

# Oracle® Databases on vSphere®

# Kannan Mani Don Sullivan

Foreword by Chris Williams, Grobal Practice Director Data Center Consulting, Dimension Data



# Virtualizing Oracle Databases On Vsphere Vmware Press Technology

Tom Plunkett,TJ Palazzolo,Tejas Joshi

#### Virtualizing Oracle Databases On Vsphere Vmware Press Technology:

Virtualizing Oracle Databases on vSphere Kannan Mani, Don Sullivan, 2014-10-15 The start to finish guide to 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 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 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 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 Virtualizing Oracle Databases on VSphere Kannan Mani, Don Sullivan (Database specialist), 2014 Annotation Thousands of organizations are virtualizing large scale Oracle database systems But until now reliable best practices have been hard to find and database and virtualization professionals have often brought differing and incompatible perspectives to the challenge Now there s a comprehensive best practice guide reflecting deep understanding of both Oracle and vSphere and supported by extensive in the field experience with the full spectrum of applications and environments Virtualizing SQL Server with VMware Michael Corey, Jeff Szastak, Michael Webster, 2014-07-23 The start to finish guide to virtualizing business critical SQL Server databases on VMware vSphere 5 By virtualizing 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 providing a fast reliable low latency network Supporting advanced AlwaysOn Failover Cluster Instances and Availability Groups Baselining 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 **Developing an Enterprise Continuity Program** Sergei Petrenko, 2022-09-01 The book discusses the activities involved in developing an Enterprise Continuity Program ECP that will cover both Business Continuity Management BCM as well as Disaster Recovery Management DRM The creation of quantitative metrics for BCM are discussed as well as several models and methods that correspond to the goals and objectives of the International Standards Organisation ISO Technical Committee ISO TC 292 Security and resilience Significantly the book contains the results of not only qualitative but also quantitative measures of Cyber Resilience which for the first time regulates organizations activities on protecting their critical information infrastructure The book discusses the recommendations of the ISO 22301 2019 standard Security and resilience Business continuity management systems Requirements for improving the BCM of organizations based on the well known Plan Do Check Act PDCA model It also discusses the recommendations of the following ISO management systems standards that are widely used to support BCM The ISO 9001 standard Quality Management Systems ISO 14001 Environmental Management Systems ISO 31000 Risk Management ISO IEC 20000 1 Information Technology Service Management ISO IEC 27001 Information Management security systems ISO 28000 Specification for security management systems for the supply chain ASIS ORM 1 2017 NIST SP800 34 NFPA 1600 2019 COBIT 2019 RESILIA ITIL V4 and MOF 4 0 etc The book expands on the best practices of the British Business Continuity Institute's Good Practice Guidelines 2018 Edition along with guidance from the Disaster Recovery

Institute s Professional Practices for Business Continuity Management 2017 Edition Possible methods of conducting ECP projects in the field of BCM are considered in detail Based on the practical experience of the author there are examples of Risk Assessment RA and Business Impact Analysis BIA examples of Business Continuity Plans BCP Disaster Recovery Plans DRP and relevant BCP DRP testing plans This book will be useful to Chief Information Security Officers internal and external Certified Information Systems Auditors senior managers within companies who are responsible for ensuring business continuity and cyber stability as well as teachers and students of MBA s CIO and CSO programs Solutions of Microsoft Exchange Server 2013 (MCSE) Paul Robichaux, Bhargay Shukla, 2015-04-06 Prepare for Microsoft Exam 70 341 and help demonstrate your real world mastery of the skills needed to deliver effective Microsoft Exchange Server 2013 solutions Designed for experienced IT pros ready to advance their status Exam Ref focuses on the critical thinking and decision making acumen needed for success at the MCSE level Focus on the expertise measured by these objectives Plan install configure and manage the transport role Install configure and manage the mailbox role Plan install configure and manage client access Design and manage an Exchange infrastructure This Microsoft Exam Ref Organizes its coverage by exam objectives Features strategic what if scenarios to challenge you Provides exam preparation tips written by Exchange Server MVPs Assumes you have significant experience managing Exchange Server in an enterprise messaging <u>Virtualizing SQL Server with VMware</u> Michael Corey, Jeff Szastak, Michael Webster, 2014 Offers techniques environment tips and insights into squeezing maximum performance out of a virtualized database Oracle on VMware Bert Scalzo.2008 Successfully meeting the challenges of combining VMware and Oracle this comprehensive reference provides a broad spectrum of technological recommendations that demonstrate how to reliably and consistently achieve optimal configuration and maximum performance for any virtualized Oracle database scenario The guide includes the best practices for virtualized servers suggested virtualization server configuration and recommendations for client operating system configuration for Oracle in a virtualized world With real world examples and highly applicable advice this handbook also details the complexities of designing configuring maintaining and tuning Oracle database deployments making it a complete compendium for keeping virtualized Oracle databases in top form Virtualize Oracle Business Critical Databases Charles Kim, George Trujillo, Steven Jones, Sudhir Balasubramanian, 2014-06-08 Virtualize Oracle Business Critical Databases October 2018 Update This book is a single source of information for an Oracle DBA to understand 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 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

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Lowe, 2009-08-18 As part of the highly acclaimed Mastering series from Sybex this book offers a comprehensive look at VMware vSphere 4 how to implement it and how to make the most of what it offers Coverage Includes Shows administrators how to use VMware to realize significant savings in hardware costs while still providing adequate servers for their users Demonstrates how to partition a physical server into several virtual machines reducing the overall server footprint within the operations center Explains how VMware subsumes a network to centralize and simplify its management thus alleviating the effects of virtual server sprawl Now that virtualization is a key cost saving strategy Mastering VMware vSphere 4 is the strategic guide you need to maximize the opportunities

Oracle Exalogic Elastic Cloud Handbook Tom Plunkett,TJ Palazzolo,Tejas Joshi,2012-09-05 Achieve Extreme Application Performance for a Private Cloud with Oracle Exalogic Elastic Cloud Transition to a private cloud computing infrastructure and achieve unmatched levels of performance with help from this Oracle Press guide Oracle Exalogic Elastic Cloud Handbook shows you how to plan implement and maintain a private cloud Find out how to set up components deploy Java applications maximize redundancy and throughput and migrate legacy workloads Examples screenshots and diagrams are included throughout this comprehensive resource Configure Oracle Exalogic Elastic Cloud nodes and racks Optimize Java EE application performance on Oracle WebLogic Server Provision and administer a highly scalable private cloud Build debug and manage custom Java applications Secure monitor and tune using Oracle Enterprise Manager Leverage capabilities from Oracle Fusion Middleware Consolidate Oracle and third party application workloads — Pro Oracle Database 11g RAC on Linux Julian Dyke, Steve Shaw, Martin Bach, 2011-01-11 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 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 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

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