

Access Free Oracle Real  
Application Clusters

Administration And  
Deployment Guide 11g  
**Oracle Real Application  
Clusters Administration  
And Deployment Guide  
11gr2**

***The Definitive Guide to  
Oracle Database 11g Get  
full details on the  
powerful features of  
Oracle Database 11g from  
this thoroughly updated  
Oracle Press guide.  
Oracle Database 11g: The  
Complete Reference  
explains how to use all  
the new features and  
tools, execute powerful  
SQL queries, construct***

***PL/SQL and SQL\*Plus statements, and work with large objects and object-relational databases. Learn how to implement the latest security measures, tune database performance, and deploy grid computing techniques. An invaluable cross-referenced appendix containing Oracle commands, keywords, features, and functions is also included. Install Oracle Database 11g or upgrade from an earlier version Create database***

***tables, sequences,  
indexes, views, and user  
accounts Construct SQL  
statements, procedures,  
queries, and subqueries  
Optimize security using  
virtual private databases  
and transparent data  
encryption Import and  
export data using  
SQL\*Loader and Oracle  
Data Pump Use SQL  
replay, change  
management, and result  
caching Avoid human  
errors using flashback  
and automatic undo  
management Build and  
tune PL/SQL triggers,***

*Administration And  
Deployment Guide 11gr2*  
**functions, and packages  
Develop database**

**applications using Java,  
JDBC, and XML Optimize  
availability and scalability  
with Oracle Real**

**Application Clusters**

**Pro Oracle Database 11g  
RAC on Linux provides  
full-life-cycle guidance on  
implementing Oracle Real  
Application Clusters in a  
Linux environment. Real  
Application Clusters,  
commonly abbreviated as  
RAC, is Oracle's industry-  
leading architecture for  
scalable and fault-  
tolerant databases. RAC**

*allows you to scale up and down by simply adding and subtracting inexpensive Linux servers. Redundancy provided by those multiple, inexpensive servers is the basis for the failover and other fault-tolerance features that RAC provides. Written by authors well-known for their talent with RAC, Pro Oracle Database 11g RAC on Linux gives you a rock-solid and technically flawless foundation on which to build your RAC-management skills.*

*Administration And  
Deployment Guide 11gr2*

***Authors Julian Dyke and Steve Shaw share their hard-won experience in building RAC clusters, showing you how to build for success using the very latest Oracle technologies, such as Automatic Storage Management (ASM) and Oracle Clusterware. You'll learn to troubleshoot performance and other problems. You'll even learn how to correctly deploy RAC in a virtual-machine environment based upon Oracle VM, which is the only***

Administration And  
Deployment Guide 11gr2  
**virtualization solution  
supported by Oracle**

**Corporation. RAC is a  
complex and powerful  
technology. It demands  
expertise in its  
deployment. You can't  
just "wing it" in creating  
a RAC solution. Julian and  
Steve have earned the  
right to term themselves  
expert—in Pro Oracle  
Database 11g RAC on  
Linux, they offer a  
rigorous and technically-  
correct treatment of RAC  
that helps you build a  
solid foundation of  
expertise and achieve**

**success. Rigorous and technically accurate content Complete coverage of RAC, from planning to implementation to rollout to ongoing maintenance and troubleshooting Up-to-date with the very latest RAC features Oracle Database 12c running on Linux is available for deployment on IBM® LinuxONE. The enterprise-grade Linux on LinuxONE solution is designed to add value to Oracle Database solutions, including the**



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***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  
LinuxONE. 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.  
Additionally, we discuss  
encryption for Oracle***

***using Oracle Transparent Data Encryption (TDE) on Oracle 12c Release 2. We also 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***

*Administration And  
Deployment Guide 11gR2*  
**meant to replace Oracle  
documentation, but to  
supplement it with our  
experiences while  
installing and using  
Oracle products.**

**A guide to the installation  
and configuration of  
Oracle9i RAC covers such  
topics as the design of  
RAC clusters,  
configuration of TAF, and  
monitoring and tuning  
RAC applications.**

**Oracle Real Application  
Cluster Field DBA Admin  
Handbook**

**Experiences with Oracle®  
10gR2 Solutions on Linux**

Access Free Oracle Real  
Application Clusters

Administration And  
Deployment Guide 11gr2  
**for IBM System z  
Oracle 11g R1/R2 Real  
Application Clusters  
Essentials**

**Expert Oracle RAC  
Performance Diagnostics  
and Tuning**

**Oracle Real Application  
Clusters Configuration  
and Internals**

**Pro Oracle Database 10g  
RAC on Linux**

*Grid architecture is  
Oracle's strategy for high-  
end computing and RAC is  
the stepping stone into  
this arena. This book  
focuses on current  
technology including all*

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## Administration And

*valid RAC features up  
through Oracle Database*

*Deployment Guide 11gr2  
10g Release 2, with a  
primary focus on deploying  
it in a high-end grid  
environment. The book  
discusses this technology  
at length which users will  
find beneficial when  
researching, implementing  
or monitoring a RAC  
environment. The author  
covers workshop  
implementation of services  
and the distribution of  
workload across instances,  
with threshold definitions  
and the new load balancing  
algorithms. In addition it  
includes detailed*

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*Administration And  
Deployment Guide 11gr2*

