

## Oracle Database 12c Release 2 Real Application Clusters Handbook Concepts Administration Tuning Troubleshooting Oracle Press

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### Oracle Database 12c Release 2 - Get Started

Sharding with Oracle Database 12 c Release 2 (12.2) is an architecture for suitable online transaction processing (OLTP) applications where data is

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horizontally partitioned across multiple discrete Oracle databases, called shards, which share no hardware or software. The collection of shards is presented to an application as a single logical Oracle database.

## **Oracle Database 12c Release 2 (12.2) New Features**

What's new in Oracle Database 12c Release 2 (Release 12.2) Oracle Spatial and Graph. Use Network Feature Editing (NFE) Use GeoJSON Objects for Geographic Data

## **Oracle Database 12c Release 2 - What's New**

Oracle Database 12c Release 2 (12.2) Installation On Fedora 29 (F29) Download Software. Download the Oracle software from OTN or MOS depending on your support status. OTN: Oracle Database... Unpack Files. Unzip the file. You should now have a single directory called "database" containing ...

## **ORACLE-BASE - Oracle Database 12c Release 2 (12.2 ...**

Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle.

## **Oracle Database Database New Features Guide, 12c Release 2 ...**

Database Concepts. 12c Release 2 (12.2) E85769-04. March 2018. Oracle Database Database Concepts, 12c Release 2 (12.2) E85769-04. Copyright © 1993, 2018, Oracle and/or its affiliates. All rights reserved. Primary Authors: Lance Ashdown, Tom Kyte.

## **Oracle Database Database Concepts, 12c Release 2 (12.2)**

Oracle Database - Standard Edition - Version 12.2.0.1 to 12.2.0.1 [Release 12.2] Oracle Database Cloud Schema Service - Version N/A and later Gen 1 Exadata Cloud at Customer (Oracle Exadata Database Cloud Machine) - Version N/A and later Information in this document applies to any platform.

## **Oracle Database 12.2.0.1 Release Update & Release Update ...**

Oracle Database 12c Release 1 12.1.0.1 July 2013 : 12.1.0.2 July 2014 Multitenant architecture, In-Memory Column Store, Native JSON, SQL Pattern Matching, Database Cloud Service Oracle Database 12c Release 2 12.2.0.1 September 2016 (cloud) March 2017 (on-prem)

## **Oracle Database - Wikipedia**

Installation guides and general Oracle Database 12c documentation are here. Note: The base Oracle Database 12.1.0.2 Server and Client are certified on Microsoft Windows 10. Consult the release notes for more information.

## **Oracle Database 12c Release 1 (12.1.0.2.0) for Microsoft ...**

Oracle Database 19c. Oracle Database 19c is the latest Long Term Release with the widest window of support duration. For details about database releases

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and their support timeframes, refer to Oracle Support Document 742060.1 (Release Schedule of Current Database Releases) on My Oracle Support.. 19.5 - Enterprise Edition (also includes Standard Edition 2)

## **Database Software Downloads | Oracle**

Oracle Database Release Schedule. These are server releases unless otherwise specified. Server releases always include the native word size client (e.g. 64-bit). Where the platform supports it, a 32-bit and 64-bit client is also part of the release. Table 2 - Database Release Schedule

## **Release Schedule of Current Database Releases - Oracle**

1 Oracle Database 12c Release 2 (12.2), the latest generation of the world's most popular database, is now available in the Oracle Cloud. 2 | OPTIMIZER WITH ORACLE DATABASE 12C. Adaptive Query Optimization. By far the biggest change to the optimizer in Oracle Database 12c is Adaptive Query Optimization.

## **Optimizer with Oracle Database 12c Release 2**

Oracle Database 12c Release 2 (12.2) is available now in the Oracle Cloud in DBCS and ECS in both NAS and EMEA zones, as well as being available on Exadata Express Cloud Service. The Oracle Database 12.2 documentation should be published later today.

## **Oracle Database 12c Release 2 Archives – Upgrade your ...**

Support. Oracle Database Express Edition (XE) is a community supported edition of the Oracle Database family. Please go to the Oracle Database XE Community Support Forum for help, feedback, and enhancement requests.. Note: Oracle Support Services only provides support for Oracle Database Enterprise Edition (EE) and Oracle Database Standard Edition 2 (SE2) in conjunction with a valid Oracle ...

## **Oracle Database Express Edition (XE) Downloads**

Complete Checklist for Manual Upgrades to Non-CDB Oracle Database 12c Release 2 (12.2) (Doc ID 2173141.1) Last updated on FEBRUARY 06, 2020. Applies to: Oracle Database Cloud Schema Service - Version N/A and later. Oracle Database Exadata Cloud Machine - Version N/A and later. Oracle Cloud Infrastructure - Database Service - Version N/A and later.

