environment. Learn to: Install,*

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configure, and manage the vCenter Server components Leverage the Support Tools to provide maintenance and updates Create and configure virtual networks, storage devices, and virtual machines Implement the latest features to ensure compatibility and flexibility Manage resource allocation and utilization to meet application needs Monitor infrastructure performance and availability Automate and orchestrate routine administrative tasks Mastering VMware vSphere 6 is what you need to stay up-to-date on VMware's industry-leading software for the virtualized datacenter. The Practical, Authoritative, 360-Degree Technical Guide to Oracle Exadata: From Setup to Administration, Optimization, Tuning, and Troubleshooting The blazingly fast Oracle Exadata Database Machine is

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being embraced by thousands of large-scale users worldwide: by governments, the military, enterprise organizations, cloud service providers, and anyone who needs extreme performance. Now, *Oracle Exadata Expert's Handbook* provides authoritative guidance to running Oracle Exadata with maximum reliability, effectiveness, performance, and efficiency. Six renowned Oracle technology experts have brought together core technical information, experience, best practices, and insider tips in a concise reference. Covering both 11g and 12c versions of Oracle Exadata software, they deliver hands-on coverage of best practices, setup, migration, monitoring, administration, performance tuning, and troubleshooting. Whether you're an Oracle Exadata DBA, DMA, architect,

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or manager, you need these insights.

Get a 360-degree overview of the Oracle Exadata Database Machine Efficiently deploy RAC within the Oracle Exadata ecosystem Fully leverage Storage Cell's extraordinary performance, via Offloading, Smart Scans, and Hybrid Columnar Compression Manage Exadata with OEM 12c: perform setup, configuration, asset/target discovery, and day-to-day administration Tune Oracle Exadata for even better performance Perform Exadata Backup/Recovery/DR with RMAN and Data Guard Migrate to Oracle Exadata from other platforms Use Oracle Exadata with the ZFS Storage Appliance Consolidate within the Exadata Database Cloud Linux Recipes for Oracle DBAs is an example-based book on managing

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Oracle Database in a Linux environment. Covering commonly used distributions such as Red Hat Enterprise Linux and Oracle Enterprise Linux, the book is written for database administrators who need to get work done and lack the luxury of curling up fireside with a stack of Linux documentation. The book is task-oriented: Look up the task to perform. See the solution. Read up on the details. Get the job done. Takes you directly from problem to solution Covers the "right" mix of Linux user and administration tasks for database administrators Respects your time by being succinct and to-the-point What you'll learn Execute Linux commands applicable to Oracle Database administration. Write shell scripts to automate critical DBA tasks. Monitor, tune, and optimize a Linux server to

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run Oracle Database. Perform Linux system administration tasks relevant to Oracle Database. Implement Oracle real application clusters on Linux. Implement Oracle automatic storage management on Linux. Remotely (and securely!) manage Oracle on Linux. Who this book is for Linux Recipes for Oracle DBAs is a book for Oracle database administrators who want to expertly operate Oracle databases on the Linux operating system. If you're new to Linux, or are migrating from a Unix platform, or just want detailed solutions for tasks that Oracle DBAs perform on Linux servers, this book is for you.

*Cloud Enterprise Architecture
Experiences with Oracle Database 12c
Release 1 on Linux on System z
Virtualizing Oracle Databases on
vSphere*

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*Discover Oracle's Hidden Gems for
Next Generation Database and
Application Migrations (English Edition)*

*The Essential Guide to Oracle
Automatic Storage Management
Virtualize Oracle*

*Business Critical
Databases Database
Infrastructure As a
Service Createspace
Independent Publishing
Platform*

*Virtualize Oracle
Business Critical
Databases, October 2018*

*Update: This book is a
single source of
information for an
Oracle DBA to understand*

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the benefits of virtualization and how to effectively deploy Oracle Databases on VMware's SDDC platform. This book is targeted for DBAs looking at implementing Oracle on a virtualized infrastructure. Key topics include deployment, scaling, troubleshooting and performance tuning. The authors, Charles Kim, George Trujillo, Steven Jones and Sudhir Balasubramanian, have spent a number of years