*discussions on ASM that  
complements the  
implementation of RAC in  
Oracle Grid strategy. The  
book also includes  
discussions on new Oracle  
Clusterware, its  
components and its  
integration with RAC.  
Oracle 10g RAC focuses on  
RAC-specific topics  
including ASM, operating  
system configuration,  
installation and  
configuration of RAC and  
much more. Coverage  
includes network  
configuration for high  
availability, FAN, TAF,  
ONS, implementation of*

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maximum availability  
architecture (MAA), EM  
Grid Control, AWR, ADDM  
and other performance-  
related tools. The author  
includes several scripts  
for performance tuning and  
implementation that the  
reader can use to  
configure a RAC  
environment either on a 2,  
4, 8, 60 or 99 node  
configuration. Focuses on  
implementing, testing and  
tuning features of Real  
Application Clusters (RAC)  
database version 10g  
Release 2 Provides  
extensive coverage of  
usage, day-to-day

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*Administration And  
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*functions and operations  
Includes tips and  
techniques such as script  
samples to illustrate  
various features of RAC A  
jumpstart into all the key  
features of 10g R2 RAC  
Master the Powerful  
Multitenant Features of  
Oracle Database 12c Govern  
a scalable, extensible,  
and highly available  
enterprise database  
environment using the  
practical information  
contained in this Oracle  
Press guide. Written by a  
team of Oracle Masters,  
Oracle Database 12c  
Release 2 Multitenant*



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*Administration And  
Deployment Guide 11gr2*

*shows, step-by-step, how to deploy and manage multitenant configurations across IT frameworks of all types and sizes. Find out how to create databases, work with PDBs and CDBs, administer Oracle Net Services, and automate administrative tasks. Backup and recovery, security, and advanced multitenant options are covered in complete detail. Learn how to:*

- Build high-performance multitenant Oracle databases*
- Create single-tenant, multitenant, and*

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application containers •

Establish network connections and manage services • Handle security using authentication, authorization, and encryption • Back up and restore your mission-critical data • Work with point-in-time recovery and Oracle Flashback • Move data and replicate and clone databases • Work with Oracle's Resource Manager and Data Guard

Oracle RAC technology is the advance level of database which is designed to provide high availability and

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scalability. Oracle RAC is  
installed on multiple

servers and it forms the  
foundation for database  
cloud. Build a Strong  
Foundation in Oracle grid,  
Clusterware Installation  
with this book for  
Beginners.- Introduction  
to clusterware technology-  
Oracle cluster node setup-  
Oracle 11g grid software  
installation- Setup two  
node RAC- Create first  
Oracle RAC database-  
Oracle RAC and ASM  
administrationA strong RAC  
Beginners eBook for IT  
Professionals World  
Wide! Oracle RAC allows

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multiple computers to run Oracle RDBMS software simultaneously while accessing a single database, thus providing clustering. The main aim of Oracle RAC online course is to implement a clustered database to provide performance, scalability and resilience. It's a clustered version of Oracle Database based on a comprehensive high availability stack. The Oracle 11gR2 Real Application Clusters Administration eBook describes the Oracle RAC

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*Administration And  
Deployment Guide 11gr2*  
architecture, hands on  
experience and Oracle Real  
Application Clusters multi  
node installations. This  
eBook is for people who  
have prior knowledge on  
Oracle database  
administration and covers  
knowledge on topics like  
Oracle RAC Cluster, Oracle  
AMS, Oracle RAC  
administration, Oracle RAC  
Installation, Oracle RAC  
on VirtualBox and many  
more.

Oracle is an enormous  
system, with myriad  
technologies, options, and  
releases. Most users--even  
experienced developers and

# Access Free Oracle Real Application Clusters Administration And Deployment Guide 11gr2 database administrators--find it

difficult to get a handle on the full scope of the Oracle database. And, as each new Oracle version is released, users find themselves under increasing pressure to learn about a whole range of new technologies. The latest challenge is Oracle Database 11g. This book distills an enormous amount of information about Oracle into a compact, easy-to-read volume filled with focused text, illustrations, and helpful hints. It contains

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Deployment Guide 11gr2

chapters on: Oracle products, options, data structures, and overall architecture for Oracle Database 11g, as well as earlier releases (Oracle Database 10g, Oracle9i, and Oracle8i) Installing, running, managing, monitoring, networking, and tuning Oracle, including Enterprise Manager (EM) and Oracle's self-tuning and management capabilities; and using Oracle security, auditing, and compliance (a new chapter in this edition) Multiuser concurrency, data warehouses,

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distributed databases,  
online transaction

*processing (OLTP), high  
availability, and hardware  
architectures (e.g., SMP,  
clusters, NUMA, and grid  
computing) Features beyond  
the Oracle database:*

*Oracle Application  
Express, Fusion Middleware  
(including Oracle  
Application Server), and  
database SOA support as a  
Web services provider The  
latest Oracle Database 11g  
features: query result set  
caching, Automatic Memory  
Management, the Real  
Application Testing,  
Advanced Compression,*



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*Total Recall, and Active  
Data Guard Option Options,  
changes to the OLAP Option  
(transparently accessed  
and managed as  
materialized views), the  
Flashback transaction  
command, transparent data  
encryption, the Support  
Workbench (and  
diagnosability  
infrastructure), and  
partitioning enhancements  
(including interval and  
new composite types) For  
new Oracle users, DBAs,  
developers, and managers,  
Oracle Essentials provides  
an invaluable, all-in-one  
introduction to the full*