## **Complete Checklist for Manual Upgrades to Non-CDB Oracle ...**

5. Installing Oracle 12c Database 5.1. Installing Oracle 12c Database (RDBMS) Software. The following steps are for node 1 of your cluster environment, unless otherwise specified. Log in as root and type: xhost+. Mount the Oracle Database 12c media. Log in as Oracle user by typing:su - oracle; Run the installer script from your Oracle database ...

## **How to deploy Oracle 12c Release 2 Grid and RAC Database ...**

Oracle Database 12c Release 2, consider using the PREFERENCE\_OVERRIDES\_PARAMETER preference (see above) to enforce the use of auto sample

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size. METHOD\_OPT The METHOD\_OPT parameter controls the creation of histograms<sup>1</sup> during statistics collection. Histograms are a

## Best Practices for Gathering Optimizer Statistics ... - Oracle

Oracle Database 12c Release 2 Real Application Clusters Handbook: Concepts, Administration, Tuning... by K. Gopalakrishnan Paperback \$39.46. In stock. Ships from and sold by indoobestsellers. Oracle Database 12c Release 2 Multitenant (Oracle Press) by Anton Els Paperback \$45.93. Only 6 left in stock (more on the way).

Proven Database Optimization Solutions?Fully Updated for Oracle Database 12c Release 2 Systematically identify and eliminate database performance problems with help from Oracle Certified Master Richard Niemiec. Filled with real-world case studies and best practices, Oracle Database 12c Release 2 Performance Tuning Tips and Techniques details the latest monitoring, troubleshooting, and optimization methods. Find out how to identify and fix bottlenecks on premises and in the cloud, configure storage devices, execute effective queries, and develop bug-free SQL and PL/SQL code. Testing, reporting, and security enhancements are also covered in this Oracle Press guide. • Properly index and partition Oracle Database 12c Release 2 • Work effectively with Oracle Cloud, Oracle Exadata, and Oracle Enterprise Manager • Efficiently manage disk drives, ASM, RAID arrays, and memory • Tune queries with Oracle SQL hints and the Trace utility • Troubleshoot databases using V\$ views and X\$ tables • Create your first cloud database service and prepare for hybrid cloud • Generate reports using Oracle's Statspack and Automatic Workload Repository tools • Use sar, vmstat, and iostat to monitor operating system statistics

Leverage the New and Improved Features of Oracle Database 12c Written by Oracle experts Bob Bryla and Robert G. Freeman, this Oracle Press guide describes the myriad new and enhanced capabilities available in the latest Oracle Database release. Inside, you'll find everything you need to know to get up and running quickly on Oracle Database 12c Release 2. Supported by contributions from Oracle expert Eric Yen, Oracle Database 12c Release 2 New Features offers detailed coverage of: • Installing Oracle Database 12c and Grid Infrastructure • Architectural changes, such as Oracle Multitenant • The most current information on upgrading and migrating to Oracle Database 12c • The pre-upgrade information tool and parallel processing for database upgrades • Oracle Real Application Clusters new features, such as Oracle Flex Cluster, Oracle Flex Automatic Storage Management, and Oracle Automatic Storage Management Cluster File System • Enhanced and new online operations: tables, indexes, and PDBs • Oracle RMAN enhancements, including cross-platform backup and recovery • Oracle Data Guard improvements, such as Fast Sync, and Oracle Active Data Guard new features, such as Far Sync • SQL, PL/SQL, DML, and DDL new features • Improvements to partitioning manageability, performance, and availability • Advanced business intelligence and data warehousing capabilities • Security enhancements, including privileges analysis, data redaction, and new administrative-level privileges • Manageability, performance, and optimization improvements

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 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

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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 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