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focusing on virtualizing Tier-One high performance Oracle platforms. The authors include VMware VCPs, VMware vExperts as well as an Oracle ACE, Oracle ACE Director and hold certifications in the Oracle stack. Imagine a world where your system administrator(s) provisions a fully functional Linux server that is patched with all the up-to-date kernel parameters, updated device drivers, and updated configurations

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in 1 hour. The time that you make the request to the time that you get access to a server that has a fully configured Red Hat 6/7 or Oracle Linux 6/7 environment is within a couple of hours. On top of all this, the build is consistent and reliable every time. This should be a realistic goal for most companies today, and this book can guide you along your journey. IBM® Scale Out Network Attached Storage (SONAS) is a Scale Out NAS

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offering designed to manage vast repositories of information in enterprise environments requiring very large capacities, high levels of performance, and high availability. The IBM SONAS appliance provides a range of reliable, scalable storage solutions for a variety of storage requirements. These capabilities are achieved by using network access protocols such as NFS, CIFS, HTTPS, FTP, and SCP. Using built-in RAID

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technologies, all data is well protected with options to add additional protection through mirroring, replication, snapshots, and backup. These storage systems are also characterized by simple management interfaces that make their installation, administration, and troubleshooting uncomplicated and straightforward. This IBM Redbooks® publication is the companion to the IBM

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Redbooks publication, SONAS Concepts, Architecture, and Planning Guide, SG24-7963. It is intended for storage administrators who have ordered their SONAS solution and are ready to install, customize, and use it. A quick start scenario takes you through common SONAS administration tasks to familiarize you with the SONAS system through the GUI and CLI. Backup and availability scenarios as well as best

practices for setting up
and troubleshooting
hints and tips are
included.

"Addressing the ongoing
quest for teaching
excellence in an
increasingly
technological society,
the information
presented in this volume
addresses how to
effectively implement
teaching technologies
across disciplinary
boundaries. The
scholarly dimensions of
belief, inquiry,
argument, and reflection

in information systems are presented with attention to educational theories of metacognition, technology literacy, and community informatics. Training for e-business and public agency work are discussed to better equip instructors for the distinctive information needs of these sectors."

SONAS Implementation and Best Practices Guide

Encyclopedia of
Information Science and

Current Issues in IT

Education

How to Install, Deploy,
and Optimize Hadoop in a
Virtualized Architecture

The IT sector is full of hype. But once in a while there is a genuine inflection point, a moment at which the way of doing things fundamentally changes due to the introduction of new technologies. The rise of cloud computing is just such an inflection point. Cloud computing is the next stage of the Internet computing model, one in which

organizations will consume services, not technologies.

These services will be ready to run, available outside the office walls, and be paid for on the basis of usage, just like water or electricity. As the cloud and services model matures, not only will businesses be able to solve old problems more inexpensively and rapidly, they will also be able to address new challenges that were previously out of reach. Cloud computing promises a more flexible “services” model for IT systems that puts the business unit or end

user at the center of the process. In this way, both the IT organization and the business itself become more agile. At the same time, cloud computing promises to reduce the delivered cost of IT through a greater degree of resource utilization, automation, and self service. This will not happen overnight. It will not be next year, nor even within a year or two. But as time passes, more and more companies will find themselves in a position to be able to source services wherever they like: inside the organization or