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range of Oracle features  
and technologies,

including the just-  
released Oracle Database  
11g features. But even if  
you already have a library  
full of Oracle  
documentation, you'll find  
that this compact book is  
the one you turn to, again  
and again, as your one-  
stop, truly essential  
reference. "Oracle  
Essentials gives a clear  
explanation of the key  
database concepts and  
architecture underlying  
the Oracle database. It's  
a great reference for  
anyone doing development

# Access Free Oracle Real Application Clusters Administration And Deployment Guide 11gr2 or management of Oracle databases." --Andrew

Mendelsohn, Senior Vice  
President, Database Server  
Technologies, Oracle  
Corporation

*Health Care Delivery and  
Clinical Science:*

*Concepts, Methodologies,  
Tools, and Applications  
Become a RAC Administrator  
in Just 2 Weeks!*

*A Problem-Solution  
Approach*

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

*Oracle Database  
Administration for*

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*Microsoft SQL Server DBAs  
Practical guide to RAC  
architecture for data  
base managers to manage  
Oracle9i clusters.  
Software applications  
once held on local  
computers and servers  
are beginning to shift  
to the public Internet  
sphere, and private  
health information is no  
exception. The  
likelihood of placing  
once restricted and  
private health records  
“in the cloud” is  
increasing. Cloud  
Computing Applications*

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*for Quality Health Care  
Delivery focuses on  
cloud technologies that  
could affect quality in  
the healthcare field.  
Leading experts in this  
area offer their  
knowledge and contribute  
to the demystification  
of healthcare in the  
Cloud. This publication  
will prove to be a  
useful tool for  
undergraduate and  
graduate students of  
healthcare quality and  
management, healthcare  
managers, and industry  
professionals.*

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*This IBM® Redpaper™ publication describes experiences gained while installing Oracle Database 11gR2 with Grid Infrastructure (GI). It covers the set up and installation process for these environments:*

- Setting up Red Hat Enterprise Linux 5 with DASD*
- Setting up Red Hat Enterprise Linux 5 with FCP/SCSI*
- Setting up SLES11 with DASD*
- Setting up SLES11 with FCP/SCSI disks*

*Examples include the installation of the Grid Infrastructure,*

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*Administration And Deployment Guide 11gr2*

*installation of a single instance database and installation of a two-node Real Application Cluster (RAC) database. In all cases, we use UDEV rules for DASD and single path SCSI, and multipathing for multipath SCSI to provide device persistency for ASM storage, not ASMLib. Interested readers would include database consultants, installers, administrators, and system programmers. This is not meant to replace Oracle documentation,*

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*Administration And Deployment Guide 11gr2*  
but to supplement it with our experiences while installing and using Oracle Database products. We made extensive uses of My Oracle Support notes. Oracle Exadata Recipes takes an example-based, problem/solution approach in showing how to size, install, configure, manage, monitor, optimize, and migrate Oracle database workloads on and to the Oracle Exadata Database Machine. Whether you're an Oracle Database



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Administration And  
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administrator,  
Unix/Linux

administrator, storage  
administrator, network  
administrator, or Oracle  
developer, Oracle  
*Exadata Recipes provides  
effective and proven  
solutions to accomplish  
a wide variety of tasks  
on the Exadata Database  
Machine. You can feel  
confident using the  
reliable solutions that  
are demonstrated in this  
book in your enterprise  
Exadata environment.  
Managing Oracle Exadata  
is unlike managing a*

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*traditional Oracle  
database. Oracle's*

*Exadata Database Machine  
is a pre-configured  
engineered system  
comprised of hardware  
and software, built to  
deliver extreme  
performance for Oracle  
Database workloads.*

*Exadata delivers extreme  
performance by offering  
an optimally balanced  
hardware infrastructure  
with fast components at  
each layer of the  
engineered technology  
stack, as well as a  
unique set of Oracle*

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Deployment Guide 11gr2*

*software features  
designed to leverage the  
high-performing hardware  
infrastructure by  
reducing I/O demands.  
Let Oracle Exadata  
Recipes help you  
translate your existing  
Oracle Database  
knowledge into the  
exciting new growth area  
that is Oracle Exadata.  
Helps extend your Oracle  
Database skillset to the  
fast-growing, Exadata  
platform Presents  
information on managing  
Exadata in a helpful,  
example-based format*

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Deployment Guide 11gr2*

*Clearly explains unique  
Exadata software and  
hardware features What  
you'll learn Install and  
configure Exadata Manage  
your Exadata hardware  
infrastructure Monitor  
and troubleshoot  
performance issues  
Manage smart scan and  
cell offload processing  
Take advantage of Hybrid  
Columnar Compression  
Deploy Smart Flash Cache  
and Smart Flash Logging  
Ensure the health of  
your Exadata environment  
Who this book is for  
Oracle Exadata Recipes*

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*Administration And  
Deployment Guide 11gr2*  
is for Oracle Database  
administrators,