Learn all of the available upgrade and migration methods in detail to move to Oracle Database version 12c. You will become familiar with database upgrade best practices to complete the upgrade in an effective manner and understand the Oracle Database 12c patching process. So it's time to upgrade Oracle Database to version 12c and you need to choose the appropriate method while considering issues such as downtime. This book explains all of the available upgrade and migration methods so you can choose the one that suits your environment. You will be aware of the practical issues and proactive measures to take to upgrade successfully and reduce unexpected issues. With every release of Oracle Database there are new features and fixes to bugs identified in previous versions. As each release becomes obsolete, existing databases need to be upgraded. Oracle Database Upgrade and Migration Methods explains each method along with its strategy, requirements, steps, and known issues that have been seen so far. This book also compares the methods to help you choose the proper method according to your constraints. Also included in this book: Pre-requisite patches and pre-upgrade steps Patching to perform changes at the binary and database level to apply bug fixes What You Will Learn: Understand the need and importance of database upgrading and migration Be aware of the challenges associated with database upgrade decision making Compare all upgrade/migration methods Become familiar with database upgrade best practices and recommendations Understand database upgrade concepts in high availability and multi-tenant environments Know the database downgrade steps in case the upgraded database isn't compatible with the environment Discover the features and benefits to the organization when it moves from the old database version to the latest database version Understand Oracle 12c patching concepts Who This Book Is For: Core database administrators, solution architects, business consultants, and database architects

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 & 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 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

Master Oracle Database 12c Release 2's powerful In-Memory option This Oracle Press guide shows, step-by-step, how to optimize database performance and cut transaction processing time using Oracle Database 12c Release 2 In-Memory. Oracle Database 12c Release 2 In-Memory: Tips and Techniques for Maximum Performance features hands-on instructions, best practices, and expert tips from an Oracle enterprise architect. You will learn how to deploy the software, use In-Memory Advisor, build queries, and interoperate with Oracle RAC and Multitenant. A complete chapter of case studies illustrates real-

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world applications. • Configure Oracle Database 12c and construct In-Memory enabled databases • Edit and control In-Memory options from the graphical interface • Implement In-Memory with Oracle Real Application Clusters • Use the In-Memory Advisor to determine what objects to keep In-Memory • Optimize In-Memory queries using groups, expressions, and aggregations • Maximize performance using Oracle Exadata Database Machine and In-Memory option • Use Swingbench to create data and simulate real-life system workloads

"Offers hundreds of hints, tips, and tricks of the trade that can be useful to any DBA wanting to achieve maximum performance of Oracle applications. No Oracle library would be complete without this book." --Ken (Dr. DBA) Jacobs, Vice President of Product Strategy for Server Technologies, Oracle Corporation "Rich is the first and last stop for Oracle Database technology and performance tuning. His knowledge is a vital tool that you need to successfully negotiate the waters of Oracle database development." --Mike Frey, Principal Architect, Navteq

Expert Consolidation in Oracle Database 12c is your key to reducing data management costs and increasing data center efficiency. Consolidation and cloud computing are converging trends sweeping the industry. The same technologies enabling cloud computing enable consolidation as well, leading to savings on all fronts from the amount of power used for servers to the amount of floor space consumed to the number of administrators needed to manage an installation. Yet the consolidation process can be a long and winding road. Success requires planning, and consideration to the impacts on supporting infrastructure. Expert Consolidation in Oracle Database 12c guides you through planning and implementing a consolidated Oracle Database installation using the many new features built into the latest release of Oracle's database management system. You'll learn to identify candidates for consolidation and to recognize instances that are best left stand-alone. The book guides in working with clustered systems and ASM storage in the consolidated environment. Focus is given to Oracle Enterprise Manager 12c Cloud Control as a monitoring and management dashboard. Always the goal is to drive towards a cost-effective environment that is efficient both in technology and people. Focuses on the new consolidation features in Oracle Database 12c Helps you evaluate and correctly decide when to consolidate Leads to cost savings and improved data center efficiency

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Master Oracle Database 12c Release 2 testing and tuning Seamlessly transition to Oracle Database 12c Release 2 and achieve peak performance using the step-by-step instruction and best practices contained in this Oracle Press guide. Written by a team of Oracle ACEs, Oracle Database 12c Release 2 Testing Tools and Techniques for Performance and Scalability clearly explains how to identify, investigate, and resolve performance issues. You will discover how to use troubleshooting tools and test rigs, optimize code and queries, evaluate database performance, perform realistic application testing, capture and replay actual production workloads, and employ Oracle Database In-Memory. •Establish benchmarks and evaluate application workload performance •Configure and deploy SQL Tuning Advisor and SQL Access Advisor •Maximize efficiency using Oracle Database In-Memory and In-Memory Advisor •Identify and repair poorly running code with SQL Monitor •Uncover database problems using Real-Time ADDM and Emergency Monitoring •Work with database workload capture and replay •Analyze third-party code with Workload Intelligence •Identify database objects that will benefit most from In-Memory Column Store (IMCS) •Monitor and manage IMCS objects with In-Memory Central

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 new functions that are introduced in Oracle Database 12c. In this IBM Redbooks® publication, we

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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 meant to replace Oracle documentation, but to supplement it with our experiences while installing and using Oracle products.

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