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from any provider, whether it be Google, IBM, HP, EMC, Cisco, Microsoft, Amazon, T-Systems or any other cloud computing vendor. This book is a comprehensive introduction to cloud computing and its most prominent enabling technology: virtualization. In the first part, you are guided through the visions, concept and models behind cloud computing. You will learn how your organization can profit from cloud-enabling technologies and how you can incorporate them in your IT infrastructure. Part II of

this book consists of “Industry Outlooks”: in depth articles from industry experts. Part III offers a series of useful case stories, covering a broad diversity of virtualization and cloud-related issues. Further to the development of this book, the development team that is responsible for the content of this book, has developed a certification program on Cloud computing, the Cloud Certification Program. This vendor-neutral Cloud Certification Program provides professionals with

the opportunity to obtain globally recognized credentials in cloud computing. The CompTIA Cloud Essentials course Exam is intended for IT professionals who wish to certify that they have the required knowledge and understanding required to complete and pass the CompTIA Cloud Essentials™ Exam on cloud computing. Anyone who passes this exam to obtains the CompTIA Cloud Essentials™ Professional certificate. Oracle ASM continues to be the best practice to

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**implementing Oracle
Databases. Whether you are
leveraging a single instance
database or a clustered
database with RAC, you can
benefit from the real-life
examples to administering
and maintaining ASM from
this book. Consolidated by
Charles Kim and Nitin
Vengurlekar, this pocket
reference guide is loaded
with command line interface
syntax for Oracle ASM 11g
Release 2 or Oracle ASM
12c. It does not matter if you
are a newbie to ASM or a
long time veteran, this
pocket reference guide is**

packed with relevant tidbits. Both Charles and Nitin have combined experiences of over 48 years of Oracle experience and are authors of many Oracle books.

Charles is the Founder and President of Viscosity North America and Nitin is the Chief Technology Officer.

They are subject matter experts of RAC/ASM/Exadata technologies.

"This reference expands the field of database technologies through four-volumes of in-depth, advanced research articles from nearly 300 of the

world's leading professionals" --Provided by publisher.

Focusing on tried and true best practice techniques in cross-technology based Oracle embedded programming, this book provides authoritative guidance for improving your code compilation and execution. Geared towards IT professionals developing Oracle-based Web-enabled applications in PL/SQL, Java, C, C++, .NET, Perl, and PHP, it covers application development from concepts to customization, following a

pragmatic approach to design, coding, testing, deployment, and customization—explaining how to maximize embedded programming practices. Oracle Embedded Programming and Application Development explains application development frameworks using 3GL and 4GL high-level language code as embedded code segments across .NET, Java, and Open Source technologies, in conjunction with SQL and/or PL/SQL and the Oracle RDBMS through version

11gR2. It also: Features pluggable code using parameterized constructs to promote code reuse Explains when to use a particular embedded language as a best fit for specific applications Highlights design considerations that reduce the probability of errors, enable quick resolution, and boost performance in terms of enabling a Fast-Actionable-Synchronized-Tested (FAST) solution implementation Provides best practice techniques that can enhance any application development

code-design methodology for a better, easier, faster, cheaper, and pervasive solution that in turn helps achieve a Better Business Benefit (B-B-B) This practical guide details techniques for constructing architecture and code design methodologies for live application development projects that can be generalized and standardized as application development and code design frameworks. Cover to cover, the text provides an understanding of how the designed, developed, and

deployed solutions conform to emerging and next-generation trends. It also discusses the conformance and usage of Web 2.0-based RIA functionality and regulatory compliance practices involving auditing and security. Praise for: "Taking an Oracle-centric approach, Lakshman skillfully guides you through the maze of various popular programming languages and environments including .NET, C/C++, Perl, PHP, Java, and even SQL and PL/SQL - not only showing you how they interact with

**Oracle but also which
language is the best fit for a
given situation." —John
Kanagaraj, Executive Editor,
IOUG SELECT Journal
The Cloud DBA-Oracle
An Introduction to
Enterprise Networking in e-
Business ACID Environment
Doing IT Right
Database Cloud Storage
Handbook of Research on
Cloud Infrastructures for
Big Data Analytics**

*One-stop reference for
administration and
management of Oracle 10g
Database *9i predecessor
was a best seller; this

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edition covers all new features, with fully field-tested examples—not just "showcase" examples

*Contains essential primers on Unix, Linux and Windows NT management and on SQL and PL/SQL

programming; ideal for new/aspiring DBAs

Sam Alapati's Expert Oracle Database 11g

Administration is a comprehensive handbook for Oracle database

administrators (DBAs) using the 11g release of the Oracle Database. All key aspects of database administration are

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covered, including backup and recovery, day-to-day administration and monitoring, performance tuning, and more. This is the one book to have on your desk as a continual reference. Refer to it frequently. It'll help you get the job done.