*Unix/Linux*

*administrators, storage*

*administrators, backup*

*administrators, network*

*administrators, and*

*Oracle developers who*

*want to quickly learn to*

*develop effective and*

*proven solutions without*

*reading through a*

*lengthy manual scrubbing*

*for techniques. Readers*

*in a hurry will*

*appreciate the recipe*

*format that sets up*

*solutions to common*

*tasks as the centerpiece*

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Administration And  
Deployment Guide 11gr2  
of the book. Table of  
Contents Exadata

Hardware Exadata

Software How Oracle

Works on Exadata

Workload Qualification

Sizing Exadata Preparing  
for Exadata

Administration and

Diagnostics Utilities

Backup and Recovery

Storage Administration

Network Administration

Patching and Upgrades

Security Monitoring

Exadata Storage Cells

Host and Database

Performance Monitoring

Smart Scan and Cell

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Administration And  
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Offload Hybrid Columnar  
Compression I/O Resource  
Management and Instance  
Caging Smart Flash Cache  
and Smart Flash Logging  
Storage Indexes Post-  
Installation Monitoring  
Tasks Post-Install  
Database Tasks  
The Essential Guide to  
Oracle Automatic Storage  
Management  
Oracle Database 12c  
Release 2 Real  
Application Clusters  
Handbook: Concepts,  
Administration, Tuning &  
Troubleshooting  
Oracle Exadata Recipes

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*Administration And  
Deployment Guide 11gR2  
Experiences with Oracle  
Database 12c Release 1  
on Linux on System z  
Oracle Database 12c  
Release 2 Multitenant  
Oracle 11gR2 RAC for  
Beginners*

**This comprehensive guide  
has been fully updated  
to cover the latest  
features and tools of  
Oracle Real Application  
Clusters 12c Through  
clear instruction and  
detailed examples,  
Oracle Database 12c Real  
Application Clusters  
Handbook: Concepts,  
Administration, Tuning &**



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## Administration And

## Deployment Guide 11gr2

Troubleshooting teaches how to build, configure, and maintain a dynamic enterprise computing infrastructure. This thoroughly revised edition covers best uses for the latest tools and features—all from the practical standpoint of a working DBA. You will discover how to prepare hardware, configure the software, optimize data integrity, and integrate seamless failover protection. Brand-new flex and large cluster technologies are

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## Administration And Deployment Guide 11gr2

explained in full detail, and readers will get complete solutions for securing data and continuing business operations in the event of hardware failure. Presents all the new information needed to effectively use Oracle Real Application Clusters 12c -considered the most radical overhaul ever Offers detailed coverage of troubleshooting, performance tuning, and application development This book is basically a

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Administration And  
Deployment Guide 11gr2  
problem solver for  
candidate preparing for  
Real Application Cluster  
Oracle Examination any  
where in the world. It  
is the updated version  
for the previous series  
written. The question  
and answer is well  
perused and vetted. Its  
prepares learners well  
for the Interviews and  
Examinations.

This book presents the  
installation of an  
Oracle RAC 19c cluster  
with 2 nodes. It is  
primarily intended for  
Oracle DBAs with a good

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Administration And  
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culture on the  
functioning of a RAC

cluster. System and  
network skills are  
essential. The objective  
here is to present a  
test model of an RAC  
cluster for training and  
in no way a production  
case.

Master Oracle Real  
Application Clusters  
Maintain a dynamic  
enterprise computing  
infrastructure with  
expert instruction from  
an Oracle ACE. Oracle  
Database 11g Oracle Real  
Application Clusters

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Application Clusters  
Administration And  
Deployment Guide 11gr2  
Handbook, Second Edition  
has been fully revised  
and updated to cover the  
latest tools and  
features. Find out how  
to prepare your  
hardware, deploy Oracle  
Real Application  
Clusters, optimize data  
integrity, and integrate  
seamless failover  
protection.  
Troubleshooting,  
performance tuning, and  
application development  
are also discussed in  
this comprehensive  
Oracle Press guide.  
Install and configure

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Administration And  
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Oracle Real Application  
Clusters Configure and  
manage diskgroups using  
Oracle Automatic Storage  
Management Work with  
services, voting disks,  
and Oracle Clusterware  
Repository Look under  
the hood of the Cache  
Fusion and Global  
Resource Directory  
operations in Oracle  
Real Applications  
Clusters Explore the  
internal workings of  
backup and recovery in  
Oracle Real Application  
Clusters Employ workload  
balancing and the

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Application Clusters  
Administration And  
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Transparent Application  
Failover feature of an  
Oracle database Get  
complete coverage of  
Stretch Clusters, also  
known as Metro Clusters  
Troubleshoot Oracle  
Clusterware using the  
most advanced  
diagnostics available  
Develop custom Oracle  
Real Application  
Clusters applications  
Oracle 11gR2 RAC For  
Beginners  
Oracle Real Application  
Clusters  
Oracle Database 10g Real  
Application Clusters

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**Installation,  
Administration, and  
Performance  
Cloud Computing  
Applications for Quality  
Health Care Delivery**

Apply Your SQL Server DBA Skills to Oracle Database Administration Use your SQL Server experience to set up and maintain a high-performance Oracle Database environment. Written by a DBA with expertise in both platforms, Oracle Database Administration for Microsoft SQL Server DBAs illustrates each technique with clear explanations, examples, and comparison tables. Get full details on Oracle Database intervals, creation assistants, management



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Administration And  
Deployment Guide 11gr2

techniques, and query tools. High availability, disaster recovery, and security procedures are also extensively covered in this comprehensive Oracle Press guide. Install and configure Oracle Database on Windows or Linux systems Administer and monitor databases from Oracle Enterprise Manager Implement robust security using roles, permissions, and privileges Back up and restore databases with Oracle Recovery Manager Use the Oracle cost-based optimizer to tune performance Write, debug, and execute PL/SQL queries using Oracle SQL Developer Maximize availability with Oracle Real Application Clusters Build standby and failover servers using Oracle Data Guard

Oracle 11gR2 RAC For Beginners Become an Oracle Real Application Cluster Administrator in Just 2 Weeks! Expert Oracle RAC Performance

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## Administration And

## Deployment Guide 11gr2

Diagnostics and Tuning provides comprehensive coverage of the features, technology and principles for testing and tuning RAC databases. The book takes a deep look at optimizing RAC databases by following a methodical approach based on scientific analysis rather than using a speculative approach, twisting and turning knobs and gambling on the system. The book starts with the basic concepts of tuning methodology, capacity planning, and architecture. Author Murali Vallath then dissects the various tiers of the testing implementation, including the operating system, the network, the application, the storage, the instance, the database, and the grid infrastructure. He also introduces tools for performance optimization and thoroughly covers each aspect of the tuning process, using many real-world examples, analyses, and solutions from the field that provide you

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Administration And  
Deployment Guide 11gR2?

with a solid, practical, and replicable approach to tuning a RAC environment. The book concludes with troubleshooting guidance and quick reference of all the scripts used in the book. Expert Oracle RAC Performance Diagnostics and Tuning covers scenarios and details never discussed before in any other performance tuning books. If you have a RAC database, this book is a requirement. Get your copy today. Takes you through optimizing the various tiers of the RAC environment. Provides real life case studies, analysis and solutions from the field. Maps a methodical approach to testing, tuning and diagnosing the cluster Using real-world examples and hands-on tasks, Oracle Data Guard 11gR2 Administration Beginner's Guide will give you a solid foundation in Oracle Data Guard. It has been designed to teach you everything you need to know to

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Administration And  
Deployment Guide 11gr2

successfully create and operate Data Guard environments with maximum flexibility, compatibility, and effectiveness. If you are an Oracle database administrator who wants to configure and administer Data Guard configurations, then "Oracle Data Guard 11gR2 Administration Beginner's Guide" is for you. With a basic understanding of Oracle database administration, you'll be able to easily follow the book.

Oracle 10g RAC Grid, Services and Clustering

A Real-World Certification Guide

Oracle Database 11g

Cluster RAC Oracle 19c

Oracle Solaris Cluster Essentials

Oracle 10g Grid and Real Application Clusters

Implement a Centralized

Cloud Storage Infrastructure with Oracle Automatic

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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  
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

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Administration And  
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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

Learn cutting-edge

technology from Oracle

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Administration And  
Deployment Guide 11gr2  
experts Written by Oracle  
insiders, this comprehensive  
guide covers everything you  
need to know about Real  
Application Clusters -- low-  
cost hardware platforms that  
can rival and exceed the  
quality of service,  
availability, and  
scalability of the most  
expensive mainframe systems.  
Concepts covered are  
applicable to all previous  
versions of Oracle Tuning  
and troubleshooting tips,  
providing insight on the  
most advanced diagnostics  
available Detailed coverage  
of advanced RAC concepts  
Working code for all  
examples available online  
This IBM Redbooks

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Administration And Deployment Guide 11gR2 publication describes experiences gained while installing and testing several Oracle® solutions, such as: - Single Instance of Oracle Database 10gR2 - Including sharing ORACLE\_HOME and Cloning Oracle databases - RAC Instance of Oracle Database 10gR2 using raw devices, block devices, or OCFS2 files - Oracle E-Business Suite 11.5.10.2 with a split configuration database on Linux on System z - Oracle AS10g Interested readers include database consultants, installers, administrators, and system programmers. This book is not meant to replace Oracle



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Administration And Deployment Guide 11gr2 documentation; it documents our experiences installing Oracle products.

This book is the first of its kind, a book dedicated to tuning the Oracle high availability RAC architecture. Oracle RAC databases are flexible and robust, and along with this flexibility comes complexity, making RAC tuning one of the most challenging areas of Oracle tuning. Packed with incisive insights and examples from one of America's leading RAC experts, guru Brian Peasland delivers an indispensable book for all RAC administrators who need to guarantee that their RAC

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systems run at optimal performance. It's not enough for the DBA to maintain and control RAC database, the RAC DBA must also have an arsenal of tools and scripts that will help them ensure that their RAC database run at optimal levels. This book will be valuable to all Oracle professionals who must tune their Oracle RAC systems for peak performance. Similar to tuning Oracle database systems in general, Oracle RAC performance tuning covers a wide variety of focus areas. Topics will include Oracle wait events specific to RAC deployments, using Oracle Enterprise

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Manager Grid Control and AWR in diagnosing RAC problems, and RAC utilities such as OS Watcher and ORAchk (formerly RACcheck). This book will also discuss architecture issues related RAC performance, delving into the cluster interconnect, physical disk layout and Oracle 12c new Flex Clusters. Oracle RAC also allows the workload the spread among several low cost servers (scale-out) rather than a large single server (scale-up), and this book examines these approaches from a tuning perspective. Many companies are working towards private cloud implementations using