Comprehensive handbook for Oracle Database administrators. Covers all major aspects of database administration. Tests and explains in detail key DBA commands. Offers primers on Linux/Unix, data modeling, SQL, and PL/SQL. Cloud computing is rapidly

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expanding in its applications and capabilities through various parts of society. Utilizing different types of virtualization technologies can push this branch of computing to even greater heights. Design and Use of Virtualization Technology in Cloud Computing is a crucial resource that provides in-depth discussions on the background of virtualization, and the ways it can help shape the future of cloud computing technologies. Highlighting

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relevant topics including grid computing, mobile computing, open source virtualization, and virtualization in education, this scholarly reference source is ideal for computer engineers, academicians, students, and researchers that are interested in learning more about how to infuse current cloud computing technologies with virtualization advancements.

The implementation of Enterprise Networks or e-Networking is of paramount importance for

organisations. Enterprise-wide networking would warrant that the components of information architecture are organised to harness more out of the organisation's computing power on the desktop. This would also involve establishment of networks that link the various but important subsystems of the enterprise. Our firm belief is that in order to gain a competitive edge the organisations need knowledge and sound strategy. This conviction is particularly true today, considering the

pressures from international competition, environmental concerns and complicated ethical issues. This book, entitled A Manager's Primer on e-Networking, negotiates the hyper dimensions of the Internet through stories from myriad of Web sites with its fluent presentation and simple but chronological organisation of topics highlighting numerous opportunities and providing a solid starting point not only for inexperienced entrepreneurs and managers

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but anyone interested in applying information technology in the business. I sincerely hope the book will help as well many small and medium size companies and organisations to launch corporate networking successfully in order to attain their strategic objectives. Rajiv Jayashankar, Ph. D.
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From Laptops to Production
Virtualizing Hadoop
Oracle on VMware
InfoWorld
The start-to-finish guide to

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virtualizing business-critical Oracle Software and Databases on VMware vSphere Virtualizing large-scale Oracle software and databases on vSphere can deliver powerful scalability, availability, and performance benefits. Recognizing this opportunity, thousands of organizations are moving to virtualize Oracle. However, reliable best practices have been difficult to find, and database and virtualization professionals often bring incompatible perspectives to the challenge. Virtualizing Oracle® Databases on vSphere® is the first authoritative, comprehensive, and best-practice guide to running Oracle on VMware platforms. Reflecting a deep understanding of both Oracle and

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vSphere, this guide is supported by extensive in-the-field experience with the full spectrum of database applications and environments. Both a detailed reference and a practical cookbook, it combines theory and practice, and offers up-to-date insights for the entire lifecycle, supported by case studies. Kannan Mani and Don Sullivan fully address architecture, performance, design, sizing, and high availability. Focusing on current versions of Oracle and vSphere, they highlight the differences between ESX/ESXi 4.x and 5.x wherever relevant. To deliver even more value, they provide extensive online resources, including easy-to-adapt scripts and expert how-to videos. Coverage includes: Understanding the

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DBA's expanded role in virtualized environments, and the emergence of the vDBA, vRACDBA, and Cloud DBA Identifying your best opportunities to drive value from virtualizing Oracle Anticipating challenges associated with virtualizing Oracle-based Business Critical Applications on vSphere Using VMware to overcome ongoing database deployment and management problems Protecting your virtualized database environment with vSphere's high-availability capabilities Designing databases to achieve scalability on demand, maximize availability, consolidate servers, and improve compliance Implementing best practices for memory, storage, and database layout

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Demystifying the impact of virtualization on Oracle support and licensing Using VMware Site Recovery Manager (SRM) to accelerate disaster recovery by seamlessly integrating VM and storage failover Streamlining provisioning and taking advantage of opportunities to automate This brilliant new book gives readers the lowdown on the most important new features in the latest release of Oracle's flagship database product. Authors Sam Alapati and Charles Kim are experienced database administrators who go beyond regurgitating Oracle's new feature documentation to report on "what's new that really matters." Readers whose careers are bound up in

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Oracle's database system need to know what's new. Sam and Charles deliver with a rigor and candor that will help readers choose the best of the new features to apply in their own environments.

Oracle Database 12c Release 1 is now supported on Linux on IBM® System z®. This platform offers many advantages to customers who rely upon the IBM mainframe systems to run their businesses. Linux on System z takes advantage of the qualities of service in the System z hardware and in IBM z/VM®, making it a robust industrial strength version of Linux. This provides an excellent platform for hosting Oracle solutions that run in an enterprise. This IBM Redbooks® publication shares

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experiences that are gained while installing and testing Oracle Database 12c Release 1: Recommendations about how to set up an infrastructure Installing an Oracle Grid Infrastructure Installing Oracle 12C R1 Real Application Clusters (RAC) and creating a RAC Database, including a multitenant database Using the Cloud Control Agent to manage Oracle Database 12c Release 1 Installing Oracle WebLogic Server 12c Upgrading from an Oracle Database from 11gR2 to 12c Release 1 The audience for this publication includes database consultants, installers, administrators, and system programmers. This publication is not meant to replace Oracle documentation, but to supplement it

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with our experiences while installing and using Oracle products.

Oracle Database 12c Release 1 running on Linux is available for deployment on the IBM ZTM family of servers. The enterprise-grade Linux on IBM Z solution is designed to add value to Oracle Database solutions, including the new functions that are introduced in Oracle Database 12c. In this IBM Redbooks® publication, we explore the IBM and Oracle Alliance and describe how Oracle Database benefits from the IBM Z platform. We then explain how to set up Linux guests to install Oracle Database 12c. We also describe how to use the Oracle Enterprise Manager Cloud Control Agent to manage Oracle Database 12c Release 1. We also

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describe a successful consolidation project from sizing to migration, performance management topics, and high availability. Finally, we end with a chapter about surrounding Oracle with Open Source software. The audience for this publication includes database consultants, installers, administrators, and system programmers. This publication is not meant to replace Oracle documentation, but to supplement it with our experiences while installing and using Oracle products.

Oracle ASM 12c Pocket Reference
Guide

Oracle Database 11g Oracle Real
Application Clusters Handbook, 2nd
Edition

Expert Oracle Database 10g

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Administration
Infrastructure As A Service

Get Ready for Cloud Computing – 2nd
edition

Modern Oracle Enterprise
Architecture

Learn how to define strategies for cloud adoption of your Oracle database landscape. Understand private cloud, public cloud, and hybrid cloud computing in order to successfully design and manage databases in the cloud. The Cloud DBA-Oracle provides an overview of Database-as-a-Service (DBaaS) that you can use in defining your cloud adoption strategy. In-depth details of various cloud service providers for Oracle database are given, including Oracle Cloud and

Amazon Web Services (AWS). Database administration techniques relevant to hosting databases in the cloud are shown in the book as well as the technical details needed to perform all database administration tasks and activities, such as migration to the cloud, backup in the cloud, and new database setup in the cloud. You will learn from real-world business cases and practical examples of administration of Oracle database in the cloud, highlighting the challenges faced and solutions implemented. What you will learn: Cloud computing concepts from the

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DBA perspective, such as private cloud, public cloud, hybrid cloud

Technical details of all aspects of cloud database administration

Challenges faced during setup of databases in private cloud or database migration to public cloud

Key points to be kept in mind during database administration in the cloud

Practical examples of successful Oracle database cloud migration and support

Who Is This Book For

For All levels of IT professionals, from executives responsible for determining database strategies to database administrators and database architects who manage and design databases.