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RAC, and this book is perfect for the DBA's charged with . Oracle 12c RAC raises the bar with its new multi-tenant database implementation. Think of multi-tenant as virtualization at the database level. As more companies start leveraging Oracle 12c RAC for their enterprise database architecture, it is important that the system be designed and tuned properly to ensure the application has a well-performing user experience. This unique book provides a one-stop location for any RAC DBA who must become a RAC performance tuning specialist. Most

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Oracle RAC books on the market devote only one chapter to performance tuning. The information in this book provides a solid foundation for one's first RAC deployment, and provide you with the tools and methods needed to keep your complex RAC systems running optimally. While this book is not for beginners, the reader is given sufficient background throughout the chapters so that most Oracle DBAs, even those with little Oracle RAC experience, will be able to understand its contents. Oracle RAC is inherently complex. This explains the concepts before delving into highly

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technical areas. Many in-  
depth areas of RAC tuning  
are explored that help the  
DBA reveal hidden  
performance trends within  
even the most complex RAC  
database.

Oca Oracle Database 11g  
Database Administration I  
Configuration for 2 Nodes  
Cluster RAC

Proven Methods for Achieving  
Optimum Performance and  
Availability

Oracle Database 10g Linux  
Administration

Oracle on LinuxONE

Installing Oracle 11gR2 RAC  
on Linux on System z

**\* Only book on the market to  
actually show you how to**

Administration And  
Deployment Guide 11gr2

**build an Oracle RAC cluster  
on Linux. \* Author expertise &  
quality: Steve Shaw's  
Hammerora project is one of  
the most visited sites in  
SourceForge.net. Julian Dyke  
is Chair of UK Oracle User  
Group RAC SIG and a member  
of the Oak Table Network. \*  
Based on latest Oracle release  
(10g R2) which we anticipate  
being the release where the  
largest number of customers  
migrate from existing single  
instance databases to RAC  
clusters. \* Linux is highest  
growth sector in relational  
database market and Oracle  
has 69% of that market**

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Administration And  
(Gartner).

Deployment Guide 11gr2  
Developed as a practical book,  
"Oracle Database 11g  
Administration I Certification  
Guide" will show you all you  
need to know to effectively  
excel at being an Oracle DBA,  
for both examinations and the  
real world. This book is for  
anyone who needs the  
essential skills to become an  
Oracle DBA, pass the Oracle  
Database Administration I  
exam, and use those skills in  
the real world to manage  
secure, high performance, and  
highly available Oracle  
databases.

**Secrets of the Oracle**



**Database is the definitive guide to undocumented and partially-documented features of the Oracle Database server. Covering useful but little-known features from Oracle Database 9 through Oracle Database 11, this book will improve your efficiency as an Oracle database administrator or developer. Norbert Debes shines the light of day on features that help you master more difficult administrative, tuning, and troubleshooting tasks than you ever thought possible. Finally, in one place, you have at your fingertips knowledge that previously had**

Administration And  
Deployment Guide 11gr2

**to be acquired through years of experience and word of mouth through knowing the right people. What Norbert writes is accurate, well-tested, well-illustrated by clear examples, and sure to improve your ability to make an impact on your day-to-day work with Oracle.**

**"Geoff Ingram has met the challenge of presenting the complex process of managing Oracle performance. This book can support every technical person looking to resolve Oracle8i and Oracle9i performance issues."**

**-Aki Ratner, President, Precise**

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**Software Solutions Ensuring high-performance and continuous availability of Oracle software is a key focus of database managers. At least a dozen books address the subject of "performance tuning"-- that is, how to fine-tune the Oracle database for its greatest processing efficiency. Geoff Ingram argues that this approach simply isn't enough. He believes that performance needs to be addressed right from the design stage, and it needs to cover the entire system--not just the database. High-Performance**

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**Oracle is a hands-on book,  
loaded with tips**

**and techniques for ensuring  
that the entire Oracle  
database system  
run efficiently and doesn't  
break down. Written for Oracle  
developers and DBAs, and  
covering both Oracle8i and  
Oracle9i, the book  
goes beyond traditional  
performance-tuning books  
and covers the key techniques  
for ensuring 24/7 performance  
and availability of the complete  
Oracle system. The book  
provides practical solutions  
for: \* Choosing physical layout  
for ease of administration and**

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**efficient use of space \*  
Managing indexes, including  
detecting unused indexes  
and automating rebuilds \* SQL  
and system tuning using the  
powerful new features in  
Oracle9i Release 2 \* Improving  
SQL performance without  
modifying code \* Running  
Oracle Real Application  
Clusters (RAC) for  
performance and availability \*  
Protecting data using Recover  
Manager (RMAN), and  
physical and logical standby  
databases The companion  
Web site provides the  
complete source code  
for examples in the book,**

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Application Clusters

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updates on techniques, and  
additional documentation for  
optimizing your Oracle  
system.