Linux and Solaris Recipes for

Oracle DBAs, 2nd Edition is an example-based book on managing Oracle Database under Linux and Solaris. The book is written for database administrators who need to get work done and lack the luxury of curling up fireside with a stack of operating-system documentation. What this book provides instead is task-oriented coverage designed around the needs of the Oracle Database Administrator. Find the right chapter. Look up the task to perform. See the solution. Implement the solution straight away in your own environment. Get the job done. New in this edition is coverage of Oracle's

own Solaris operating system. Oracle Corporation has been working diligently to bring commonality between Solaris and and Linux, and this book takes advantage of those efforts to provide task-oriented solutions that work on common distributions of Linux such as Red Hat Enterprise Linux and Oracle Enterprise Linux while also accommodating the growing number of Oracle Solaris customers. Examples in the book match the tasks DBAs perform daily, even hourly. Solutions come first in the book, but always are followed by close explanations of the details. Database administrators won't

go wrong with Linux and Solaris Recipes for Oracle DBAs. It's the book to buy if you're after clear and reliable examples to help in getting the job done, and getting home to your family. Takes you directly from problem to solution Covers the "right" mix of operating-system tasks for database administrators Respects your time by being succinct and to-the-point Includes coverage of Solaris in addition to common Linux distributions What You Will Learn Execute Linux and Solaris commands applicable to Oracle Database. Automate critical DBA tasks via operating-system shell scripts. Monitor, tune, and

optimize Linux and Solaris servers for Oracle. Setup a VirtualBox environment for the Oracle database. Perform system administration tasks relevant to Oracle Database. Remotely (and securely!) manage Oracle on Linux and Solaris. Who This Book Is For Linux and Solaris Recipes for Oracle DBAs is a book for Oracle database administrators who want to expertly operate Oracle databases on the Linux and Solaris operating systems. If you're new to Linux and Solaris and can benefit from detailed examples showing how to perform tasks that Oracle DBAs perform on Linux and Solaris

servers, then this book is what you need to help you get the job done, and get home on time.

Plan and Implement Hadoop Virtualization for Maximum Performance, Scalability, and Business Agility Enterprises running Hadoop must absorb rapid changes in big data ecosystems, frameworks, products, and workloads.

Virtualized approaches can offer important advantages in speed, flexibility, and elasticity. Now, a world-class team of enterprise virtualization and big data experts guide you through the choices, considerations, and tradeoffs surrounding Hadoop virtualization. The authors help

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you decide whether to virtualize Hadoop, deploy Hadoop in the cloud, or integrate conventional and virtualized approaches in a blended solution. First, Virtualizing Hadoop reviews big data and Hadoop from the standpoint of the virtualization specialist. The authors demystify MapReduce, YARN, and HDFS and guide you through each stage of Hadoop data management. Next, they turn the tables, introducing big data experts to modern virtualization concepts and best practices. Finally, they bring Hadoop and virtualization together, guiding you through the decisions you'll face in planning, deploying,

provisioning, and managing virtualized Hadoop. From security to multitenancy to day-to-day management, you'll find reliable answers for choosing your best Hadoop strategy and executing it. Coverage includes the following:

- Reviewing the frameworks, products, distributions, use cases, and roles associated with Hadoop
- Understanding YARN resource management, HDFS storage, and I/O
- Designing data ingestion, movement, and organization for modern enterprise data platforms
- Defining SQL engine strategies to meet strict SLAs
- Considering security, data isolation, and scheduling for

**multitenant environments •
Deploying Hadoop as a service
in the cloud • Reviewing the
essential concepts, capabilities,
and terminology of virtualization
• Applying current best
practices, guidelines, and key
metrics for Hadoop virtualization
• Managing multiple Hadoop
frameworks and products as one
unified system • Virtualizing
master and worker nodes to
maximize availability and
performance • Installing and
configuring Linux for a Hadoop
environment
The start-to-finish guide to
virtualizing business-critical SQL
Server databases on VMware
vSphere 5 By virtualizing**