**Pro Oracle Database 10G Rac  
On Linux: Installation,  
Administration, And  
Performance**

**High-Performance Oracle  
Concepts, Methodologies,  
Tools, and Applications**

**Oracle Automatic Storage  
Management: Under-the-Hood  
& Practical Deployment Guide**

**Oracle Enterprise Manager**

**Cloud Control 12c Deep Dive**

**Pro Oracle Database 11g RAC  
on Linux**

**This book provides**

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Deployment Guide 11gr2  
**practical guidelines to  
administer the Oracle**

**Oracle Real Application  
Cluster. It's a field guide  
to administer RAC in real  
life situation. This book  
will improve your  
efficiency as an Oracle  
database administrator  
and enable you to master  
more daunting, difficult  
administrative, tuning,  
and troubleshooting tasks  
than you ever thought  
possible. Topics covered  
include: Oracle RAC  
Architecture, Cluster  
Administration, Storage,  
Instance and Service**

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**administration. Adding,  
deleting Nodes, Managing  
Backup and Recovery,  
Performance monitoring  
and Workload  
Management and it also  
has useful Metalink note  
references. This practical  
field guide also covers a  
section on useful  
Metalink Note  
References, useful  
weblinks for easy  
reference and also the  
useful information search  
tips on Metalink.  
Install and configure  
Oracle Database 10g on a  
Linux enterprise**



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**platform. This book explains how to set up, administer, monitor, and tune Oracle Database 10g on Linux. You will also learn how to implement High Availability solutions as well as handle backup, recovery, and replication. This exclusive Oracle Press guide is the ideal resource for all Oracle DBAs working in a Linux environment.**

**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<sup>®</sup>, 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<sup>®</sup> publication shares experiences that are**

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**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**

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**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 with our  
experiences while  
installing and using  
Oracle products.**

**Annotation Oracle RAC or  
Real Application Clusters  
is a grid computing  
solution that allows  
multiple nodes (servers)**

**in a clustered system to mount and open a single database that resides on shared disk storage. Should a single system (node) fail, the database service will still be available on the remaining nodes. Oracle RAC is an integral part of the Oracle database setup. You have one database with multiple users accessing it, in real time. This book will enable DBAs to get their finger on the pulse of the Oracle 11g RAC environment quickly and**

**easily. This book will cover all areas of the Oracle RAC environment and is indispensable if you are an Oracle DBA who is charged with configuring and implementing Oracle 11g R1, with bonus R2 information included. This book presents a complete method for the configuration, installation, and design of Oracle 11g RAC, ultimately enabling rapid administration of Oracle 11g RAC environments. This practical handbook**

**documents how to administer a complex Oracle 11g RAC environment. Packed with real world examples, expert tips and troubleshooting advice, the book begins by introducing the concept of Oracle RAC and High Availability. It then dives deep into the world of RAC configuration, installation and design, enabling you to support complex RAC environments for real world deployments. Chapters cover Oracle**

**RAC and High Availability, Oracle 11g RAC Architecture, Oracle 11g RAC Installation, Automatic Storage Management, Troubleshooting, Workload Management and much more. By following the practical examples in this book, you will learn every concept of the RAC environment and how to successfully support complex Oracle 11g R1 and R2 RAC environments for various deployments within real world**



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**situations. This book is  
the updated release of  
our previous Oracle 11g  
R1/R2 Real Application  
Clusters Handbook. If you  
already own a copy of that  
Handbook, there is no  
need to upgrade to this  
book.**

**Oracle Database 11g The  
Complete Reference  
Expert Oracle RAC 12c  
Oracle9i RAC  
Real Application Clusters  
11g 2 Oracle Release 2  
and Grid Infrastructure  
Administration  
Oracle10g Grid  
Computing with RAC**

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**Secrets of the Oracle  
Database**

Thousands of IT organizations have adopted clustering to improve the availability of mission-critical software services. Today, with the rapid growth of cloud computing environments, clustering is even more crucial. Now, there ' s a comprehensive, authoritative guide to the industry ' s most stable, robust clustering platform: the Oracle Solaris Cluster. Oracle® Solaris Cluster Essentials thoroughly covers both Oracle Solaris Cluster 3.2 and Oracle Solaris Cluster Geographic Edition, offering start-to-finish lifecycle guidance for planning, implementation, management, and troubleshooting. Authored by Oracle Solaris Cluster expert Tim Read, this book covers both high availability

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and disaster recovery features, and offers detailed guidance for both Oracle and non-Oracle database environments. It also presents several example implementations that can be used to quickly construct effective proofs-of-concept. Whether you 're new to clustering or upgrading from older solutions, this book brings together all the information you 'll need to maximize the value, reliability, and performance of any Oracle Solaris Cluster environment. You 'll learn how to Understand Oracle Solaris Cluster 's product features and architecture, and their implications for design and performance Establish requirements and design clustered systems that reflect them Master best practices for integrating clustering with virtualization Implement proven disaster

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Administration And Deployment Guide 11gr2 recovery planning techniques Efficiently maintain Oracle Solaris Cluster

environments Part of the Solaris System Administration Series, Oracle® Solaris Cluster Essentials combines a complete technology introduction and hands-on guide for every architect, administrator, and IT manager responsible for high availability and business continuity.

This Oracle Press guide shows how to implement a cloud-based management system and maintain on-demand access to critical services with Oracle Enterprise Manager Cloud Control 12c.

Oracle RAC technology is the advance level of database which is designed to provide high availability and scalability. Oracle RAC is installed on multiple servers and it forms the foundation for database cloud. Build a Strong

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Foundation in Oracle grid, Clusterware Installation with this Video Course for Beginners.- Introduction to clusterware technology- Oracle cluster node setup- Oracle 11g grid software installation- Setup two node RAC- Create first Oracle RAC database- Oracle RAC and ASM administrationA strong RAC Beginners eBook for IT Professionals World Wide!Oracle RAC allows multiple computers to run Oracle RDBMS software simultaneously while accessing a single database, thus providing clustering. The main aim of Oracle RAC online course is to implement a clustered database to provide performance, scalability and resilience. It's a clustered version of Oracle Database based on a comprehensive high availability stackThe Oracle 11gR2 Real Application Clusters

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Administration eBook describes the Oracle RAC architecture, hands on experience and Oracle Real Application Clusters multi node installations. This eBook is for people who have prior knowledge on Oracle database administration and covers knowledge on topics like Oracle RAC Cluster, Oracle AMS, Oracle RAC administration, Oracle RAC Installation, Oracle RAC on VirtualBox and many more.

Build and manage a scalable storage infrastructure with Oracle Automatic Storage Management Streamline data management and provisioning using Oracle Automatic Storage Management (Oracle ASM) and the detailed information contained in this exclusive Oracle Press resource. Written by a team of database experts, Oracle Automatic

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Storage Management: Under-the-Hood & Practical Deployment Guide explains

how to build and maintain a dynamic, highly available Oracle database storage environment. Inside, you'll learn how to configure storage for Oracle ASM, build disk groups, use data striping and mirroring, and optimize performance.

You'll also learn how to ensure consistency across server and storage platforms, maximize data redundancy, and administer Oracle ASM from the command line. Manage Oracle ASM Instances and configure Oracle RDBMS instances to leverage Oracle ASM Define, discover, and manage disk storage under Oracle ASM Create external, normal-redundancy, and high-redundancy disk groups Add and remove Oracle ASM storage without

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affecting RDMS instance availability  
Learn how Oracle ASM provides even  
I/O distribution Work with Oracle ASM  
directories, files, templates, and aliases  
Improve storage performance and  
integrity using the ASMLIB API Simplify  
system administration with the Oracle  
ASM command line interface  
Understand key internal Oracle ASM  
structures and algorithms  
Oracle Data Guard 11gR2  
Administration Beginner's Guide  
Become an Oracle Real Application  
Cluster Administrator in Just 2 Weeks!  
Oracle Rac Performance Tuning  
Database Cloud Storage

*The development of better processes  
to provide proper healthcare has  
enhanced contemporary society. By  
implementing effective collaborative*



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*strategies, this ensures proper quality and instruction for both the patient and medical practitioners. Health Care Delivery and Clinical Science: Concepts, Methodologies, Tools, and Applications is a comprehensive reference source for the latest scholarly material on emerging strategies and methods for delivering optimal healthcare and examines the latest techniques and methods of clinical science. Highlighting a range of pertinent topics such as medication management, health literacy, and patient engagement, this multi-volume book is ideally designed for professionals, practitioners, researchers, academics, and*

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graduate students interested in healthcare delivery and clinical science.

*Expert Oracle RAC 12c is a hands-on book helping you understand and implement Oracle Real Application Clusters (RAC), and to reduce the total-cost-of-ownership (TCO) of a RAC database. As a seasoned professional, you are probably aware of the importance of understanding the technical details behind the RAC stack. This book provides deep understanding of RAC concepts and implementation details that you can apply toward your day-to-day operational practices. You'll be guided in troubleshooting and avoiding*

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### Administration And Deployment Guide 11gr2

*trouble in your installation. Successful RAC operation hinges upon a fast-performing network interconnect, and this book dedicates a chapter solely to that very important and easily overlooked topic. All four authors are experienced RAC engineers with a wealth of hard-won experience encountering and surmounting the challenges of running a RAC environment that delivers on its promise. In Expert Oracle RAC 12c they provide you a framework in which to avoid repeating their hard-won lessons. Their goal is for you to manage your own RAC environment with ease and expertise. Provides a deep conceptual understanding of*

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*RAC Provides best practices to  
implement RAC properly and match  
application workload Enables  
readers to troubleshoot RAC with  
ease What you'll learn Know when  
to apply RAC, and when not to  
Design applications to take  
advantage of RAC Troubleshoot and  
solve clusterware problems Manage  
database backup and recovery in  
RAC Stay on top of locking issues  
and deadlock detection Harness the  
performance from parallel  
processing in RAC Support your  
RAC environment with a healthy  
network interconnect Who this book  
is for Expert Oracle RAC 12c is for  
experienced Oracle Database  
Administrators (DBAs) who are*

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*ready to take the next step in their career by expanding their skill set to include building and managing Oracle Real Application Clusters (RAC). DBAs and architects who are in the process of implementing RAC can immensely benefit from this book. It's an excellent choice for DBAs to learn RAC conceptually, understand best practices, and become experts in troubleshooting RAC problems.*

*Table of Contents*

*Overview of Oracle RAC Clusterware  
Management and Troubleshooting  
RAC Operational Practices RAC  
New Features Storage and ASM  
Practices Application Design Issues  
Managing and Optimizing a*

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Complex RAC Environment Backup  
and Recovery in RAC Network*

*Practices in RAC RAC Database*

*Optimization Locks and Deadlocks*

*Parallel Query in RAC Clusterware*

*and Database Upgrades Oracle*

*RAC One Node*