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business-critical databases, enterprises can drive far more value from existing IT infrastructure. But squeezing maximum performance out of a virtualized database instance is an art as much as a science. This indispensable start-to-finish guide brings together all the techniques, tips, and insights you need to succeed. Drawing on unsurpassed personal experience, three leading experts share complete best practices for deploying business-critical database servers in virtualized vSphere 5 environments. They cover the entire project lifecycle, bridging technical and communications gaps between

SQL Server and VMware professionals that often make database virtualization more difficult than it needs to be. You'll find specific guidance for architects and administrators responsible for systems, storage, databases, applications, or VMware virtualization. The authors also present detailed, start-to-finish coverage of performance baselining and testing: all you need to make your virtualized databases as fast as they are cost effective. Although this book focuses on SQL, the authors' proven guidance for enhancing performance can be leveraged by any IT professional virtualizing a

demanding Tier 1 application. Coverage includes • Business cases for database virtualization: consolidation, Database as a Service (DaaS), efficiency, and “SLAs on steroids” • Using the redundancy inherent in virtualization to improve availability • Constructing a careful, conservative implementation plan • Balancing disk, CPU, memory, and network for superior performance • Mastering the five key principles of database storage design • Leveraging memory: SQL MAX, page locking, NUMA, reservations, swapping, large memory pages, and more • Ensuring responsiveness by

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**providing a fast, reliable, low-
latency network • Supporting
advanced AlwaysOn Failover
Cluster Instances and
Availability Groups • Baselineing
physical systems and properly
determining resource
requirements • Configuring
performance tests from
beginning to end • Migrating
existing SQL Server databases
onto a vSphere platform •
Avoiding traps and pitfalls in
virtualizing production
databases • Managing and
monitoring virtualized database
instances and resources
Oracle Exadata Expert's
Handbook
Linux and Solaris Recipes for**

Oracle DBAs

**Design and Use of Virtualization
Technology in Cloud Computing
Oracle Database 11g**

**Database Technologies:
Concepts, Methodologies, Tools,
and Applications**

*Clouds are being
positioned as the next-
generation consolidated,
centralized, yet
federated IT
infrastructure for
hosting all kinds of IT
platforms and for
deploying, maintaining,
and managing a wider
variety of personal, as
well as professional*

applications and services. Handbook of Research on Cloud Infrastructures for Big Data Analytics focuses exclusively on the topic of cloud-sponsored big data analytics for creating flexible and futuristic organizations. This book helps researchers and practitioners, as well as business entrepreneurs, to make informed decisions and consider appropriate action to simplify and streamline the arduous

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*journey towards smarter
enterprises.*

*Cloud Enterprise
Architecture examines
enterprise architecture
(EA) in the context of
the surging popularity
of Cloud computing. It
explains the different
kinds of desired
transformations the
architectural blocks of
EA undergo in light of
this strategically
significant convergence.
Chapters cover each of
the contributing
architectures of
EA-business,*

integration, security,
and
technology—illustrating
the current and
impending implications
of the Cloud on each.
Discussing the
implications of the
Cloud paradigm on EA,
the book details the
perceptible and positive
changes that will affect
EA design, governance,
strategy, management,
and sustenance. The
author ties these topics
together with chapters

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on Cloud integration and
Infrastructure As A Service
composition

architecture. He also examines the Enterprise Cloud, Federated Clouds, and the vision to establish the InterCloud. Laying out a comprehensive strategy for planning and executing Cloud-inspired transformations, the book: Explains how the Cloud changes and affects enterprise architecture design, governance, strategy, management, and sustenance Presents

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*helpful information on
next-generation Cloud
computing Describes
additional architectural
types such as enterprise-
scale integration,
security, management,
and governance
architectures This book
is an ideal resource for
enterprise architects,
Cloud evangelists and
enthusiasts, and Cloud
application and service
architects. Cloud center
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